Plots from WimpEvent run in res-e

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Run parameters

```
# Fluxtype:     12 (1D diff)
### Run with WimpEvent version = wimpevent-2.09
###   Using nusigma version  = nusigma-1.15-pyr
###   Using DarkSUSY version = ds-4.1.6
### WimpEvent run parameters
#  Detector latitude =  -.90000000E+02
#  Start time, t1 =     0.24500000E+00
#  End time, t2 =       0.75500000E+00
### Simulated interactions = cc
### Target material = ice/water
#
### WimpAnn input event file = dat-wa/wa-m10-ch1-sun.dat
### Below is header from WimpAnn input event file
### Run with WimpAnn version = wimpann-2.08
###   Using Pythia version   = Pythia 6.400
###   Using nusigma version  = nusigma-1.15-pyr
###   Using DarkSUSY version = ds-4.1.6
### Neutrino oscillation parameters
#      theta_12 =  0.33200000E+02
#      theta_13 =  0.10000000E+02
#      theta_23 =  0.45000000E+02
#         delta =  0.00000000E+00
#  delta_m^2_21 =  0.81000000E-04
#  delta_m^2_31 =  -.22000000E-02
### WimpAnn run parameters
#  Number of annihilations =   2500000
```

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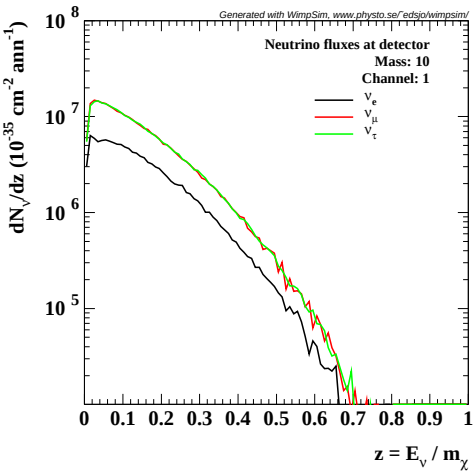
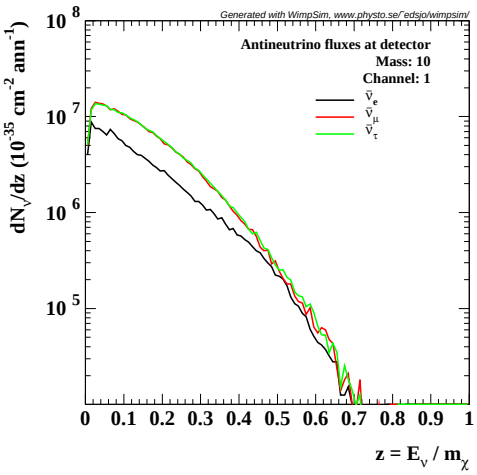
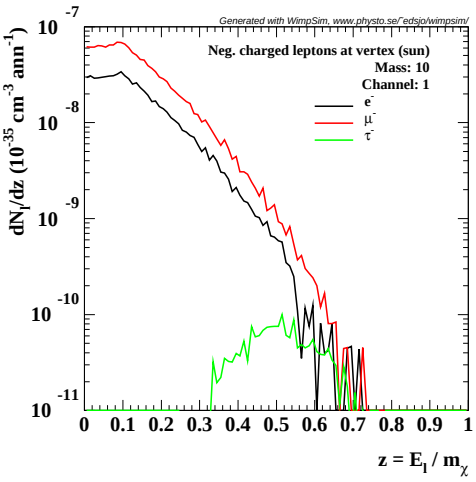
1.1 Channel 1 – $c\bar{c}$

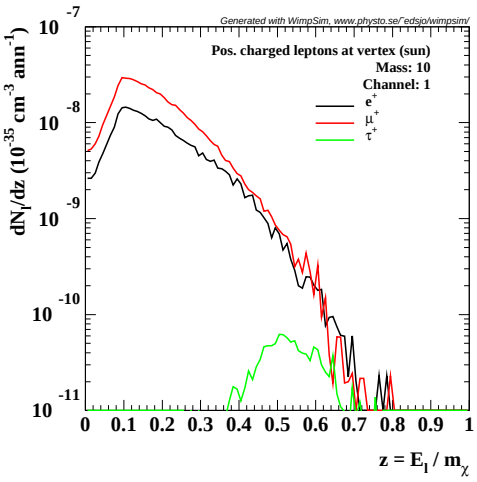
1.1.1 Neutrino fluxes at detector (Sun)



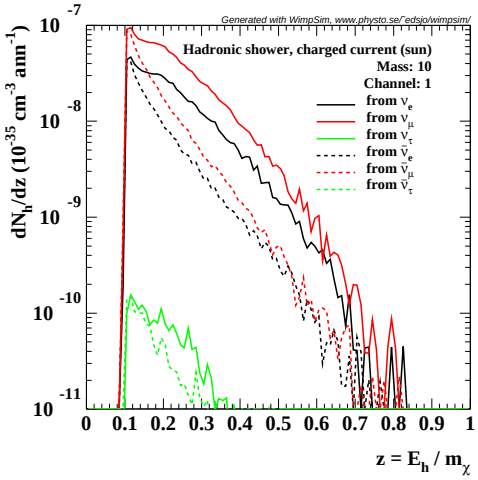


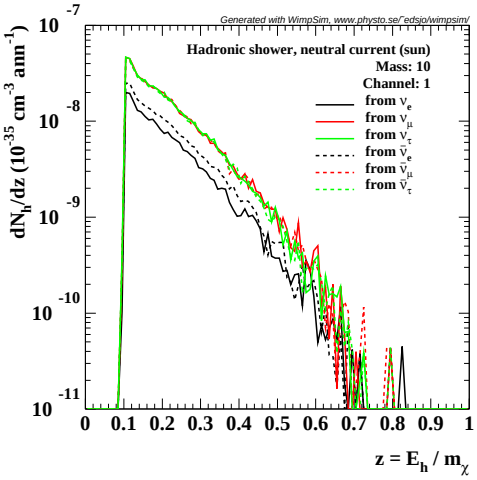
1.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



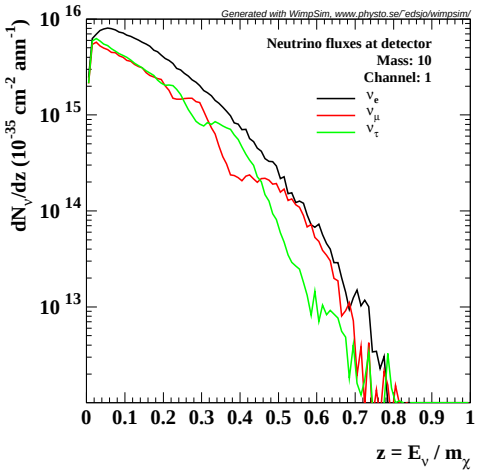


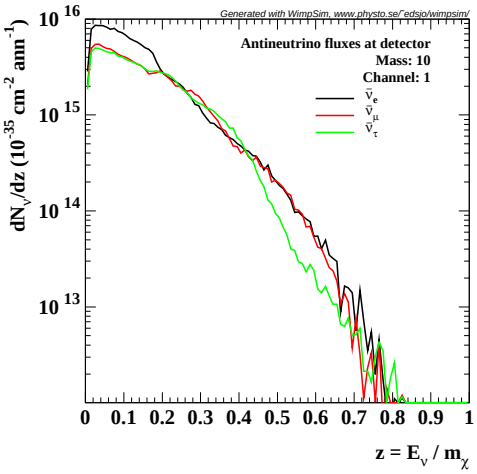
1.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



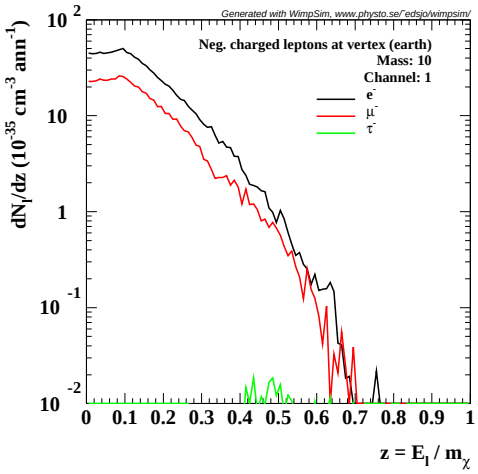


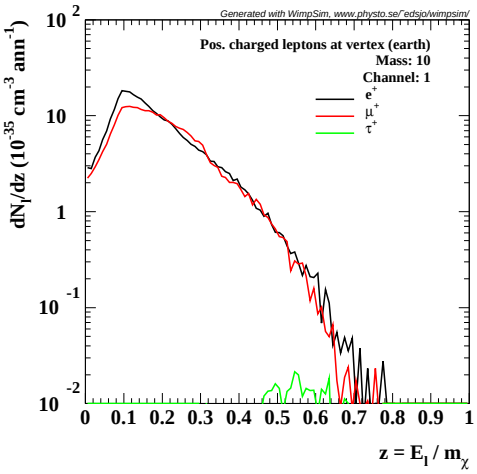
1.1.4 Neutrino fluxes at detector (Earth)



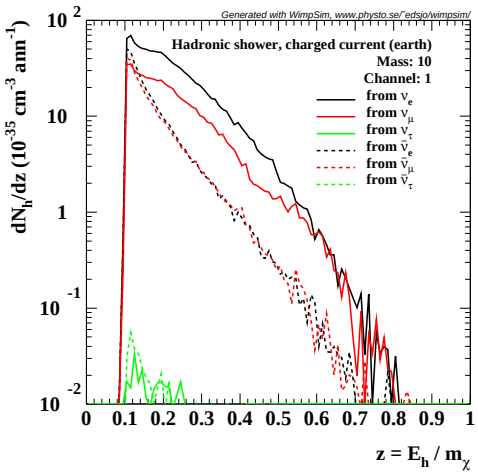


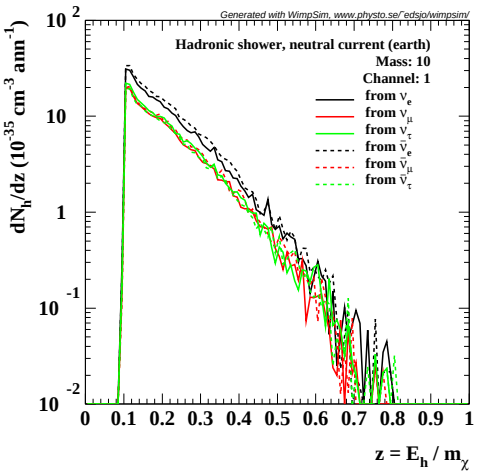
1.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



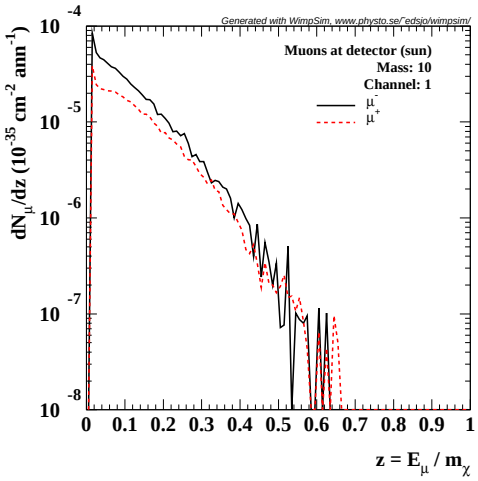


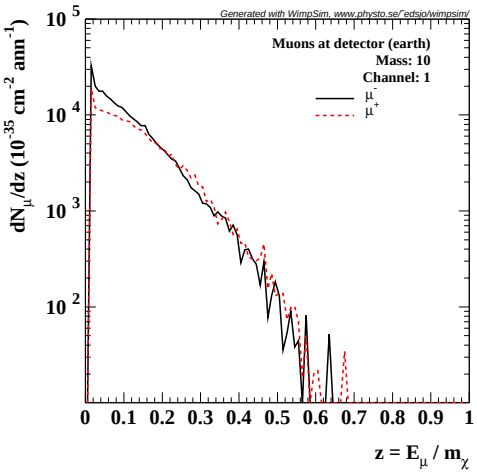
1.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





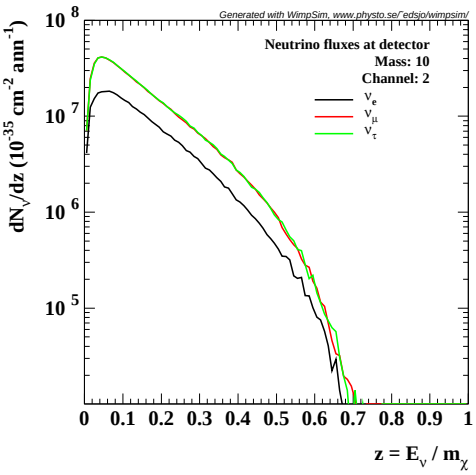
1.1.7 Muons at detector (Sun/Earth)

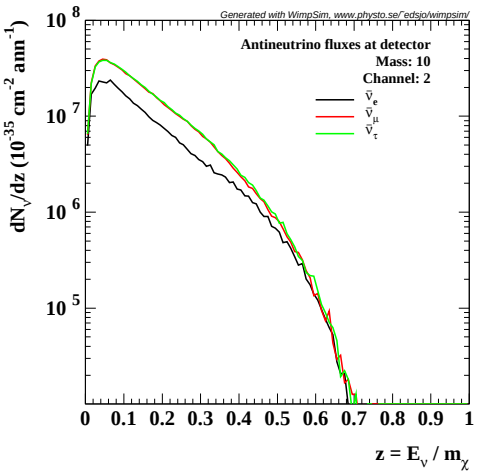




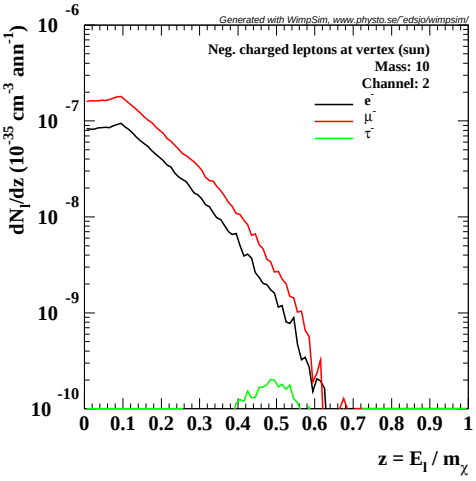
1.2 Channel 2 – $b\bar{b}$

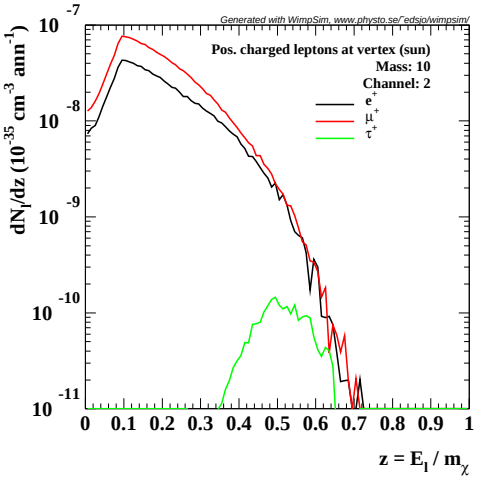
1.2.1 Neutrino fluxes at detector (Sun)



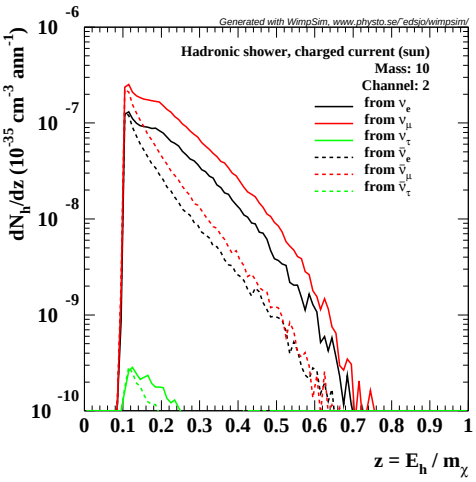


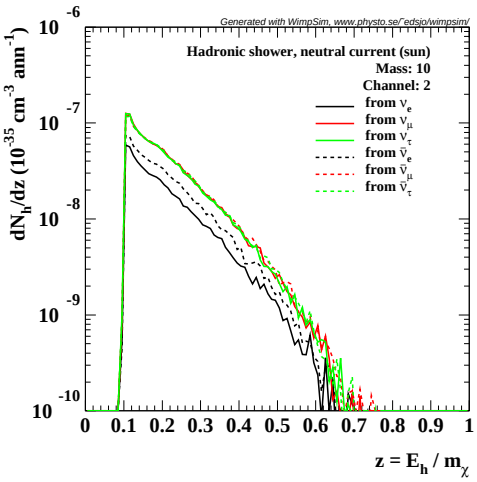
1.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



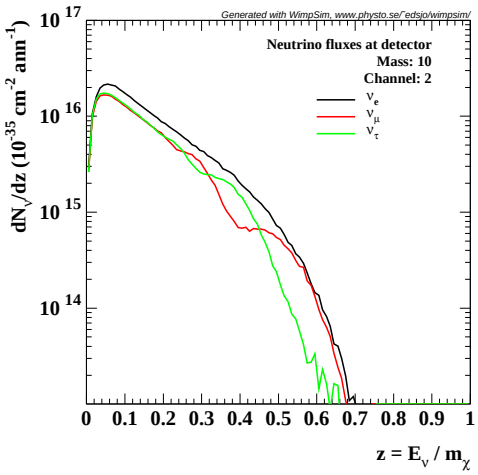


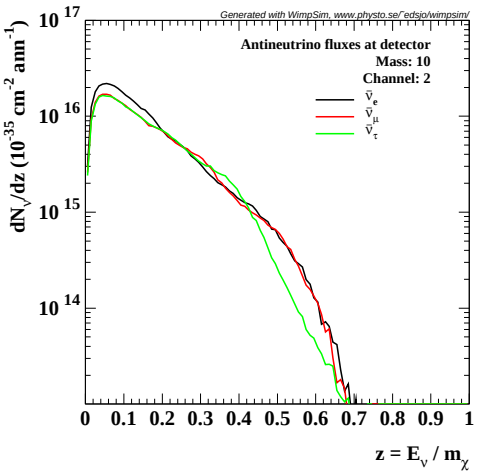
1.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



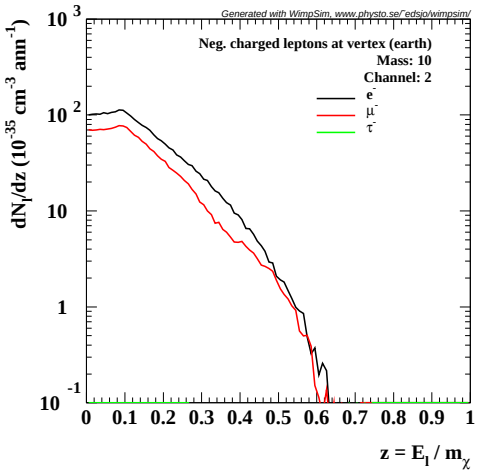


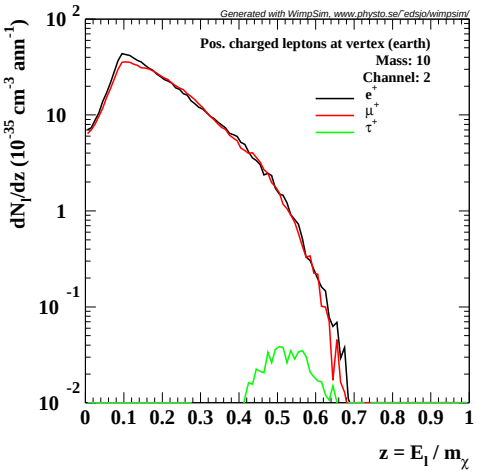
1.2.4 Neutrino fluxes at detector (Earth)



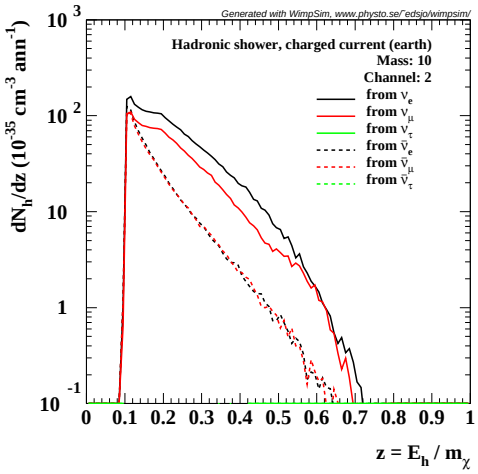


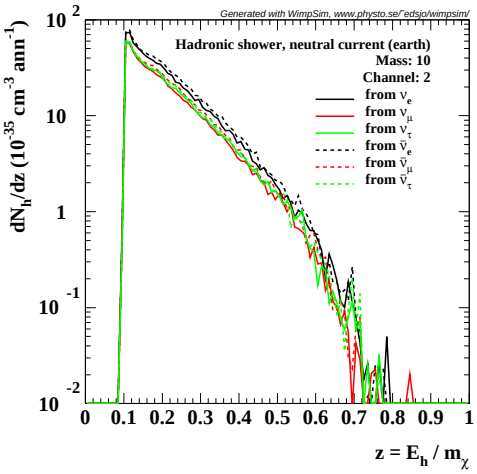
1.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



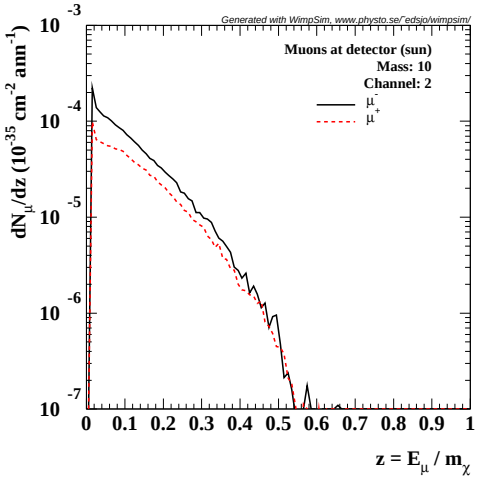


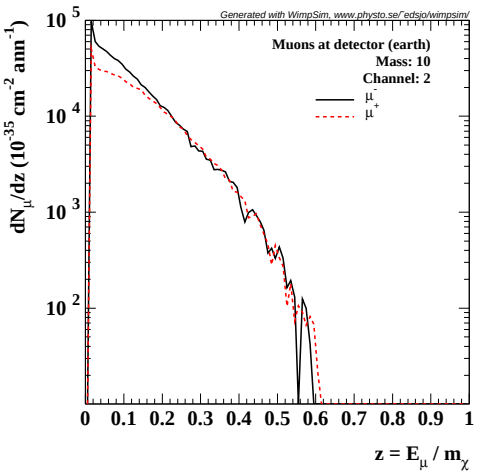
1.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





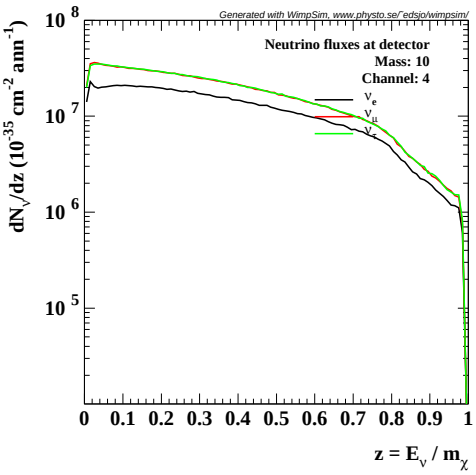
1.2.7 Muons at detector (Sun/Earth)

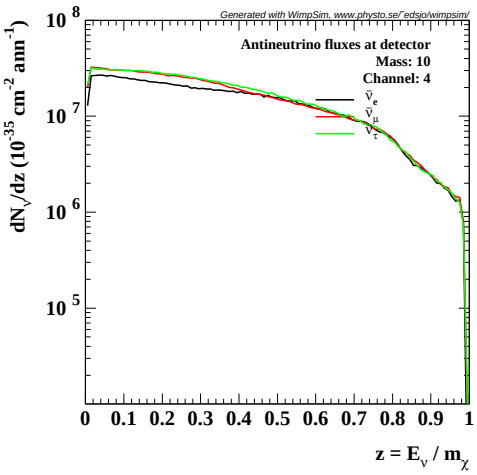




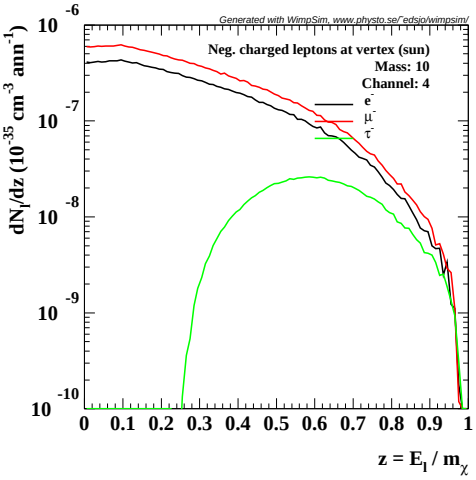
1.3 Channel 4 – $\tau^-\tau^+$

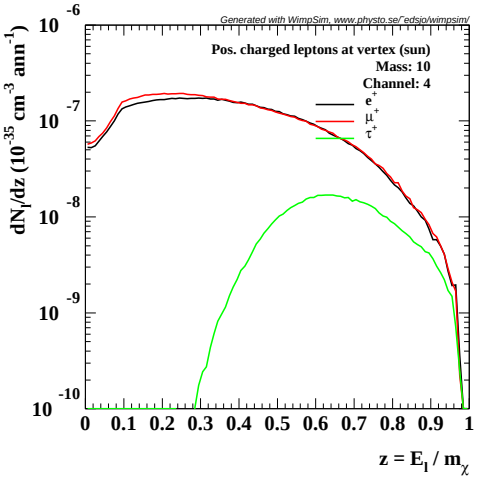
1.3.1 Neutrino fluxes at detector (Sun)



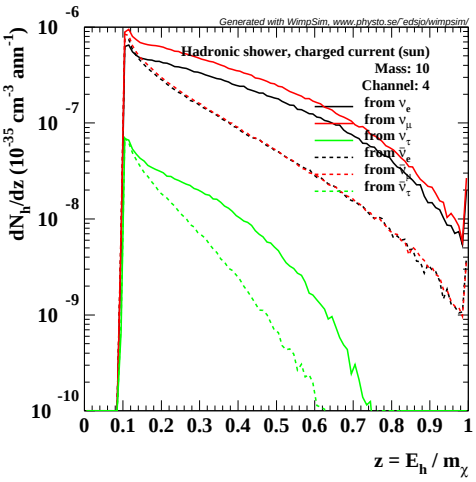


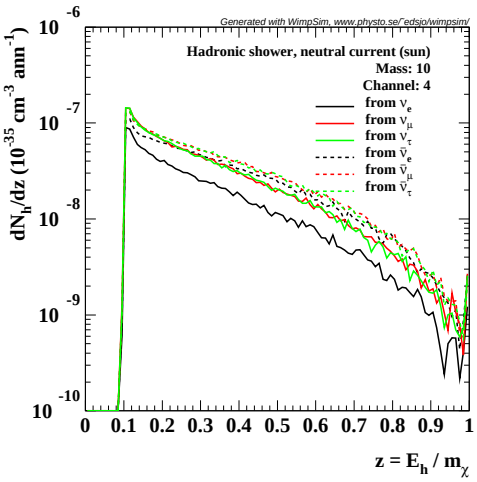
1.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



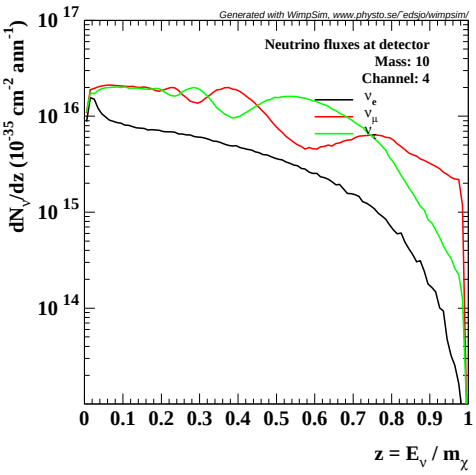


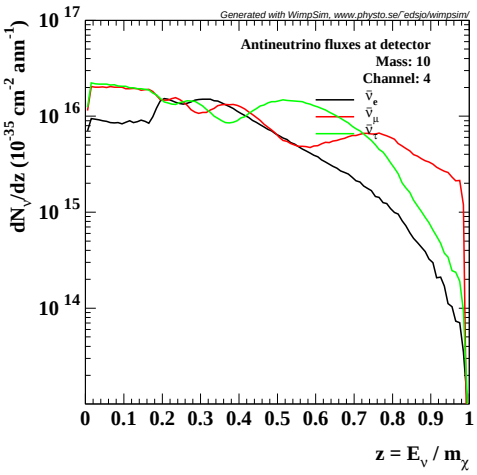
1.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



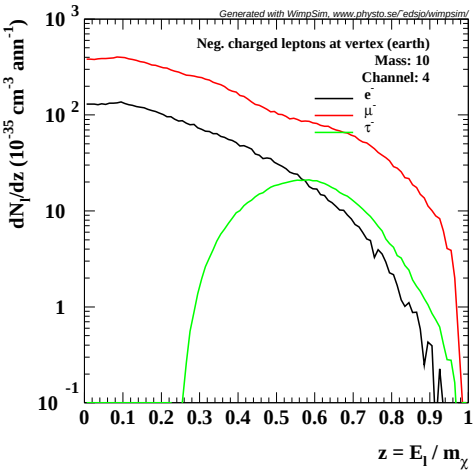


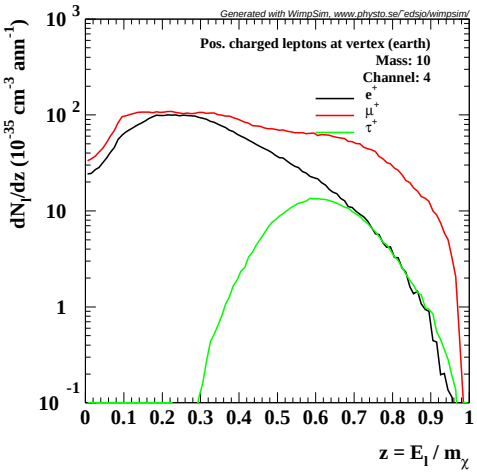
1.3.4 Neutrino fluxes at detector (Earth)



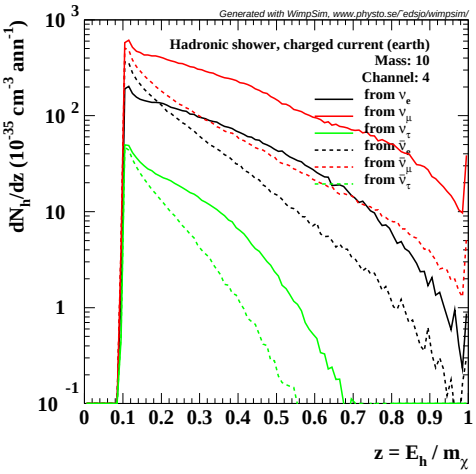


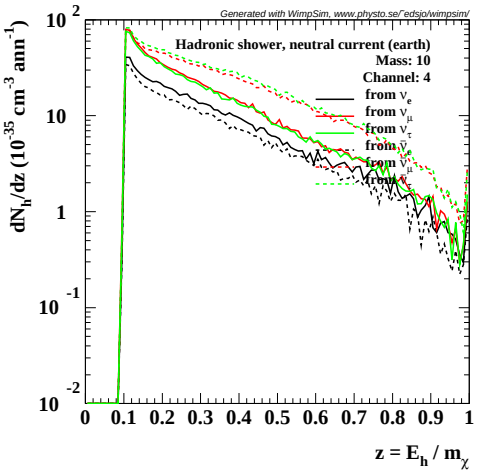
1.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



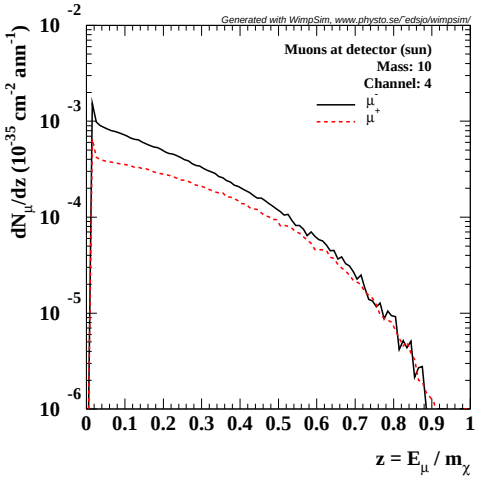


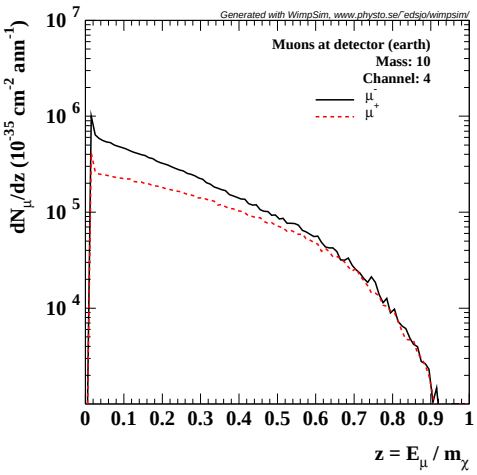
1.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





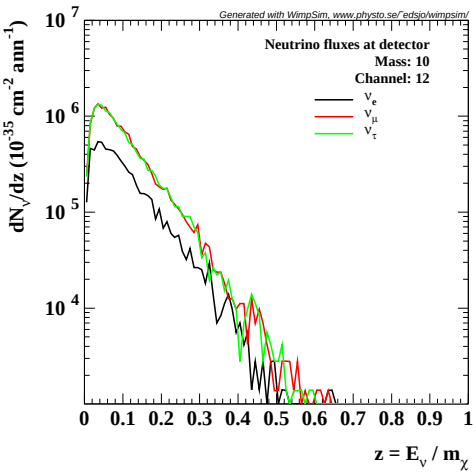
1.3.7 Muons at detector (Sun/Earth)

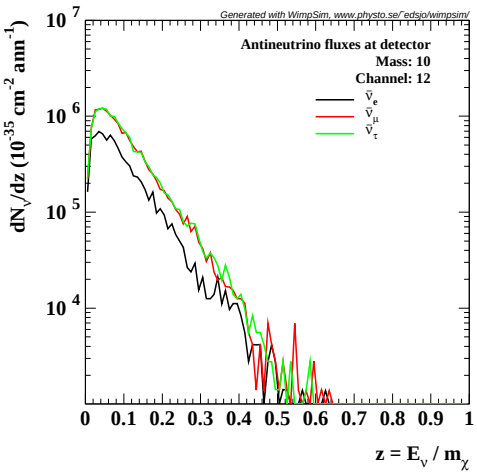




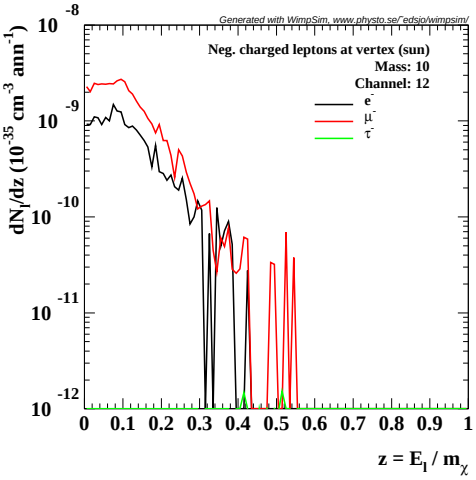
1.4 Channel 12 – gg

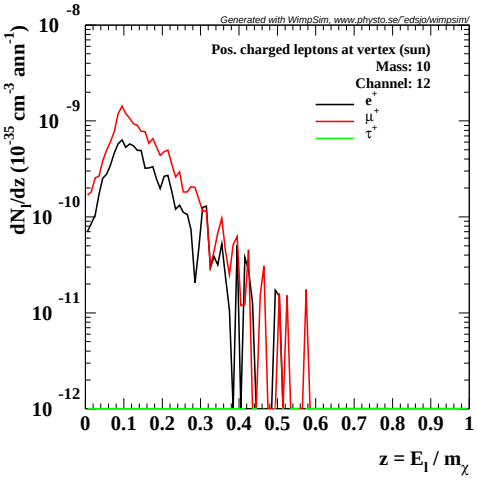
1.4.1 Neutrino fluxes at detector (Sun)



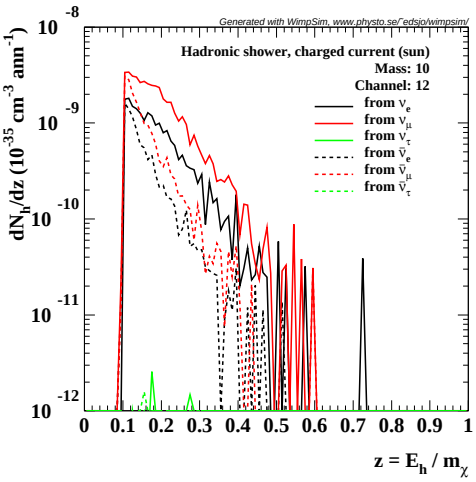


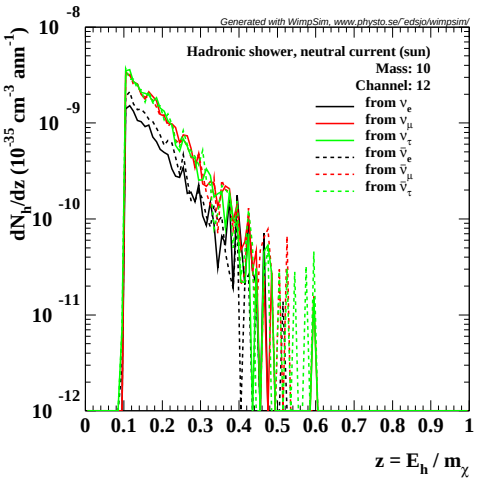
1.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



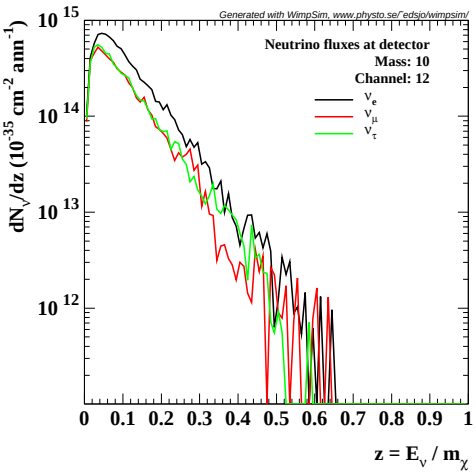


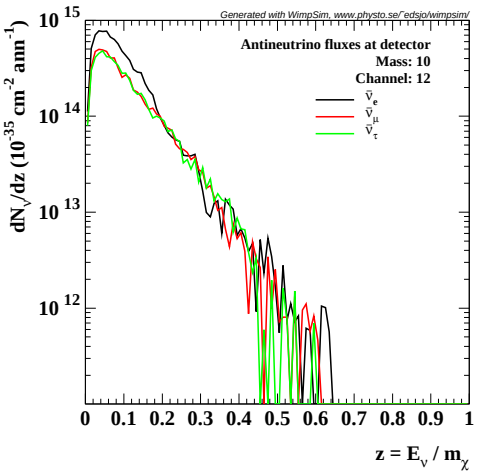
1.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



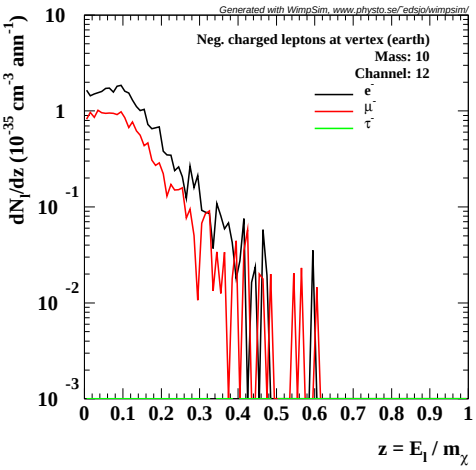


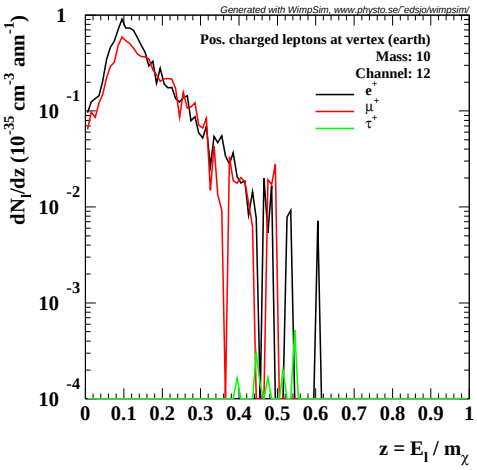
1.4.4 Neutrino fluxes at detector (Earth)



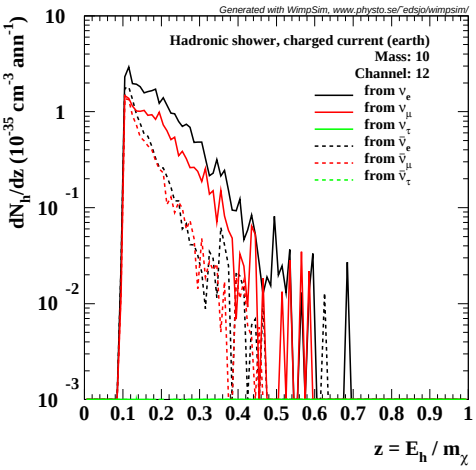


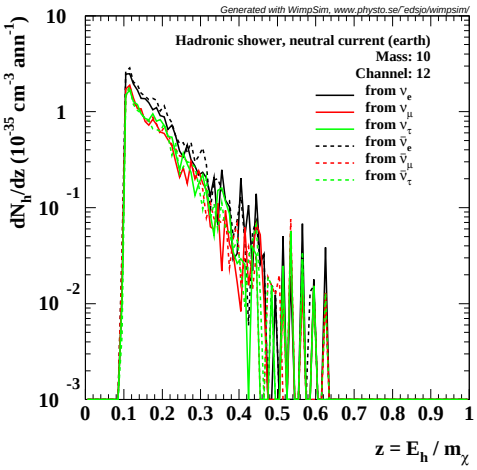
1.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



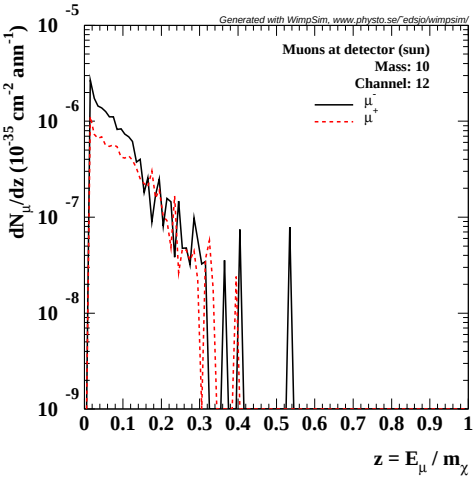


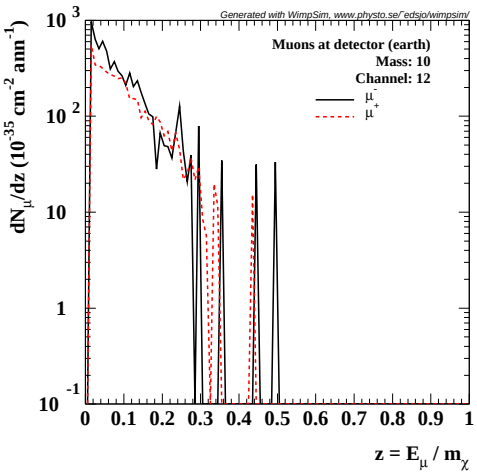
1.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





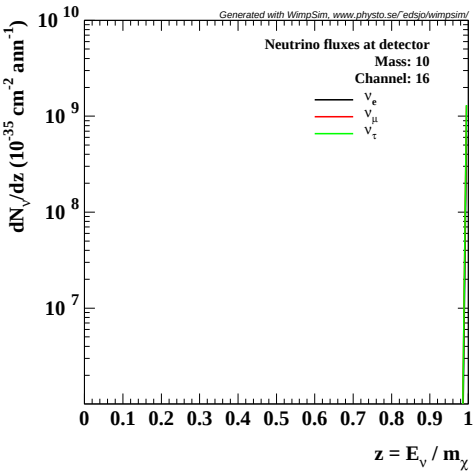
1.4.7 Muons at detector (Sun/Earth)

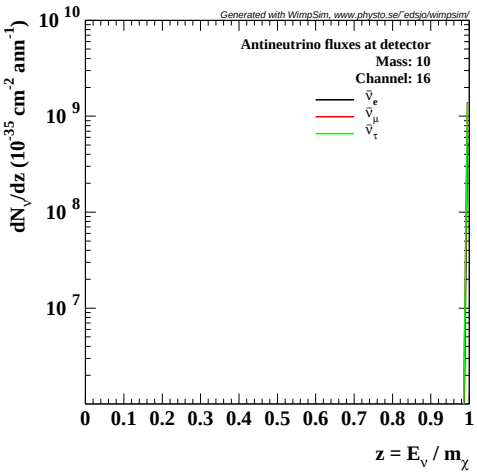




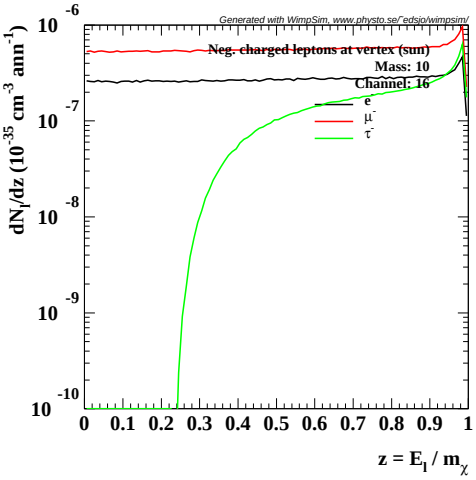
1.5 Channel 16 – $\nu_e\bar{\nu}_e$

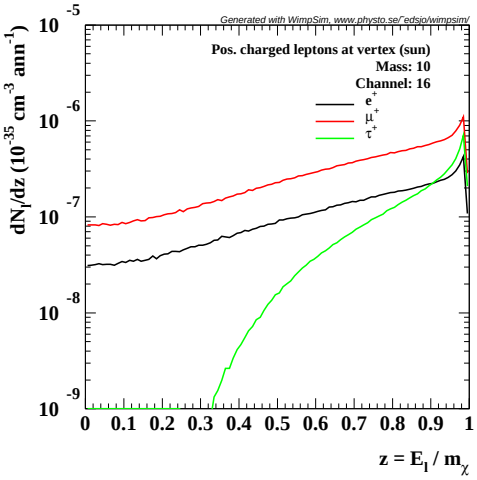
1.5.1 Neutrino fluxes at detector (Sun)



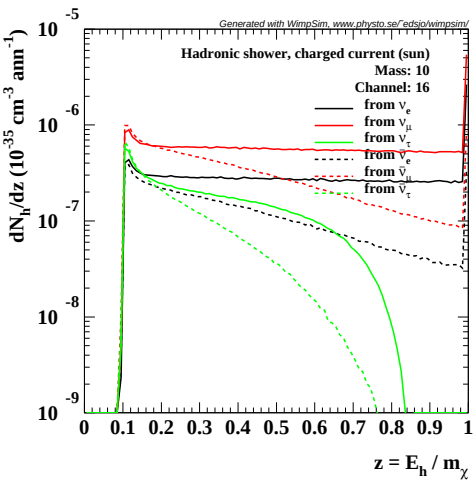


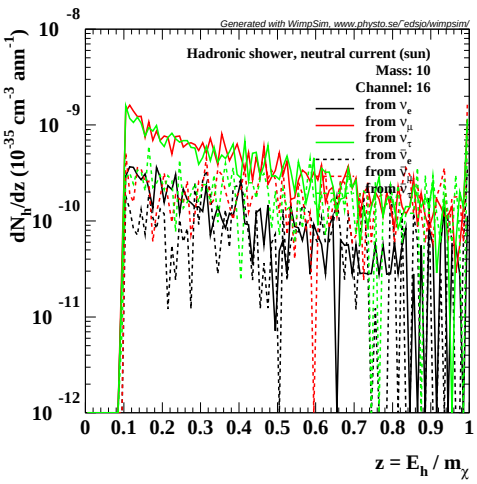
1.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



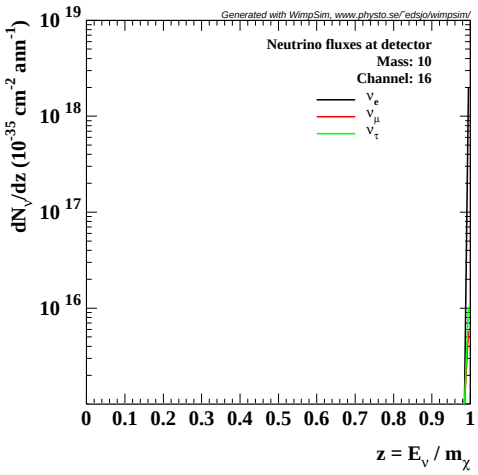


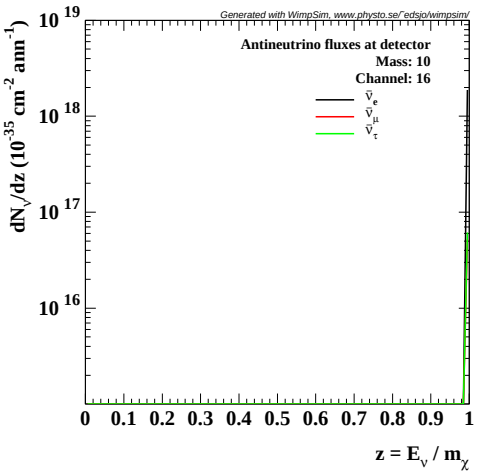
1.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



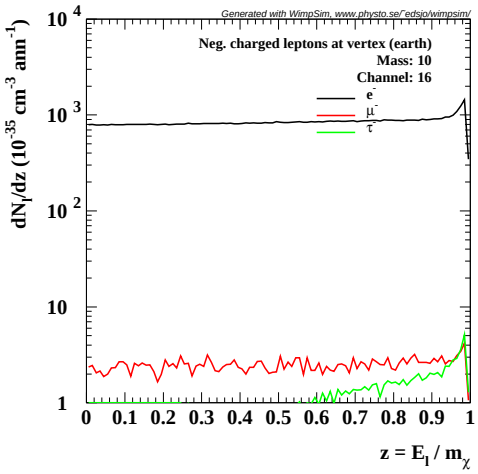


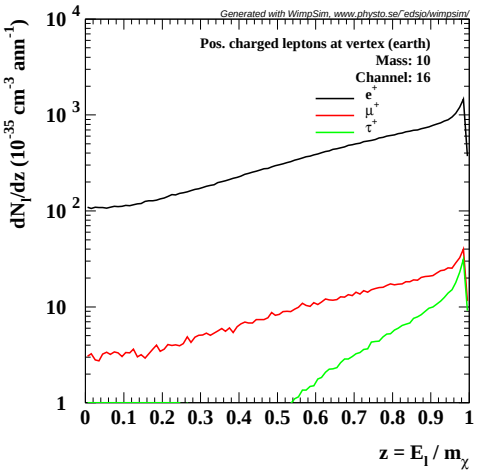
1.5.4 Neutrino fluxes at detector (Earth)



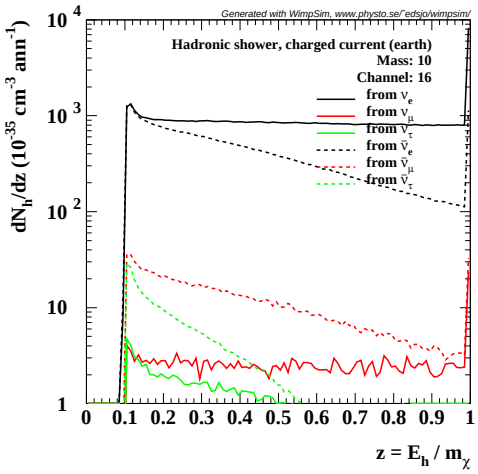


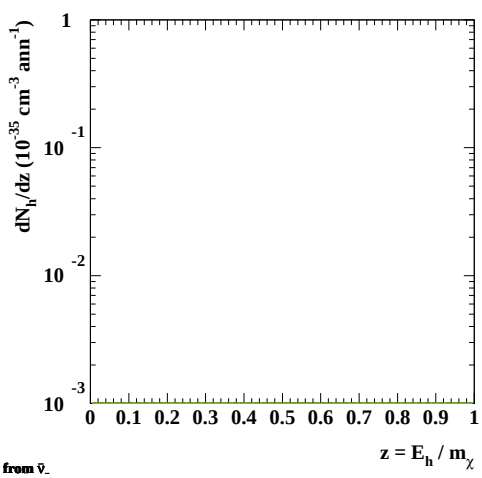
1.5.5 Charged leptons at neutrino-nucleon vertex (Earth)





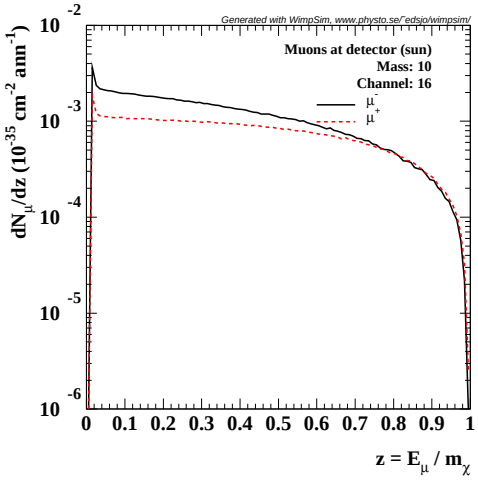
1.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)

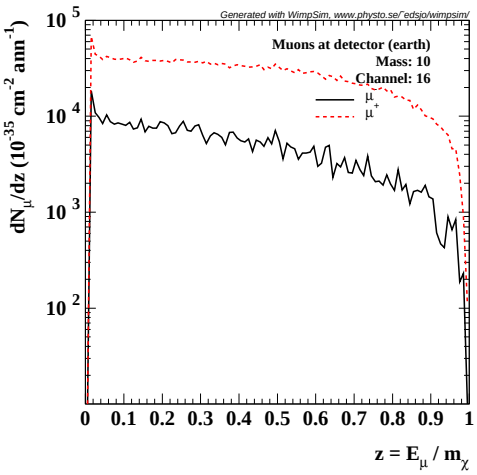




from $\bar{\nu}_\tau$

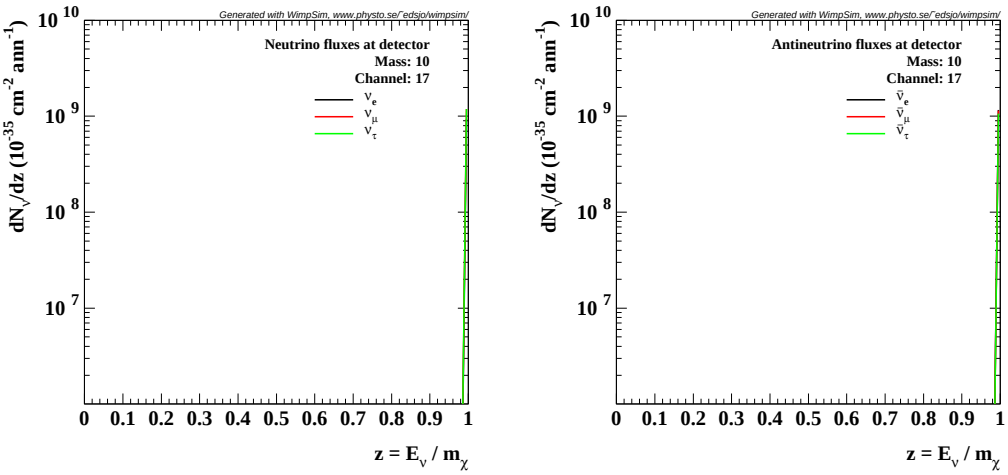
1.5.7 Muons at detector (Sun/Earth)



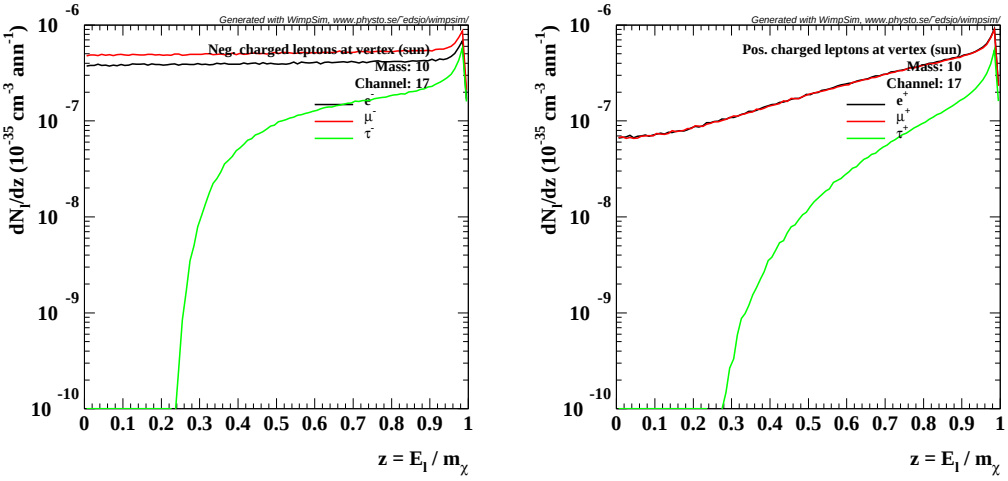


1.6 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

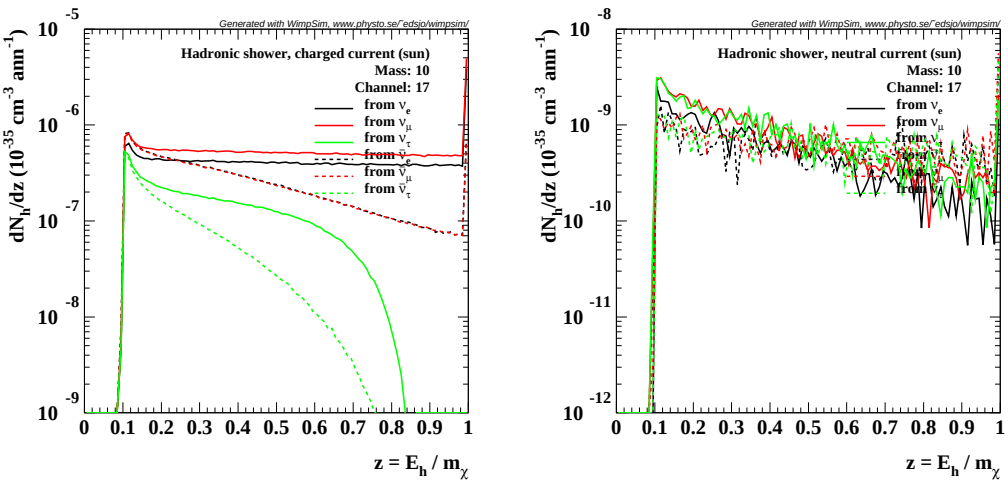
1.6.1 Neutrino fluxes at detector (Sun)



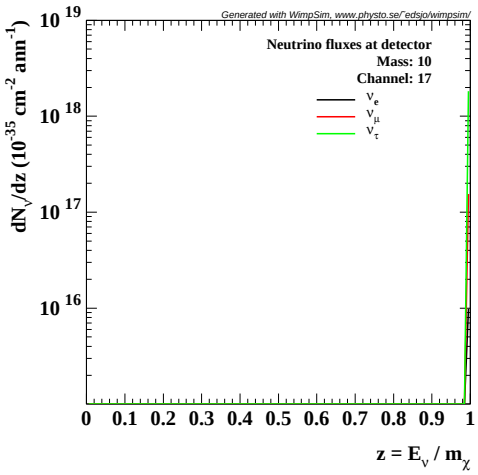
1.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

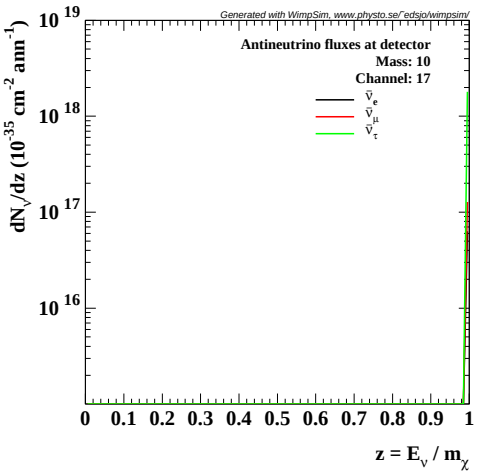


1.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

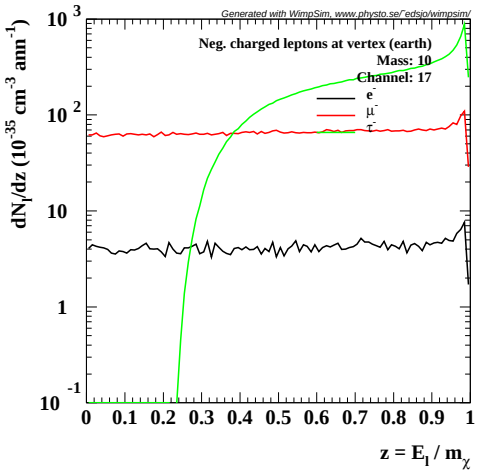


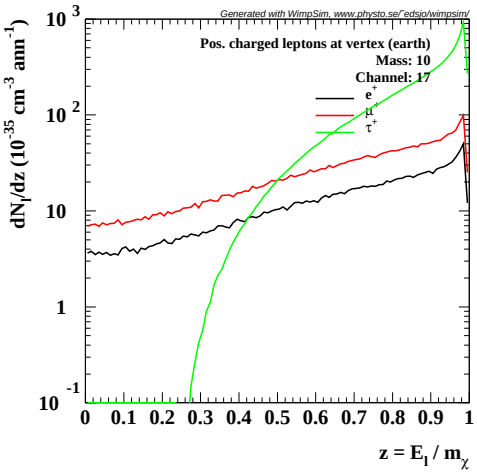
1.6.4 Neutrino fluxes at detector (Earth)



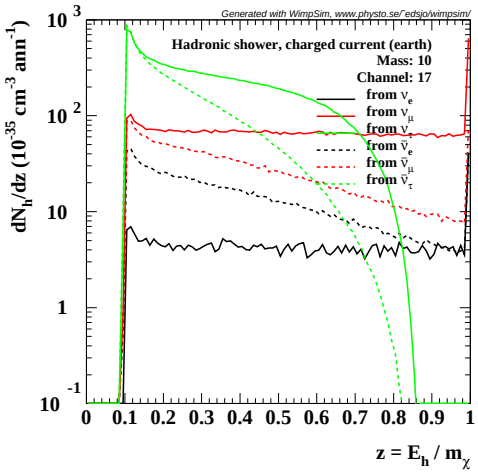


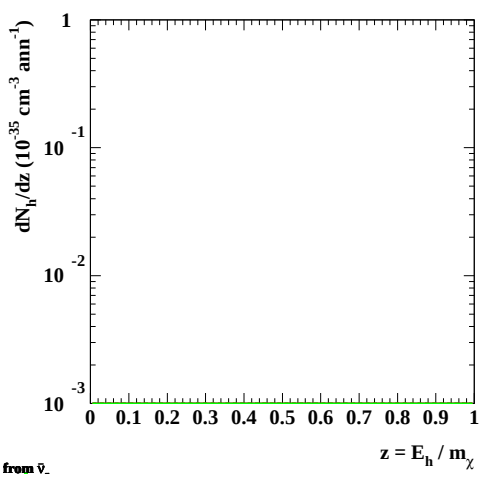
1.6.5 Charged leptons at neutrino-nucleon vertex (Earth)





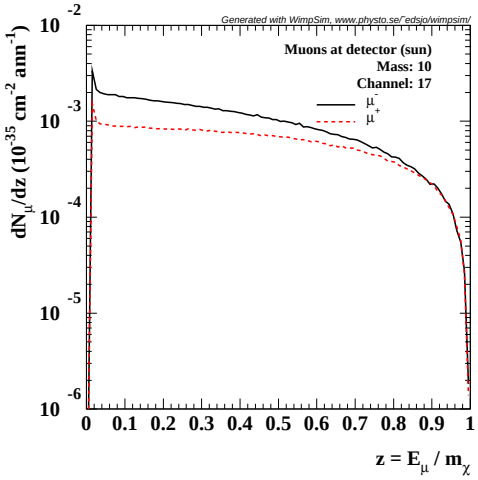
1.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)

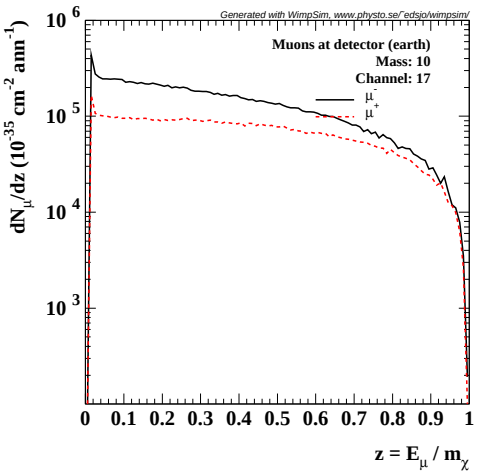




from $\bar{\nu}_\tau$

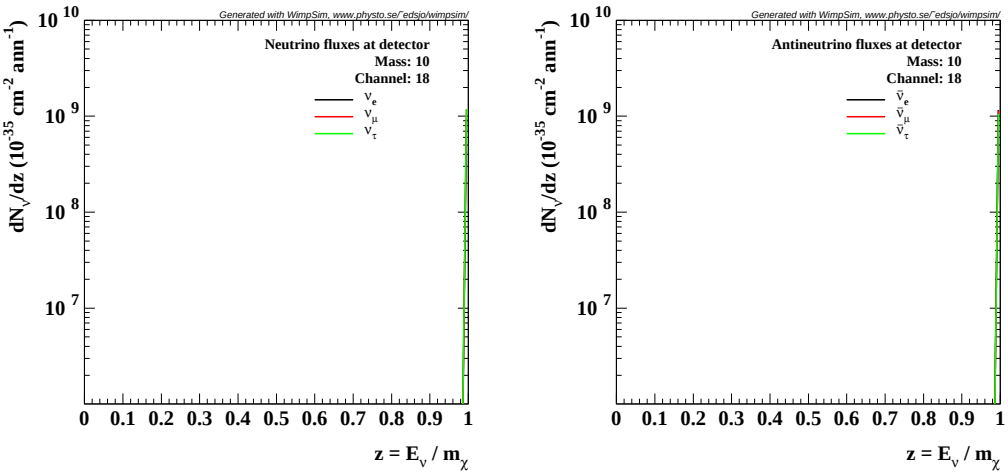
1.6.7 Muons at detector (Sun/Earth)



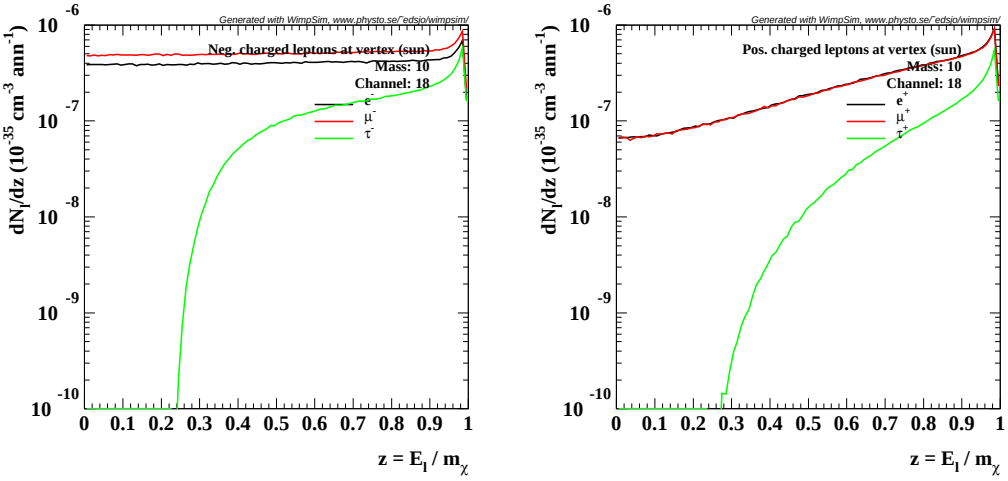


1.7 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

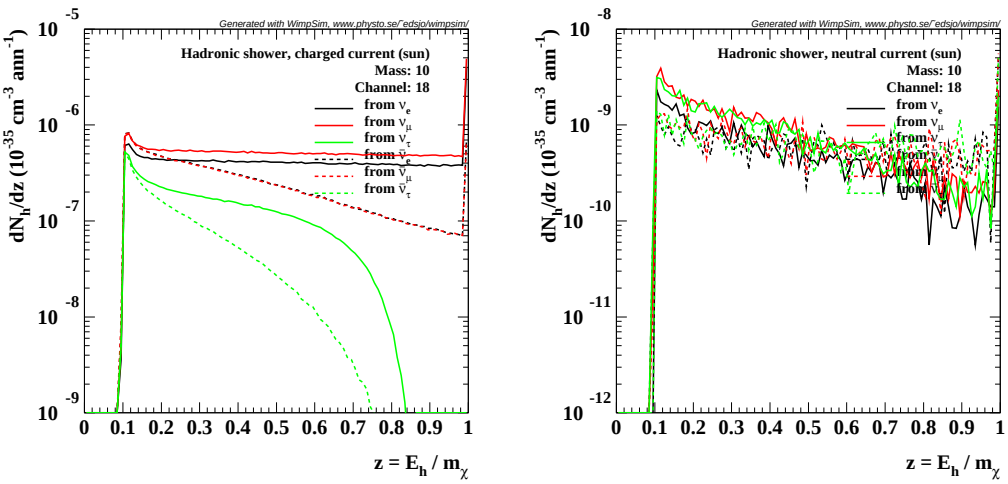
1.7.1 Neutrino fluxes at detector (Sun)



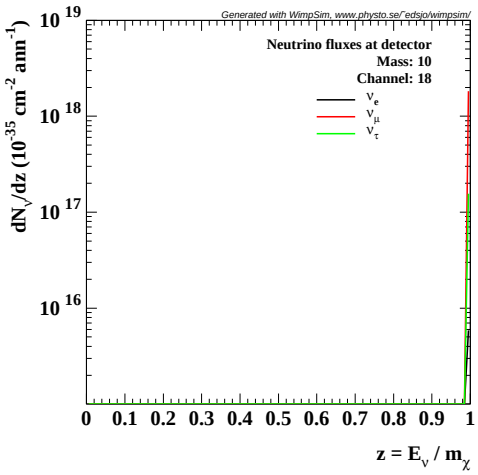
1.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

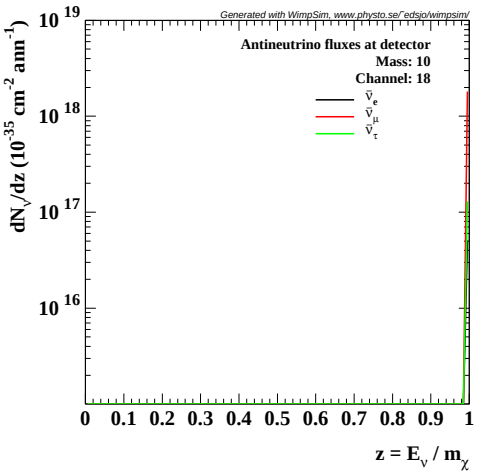


1.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

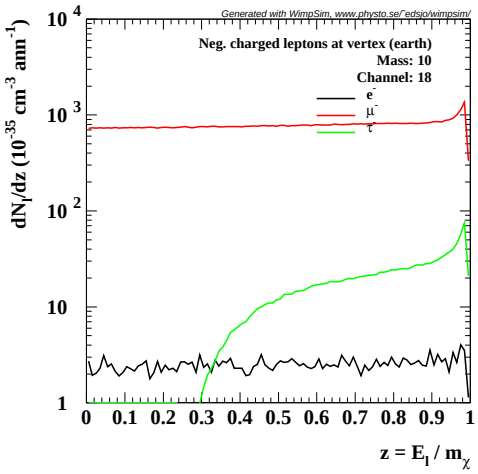


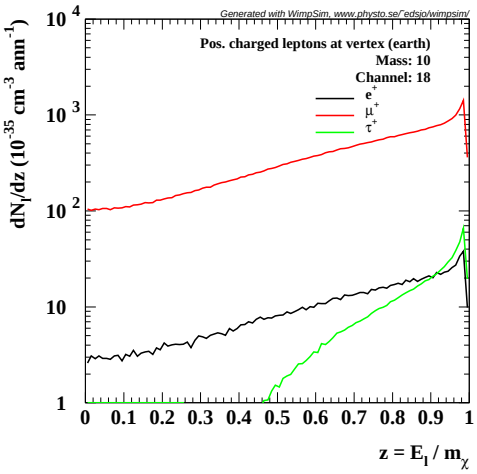
1.7.4 Neutrino fluxes at detector (Earth)



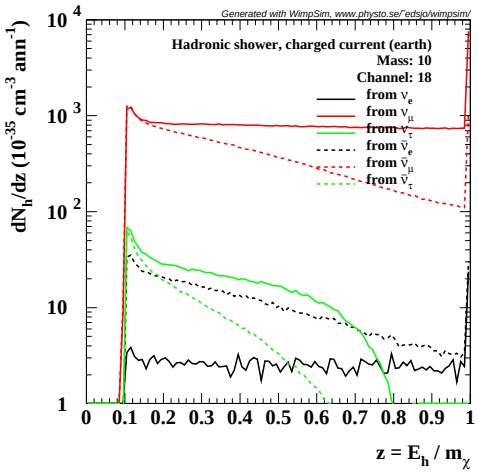


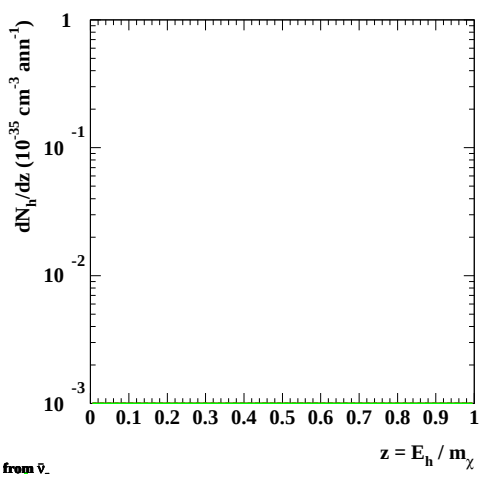
1.7.5 Charged leptons at neutrino-nucleon vertex (Earth)





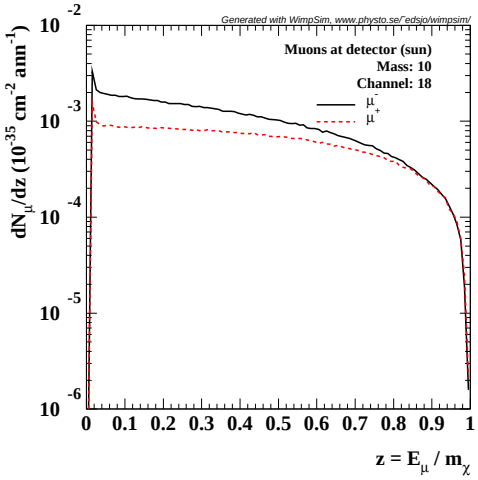
1.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)

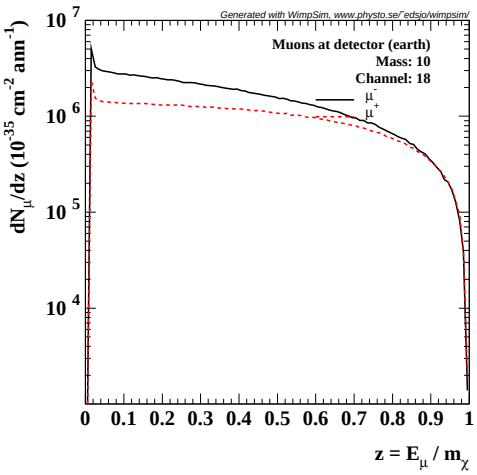




from $\bar{\nu}_\tau$

1.7.7 Muons at detector (Sun/Earth)

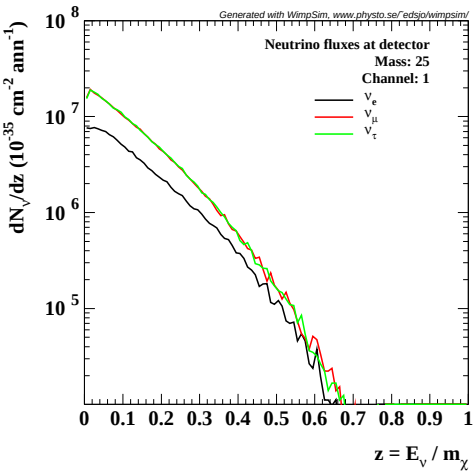


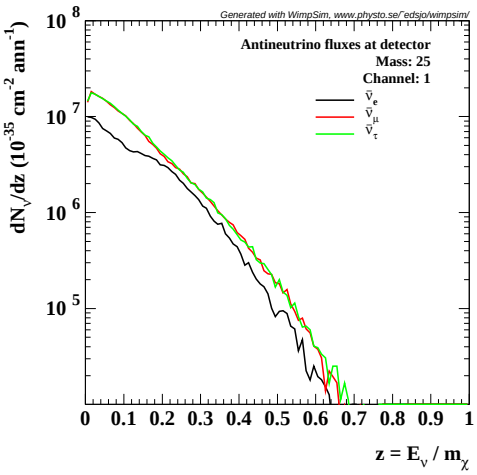


2 Mass 25

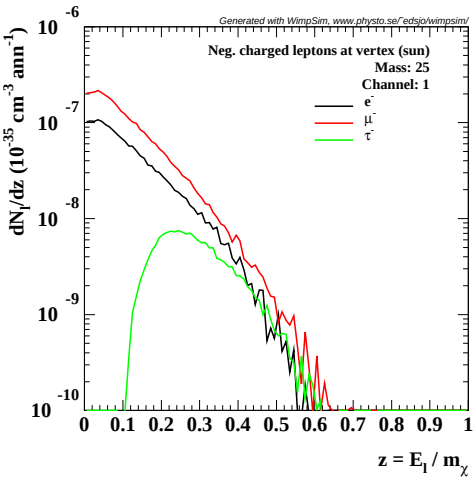
2.1 Channel 1 – $c\bar{c}$

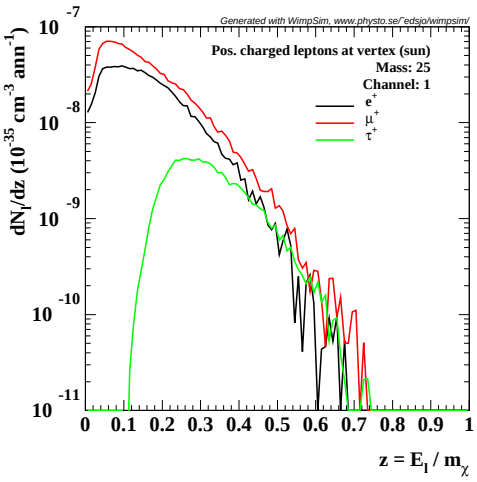
2.1.1 Neutrino fluxes at detector (Sun)



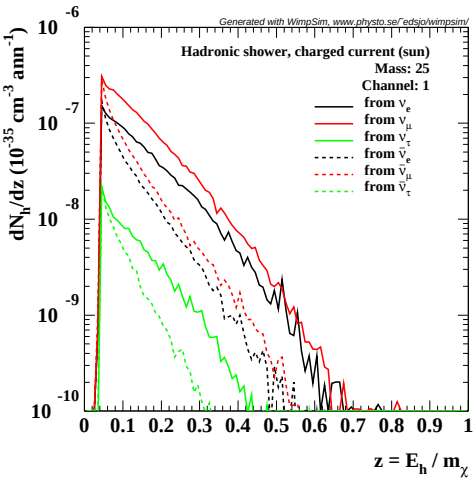


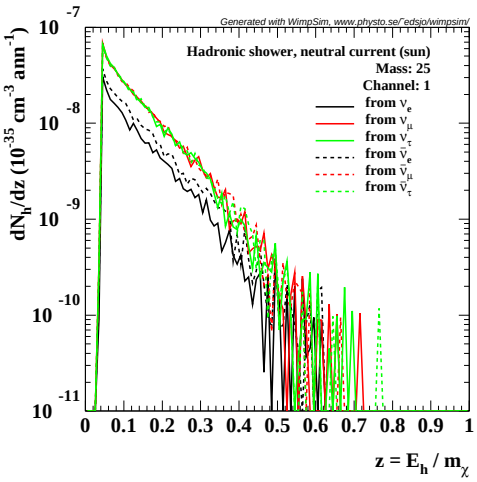
2.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



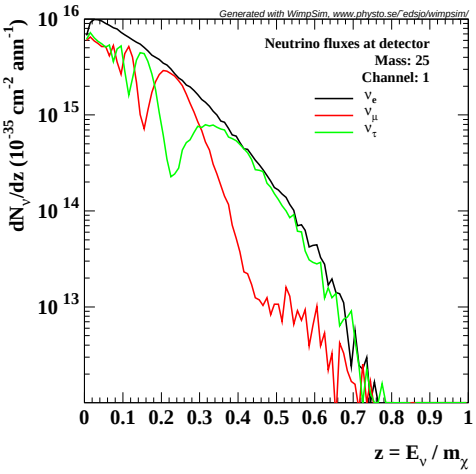


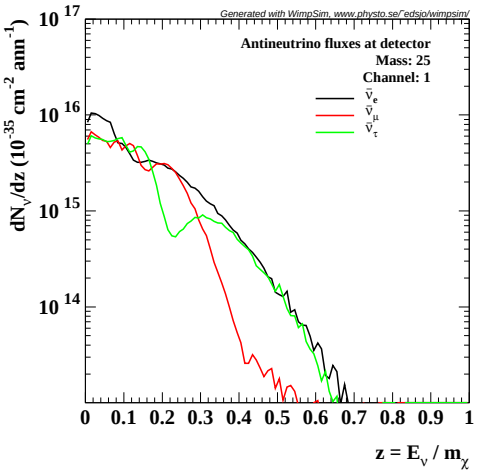
2.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



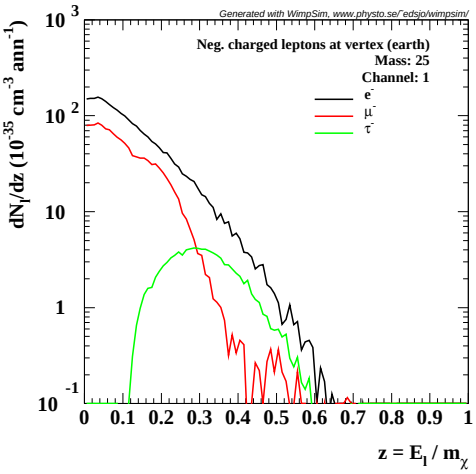


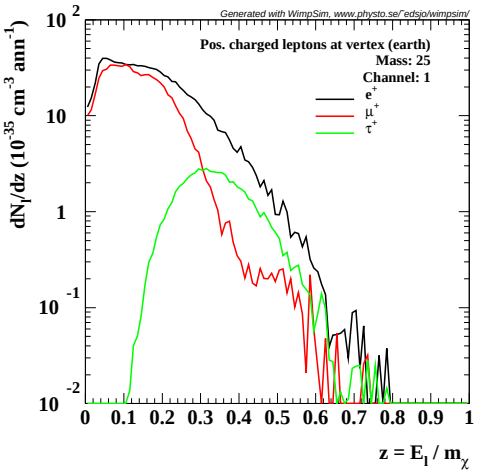
2.1.4 Neutrino fluxes at detector (Earth)



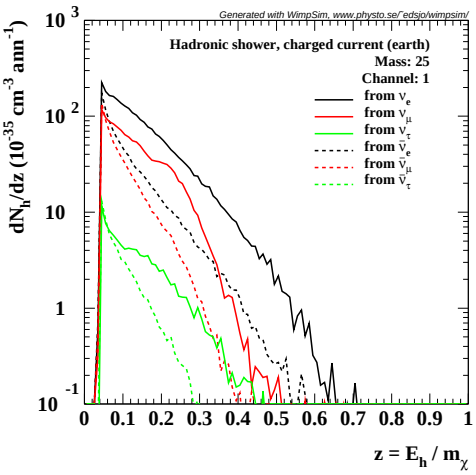


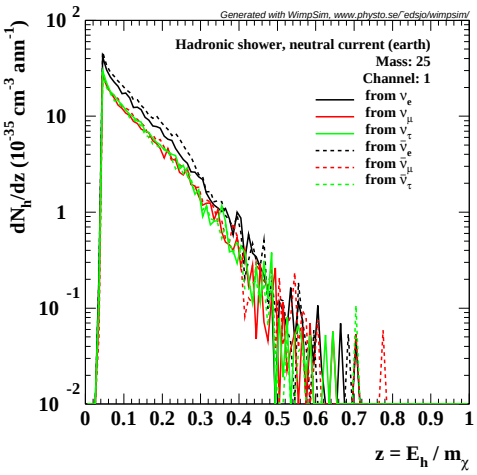
2.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



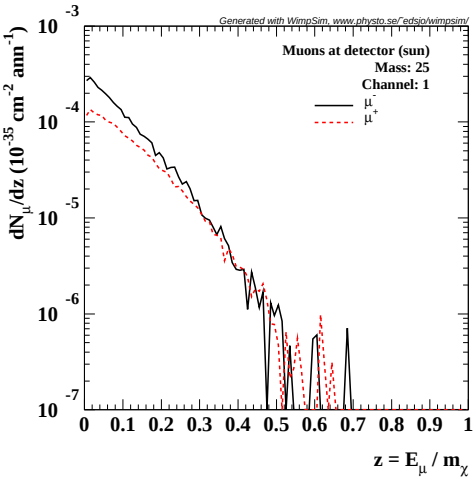


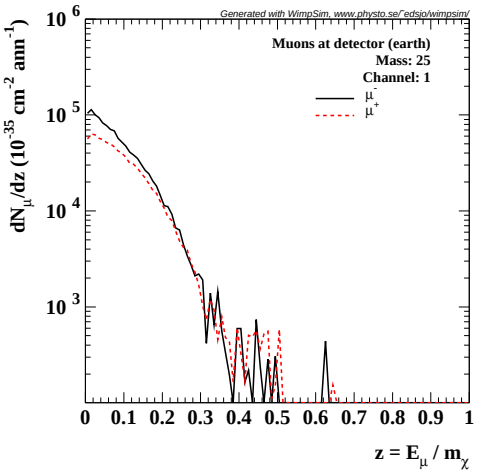
2.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





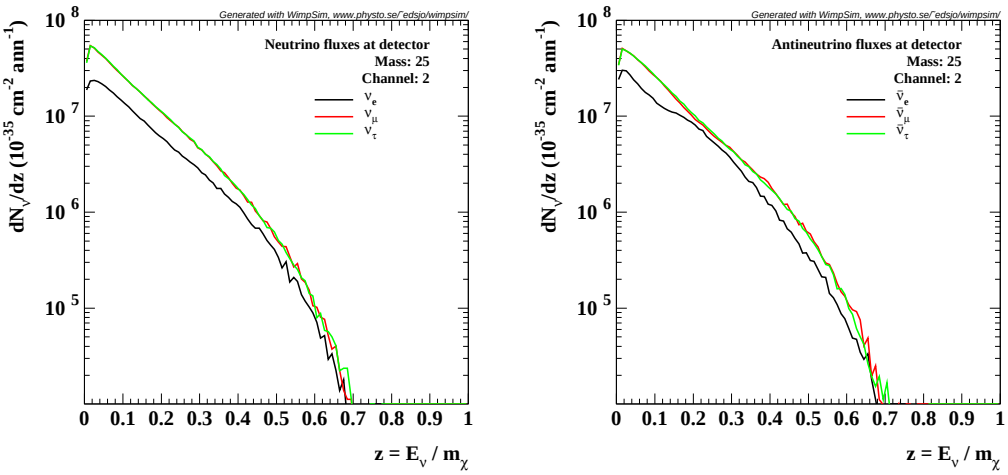
2.1.7 Muons at detector (Sun/Earth)



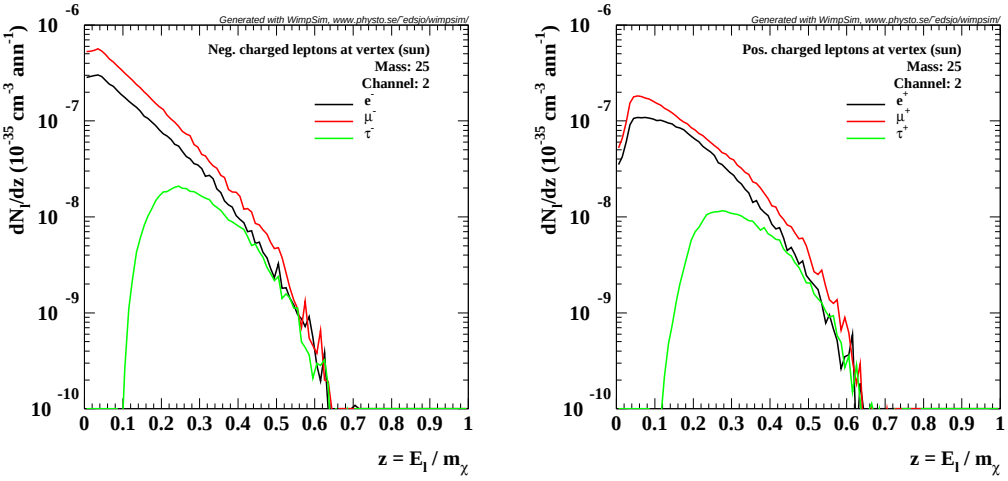


2.2 Channel 2 – $b\bar{b}$

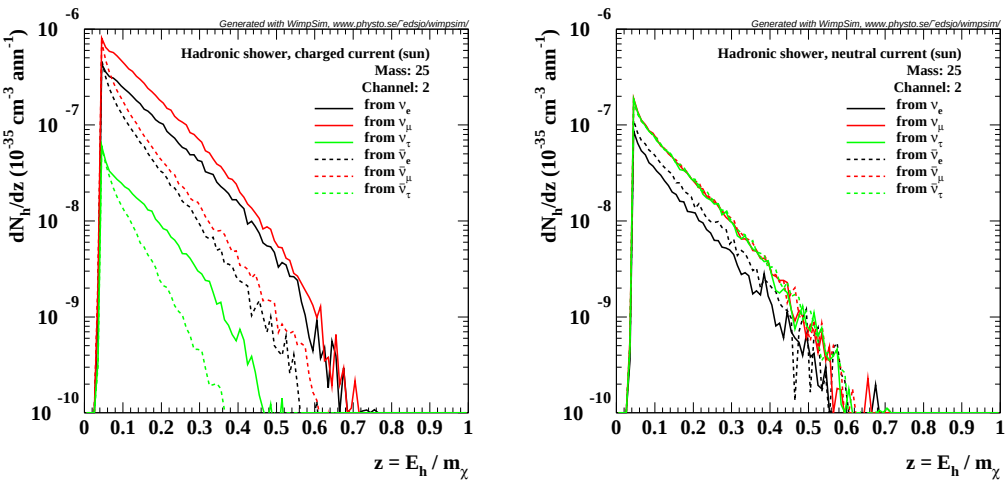
2.2.1 Neutrino fluxes at detector (Sun)



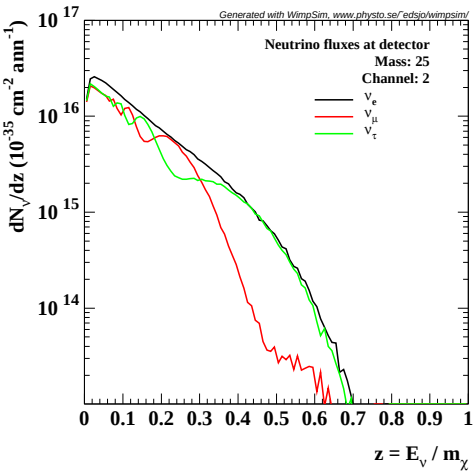
2.2.2 Charged leptons at neutrino-nucleon vertex (Sun)

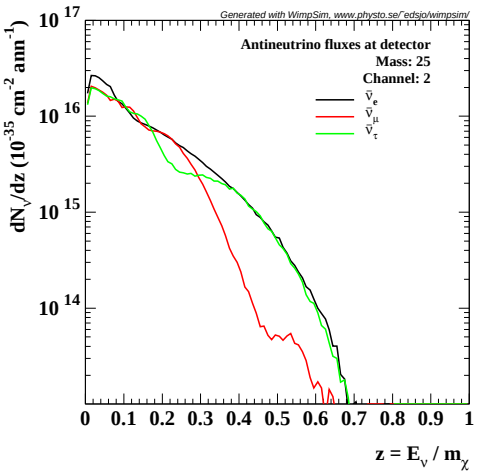


2.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)

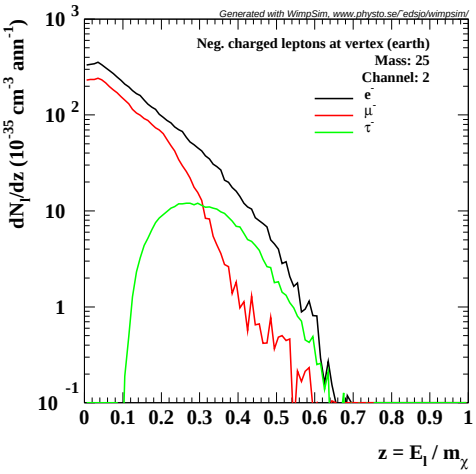


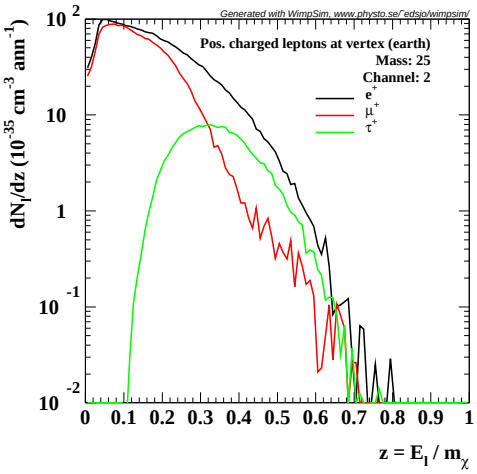
2.2.4 Neutrino fluxes at detector (Earth)



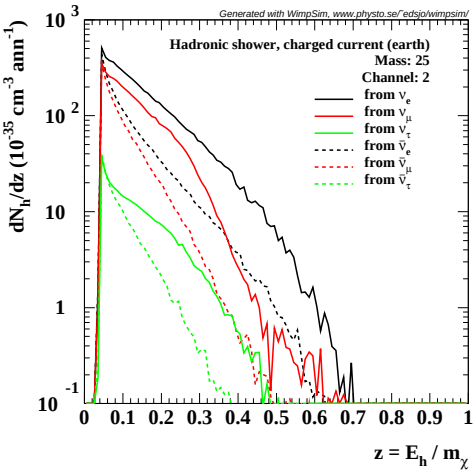


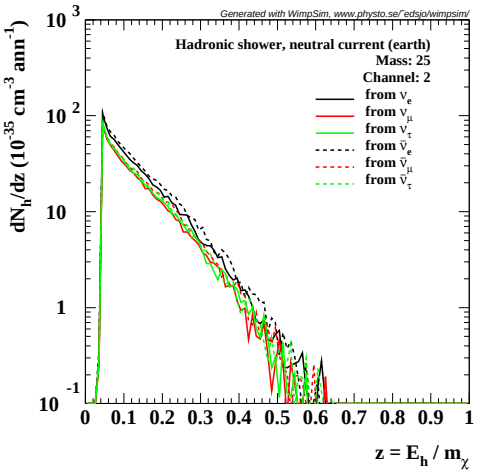
2.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



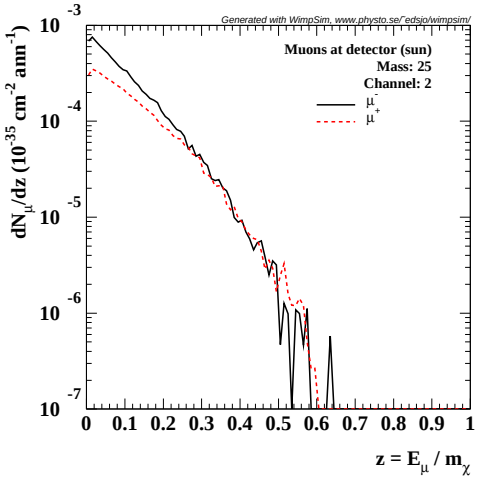


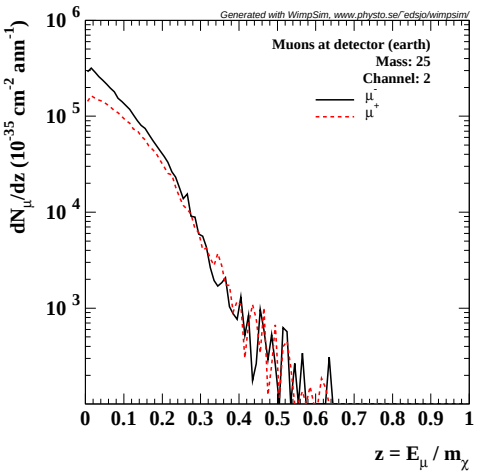
2.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





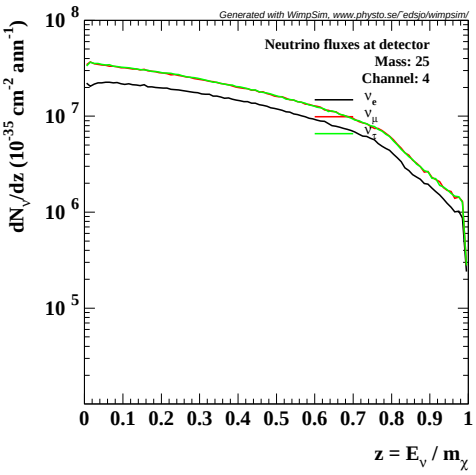
2.2.7 Muons at detector (Sun/Earth)

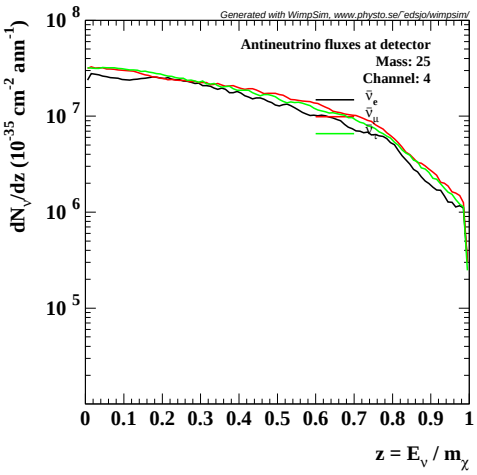




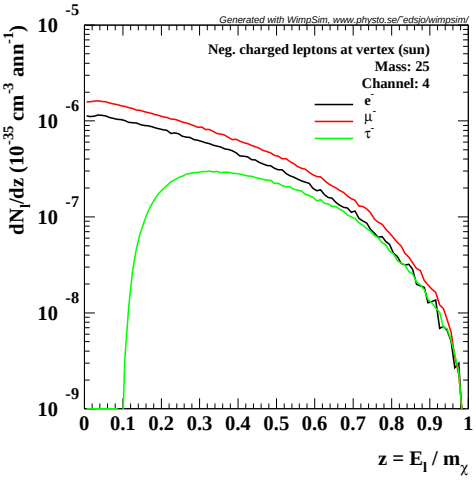
2.3 Channel 4 – $\tau^-\tau^+$

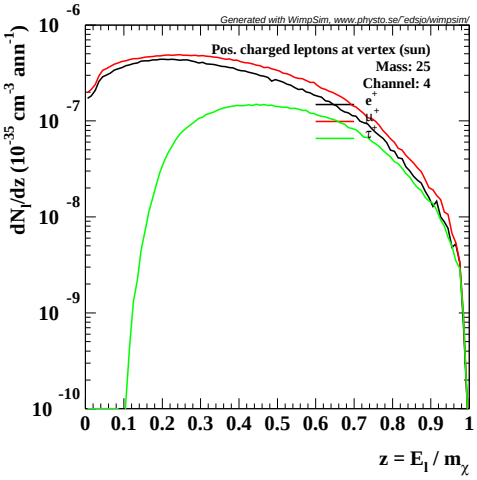
2.3.1 Neutrino fluxes at detector (Sun)



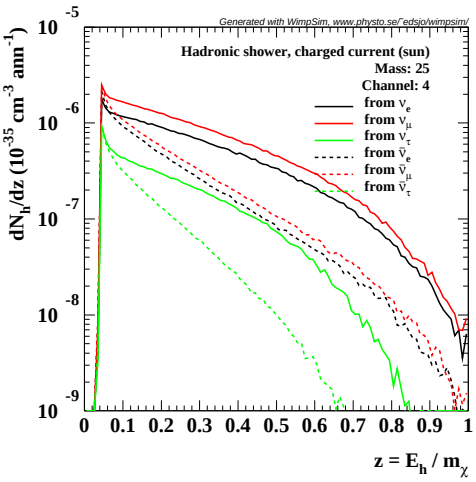


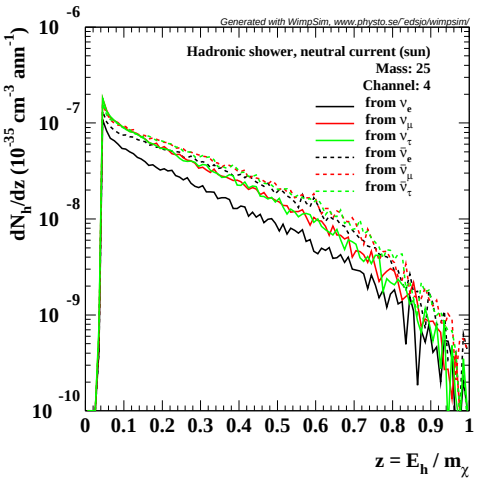
2.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



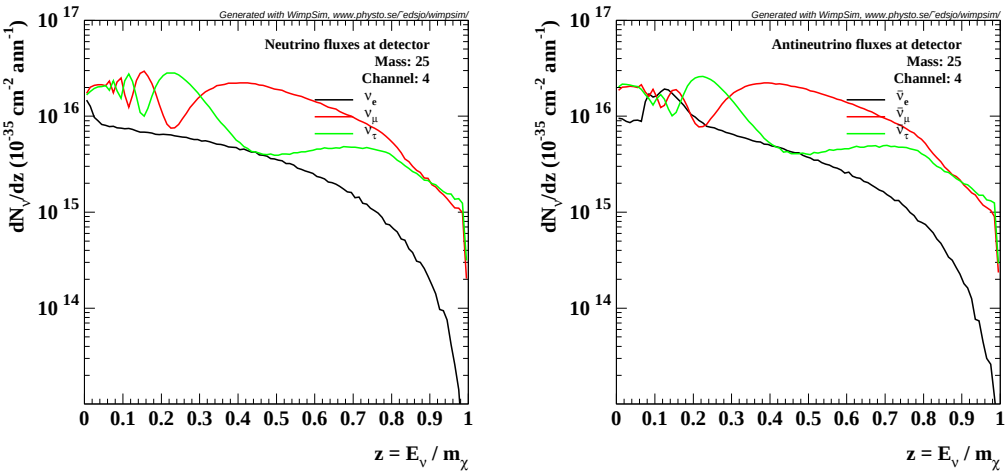


2.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

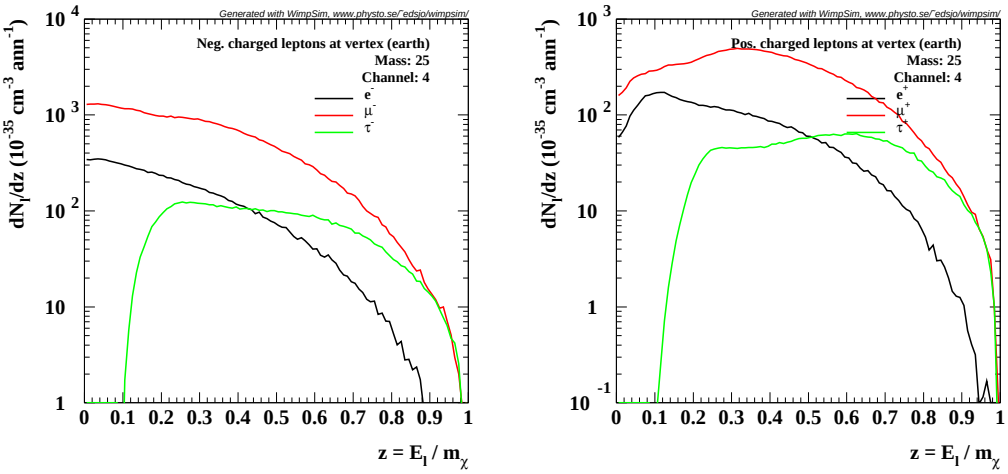




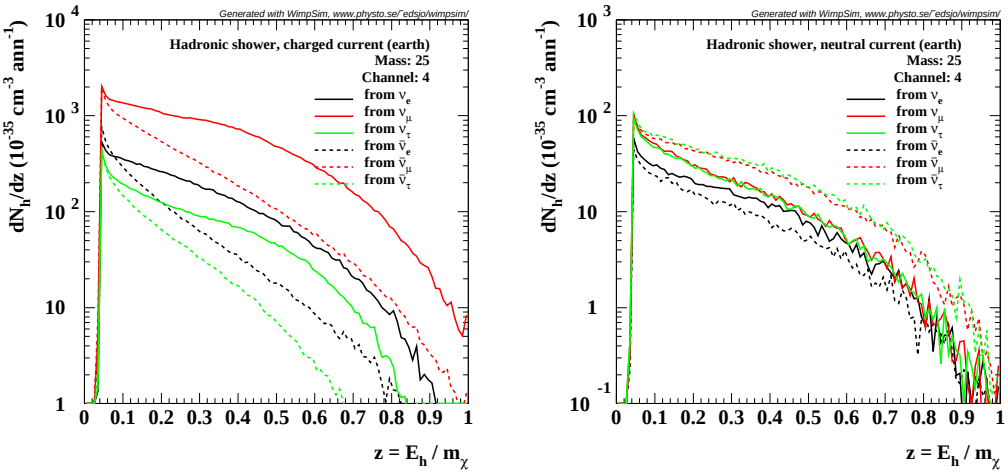
2.3.4 Neutrino fluxes at detector (Earth)



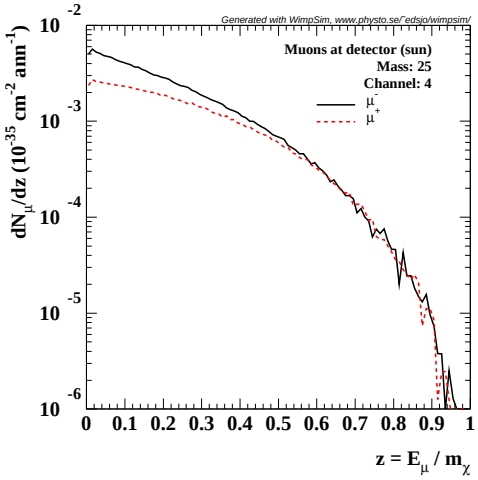
2.3.5 Charged leptons at neutrino-nucleon vertex (Earth)

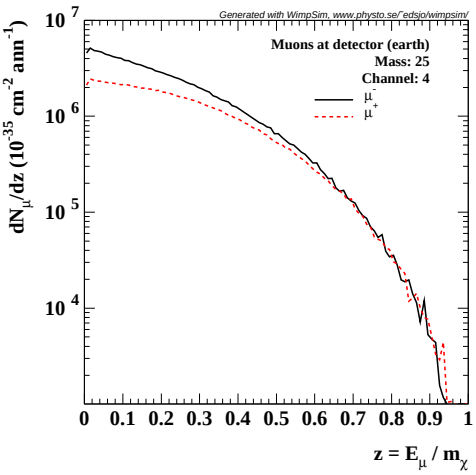


2.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)



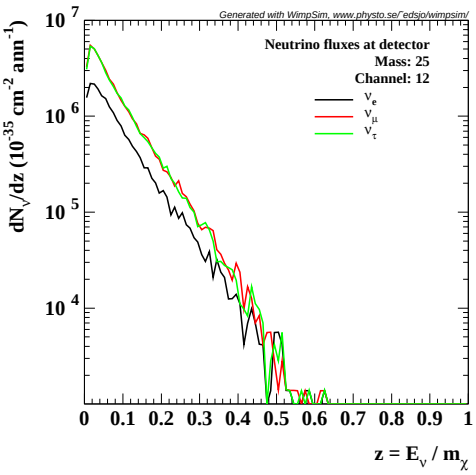
2.3.7 Muons at detector (Sun/Earth)

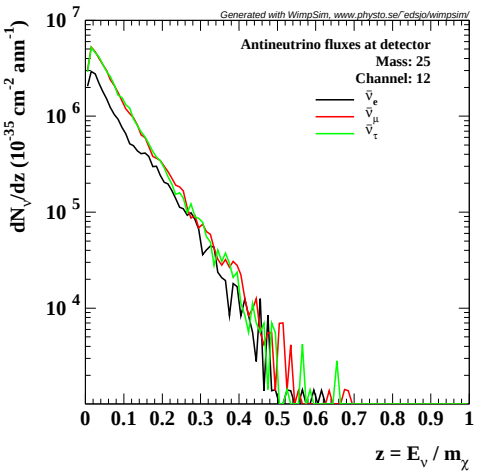




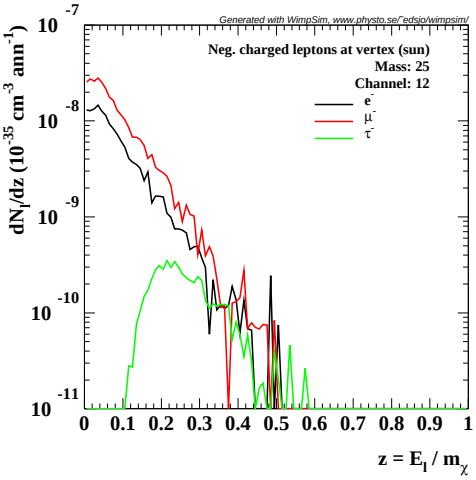
2.4 Channel 12 – gg

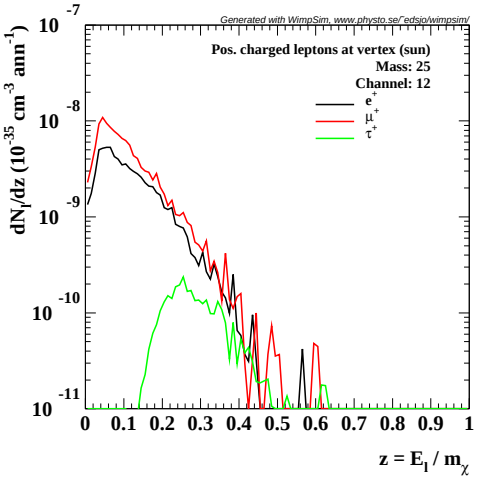
2.4.1 Neutrino fluxes at detector (Sun)



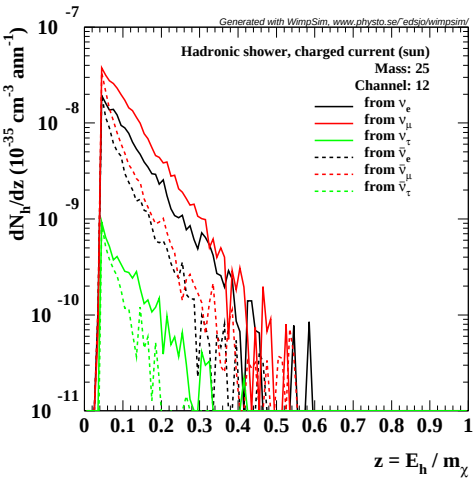


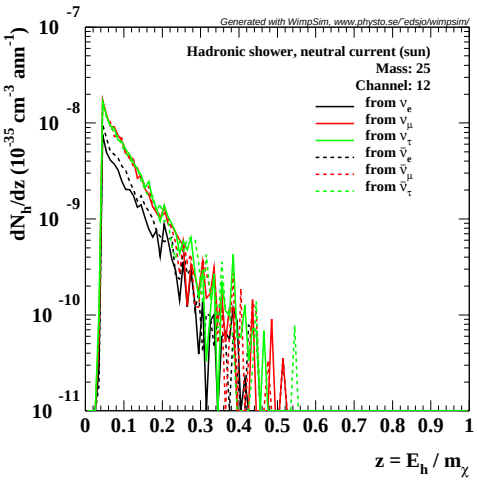
2.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



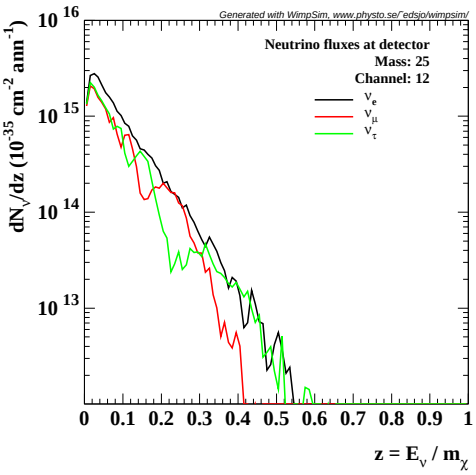


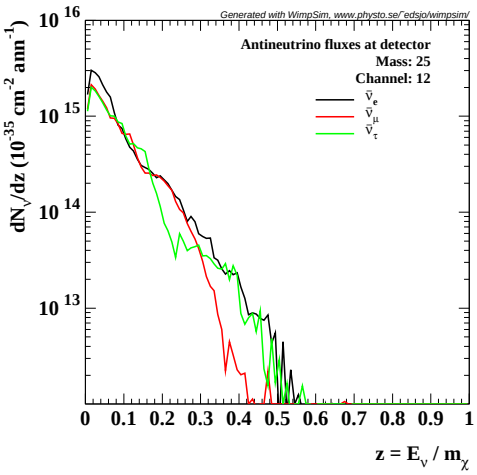
2.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



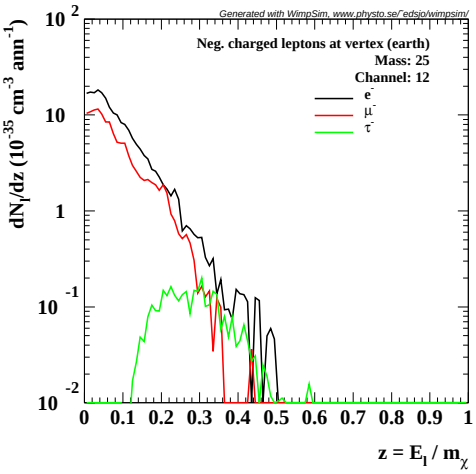


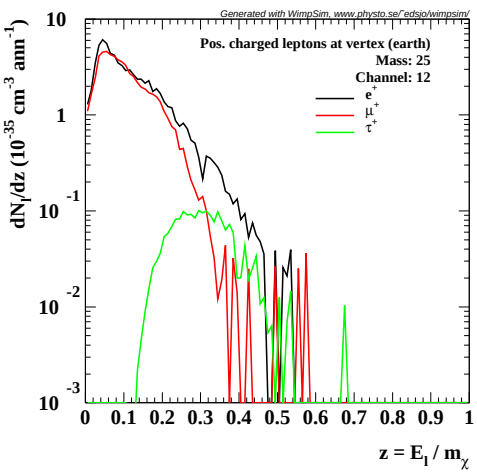
2.4.4 Neutrino fluxes at detector (Earth)



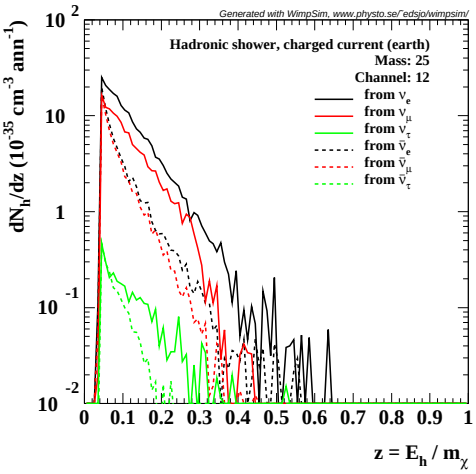


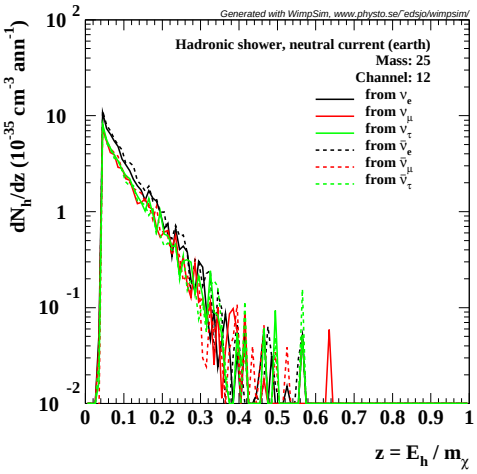
2.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



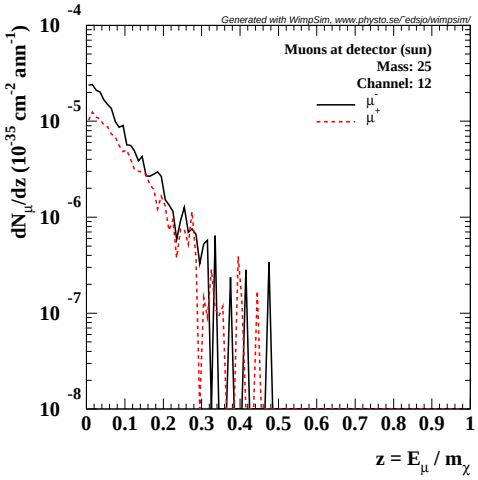


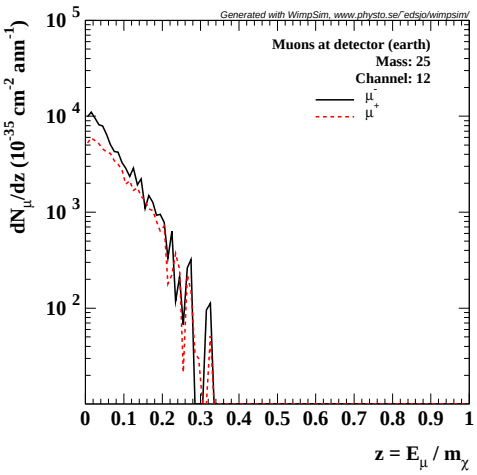
2.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





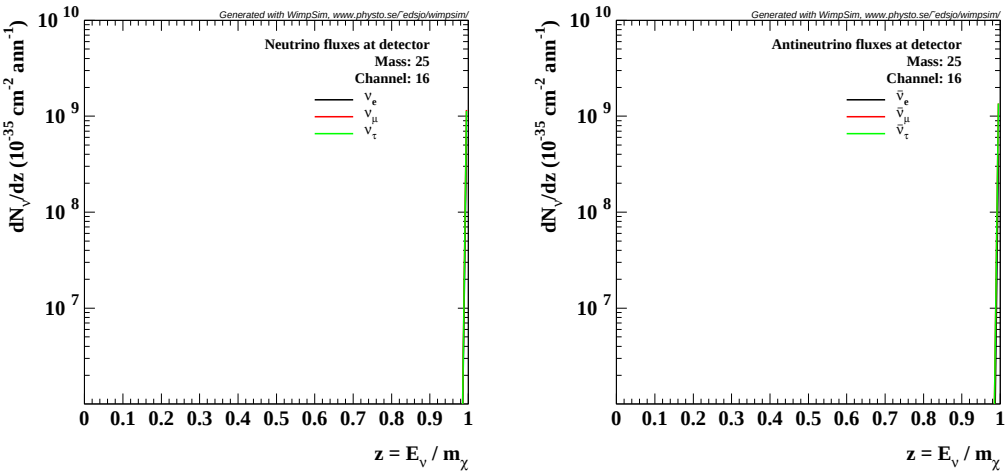
2.4.7 Muons at detector (Sun/Earth)



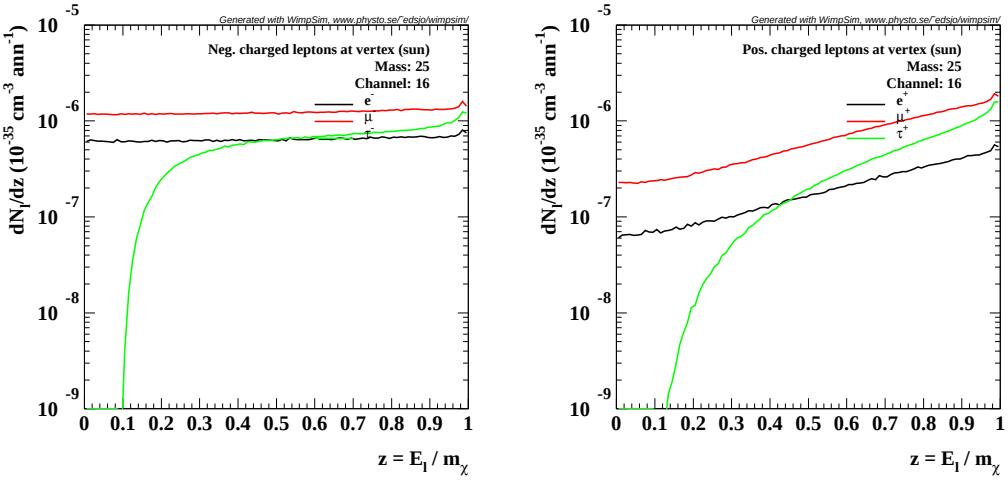


2.5 Channel 16 – $\nu_e\bar{\nu}_e$

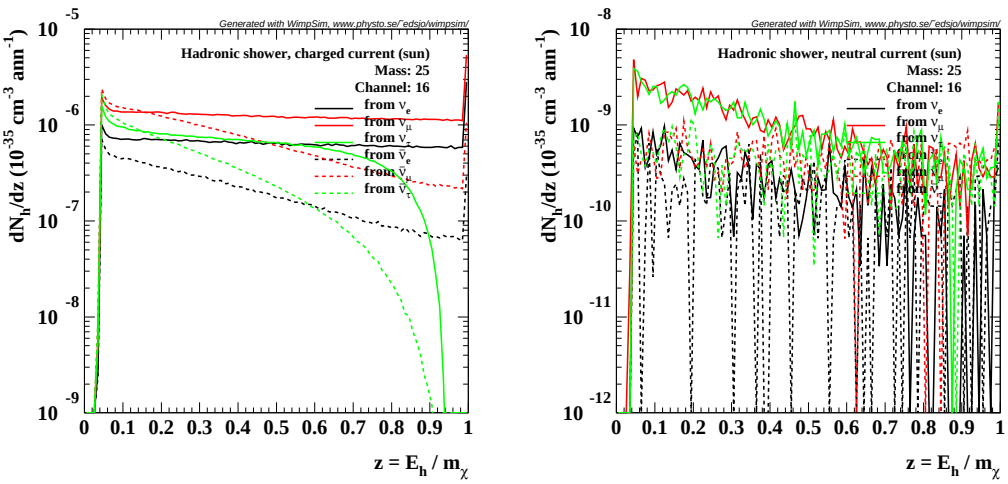
2.5.1 Neutrino fluxes at detector (Sun)



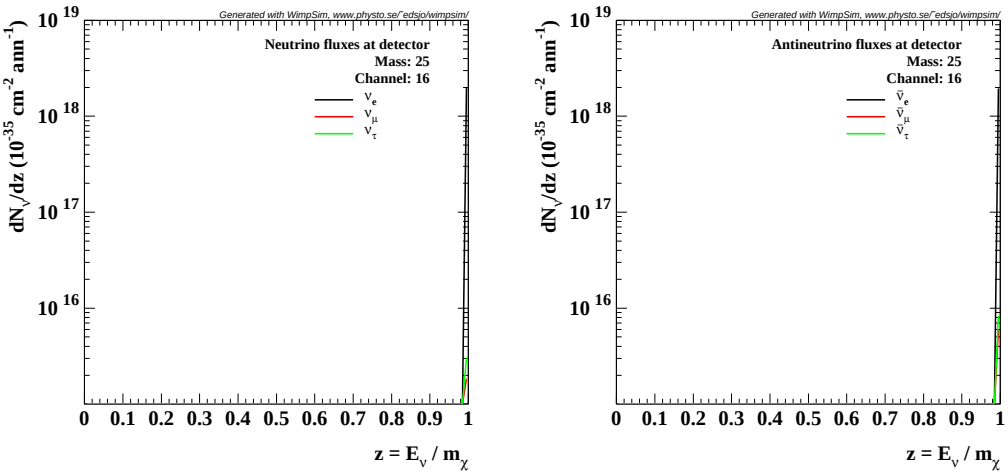
2.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



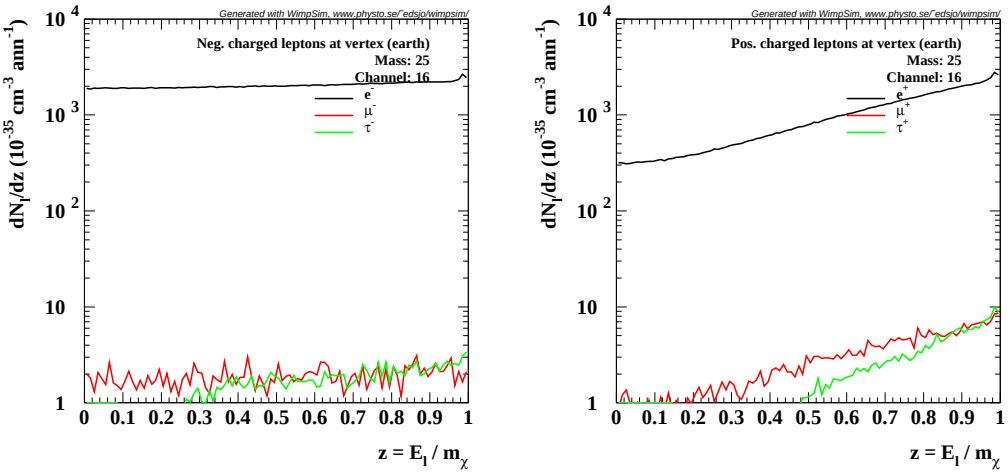
2.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



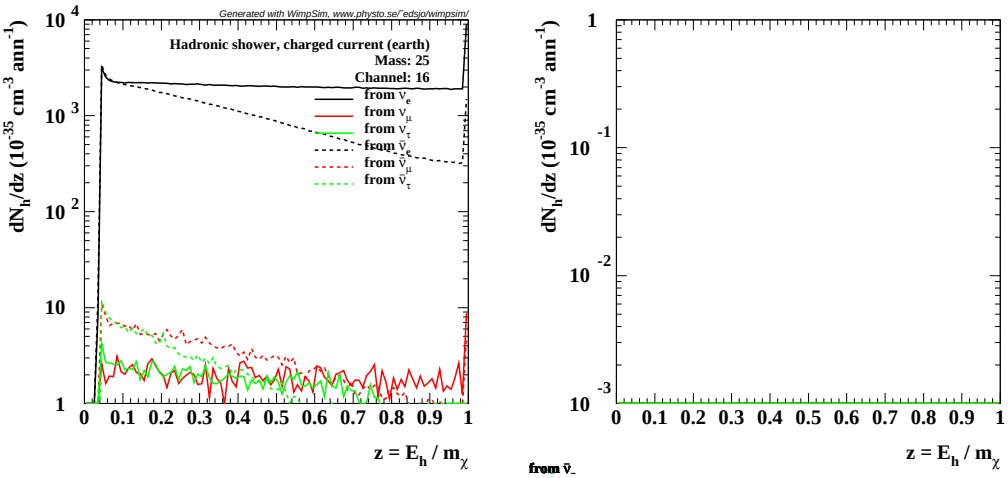
2.5.4 Neutrino fluxes at detector (Earth)



2.5.5 Charged leptons at neutrino-nucleon vertex (Earth)

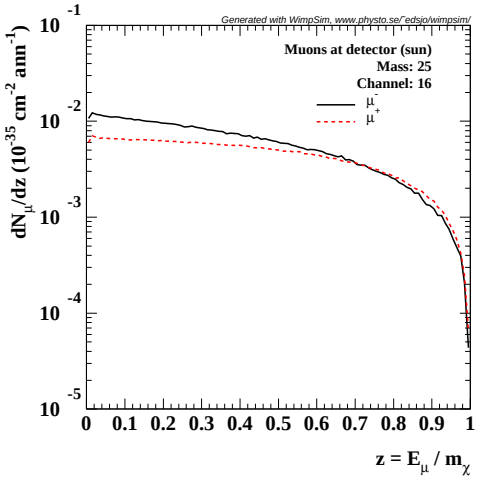


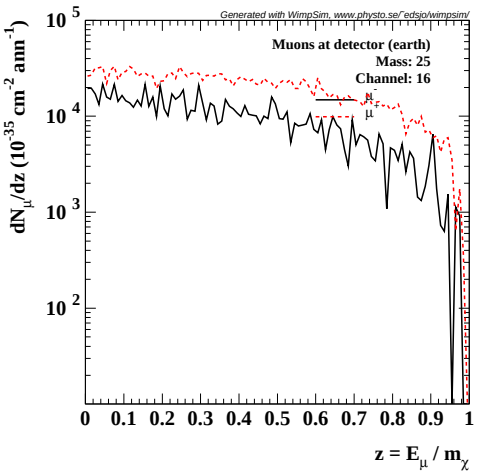
2.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

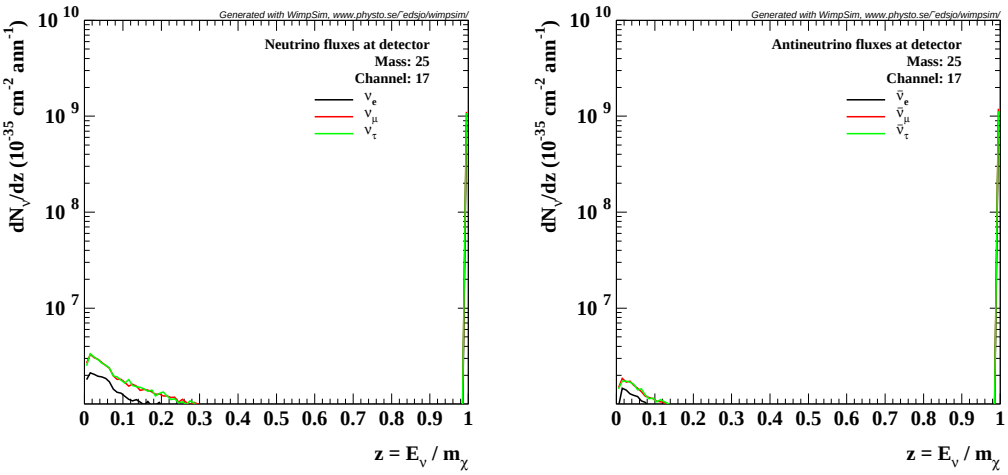
2.5.7 Muons at detector (Sun/Earth)



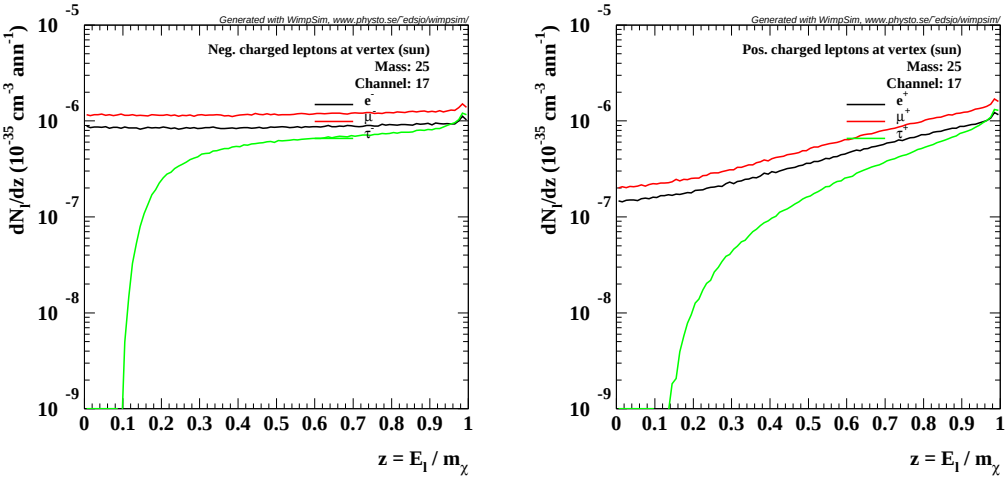


2.6 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

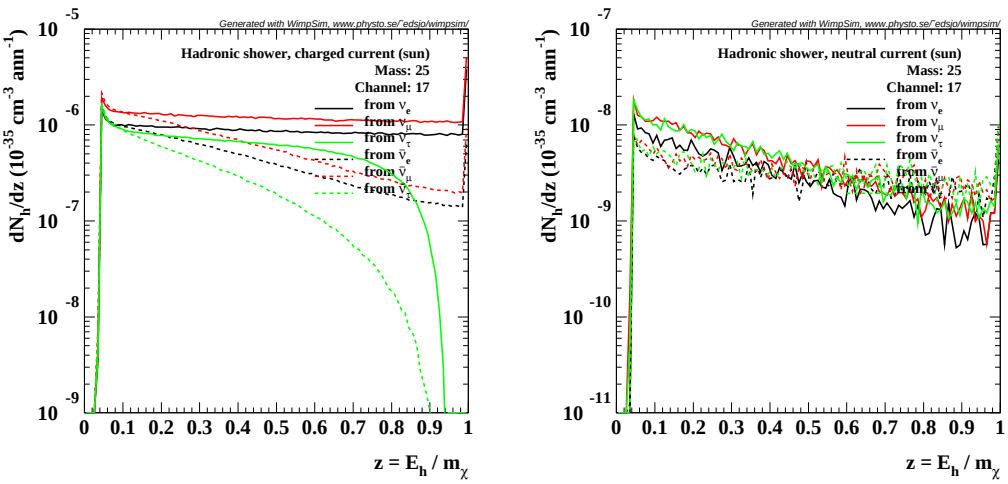
2.6.1 Neutrino fluxes at detector (Sun)



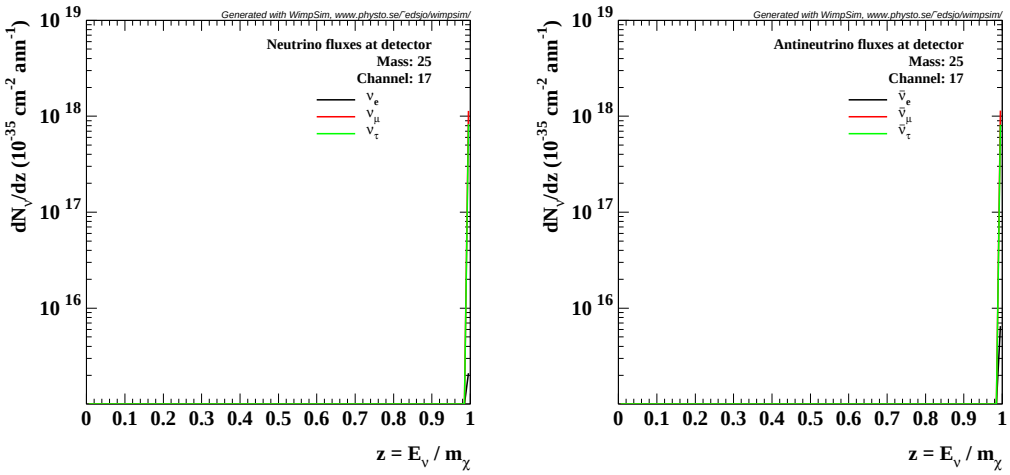
2.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



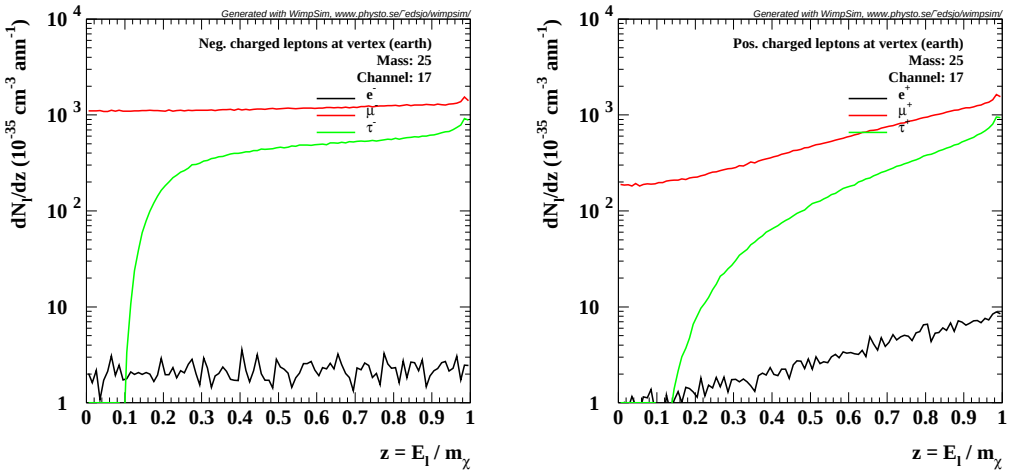
2.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



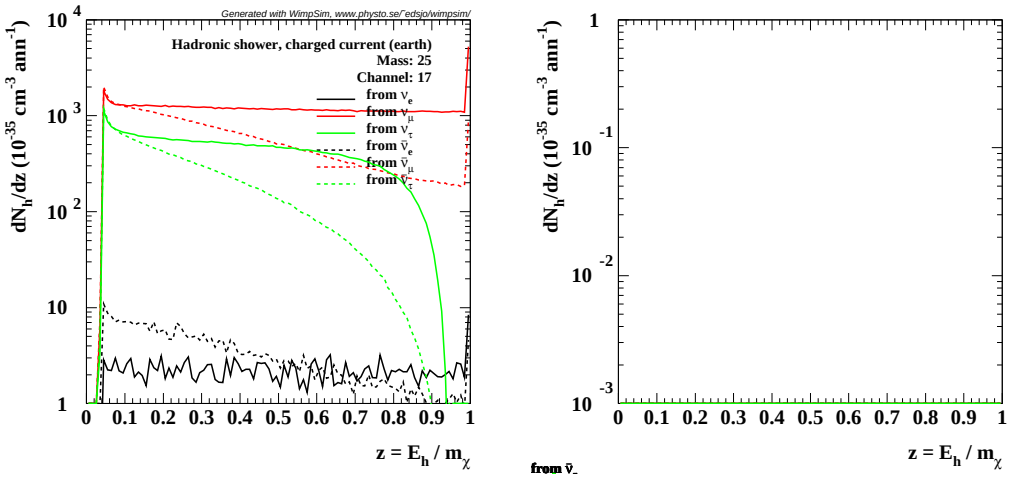
2.6.4 Neutrino fluxes at detector (Earth)



2.6.5 Charged leptons at neutrino-nucleon vertex (Earth)

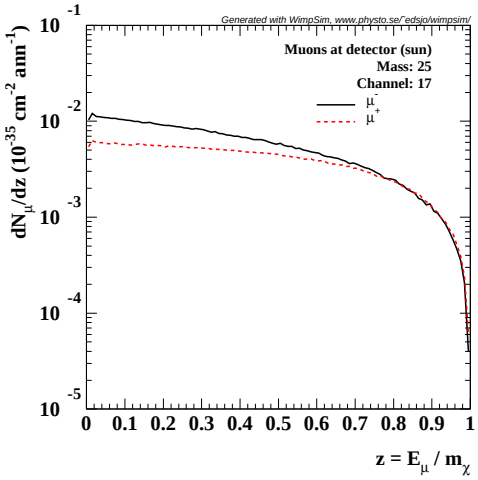


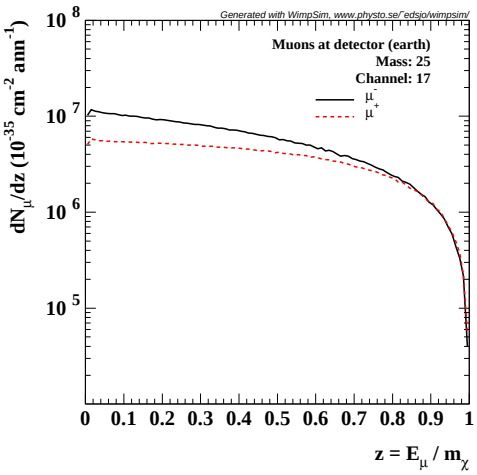
2.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

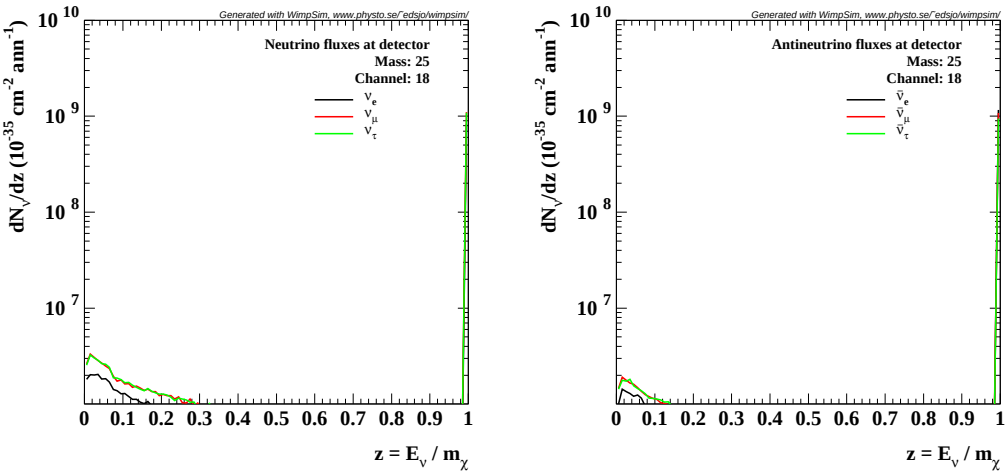
2.6.7 Muons at detector (Sun/Earth)



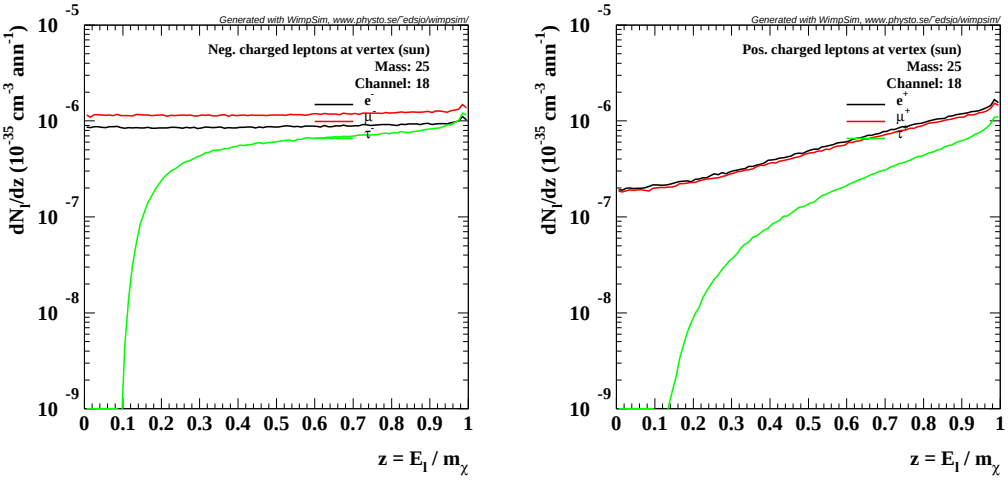


2.7 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

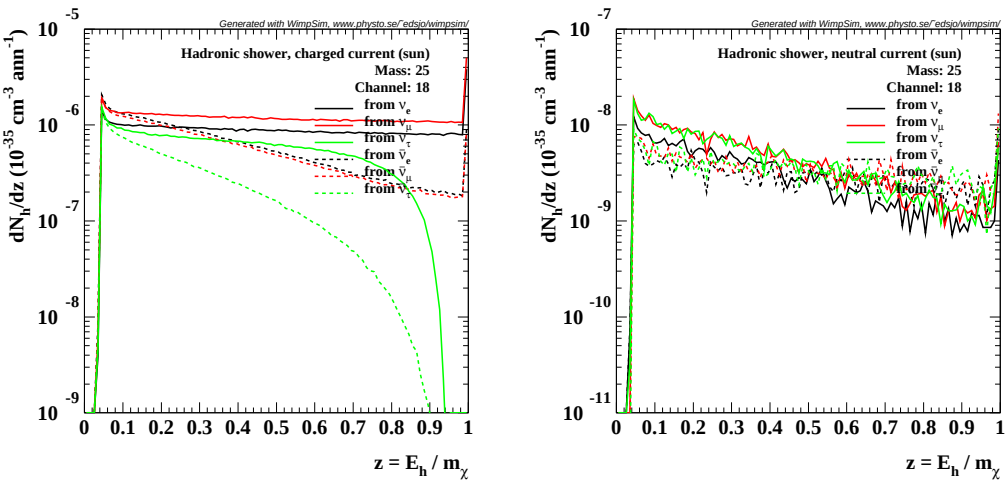
2.7.1 Neutrino fluxes at detector (Sun)



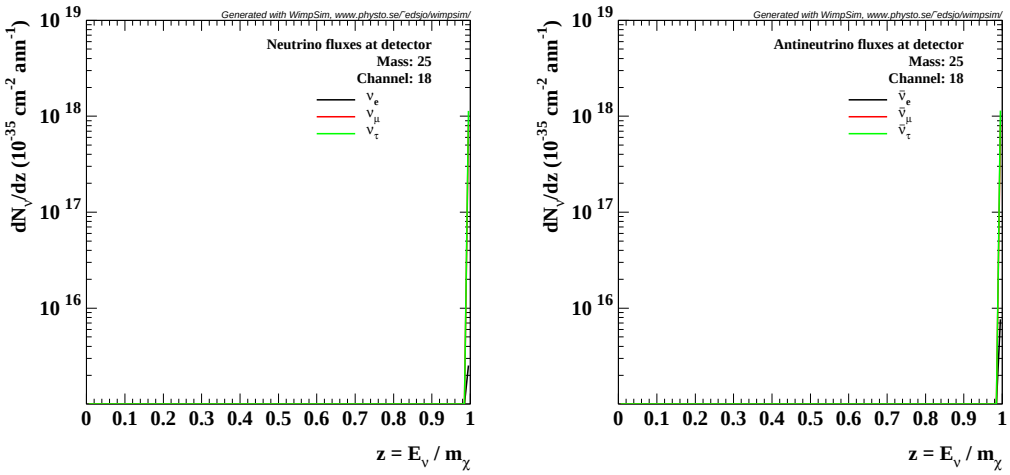
2.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



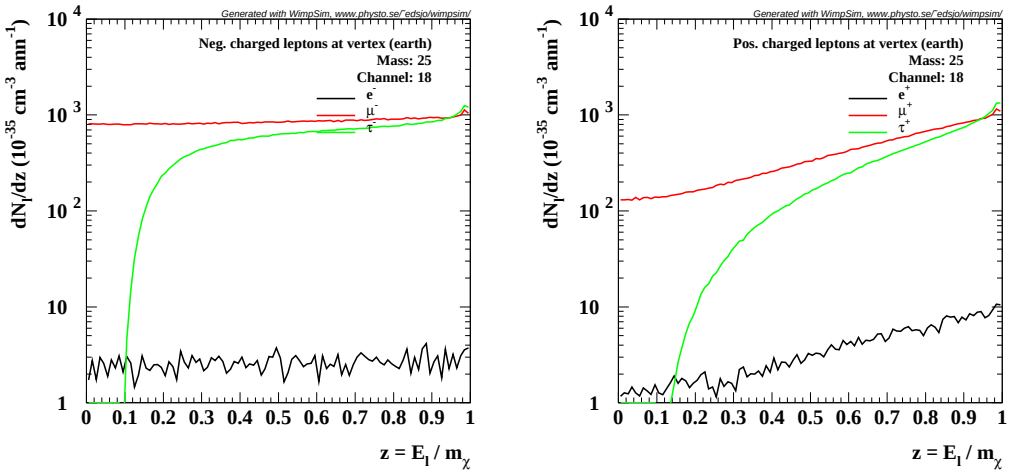
2.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



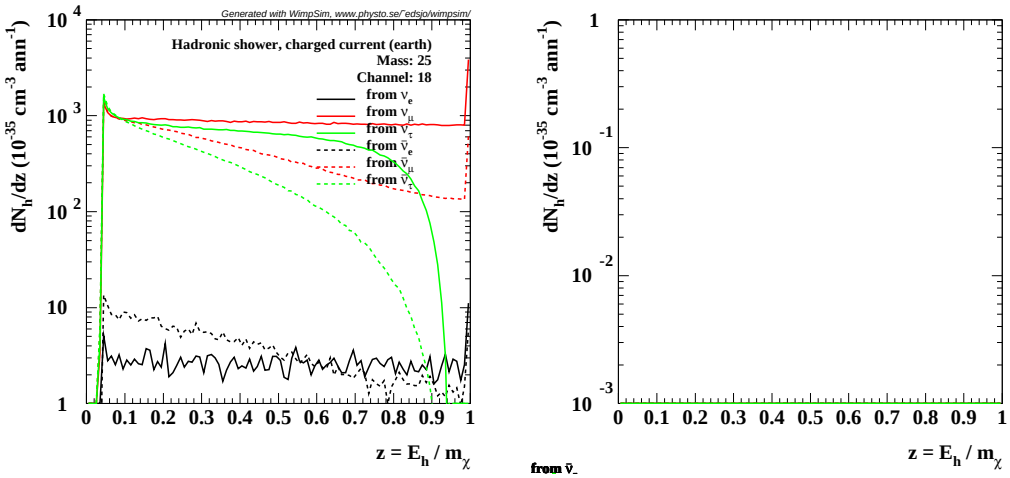
2.7.4 Neutrino fluxes at detector (Earth)



2.7.5 Charged leptons at neutrino-nucleon vertex (Earth)

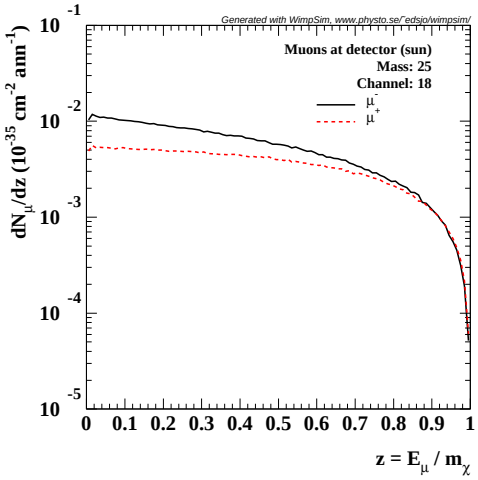


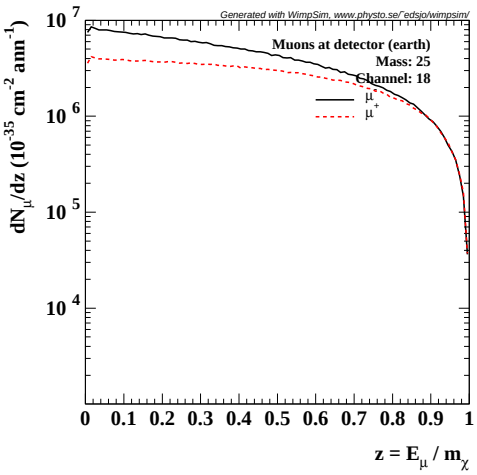
2.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

2.7.7 Muons at detector (Sun/Earth)

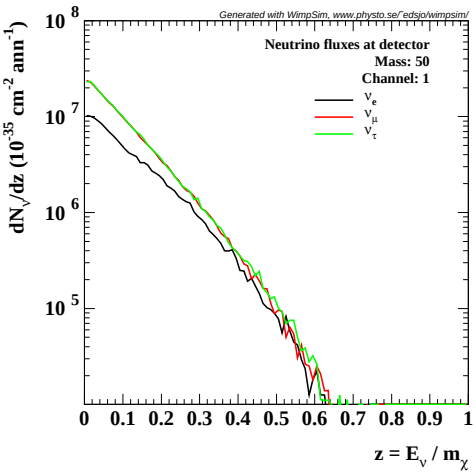


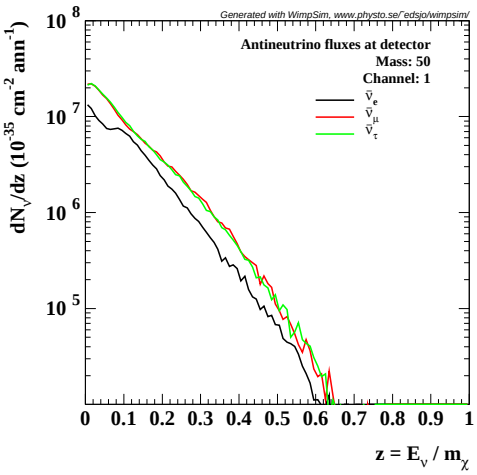


3 Mass 50

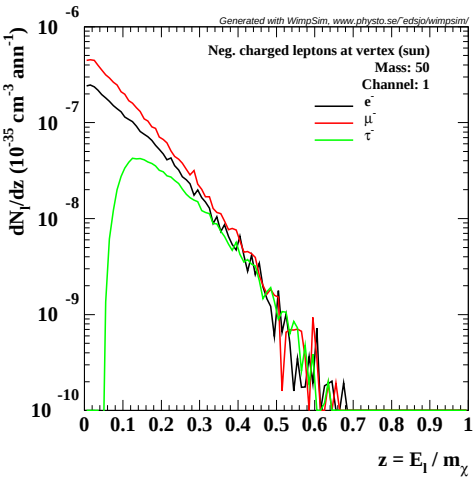
3.1 Channel 1 – $c\bar{c}$

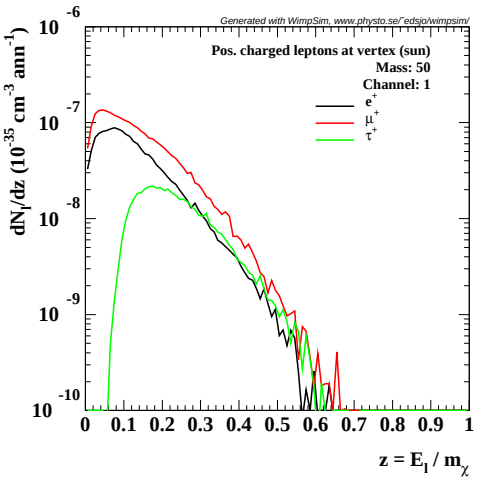
3.1.1 Neutrino fluxes at detector (Sun)



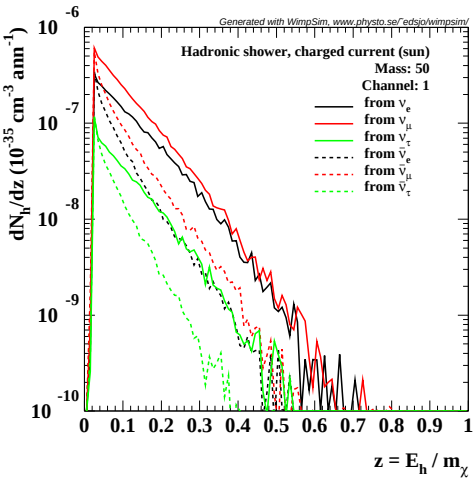


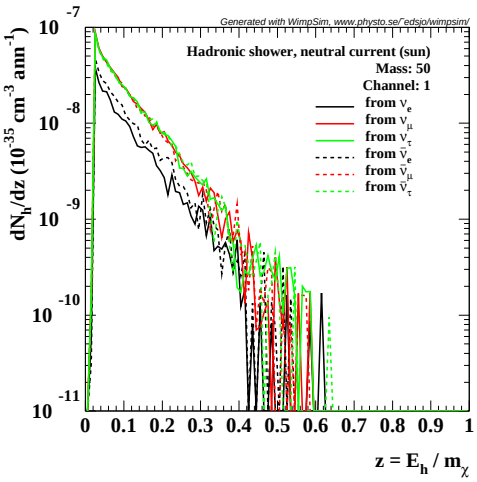
3.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



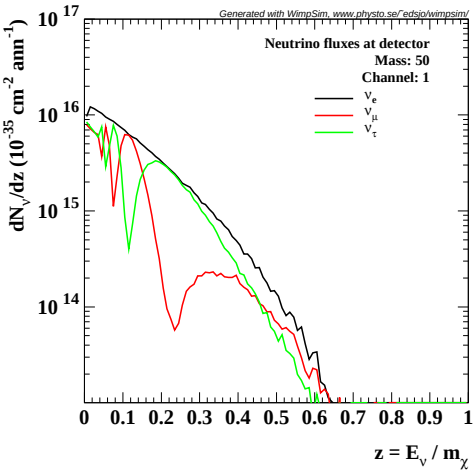


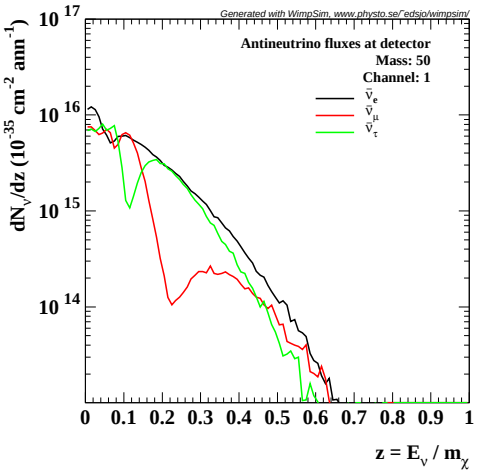
3.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



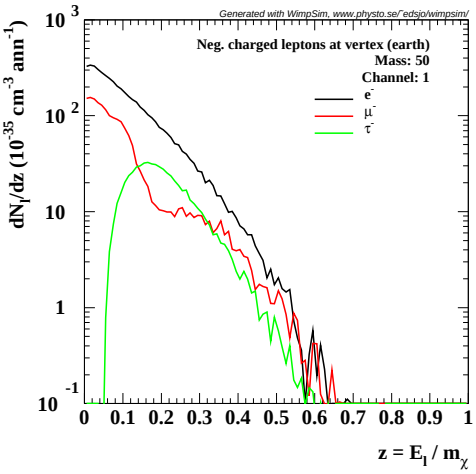


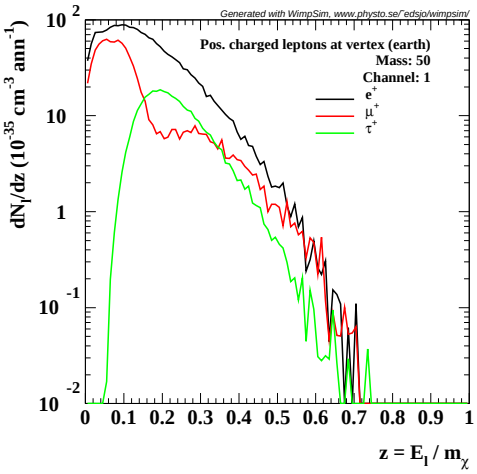
3.1.4 Neutrino fluxes at detector (Earth)



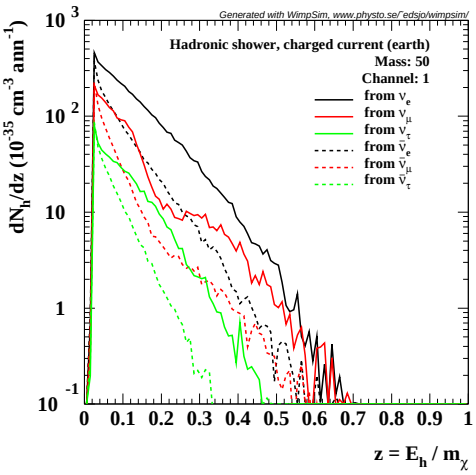


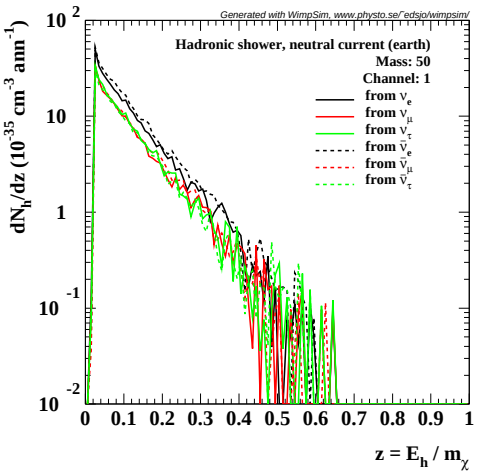
3.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



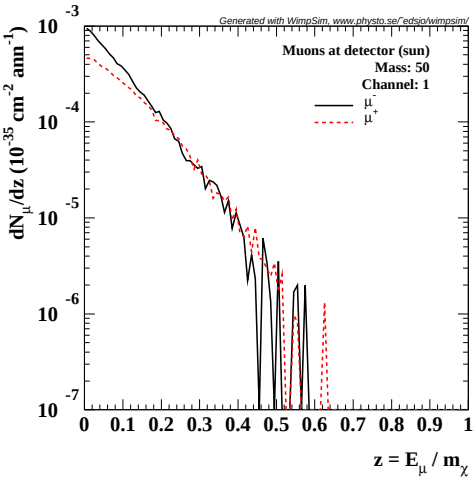


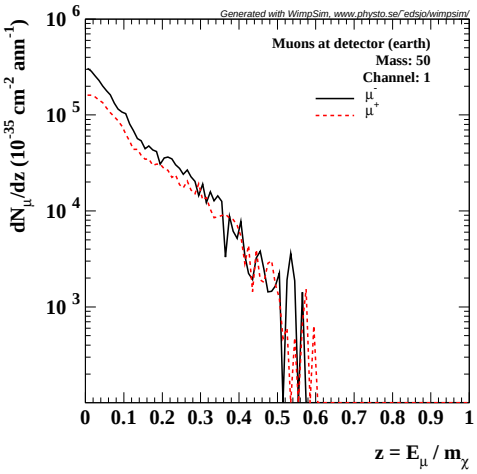
3.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





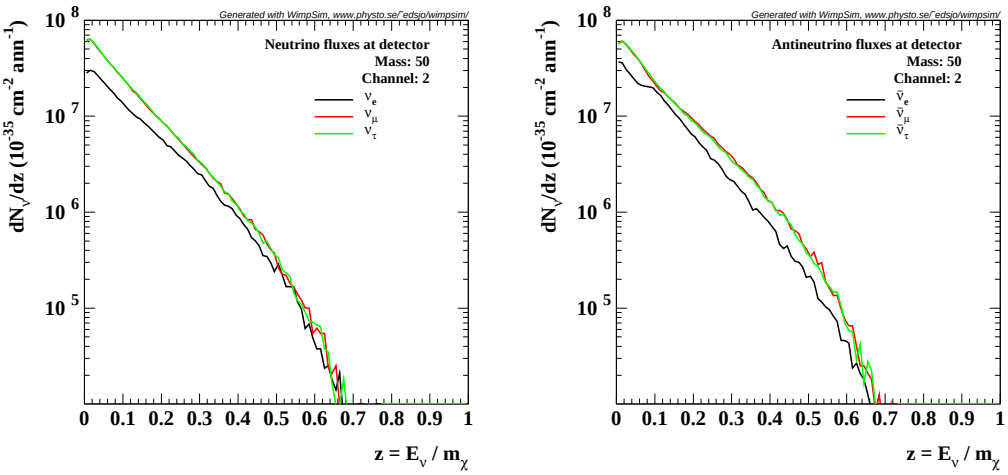
3.1.7 Muons at detector (Sun/Earth)



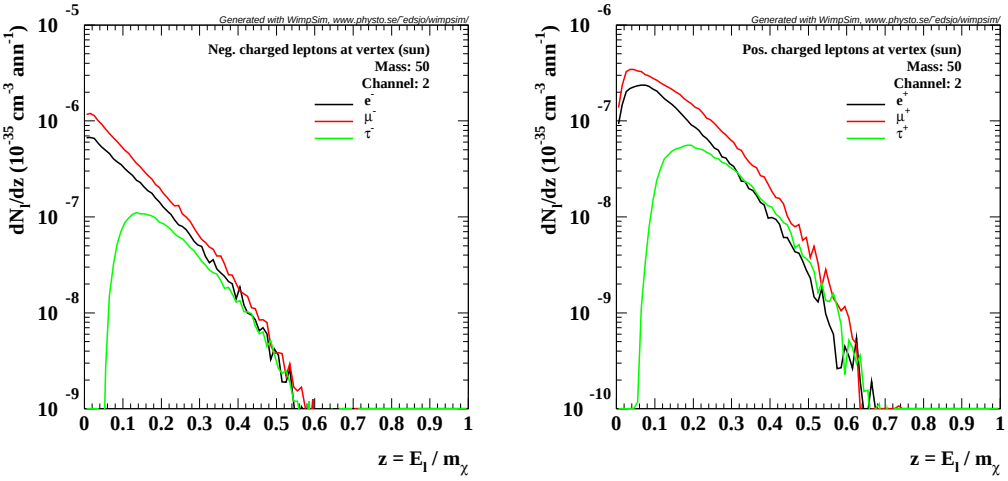


3.2 Channel 2 – $b\bar{b}$

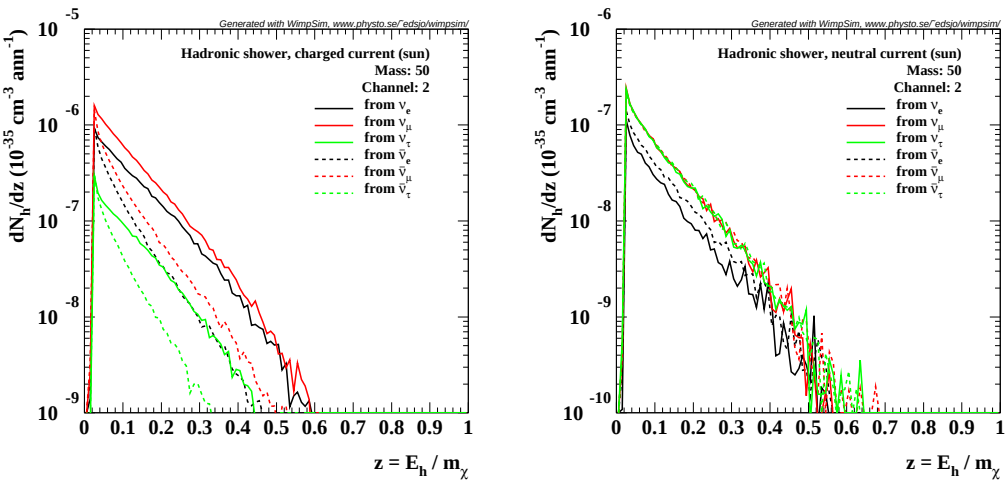
3.2.1 Neutrino fluxes at detector (Sun)



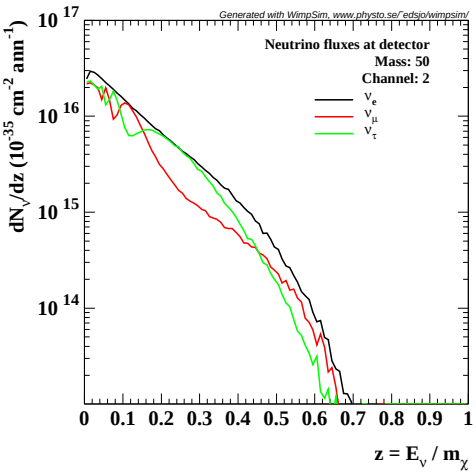
3.2.2 Charged leptons at neutrino-nucleon vertex (Sun)

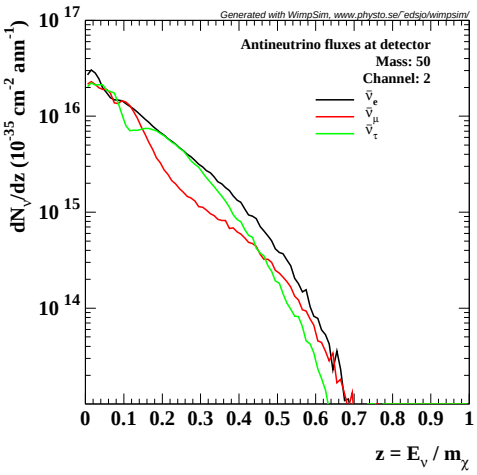


3.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)

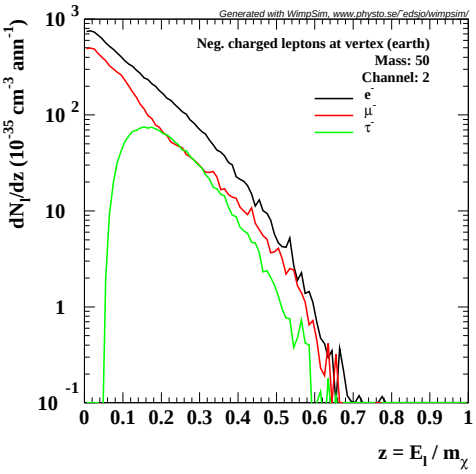


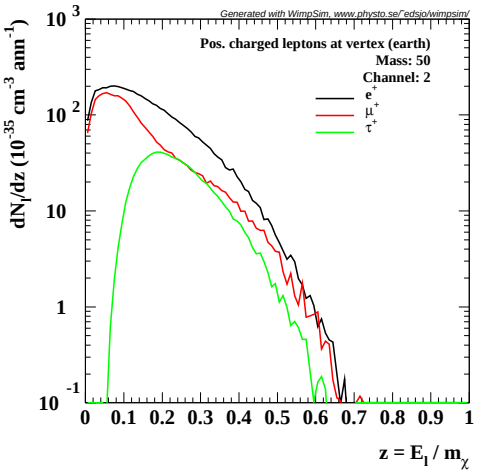
3.2.4 Neutrino fluxes at detector (Earth)



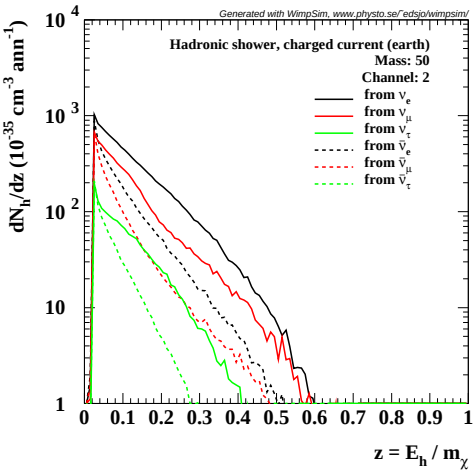


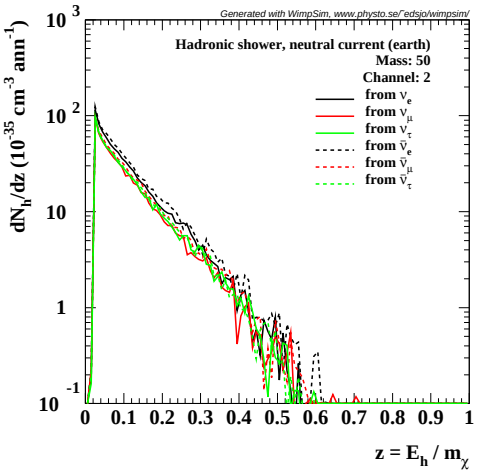
3.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



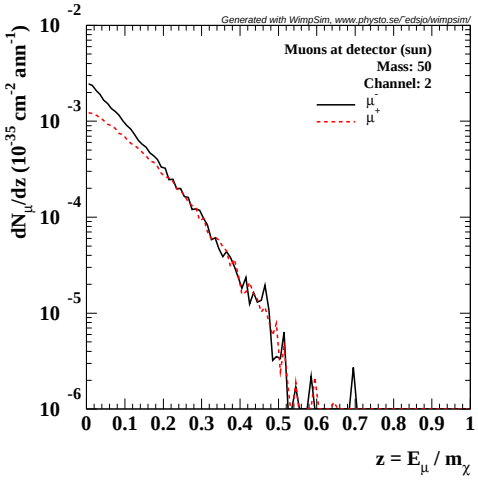


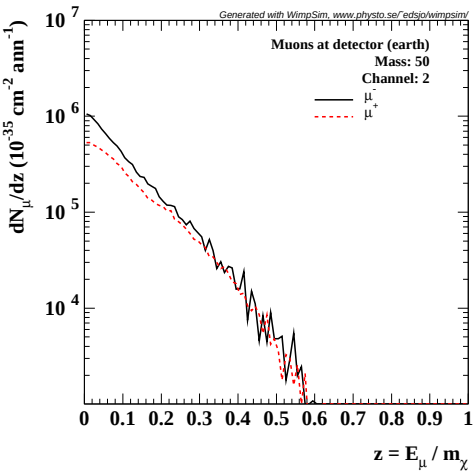
3.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





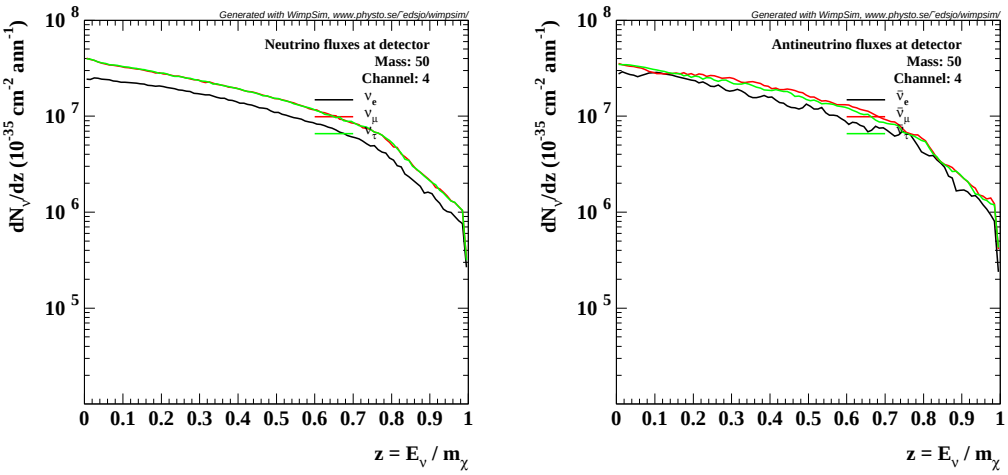
3.2.7 Muons at detector (Sun/Earth)



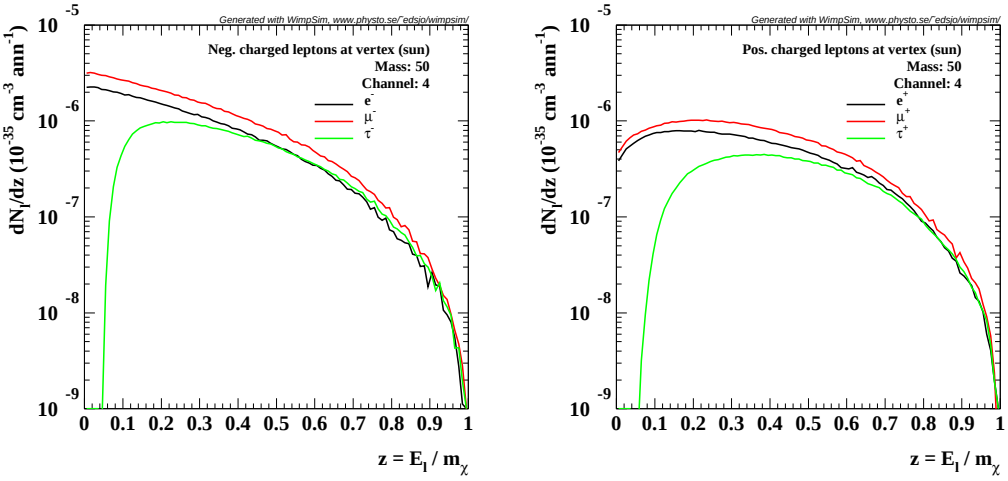


3.3 Channel 4 – $\tau^-\tau^+$

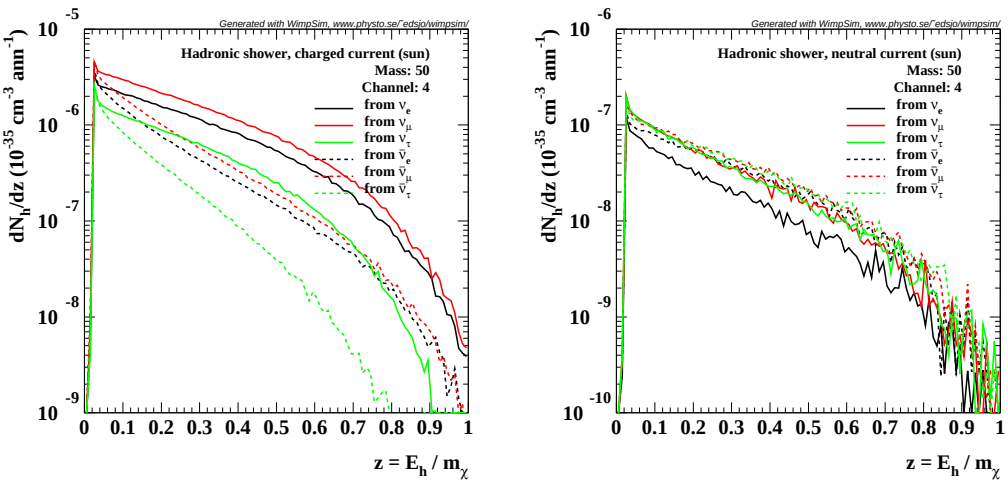
3.3.1 Neutrino fluxes at detector (Sun)



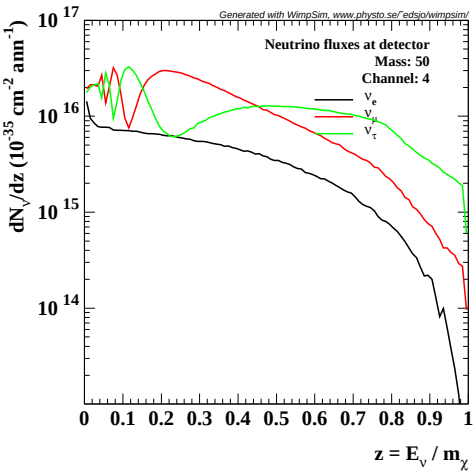
3.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

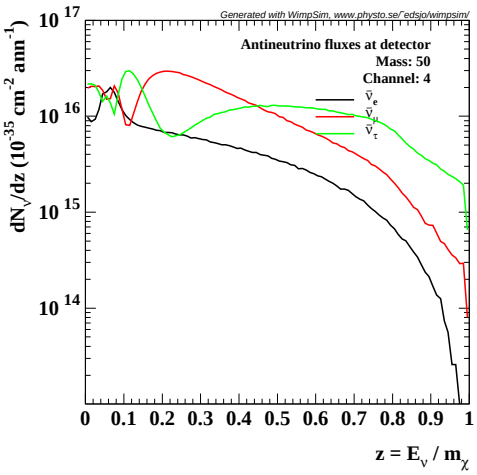


3.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

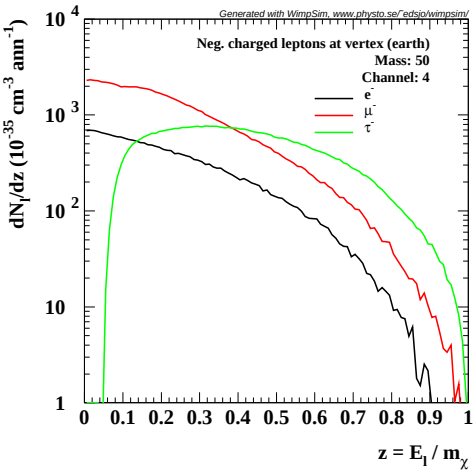


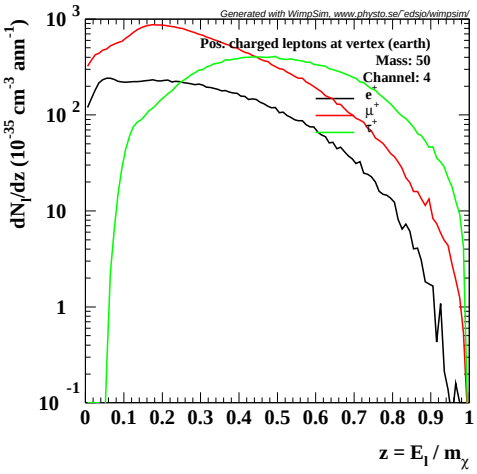
3.3.4 Neutrino fluxes at detector (Earth)



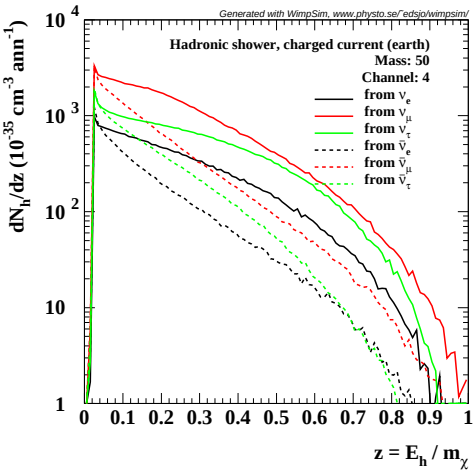


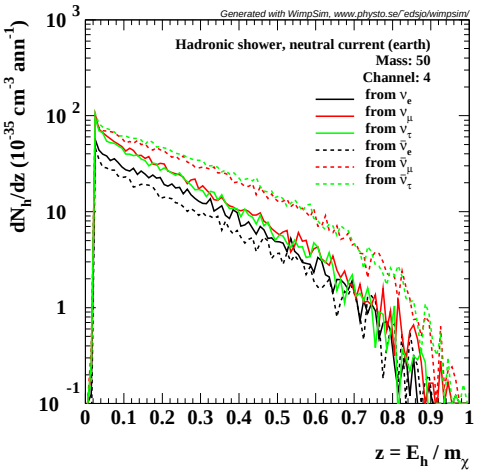
3.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



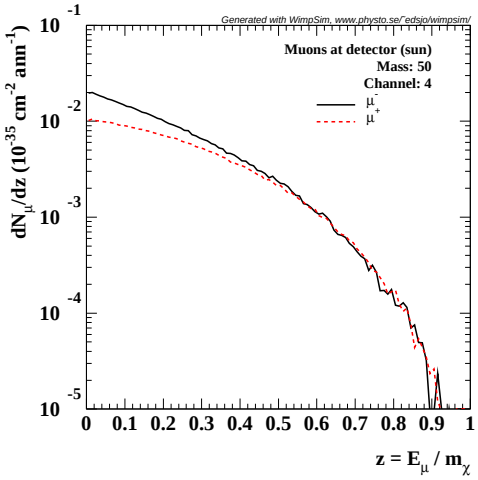


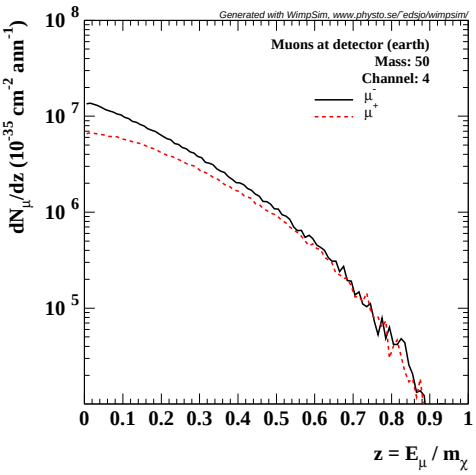
3.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





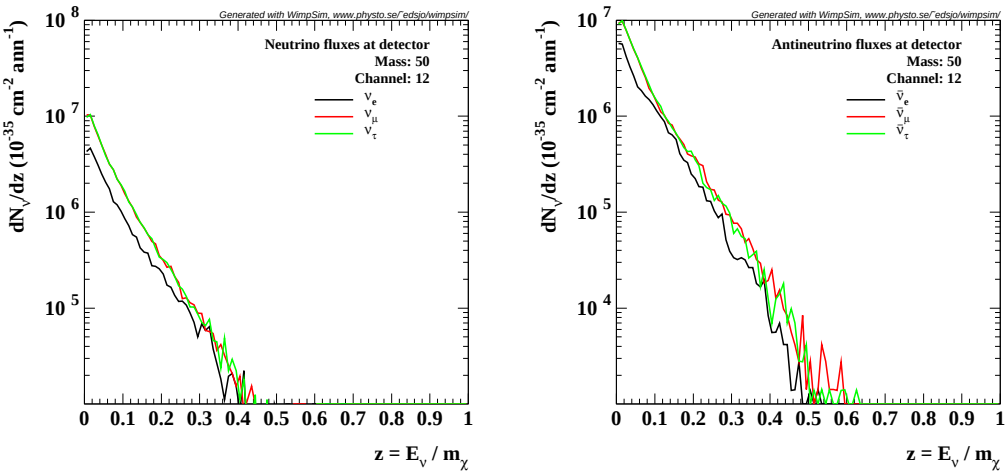
3.3.7 Muons at detector (Sun/Earth)



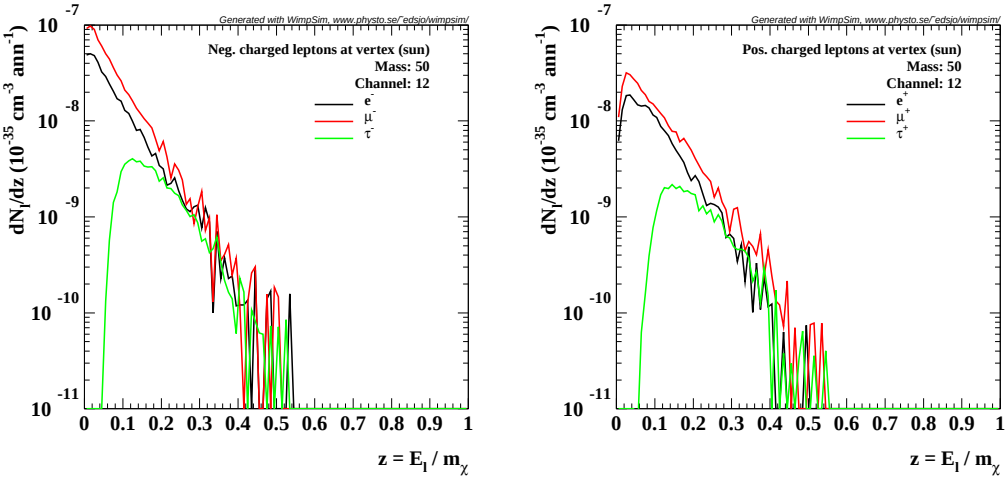


3.4 Channel 12 – gg

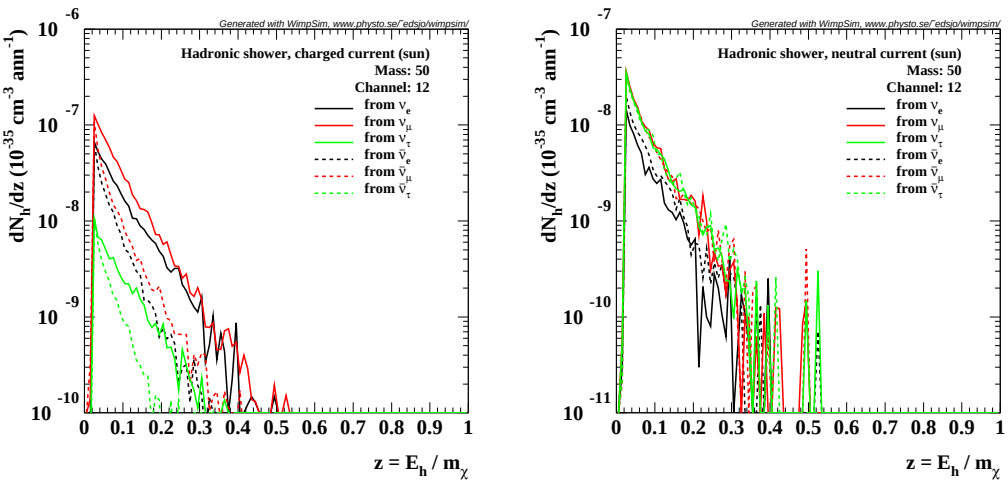
3.4.1 Neutrino fluxes at detector (Sun)



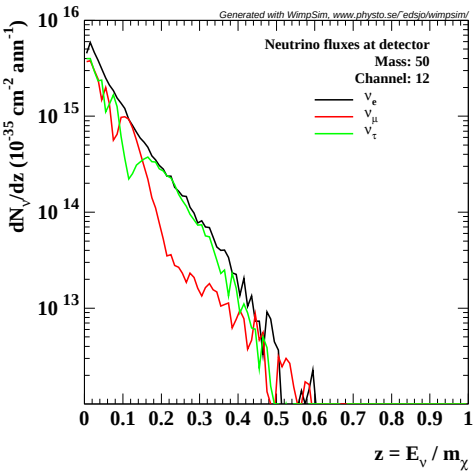
3.4.2 Charged leptons at neutrino-nucleon vertex (Sun)

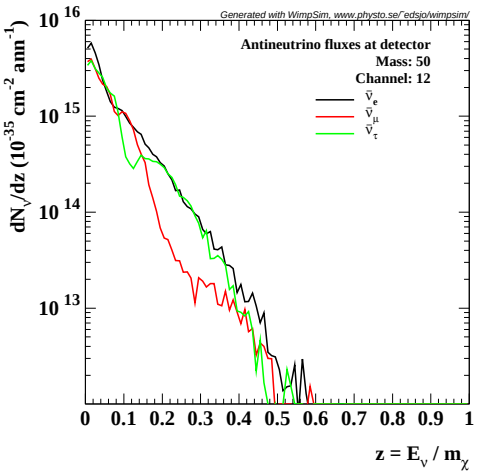


3.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

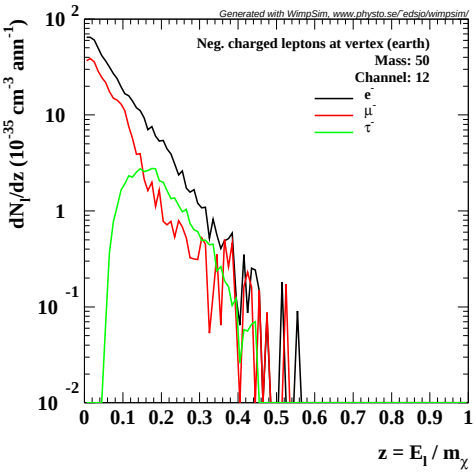


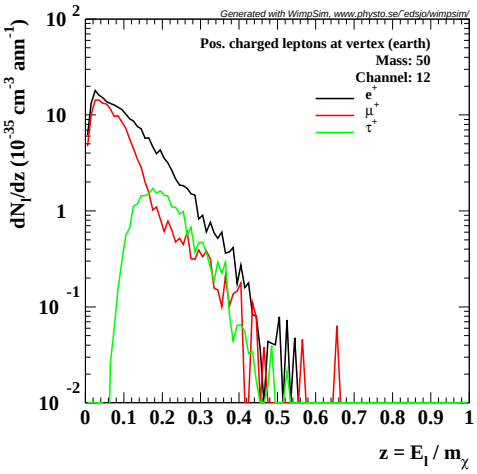
3.4.4 Neutrino fluxes at detector (Earth)



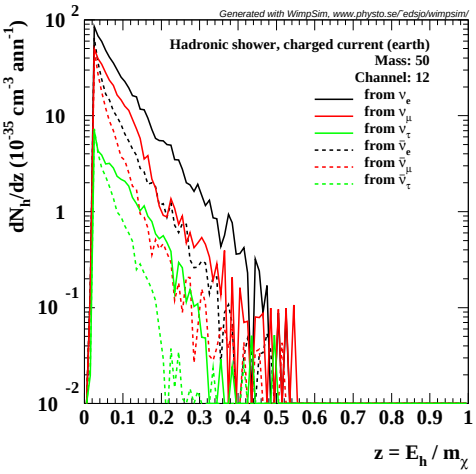


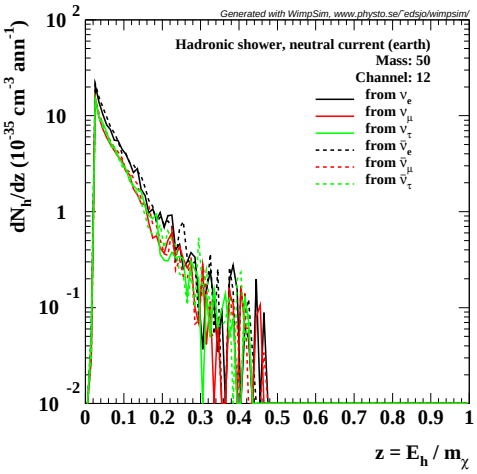
3.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



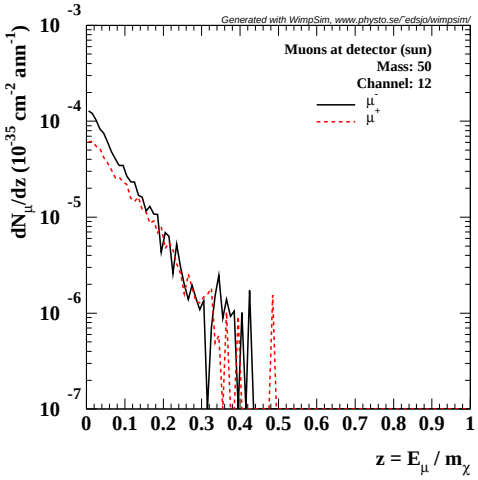


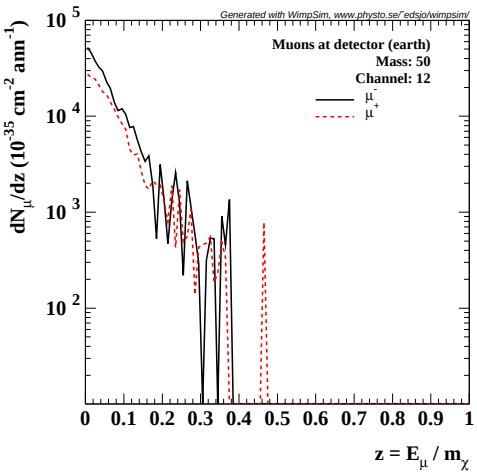
3.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





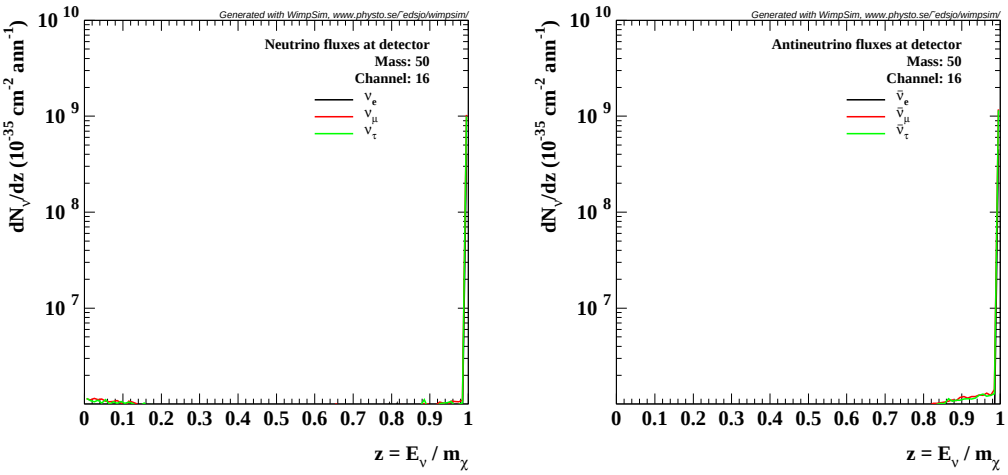
3.4.7 Muons at detector (Sun/Earth)



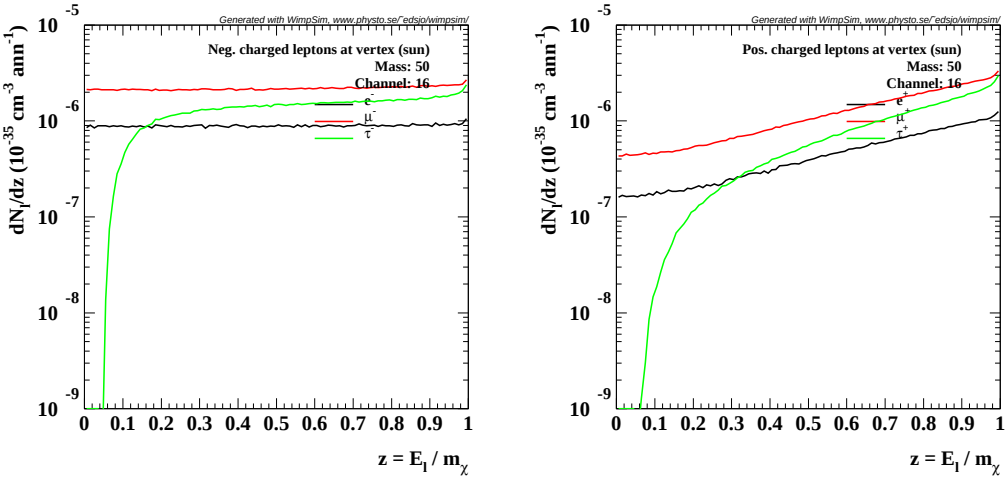


3.5 Channel 16 – $\nu_e\bar{\nu}_e$

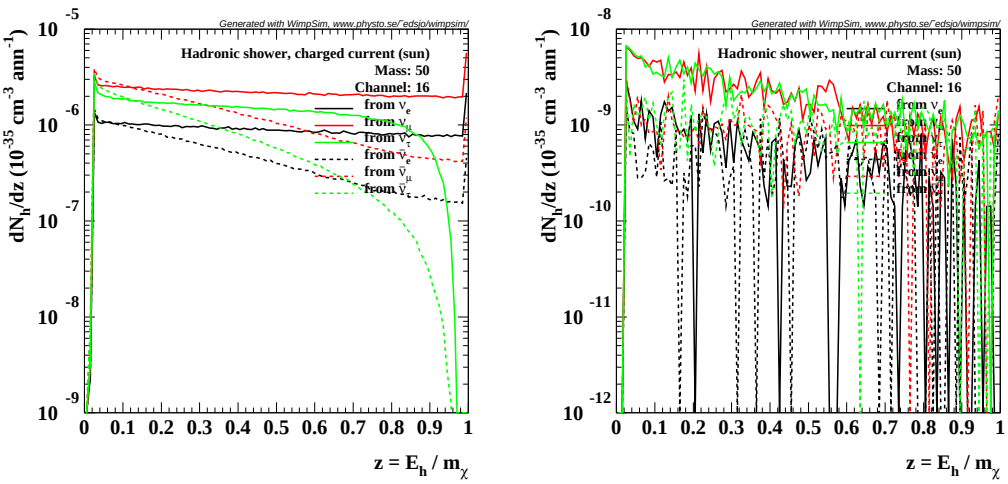
3.5.1 Neutrino fluxes at detector (Sun)



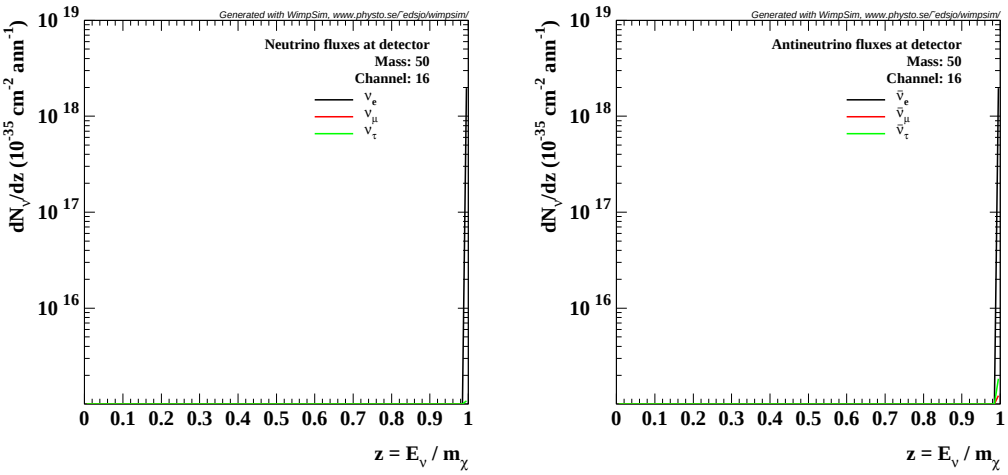
3.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



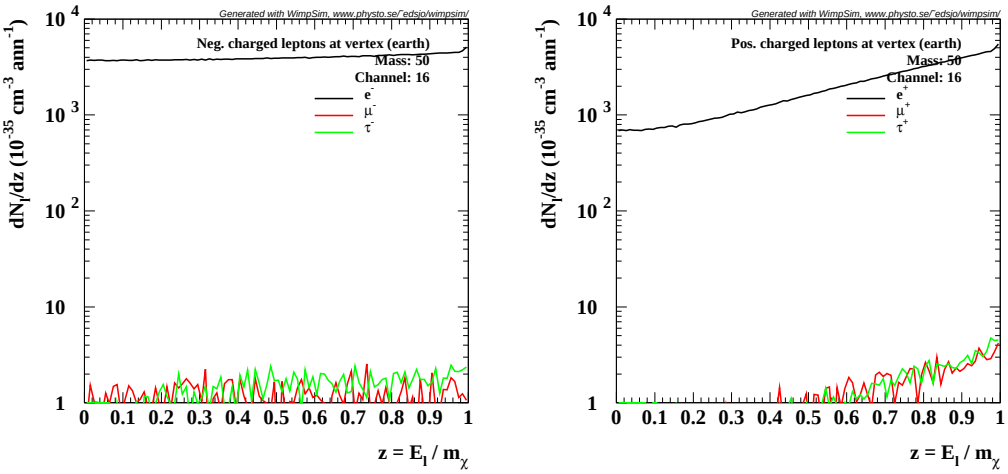
3.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



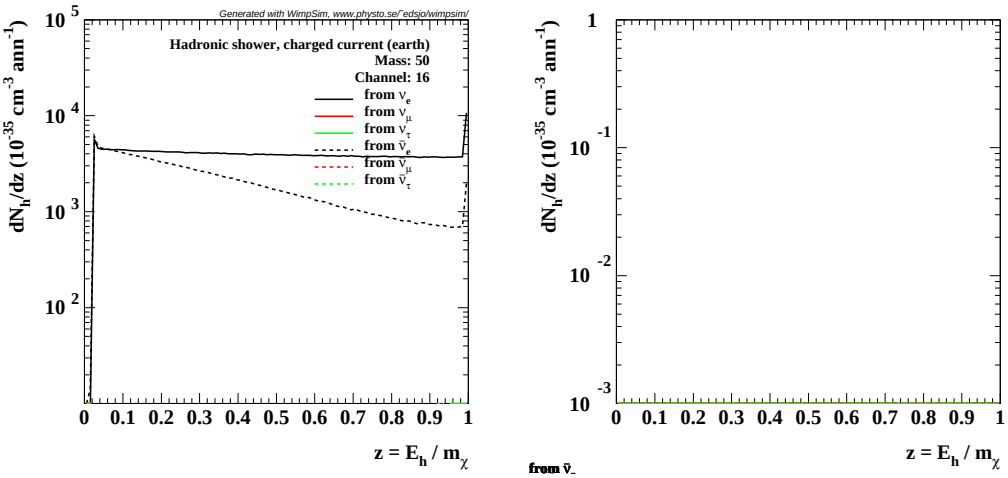
3.5.4 Neutrino fluxes at detector (Earth)



3.5.5 Charged leptons at neutrino-nucleon vertex (Earth)

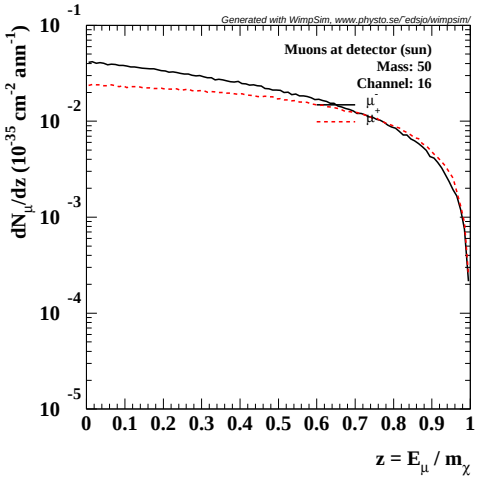


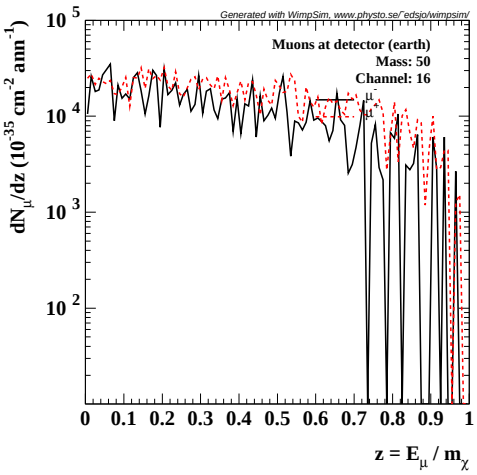
3.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

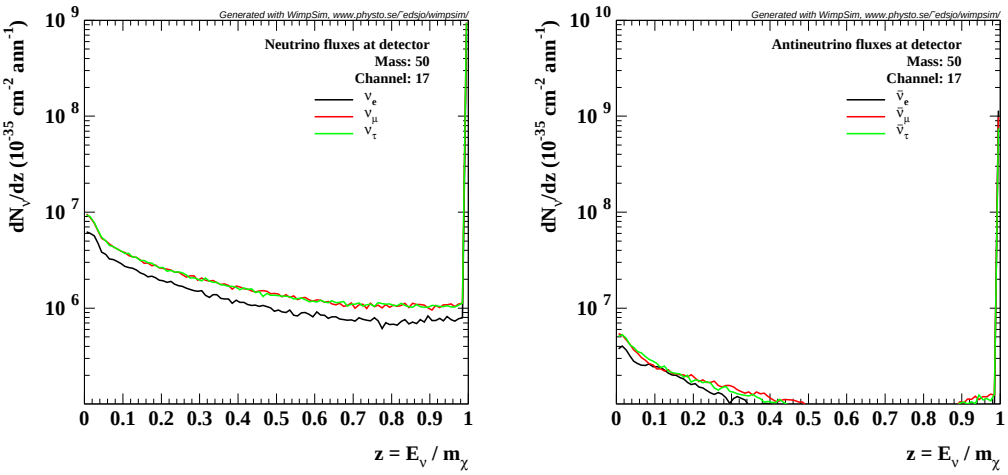
3.5.7 Muons at detector (Sun/Earth)



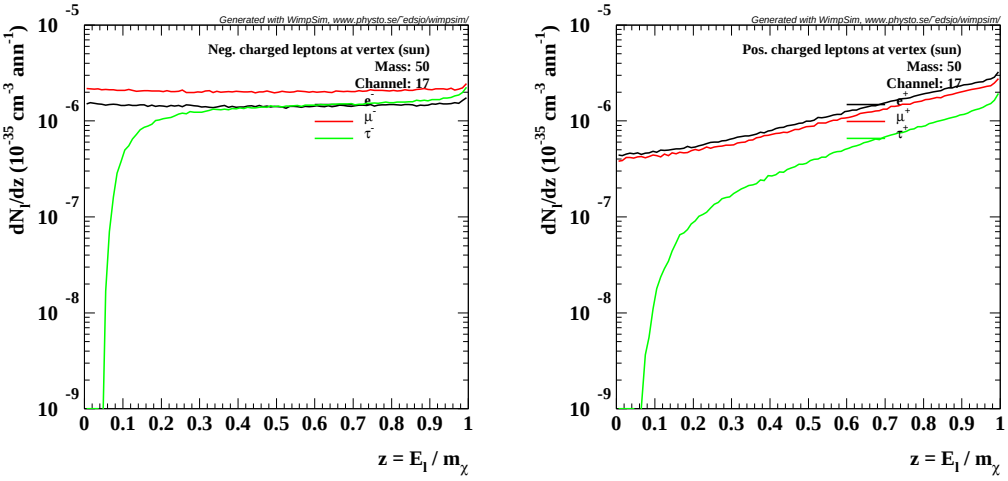


3.6 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

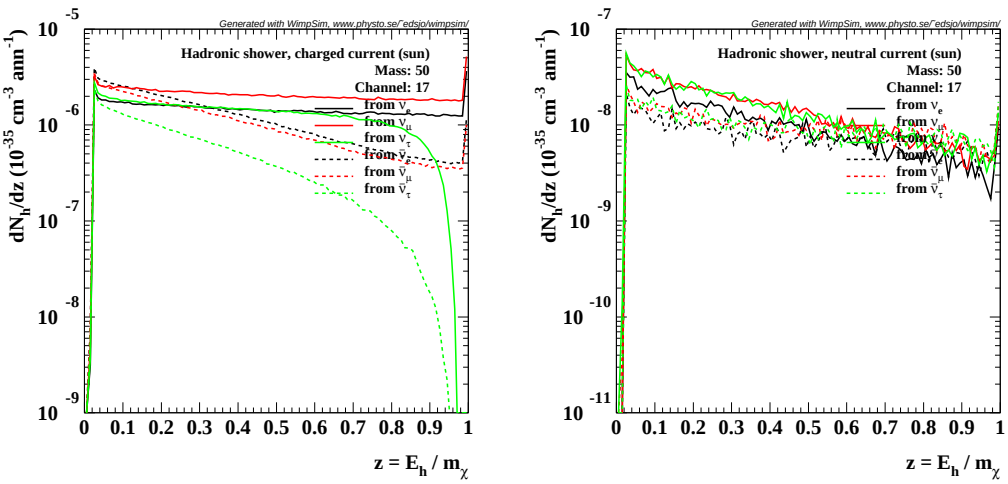
3.6.1 Neutrino fluxes at detector (Sun)



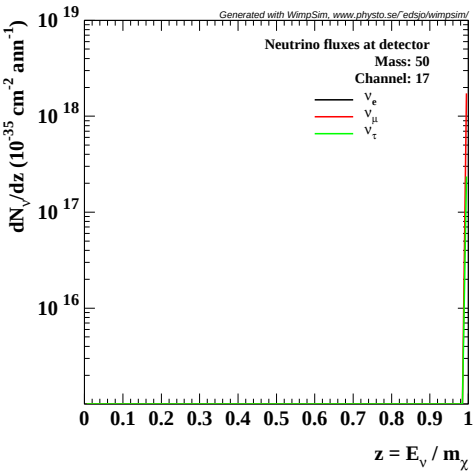
3.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

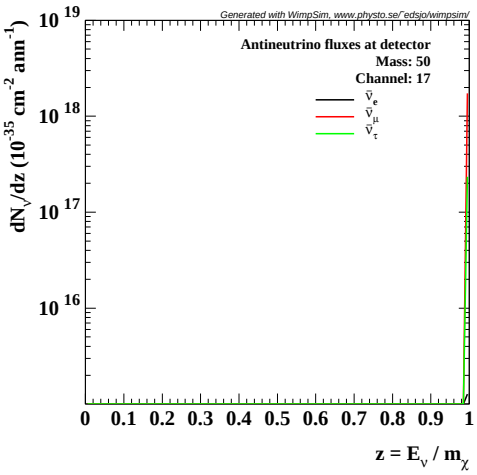


3.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

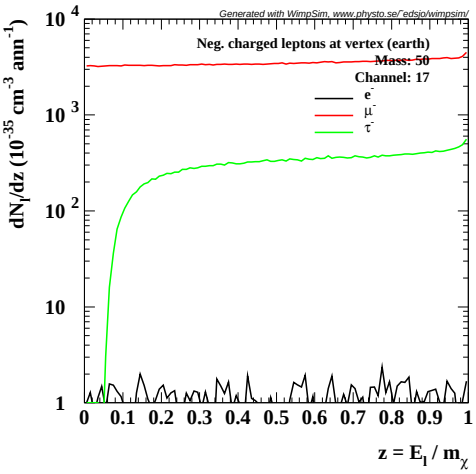


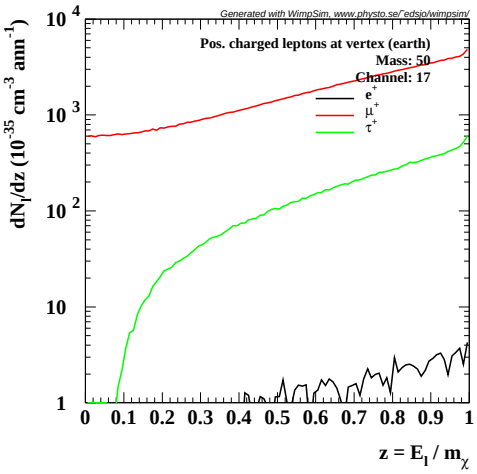
3.6.4 Neutrino fluxes at detector (Earth)



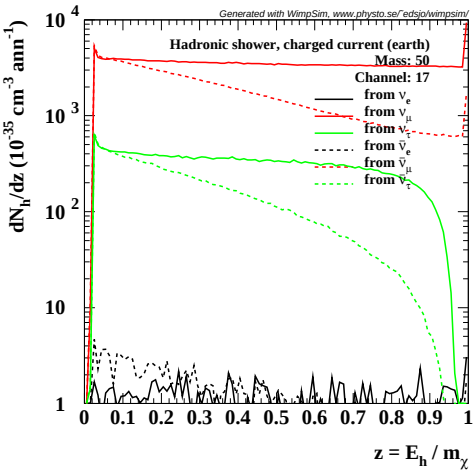


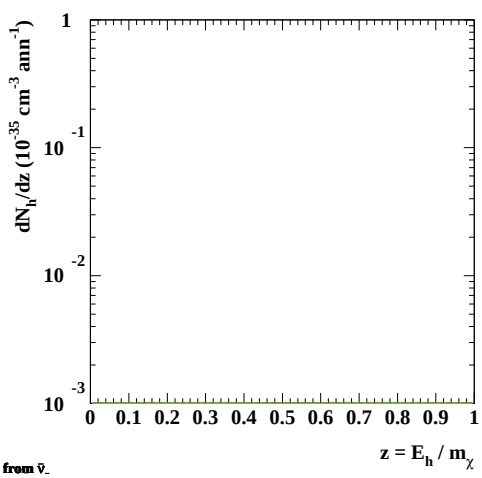
3.6.5 Charged leptons at neutrino-nucleon vertex (Earth)





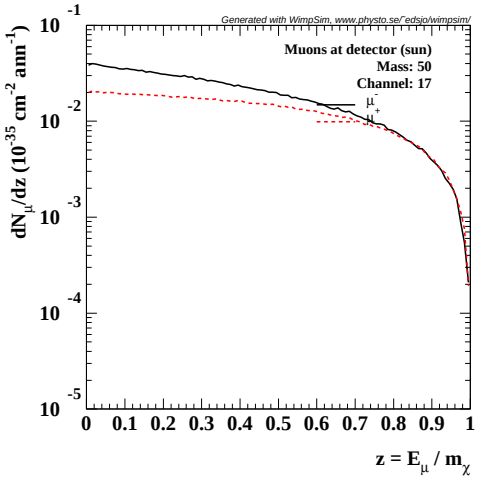
3.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)

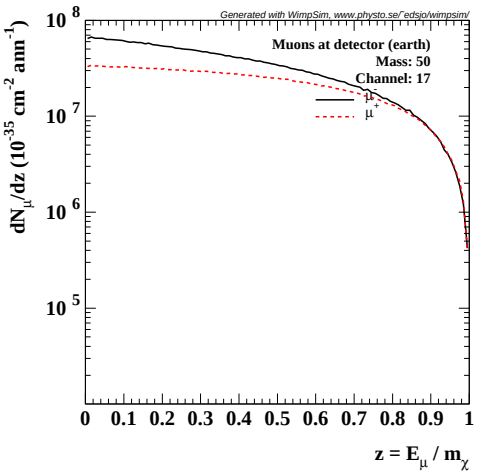




from $\bar{\nu}_\tau$

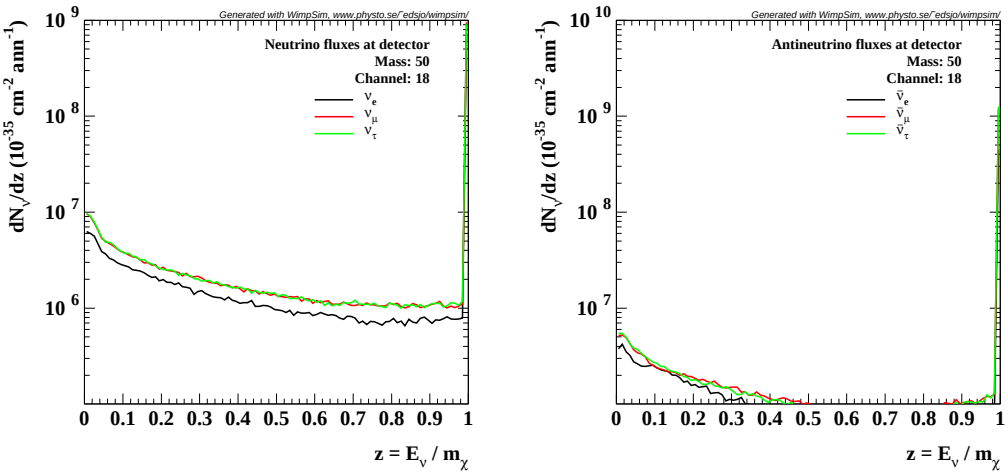
3.6.7 Muons at detector (Sun/Earth)



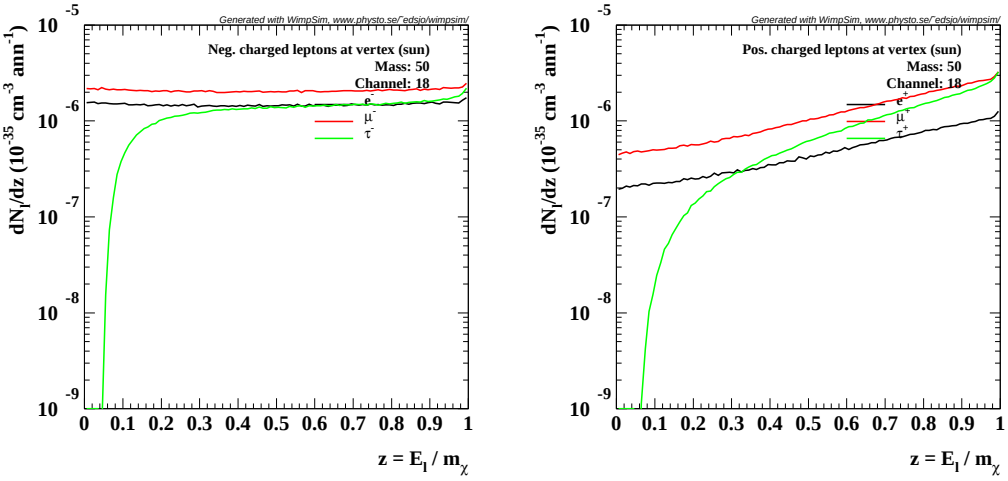


3.7 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

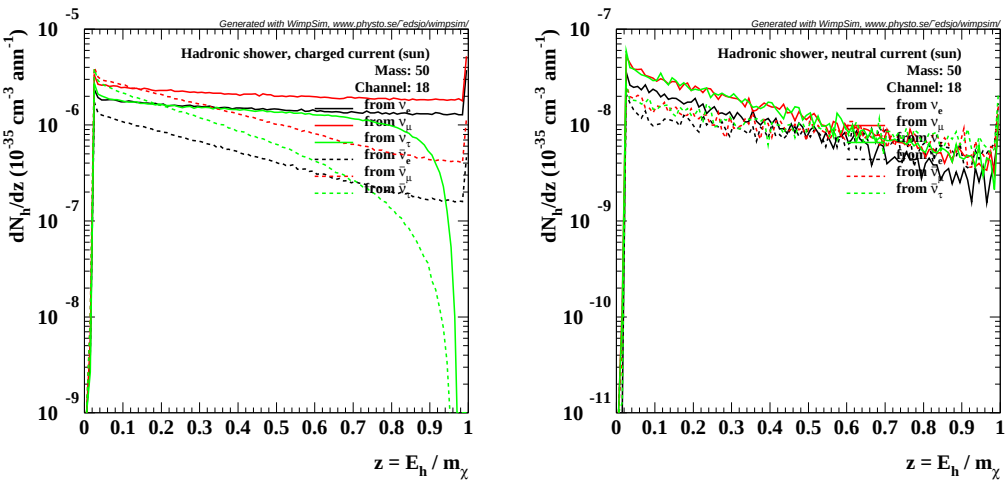
3.7.1 Neutrino fluxes at detector (Sun)



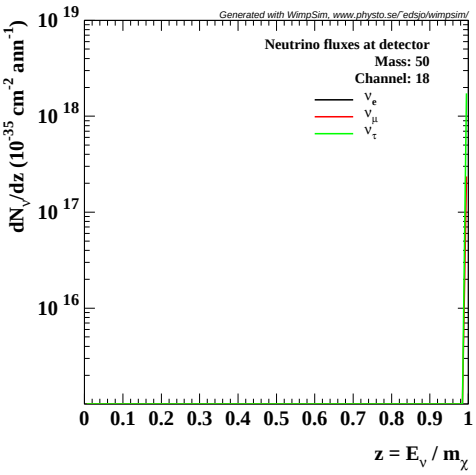
3.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

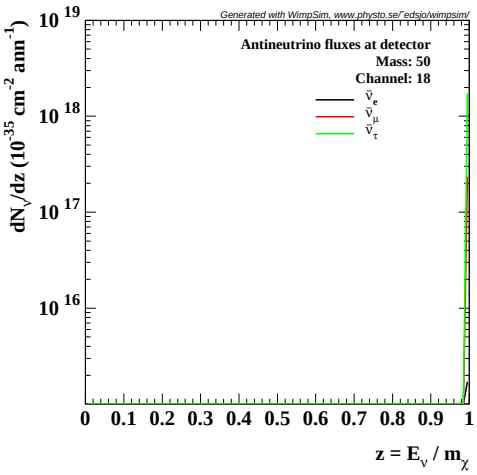


3.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

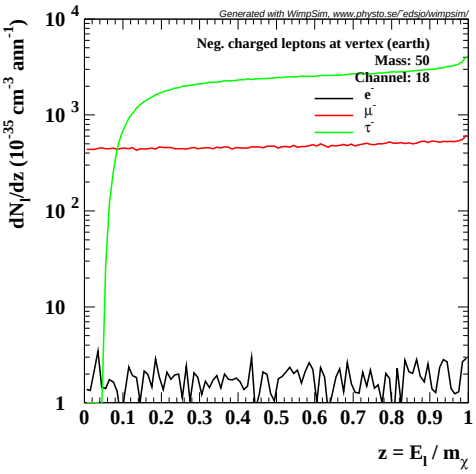


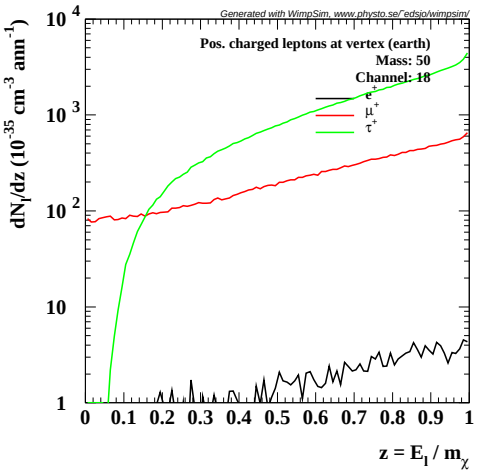
3.7.4 Neutrino fluxes at detector (Earth)



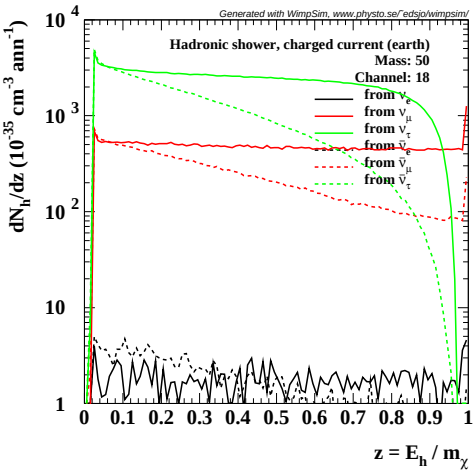


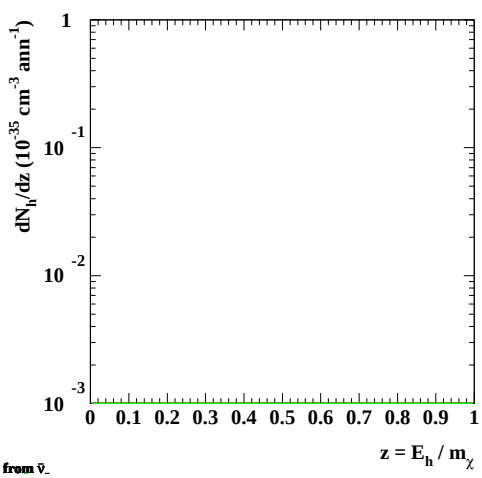
3.7.5 Charged leptons at neutrino-nucleon vertex (Earth)





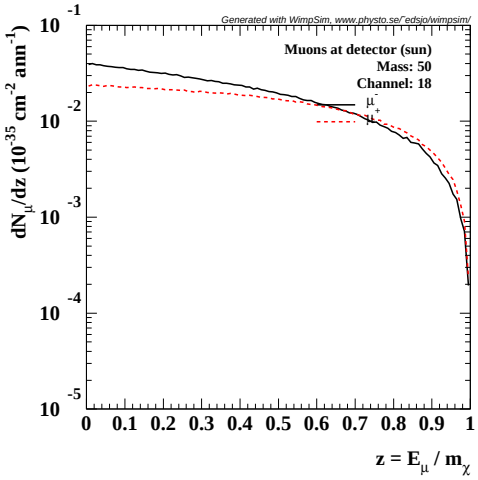
3.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)

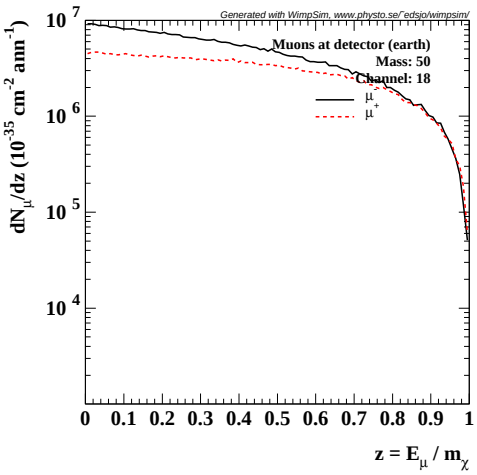




from $\bar{\nu}_\tau$

3.7.7 Muons at detector (Sun/Earth)

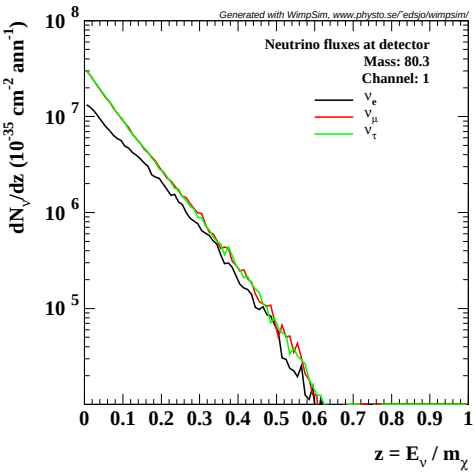


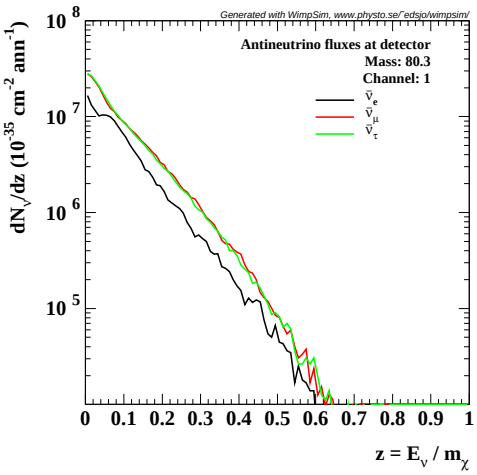


4 Mass 80.3

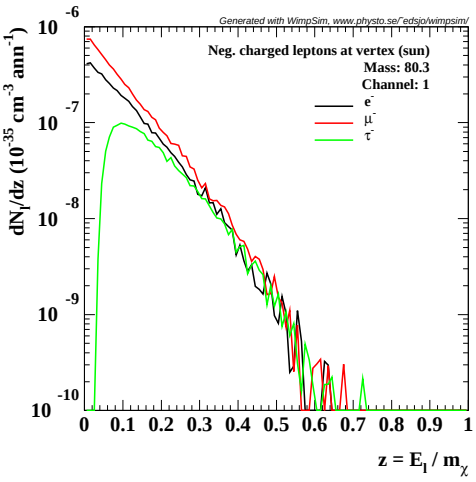
4.1 Channel 1 – $c\bar{c}$

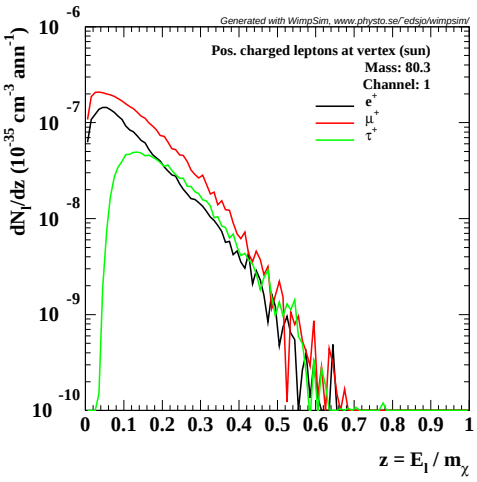
4.1.1 Neutrino fluxes at detector (Sun)



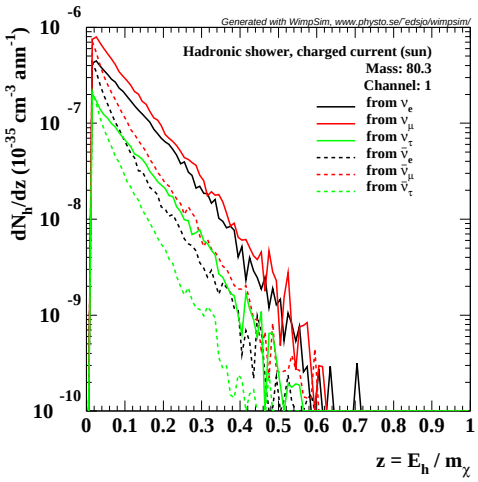


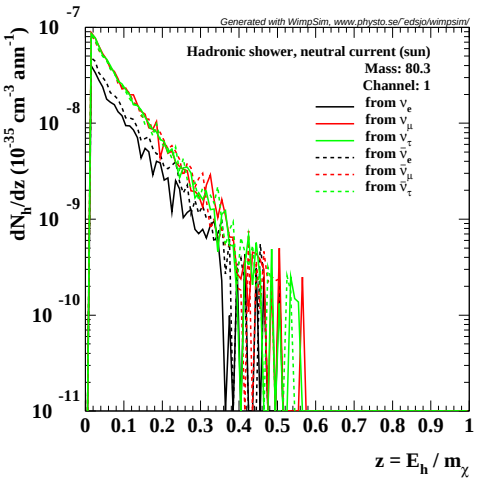
4.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



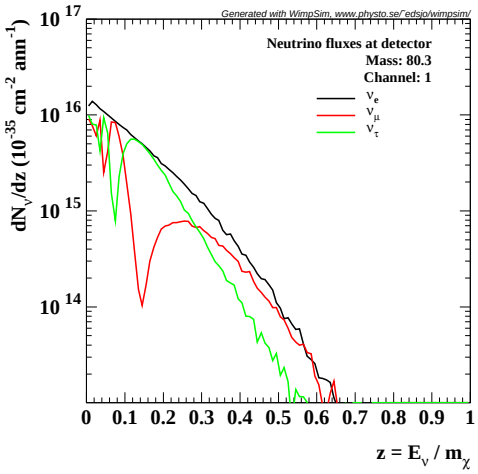


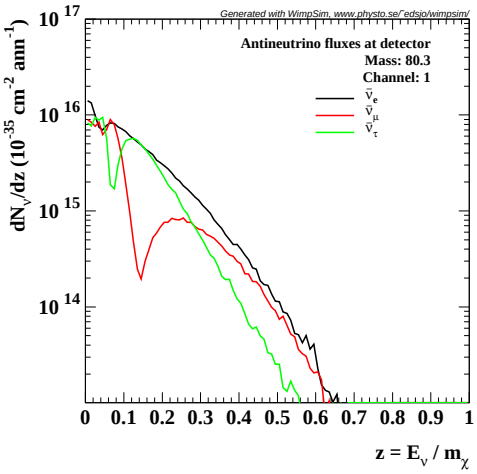
4.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



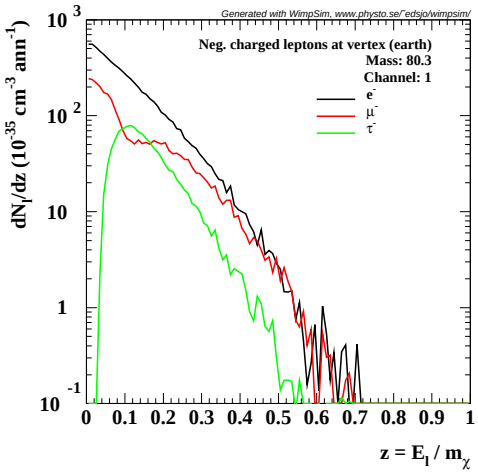


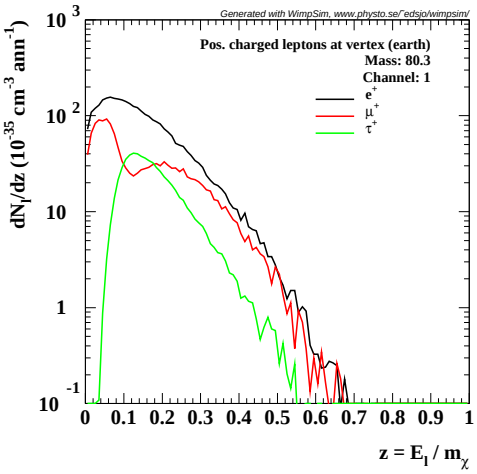
4.1.4 Neutrino fluxes at detector (Earth)



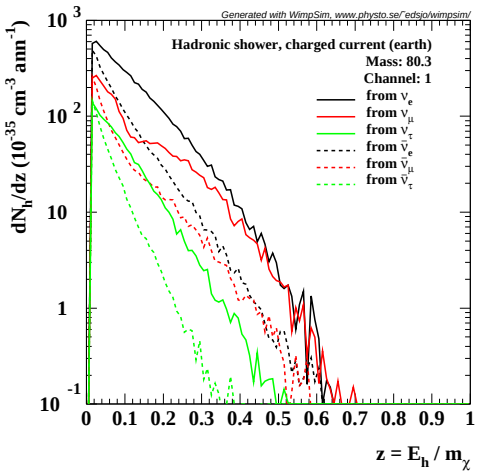


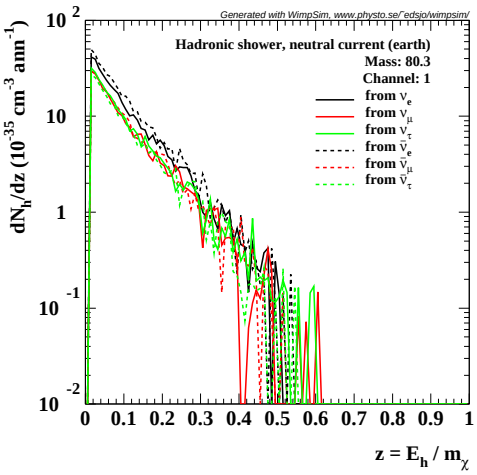
4.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



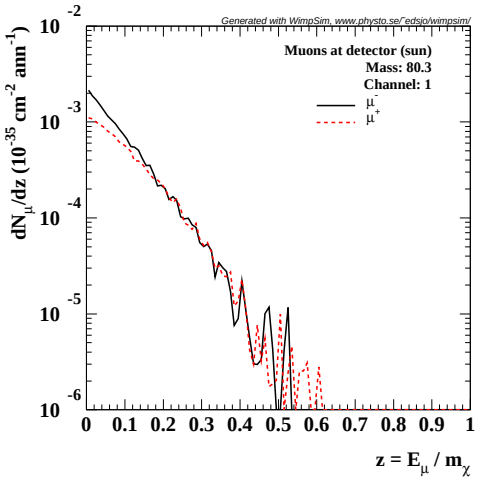


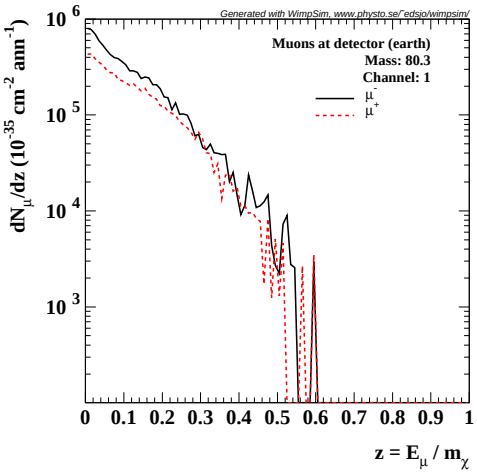
4.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





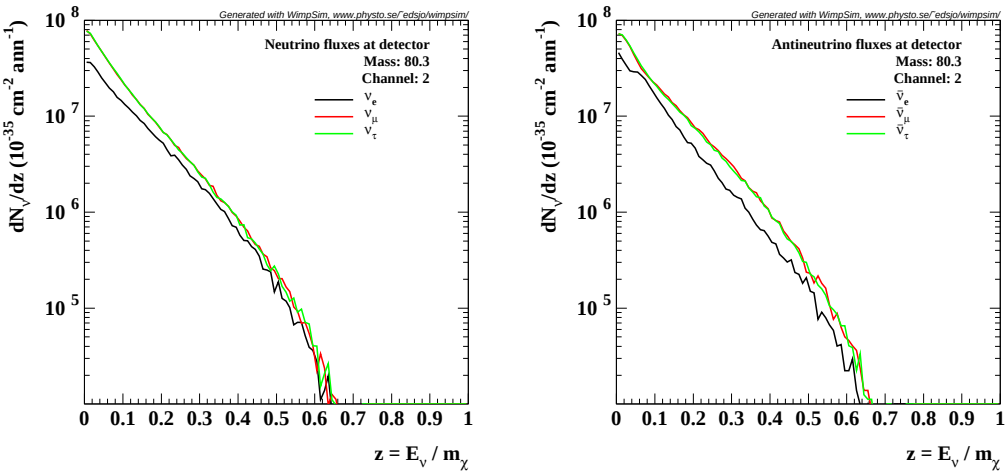
4.1.7 Muons at detector (Sun/Earth)



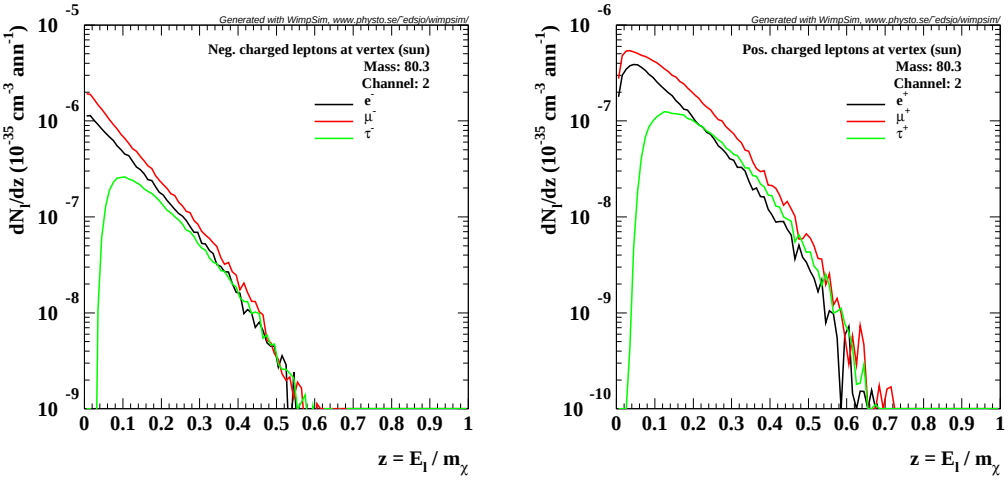


4.2 Channel 2 – $b\bar{b}$

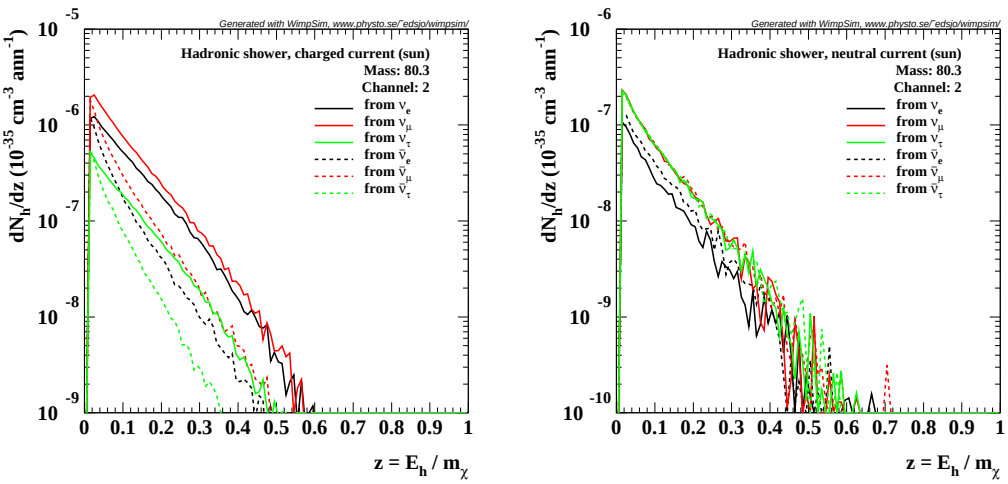
4.2.1 Neutrino fluxes at detector (Sun)



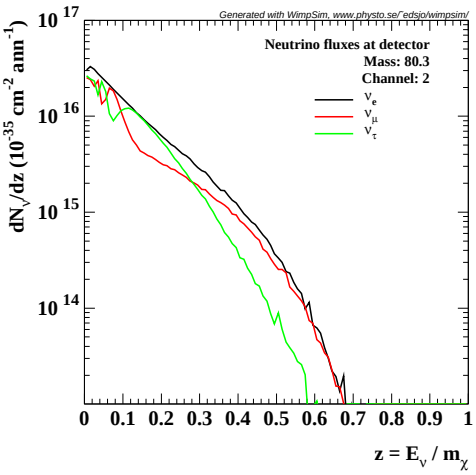
4.2.2 Charged leptons at neutrino-nucleon vertex (Sun)

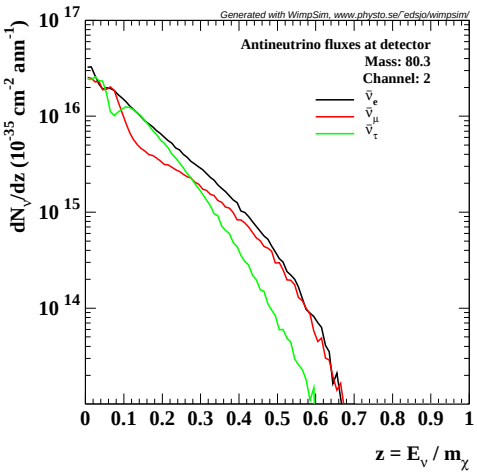


4.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)

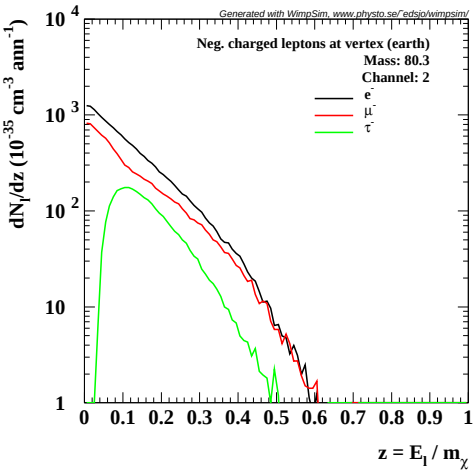


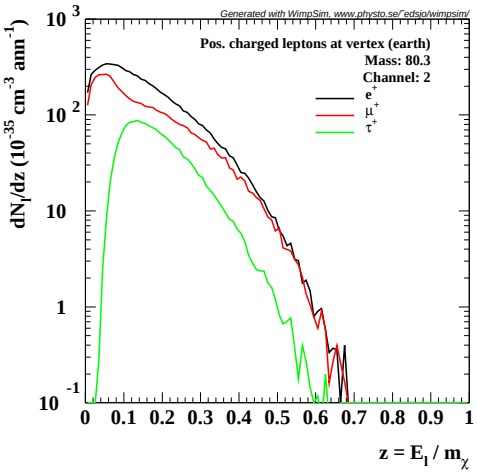
4.2.4 Neutrino fluxes at detector (Earth)



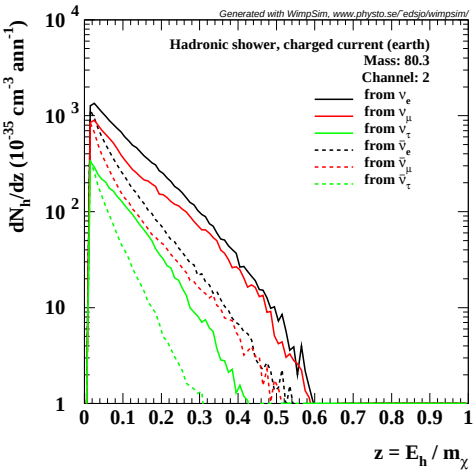


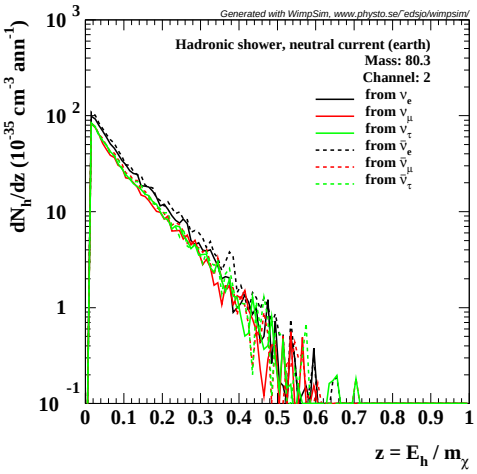
4.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



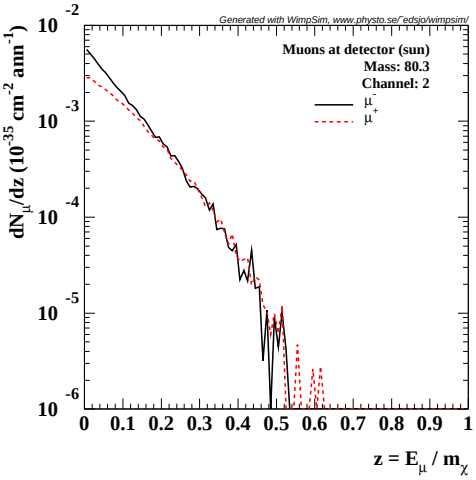


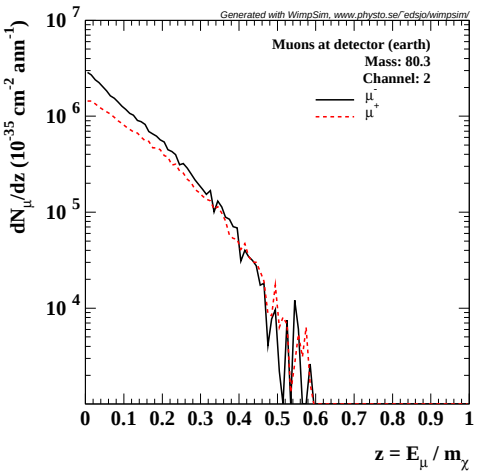
4.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





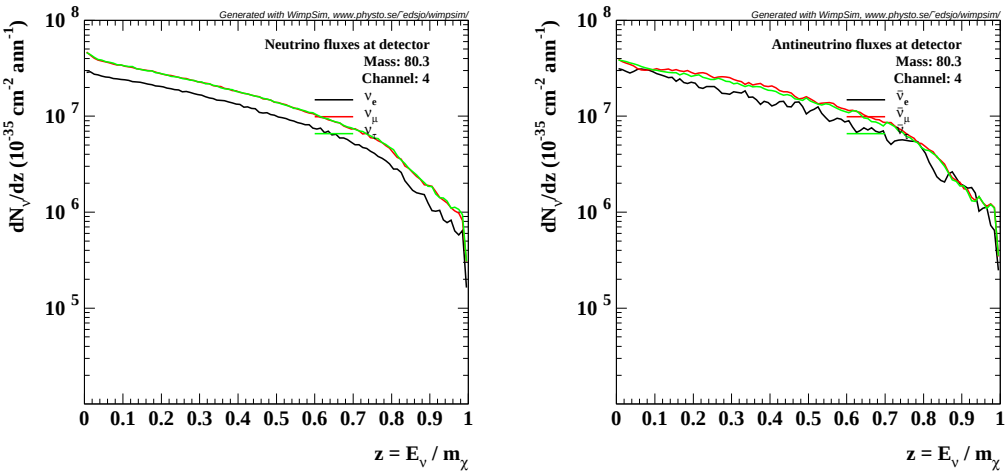
4.2.7 Muons at detector (Sun/Earth)



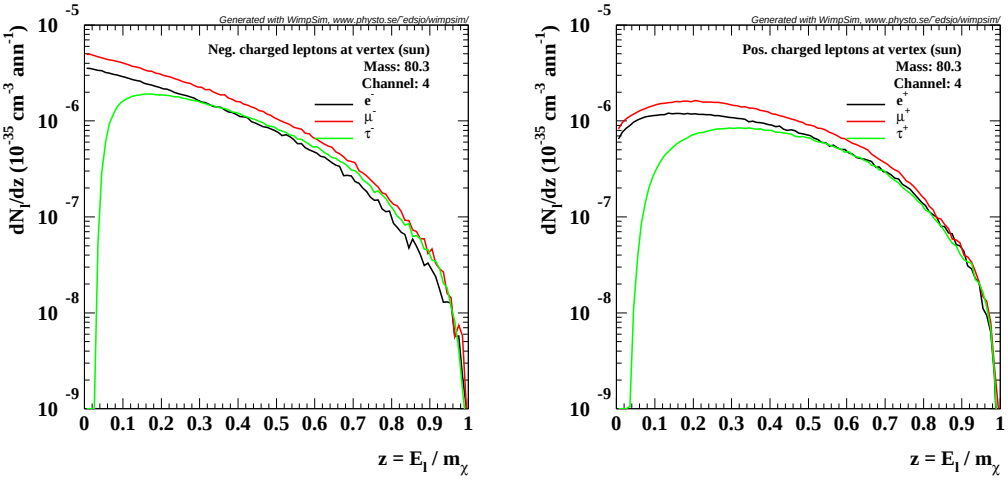


4.3 Channel 4 – $\tau^-\tau^+$

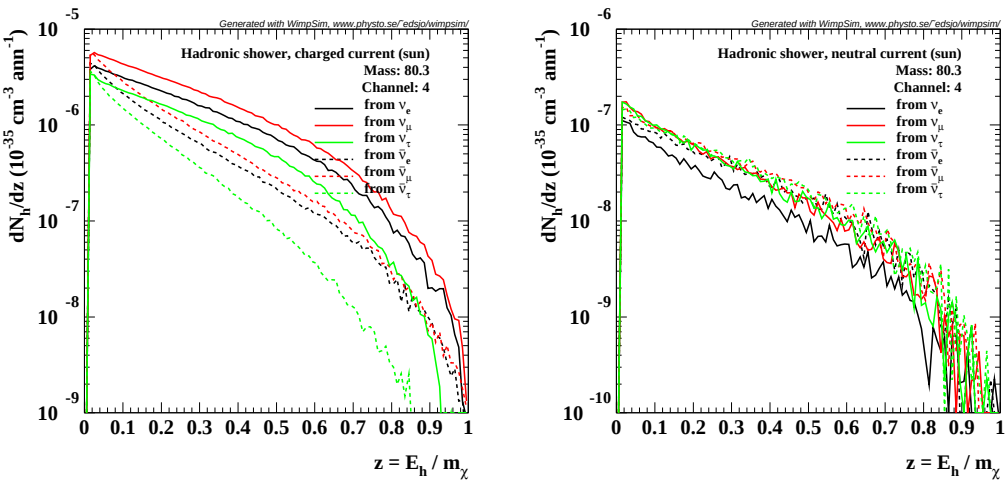
4.3.1 Neutrino fluxes at detector (Sun)



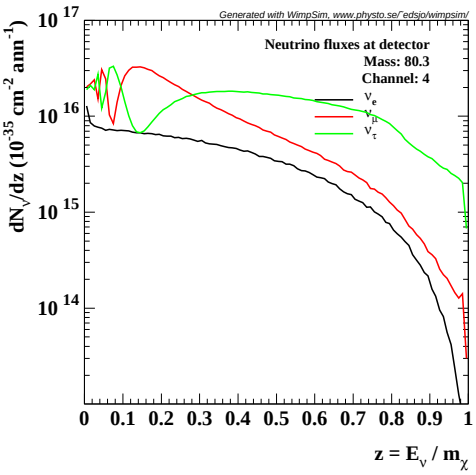
4.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

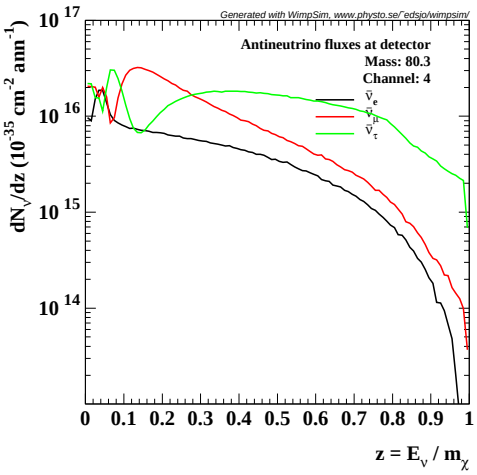


4.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

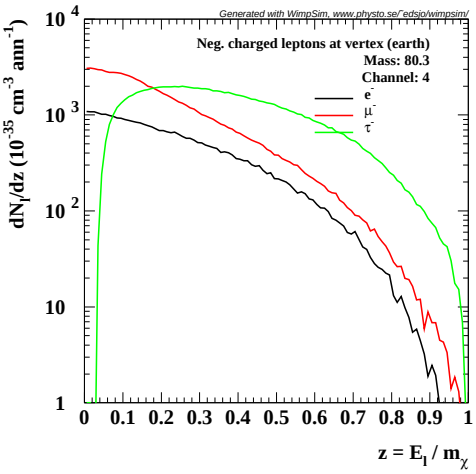


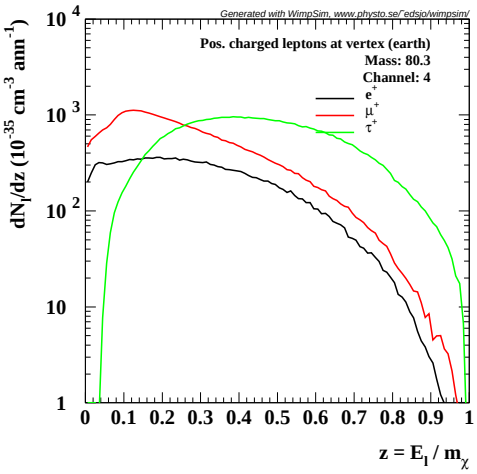
4.3.4 Neutrino fluxes at detector (Earth)



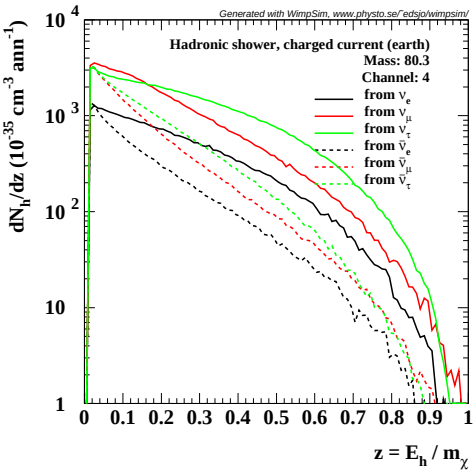


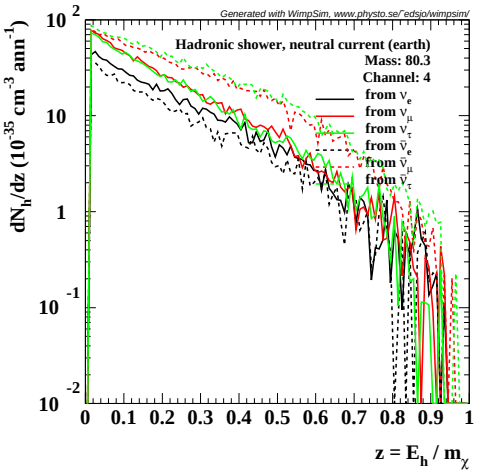
4.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



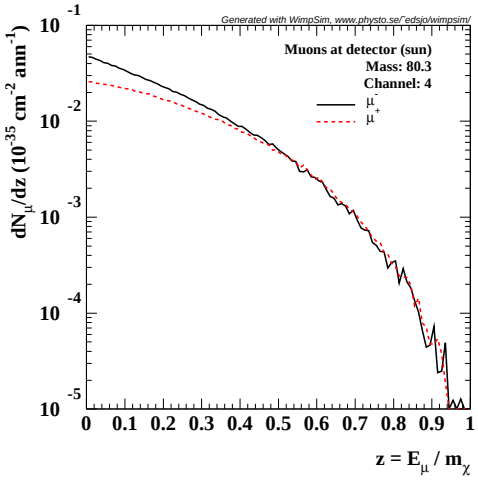


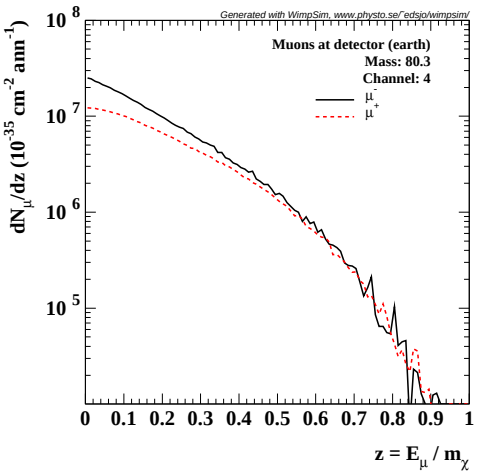
4.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





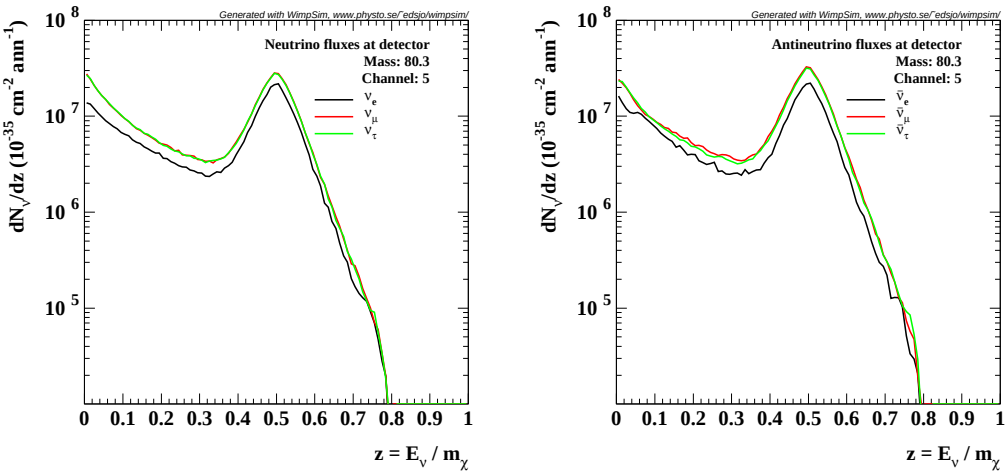
4.3.7 Muons at detector (Sun/Earth)



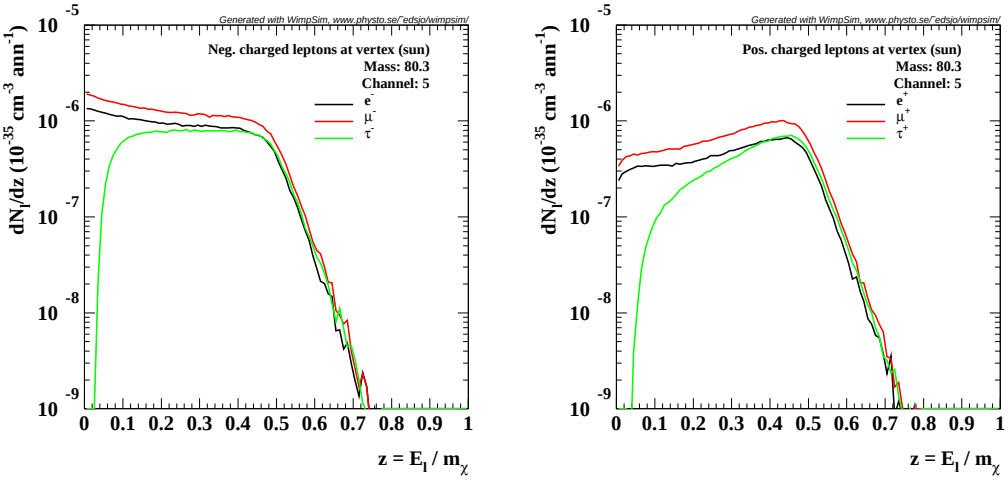


4.4 Channel 5 – W^-W^+

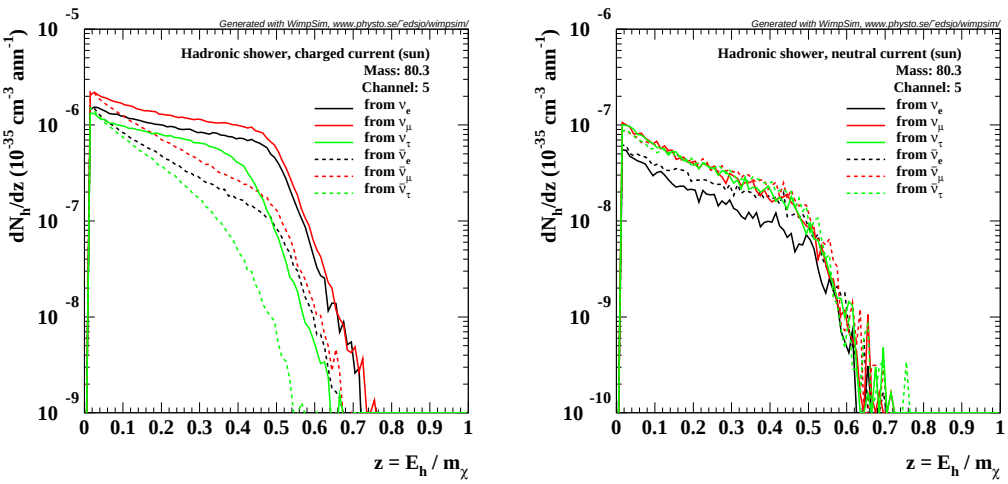
4.4.1 Neutrino fluxes at detector (Sun)



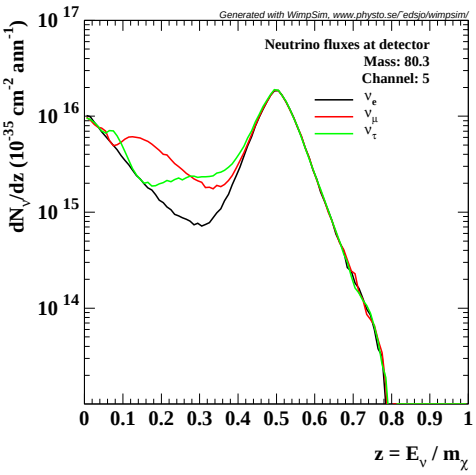
4.4.2 Charged leptons at neutrino-nucleon vertex (Sun)

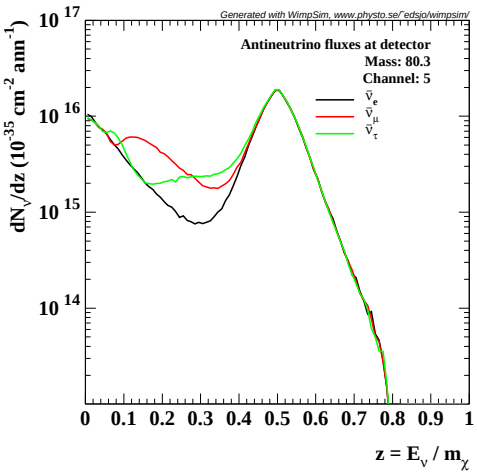


4.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

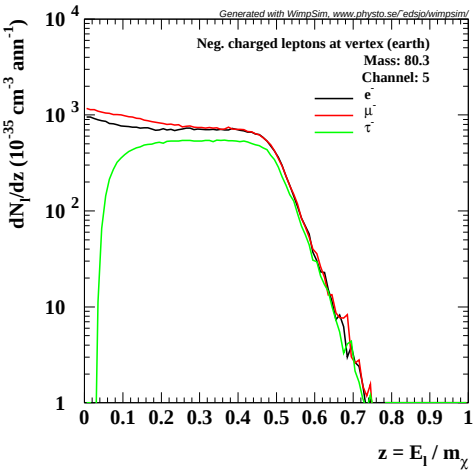


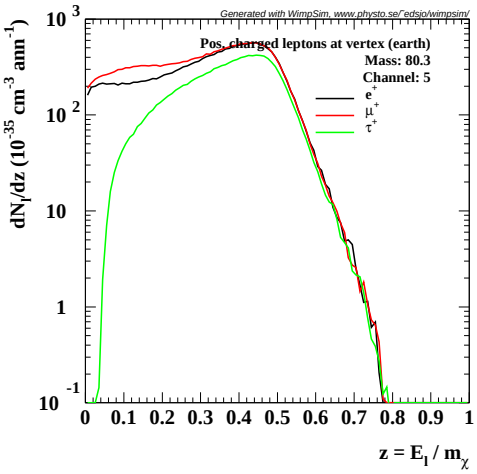
4.4.4 Neutrino fluxes at detector (Earth)



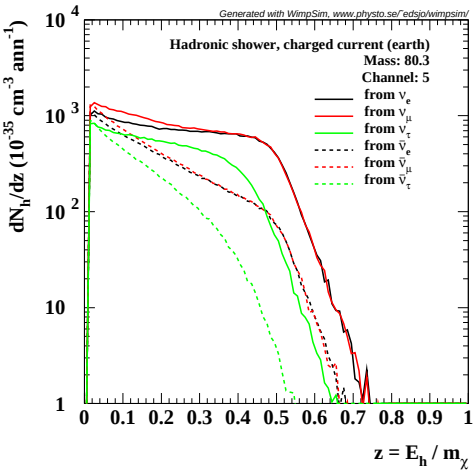


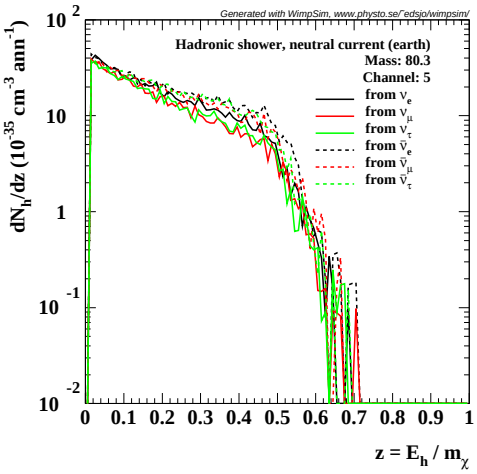
4.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



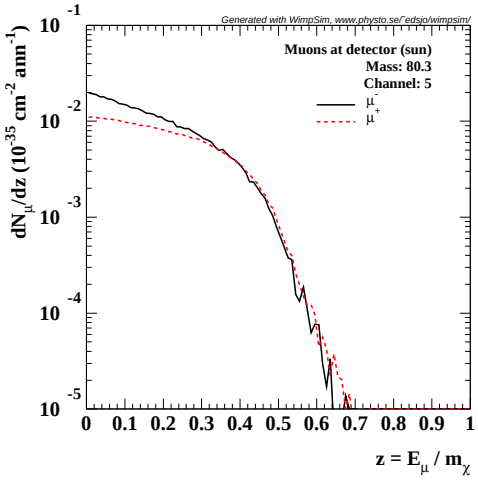


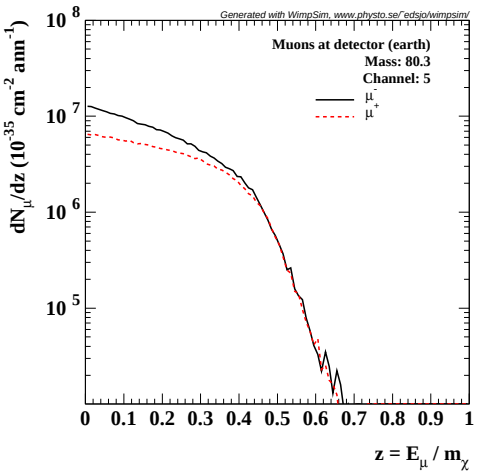
4.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





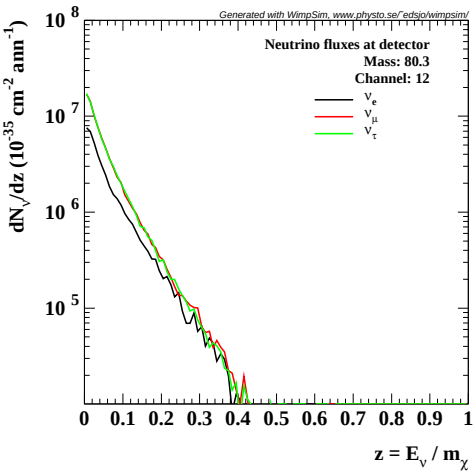
4.4.7 Muons at detector (Sun/Earth)

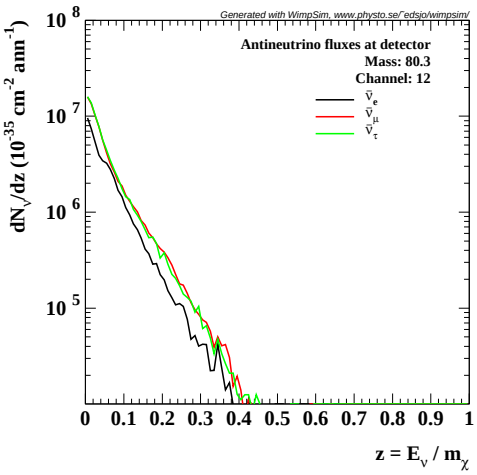




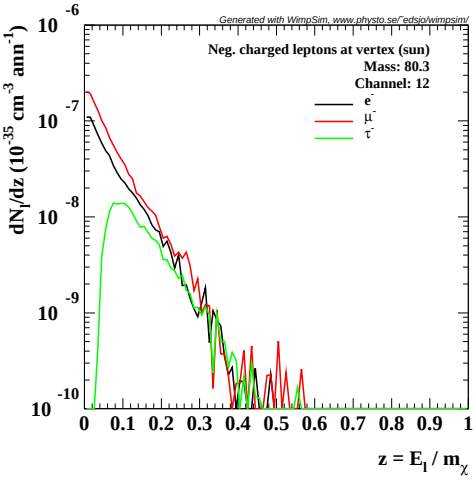
4.5 Channel 12 – gg

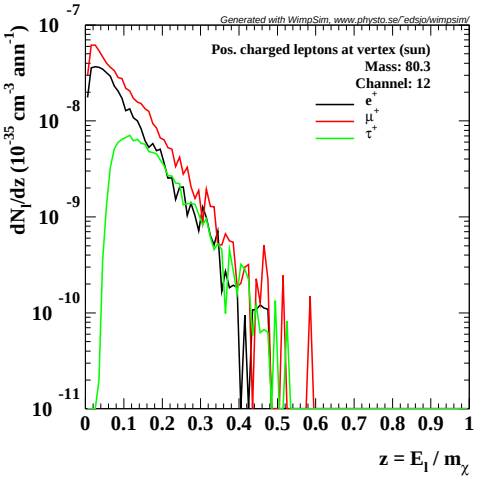
4.5.1 Neutrino fluxes at detector (Sun)



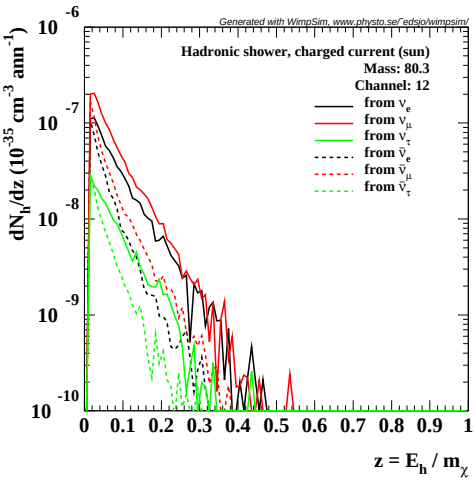


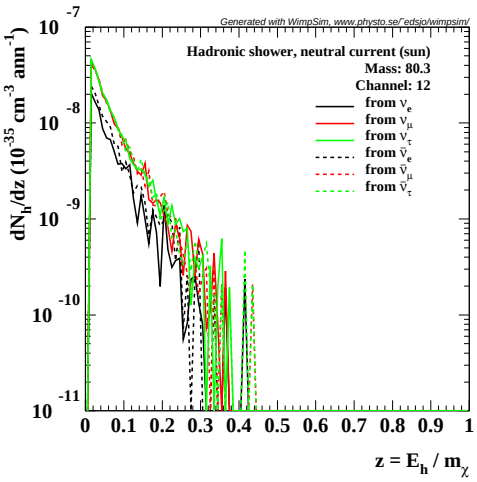
4.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



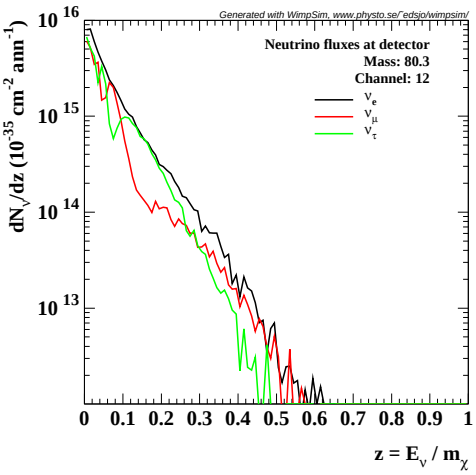


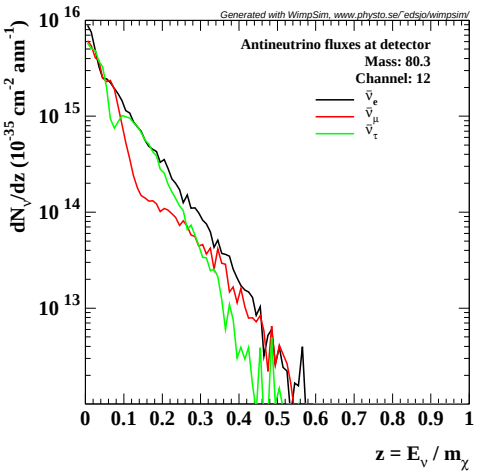
4.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



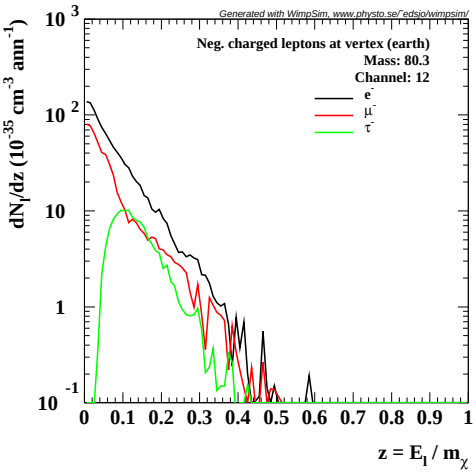


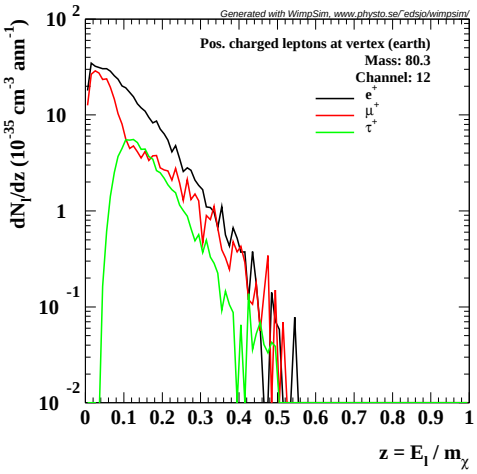
4.5.4 Neutrino fluxes at detector (Earth)



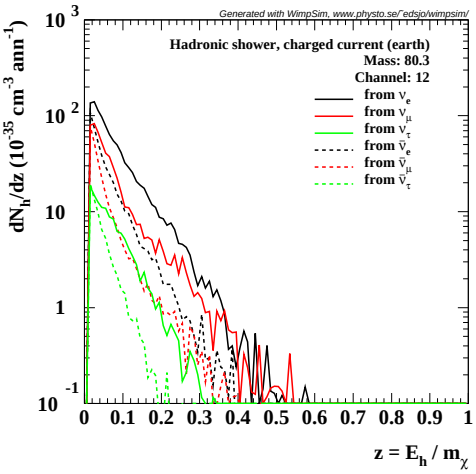


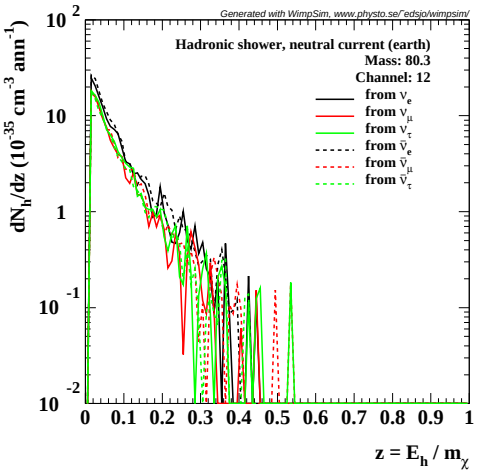
4.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



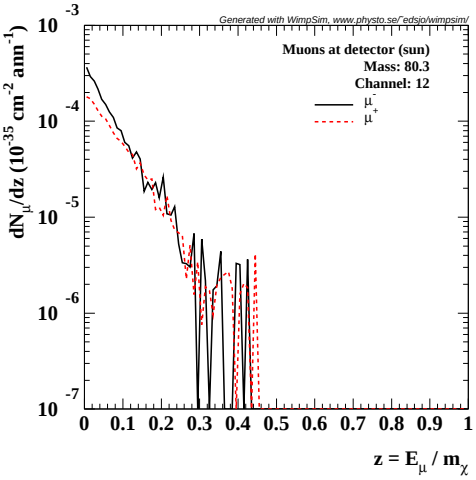


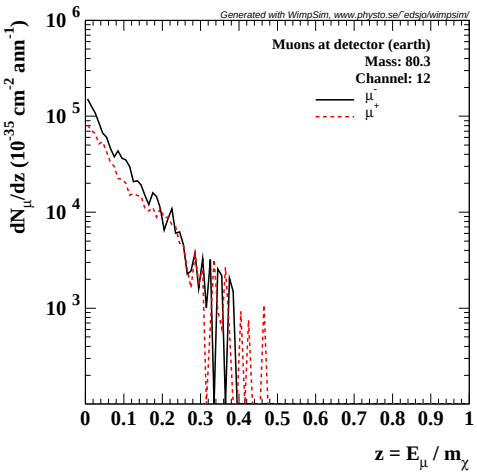
4.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





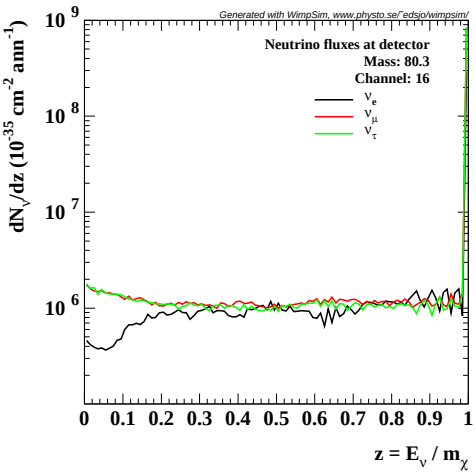
4.5.7 Muons at detector (Sun/Earth)

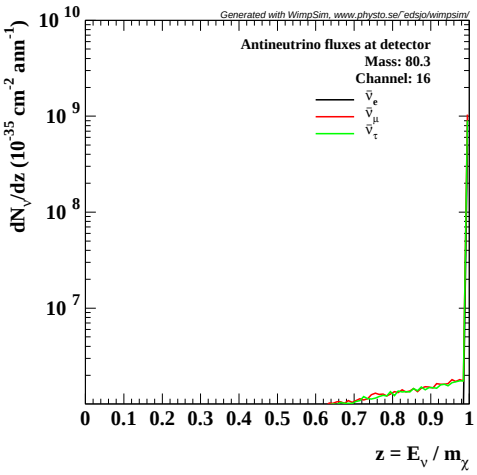




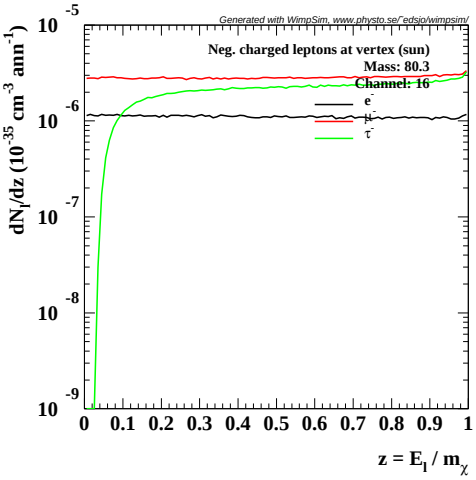
4.6 Channel 16 – $\nu_e\bar{\nu}_e$

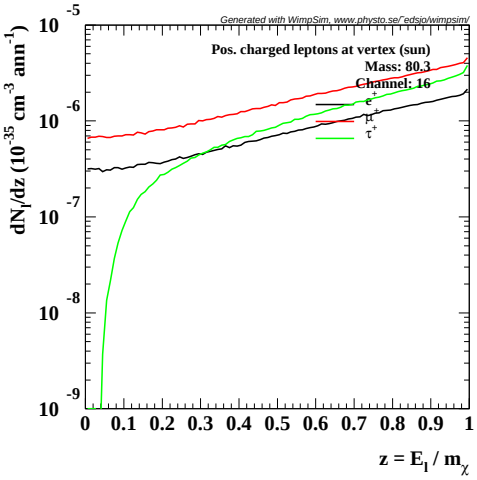
4.6.1 Neutrino fluxes at detector (Sun)



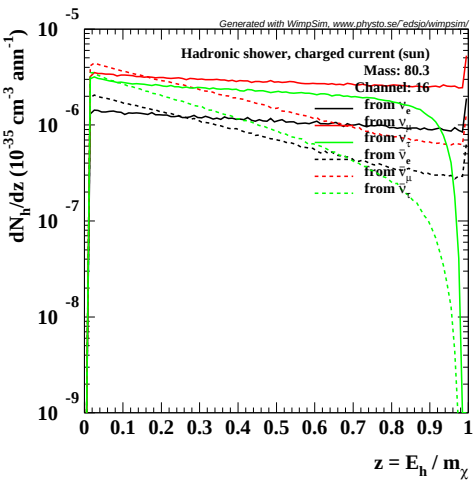


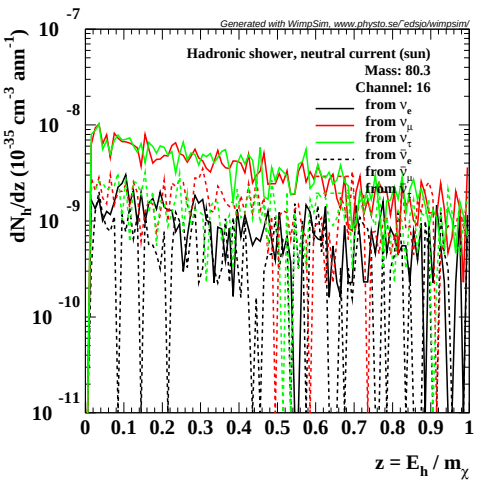
4.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



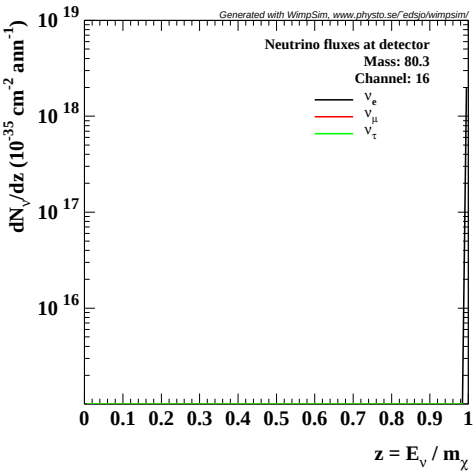


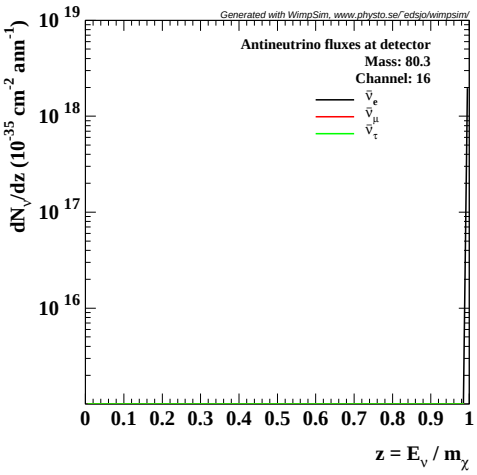
4.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



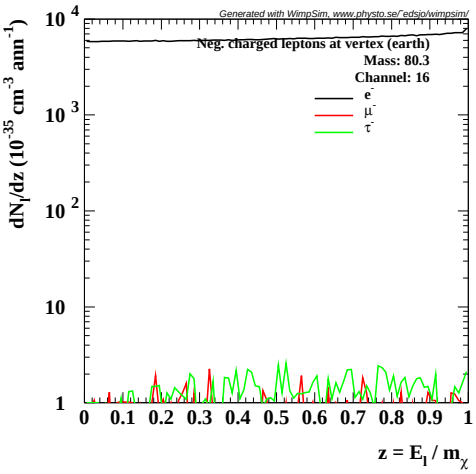


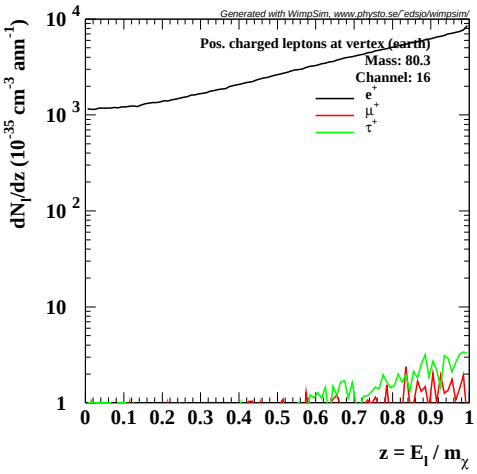
4.6.4 Neutrino fluxes at detector (Earth)



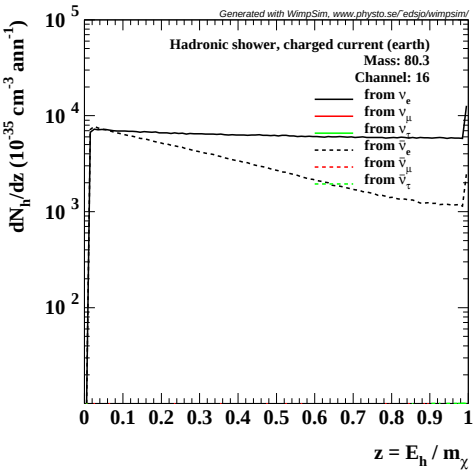


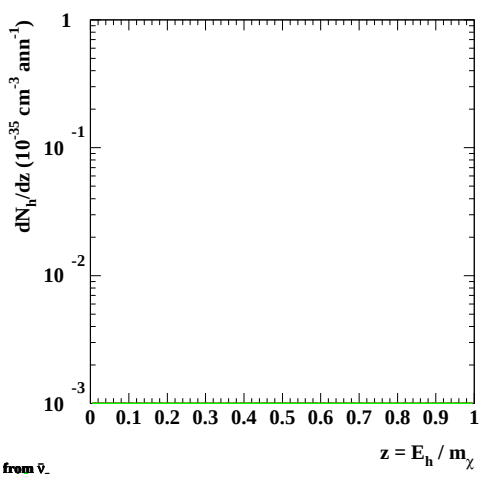
4.6.5 Charged leptons at neutrino-nucleon vertex (Earth)





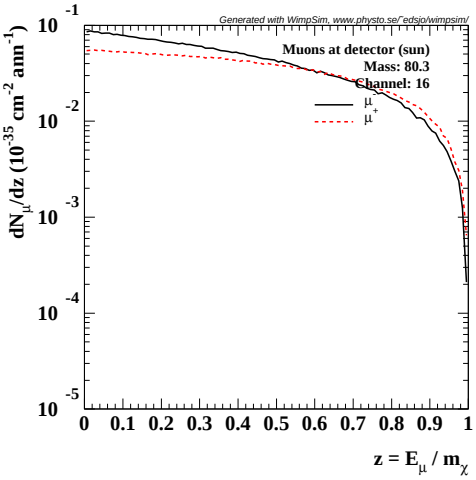
4.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)

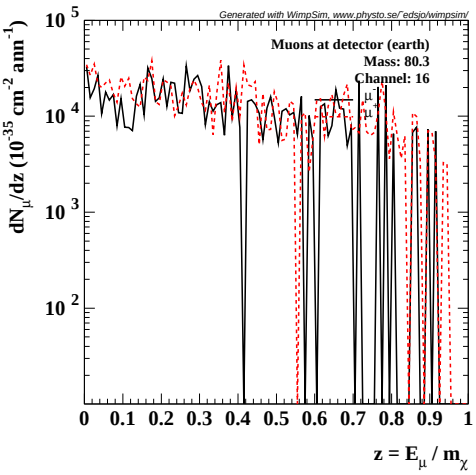




from $\bar{\nu}_\tau$

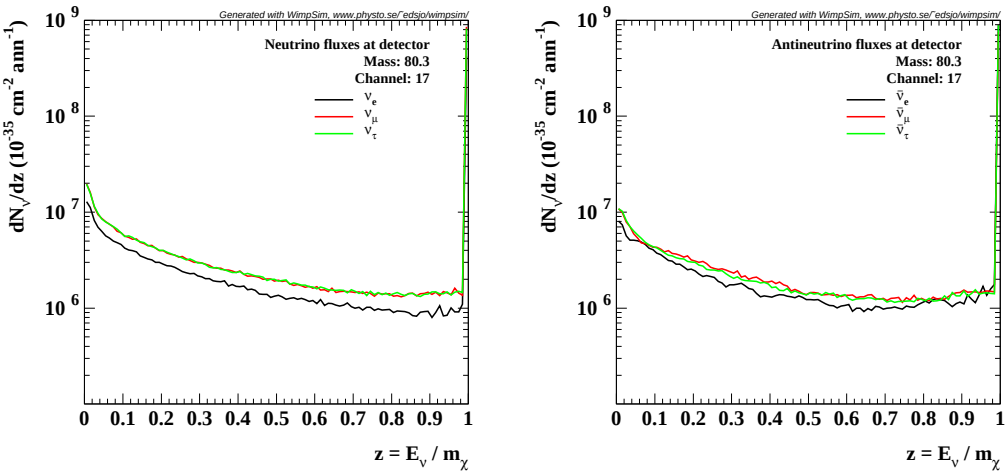
4.6.7 Muons at detector (Sun/Earth)



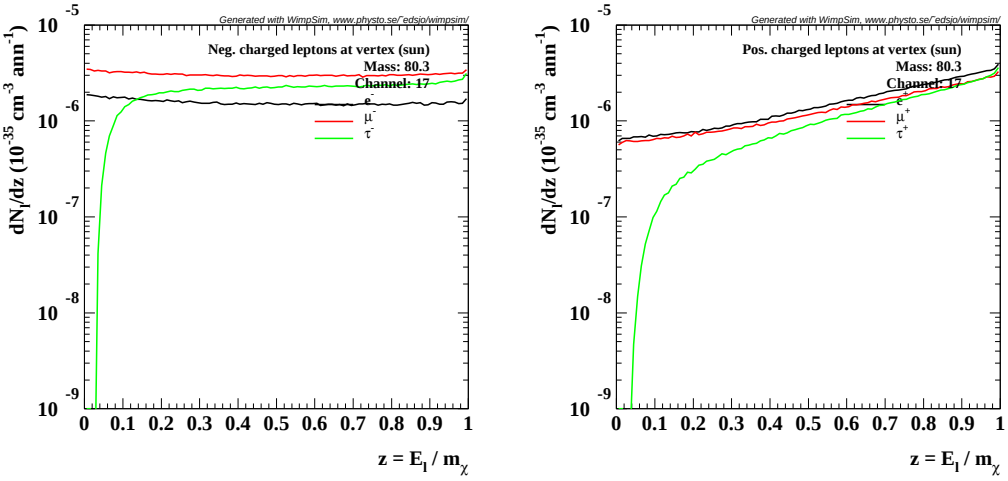


4.7 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

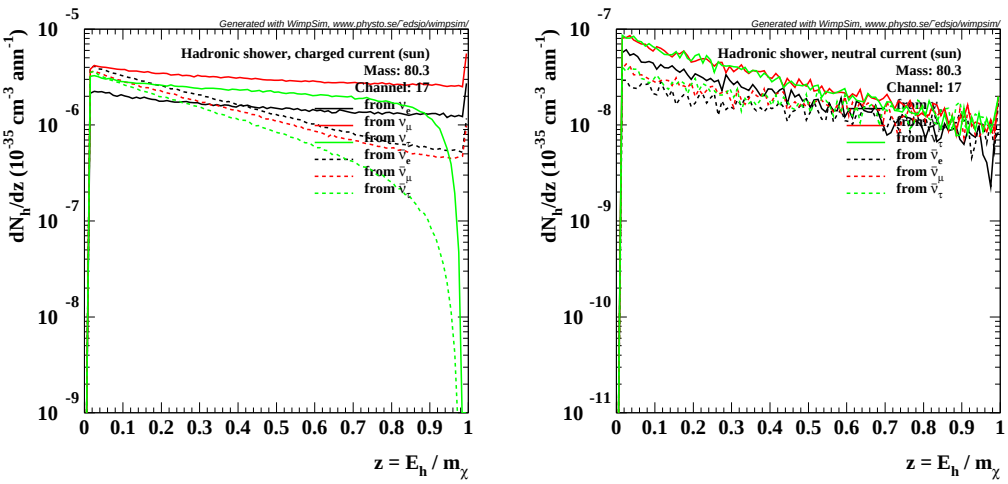
4.7.1 Neutrino fluxes at detector (Sun)



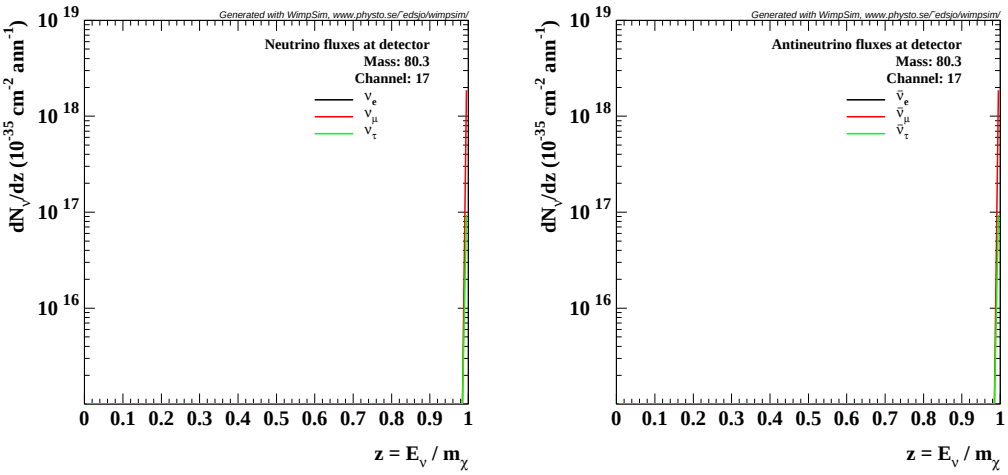
4.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



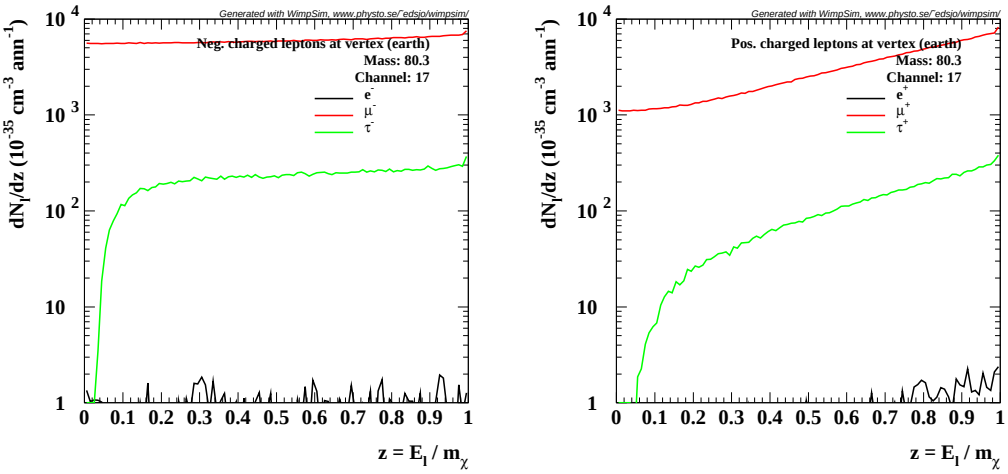
4.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



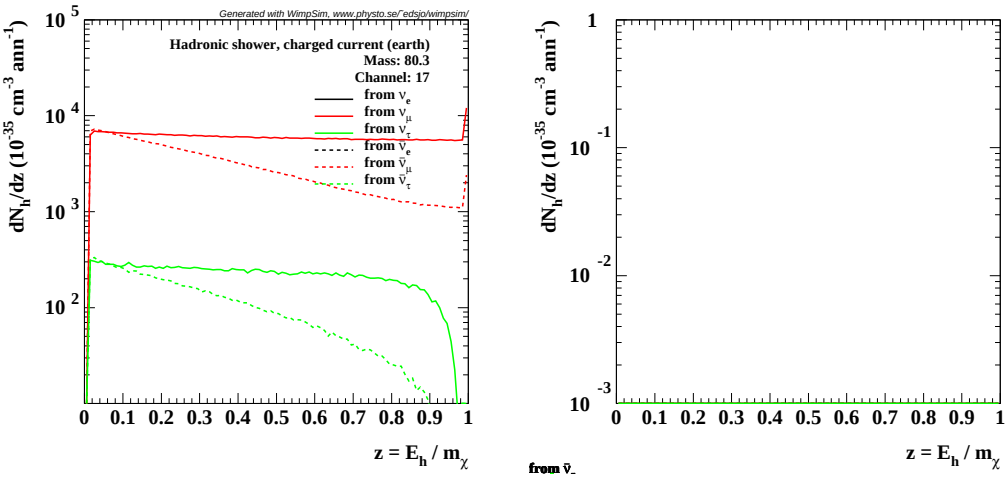
4.7.4 Neutrino fluxes at detector (Earth)



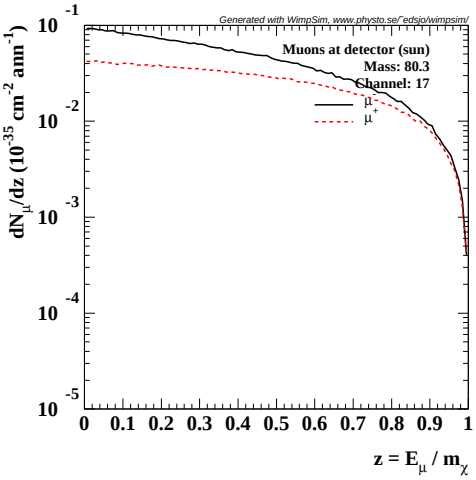
4.7.5 Charged leptons at neutrino-nucleon vertex (Earth)

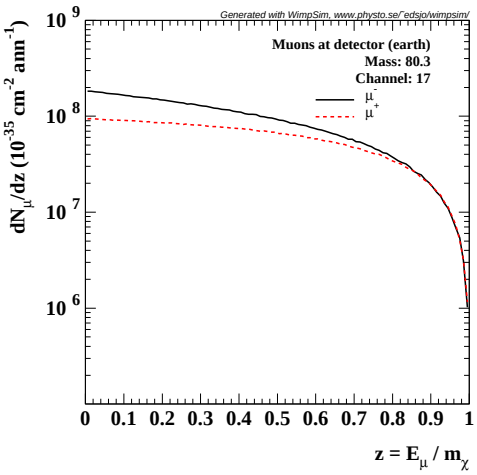


4.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)



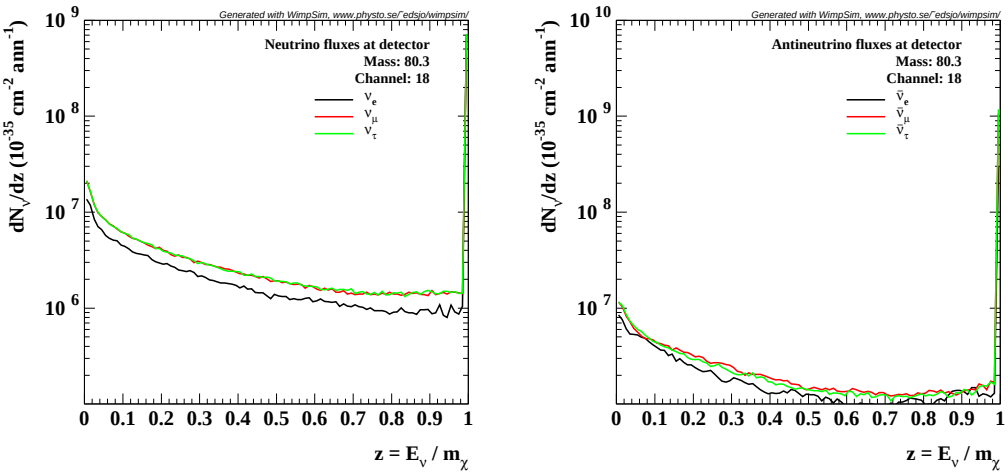
4.7.7 Muons at detector (Sun/Earth)



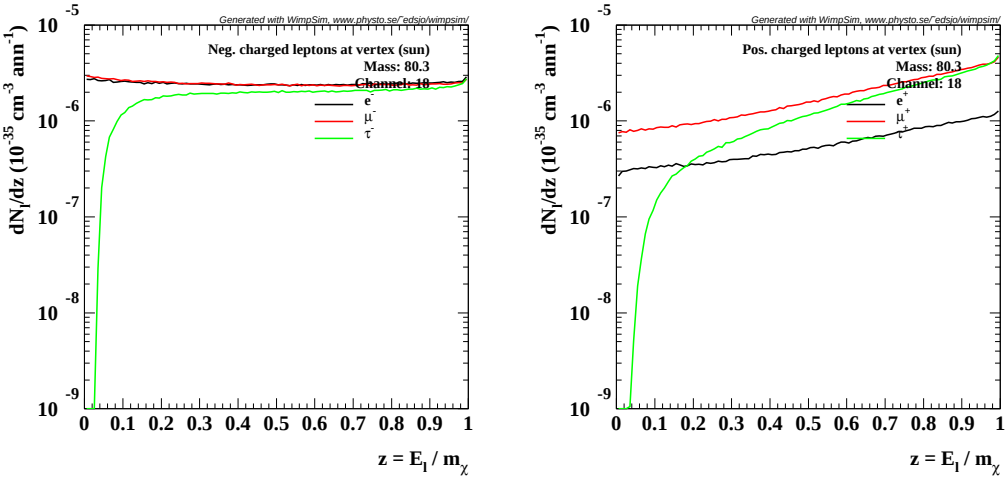


4.8 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

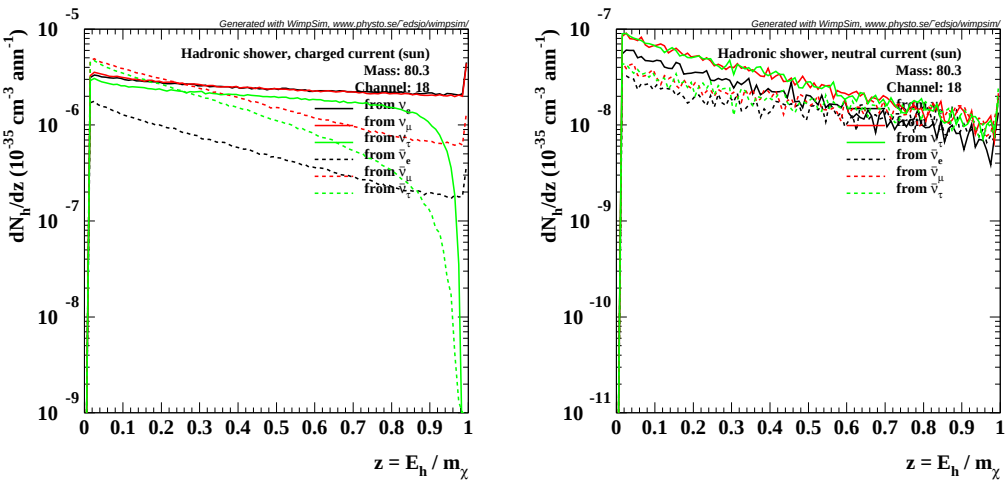
4.8.1 Neutrino fluxes at detector (Sun)



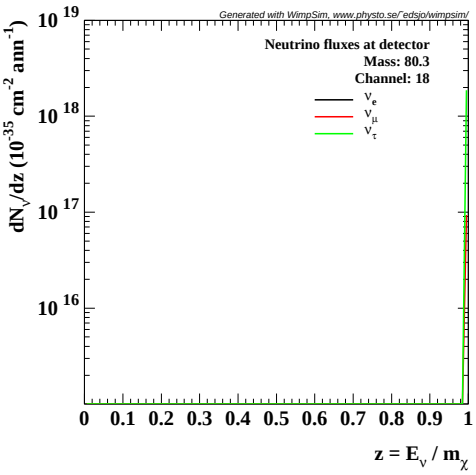
4.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

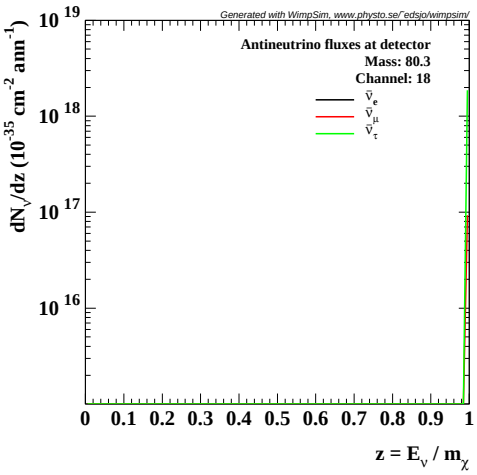


4.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

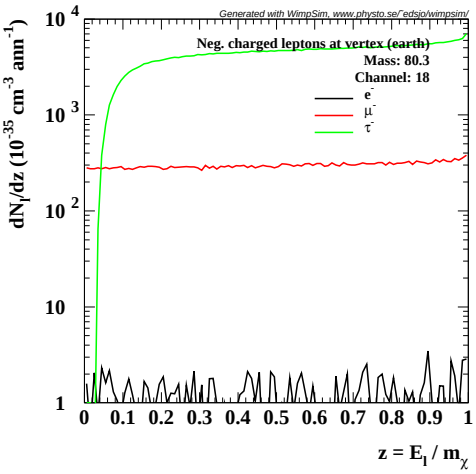


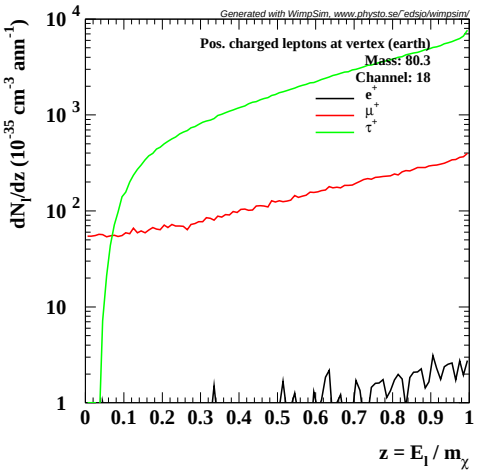
4.8.4 Neutrino fluxes at detector (Earth)



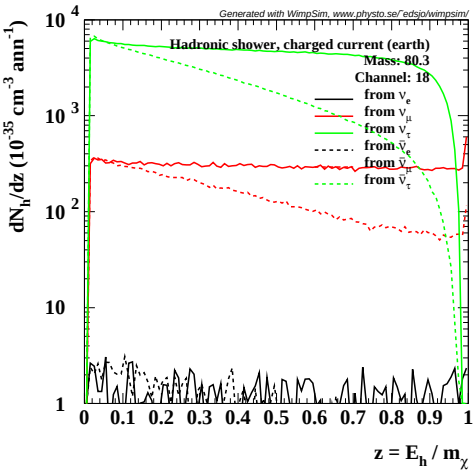


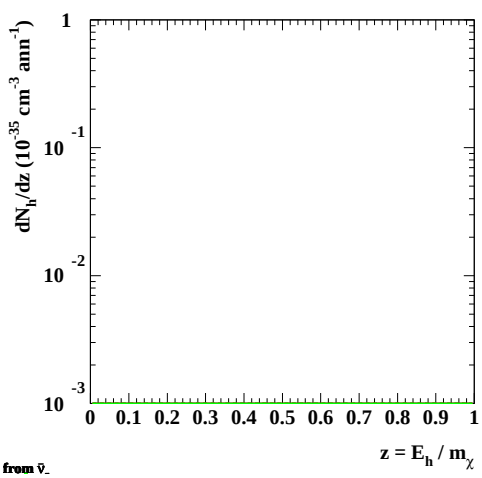
4.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





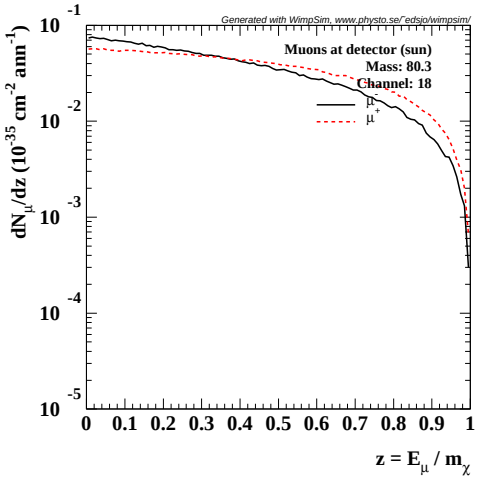
4.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

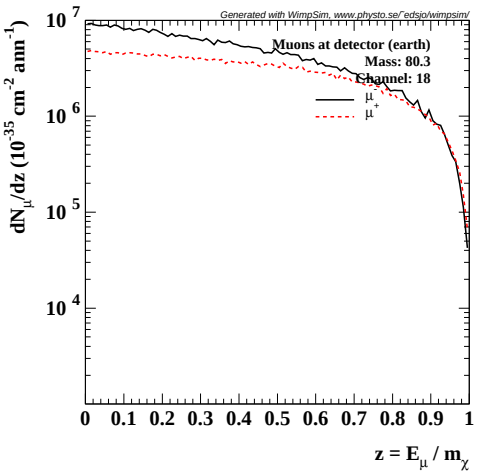




from $\bar{\nu}_\tau$

4.8.7 Muons at detector (Sun/Earth)

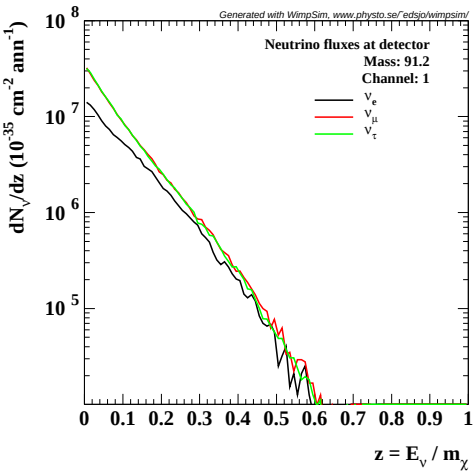


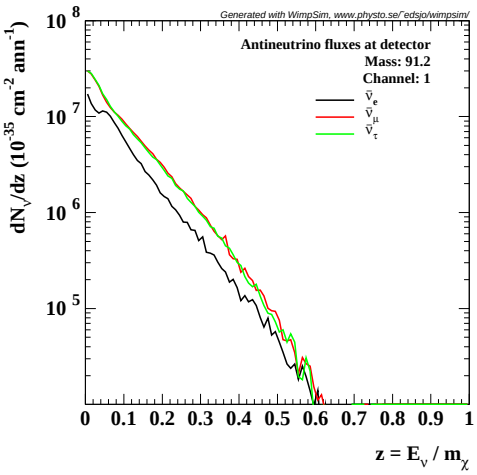


5 Mass 91.2

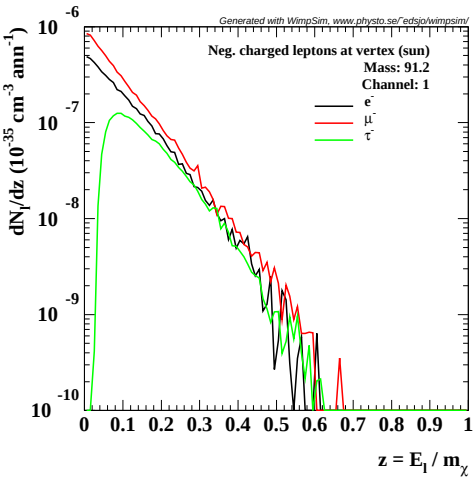
5.1 Channel 1 – $c\bar{c}$

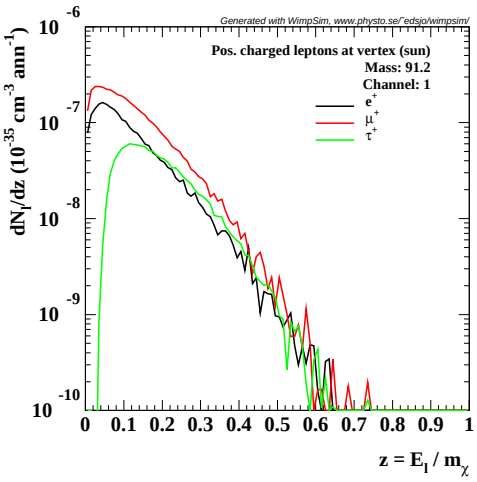
5.1.1 Neutrino fluxes at detector (Sun)



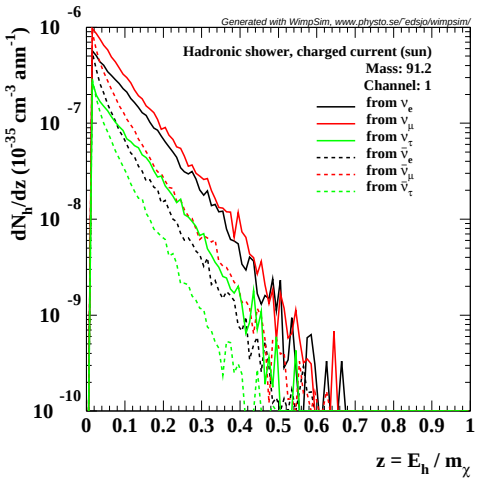


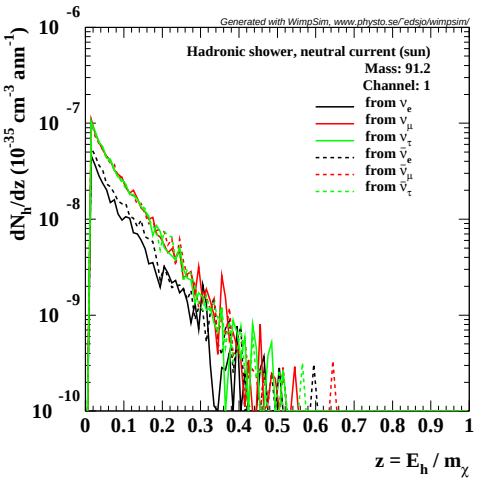
5.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



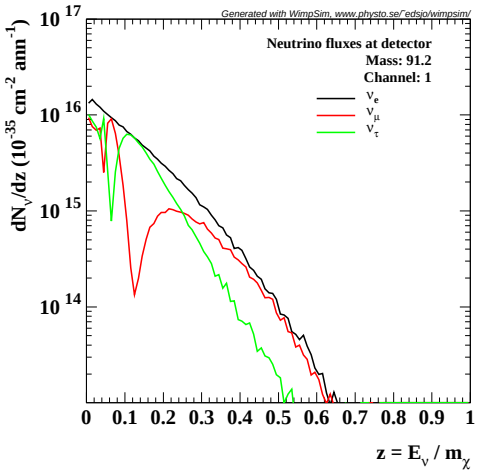


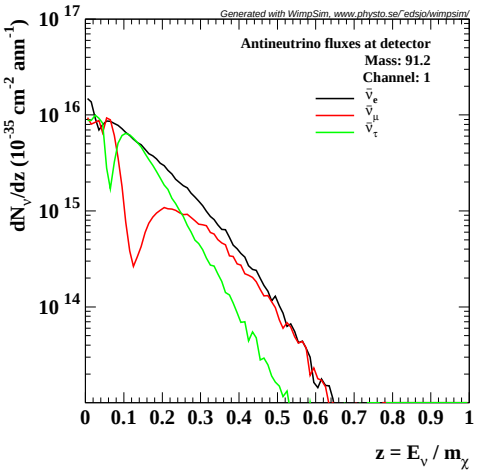
5.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



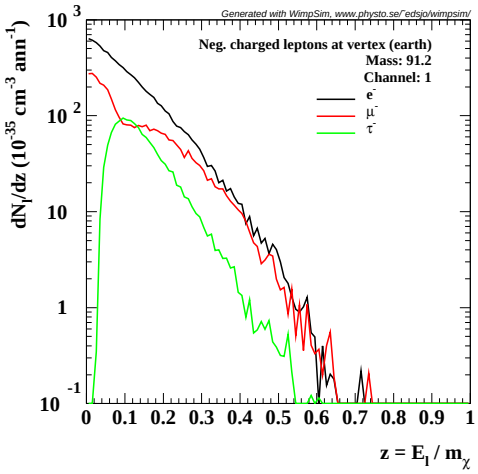


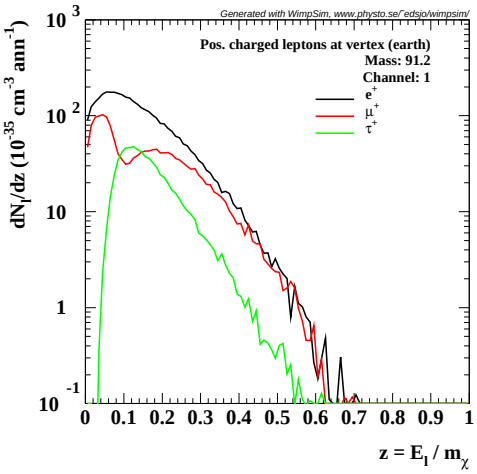
5.1.4 Neutrino fluxes at detector (Earth)



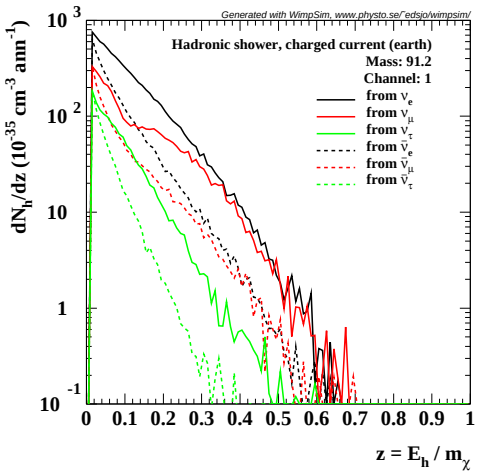


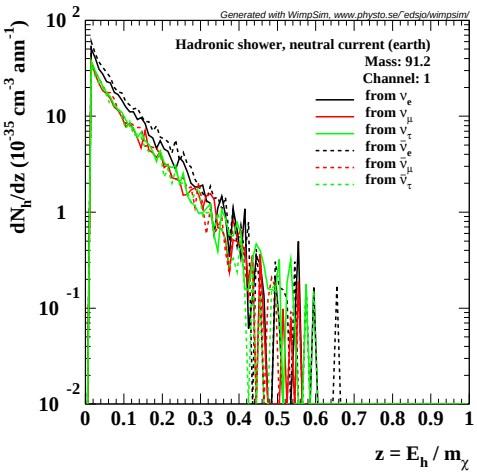
5.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



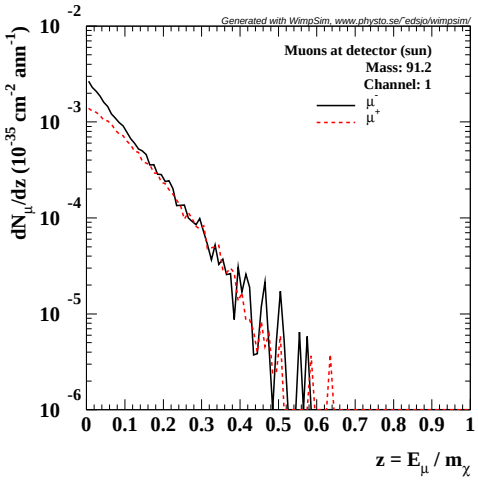


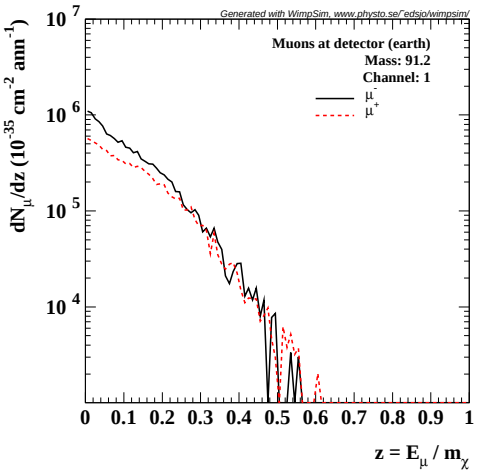
5.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





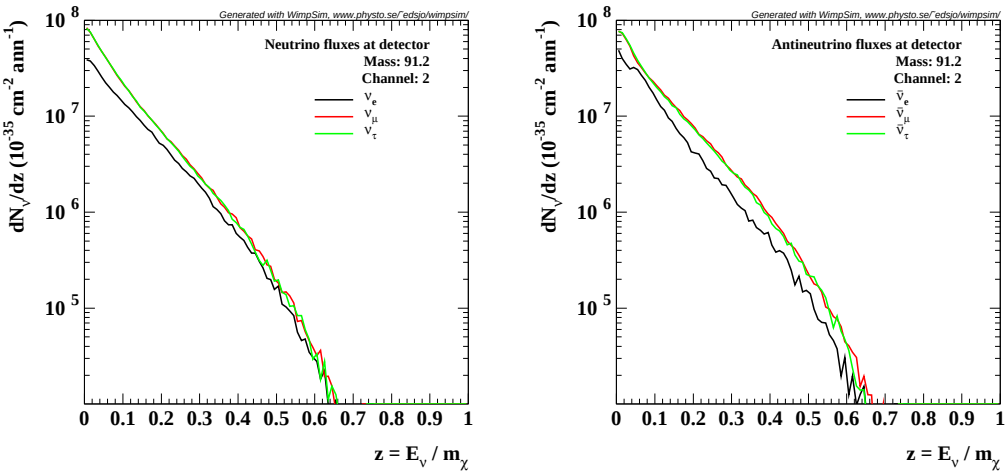
5.1.7 Muons at detector (Sun/Earth)



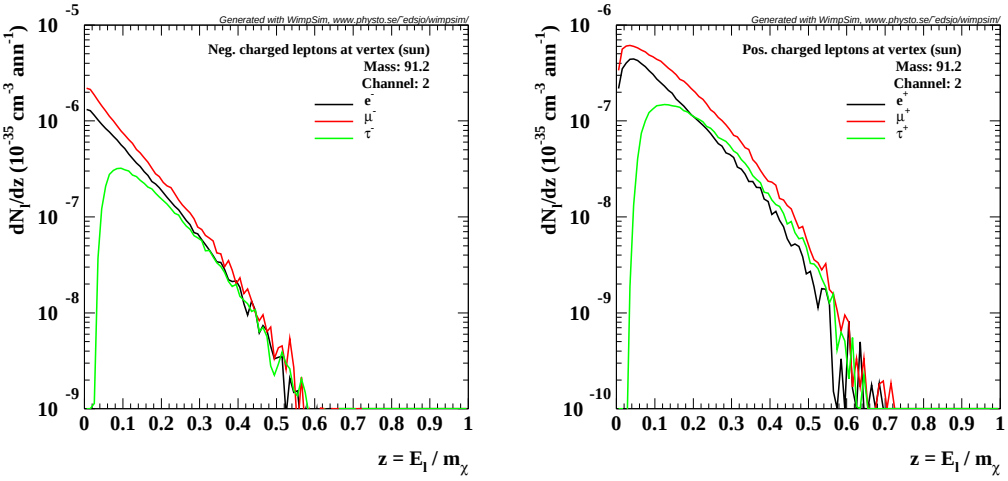


5.2 Channel 2 – $b\bar{b}$

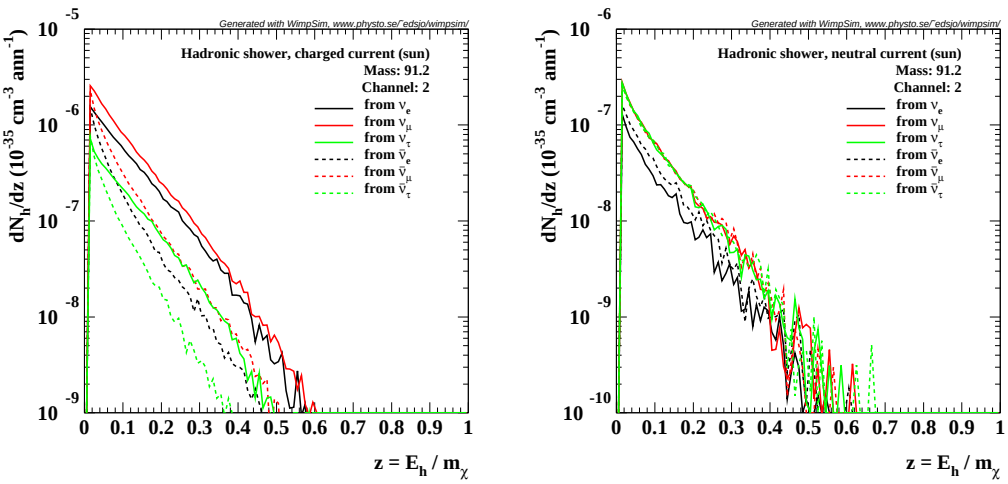
5.2.1 Neutrino fluxes at detector (Sun)



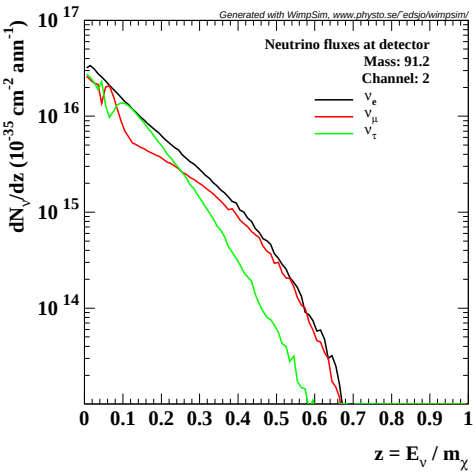
5.2.2 Charged leptons at neutrino-nucleon vertex (Sun)

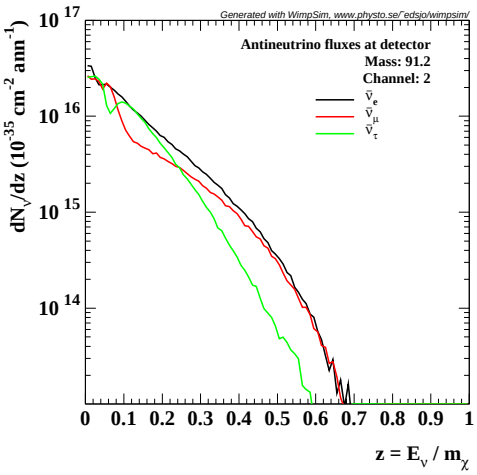


5.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)

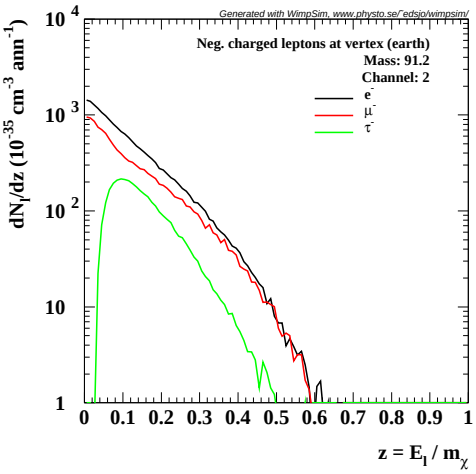


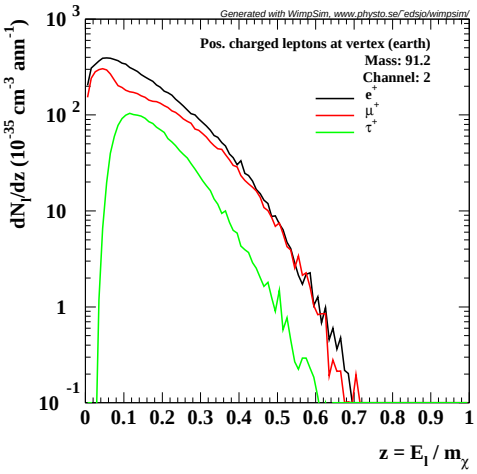
5.2.4 Neutrino fluxes at detector (Earth)



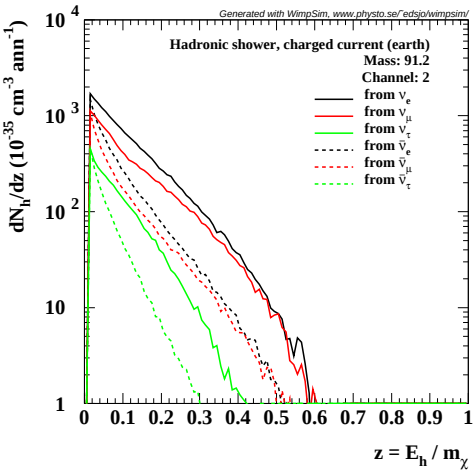


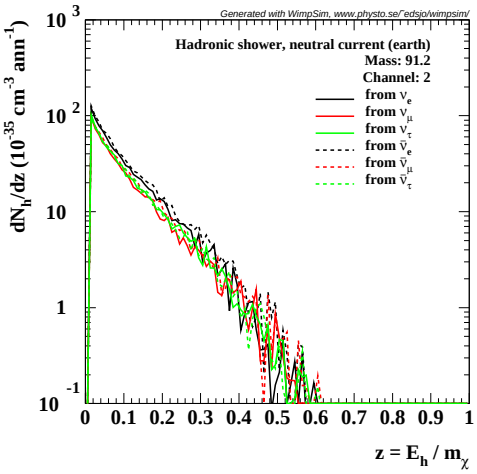
5.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



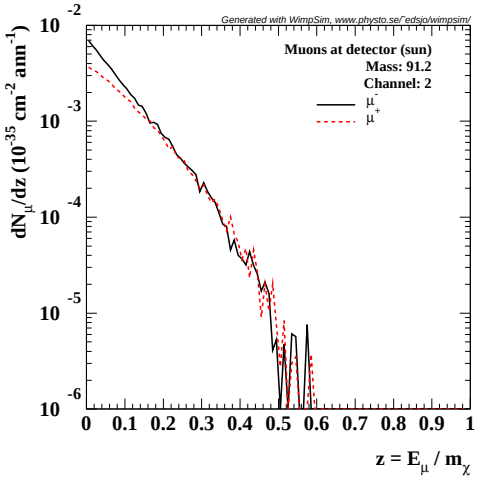


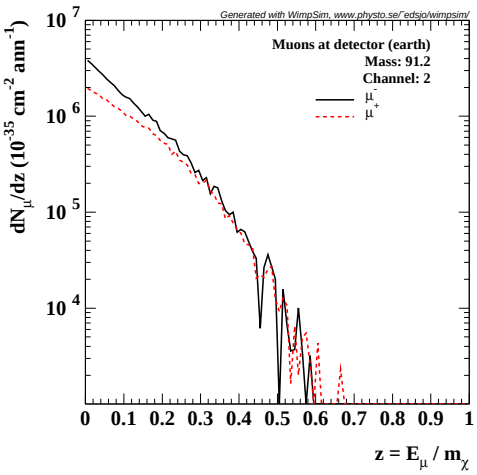
5.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





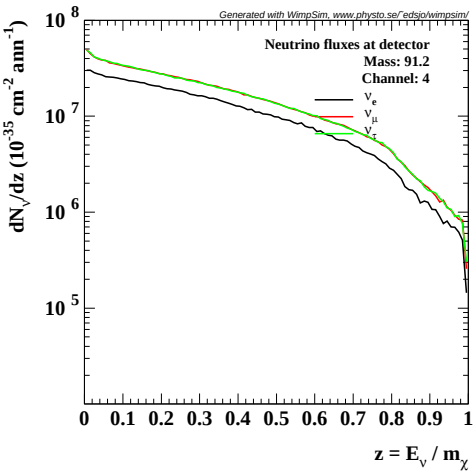
5.2.7 Muons at detector (Sun/Earth)

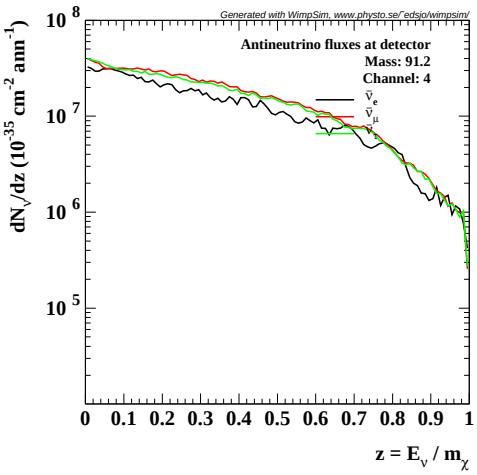




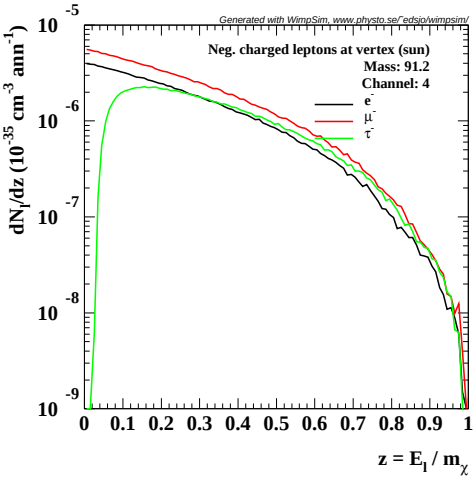
5.3 Channel 4 – $\tau^-\tau^+$

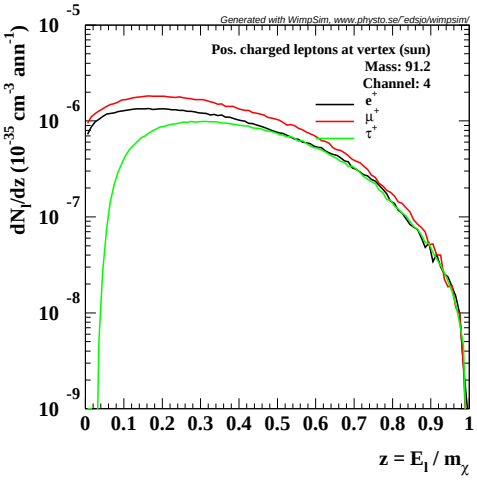
5.3.1 Neutrino fluxes at detector (Sun)



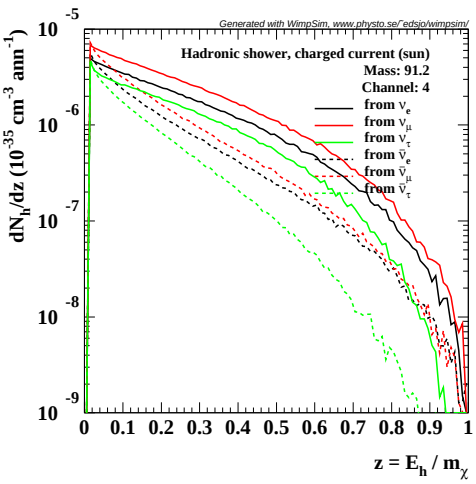


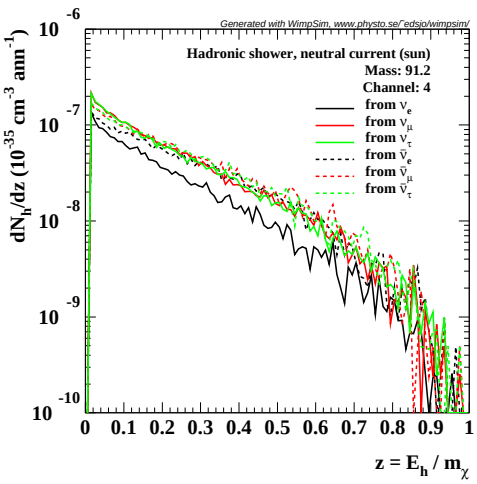
5.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



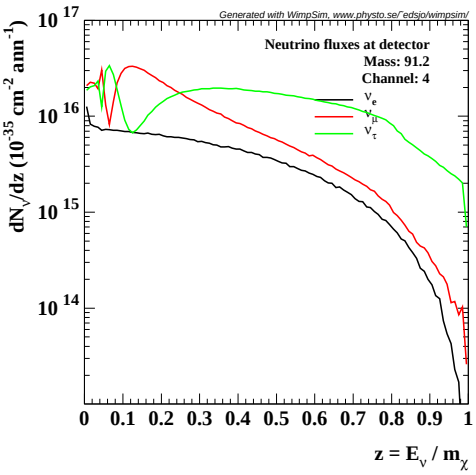


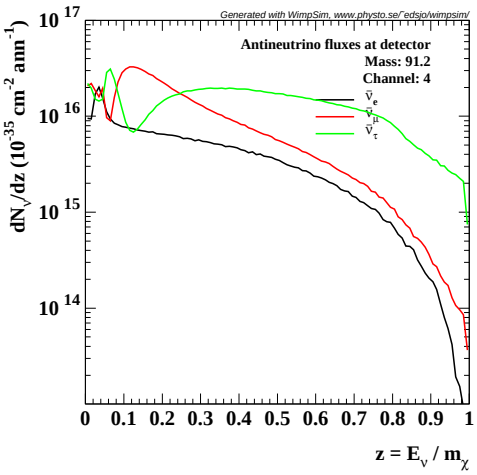
5.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



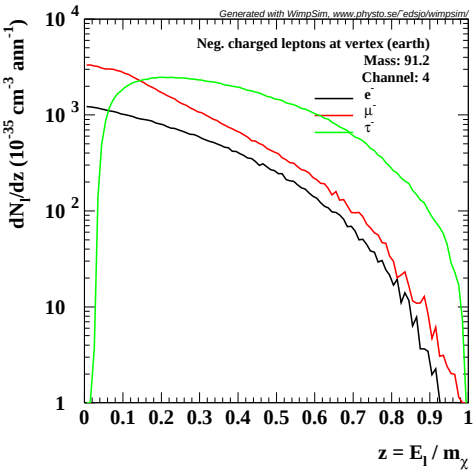


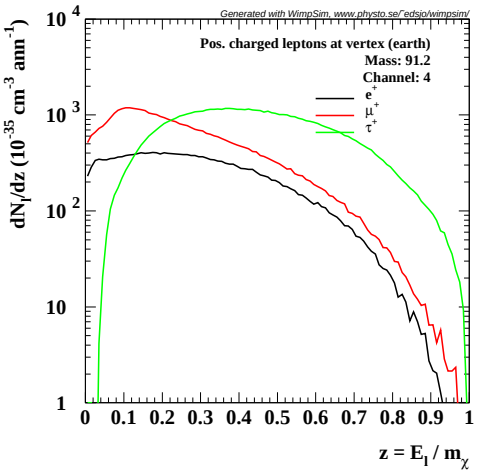
5.3.4 Neutrino fluxes at detector (Earth)



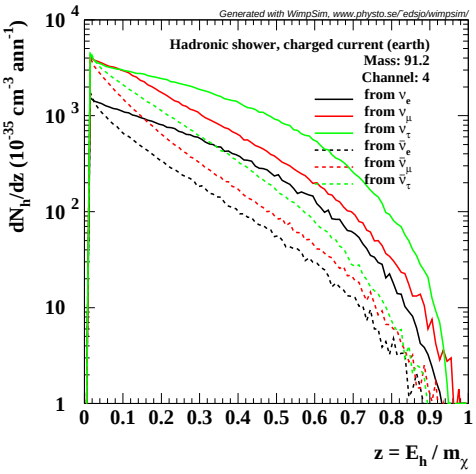


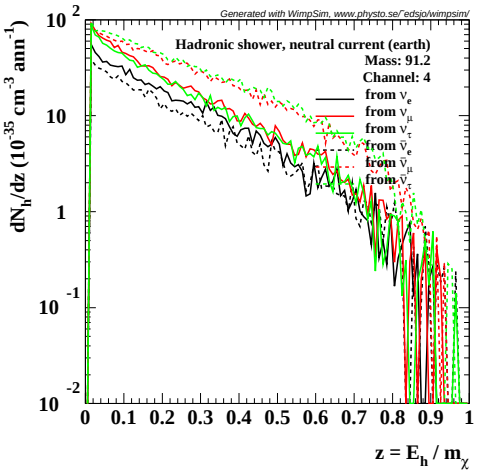
5.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



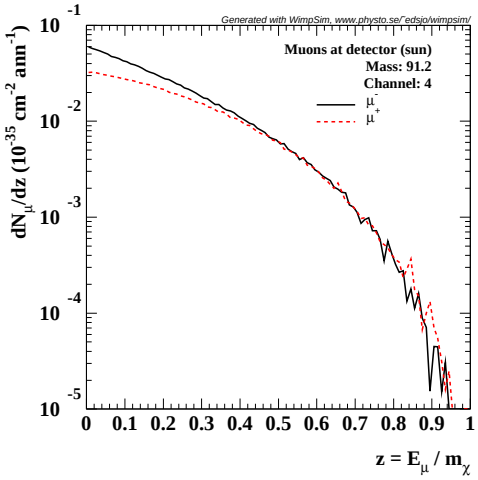


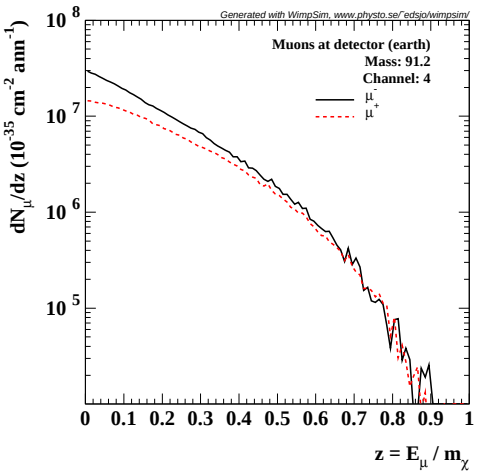
5.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





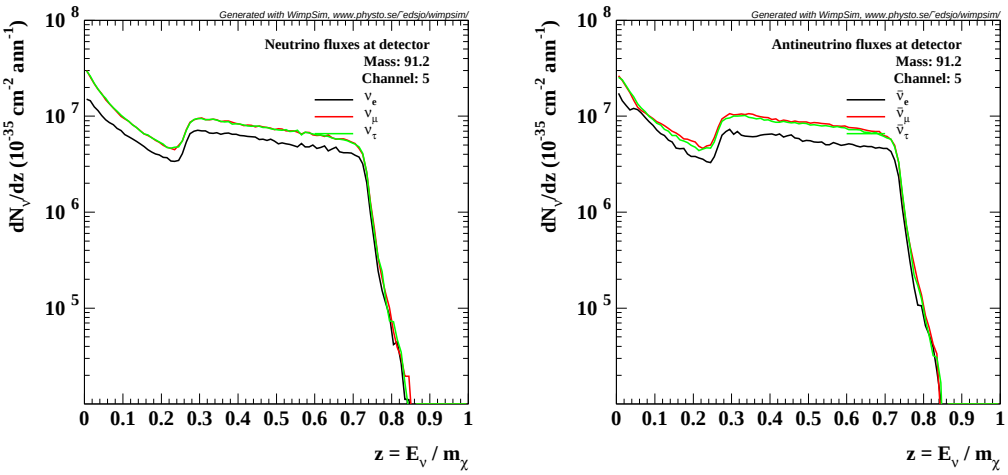
5.3.7 Muons at detector (Sun/Earth)



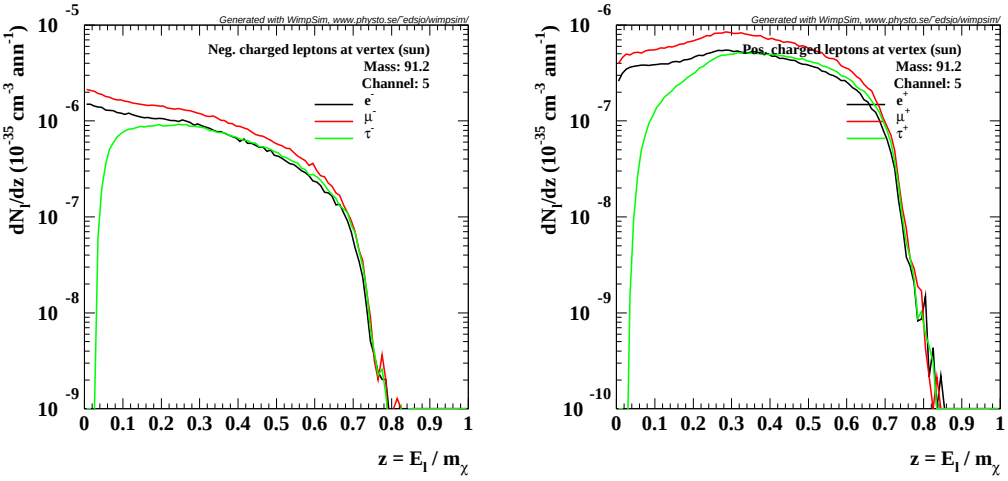


5.4 Channel 5 – W^-W^+

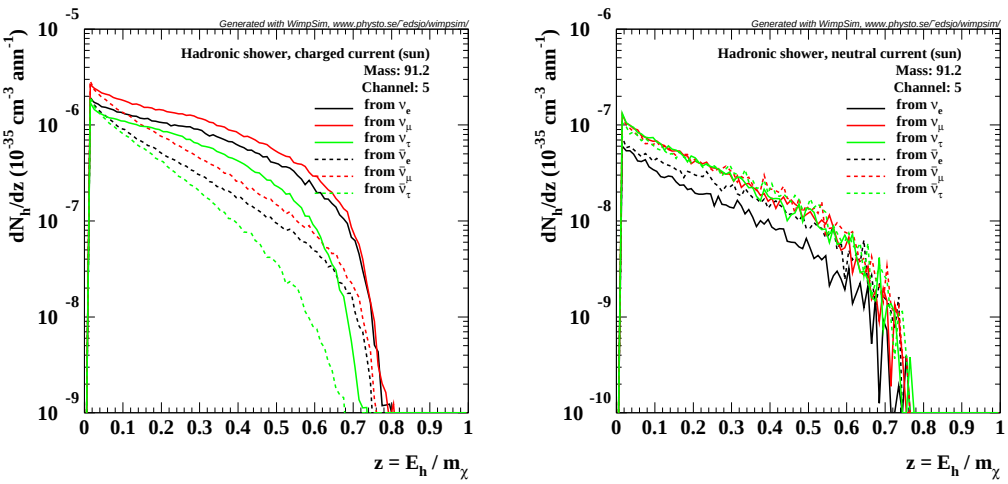
5.4.1 Neutrino fluxes at detector (Sun)



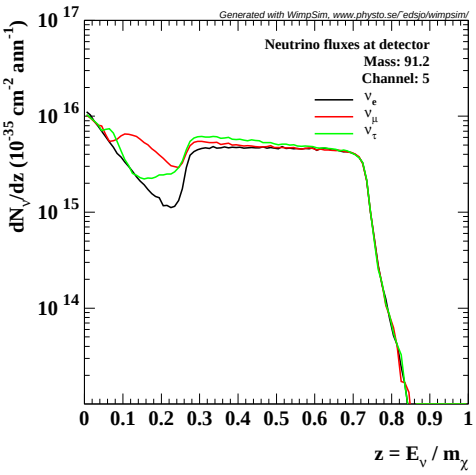
5.4.2 Charged leptons at neutrino-nucleon vertex (Sun)

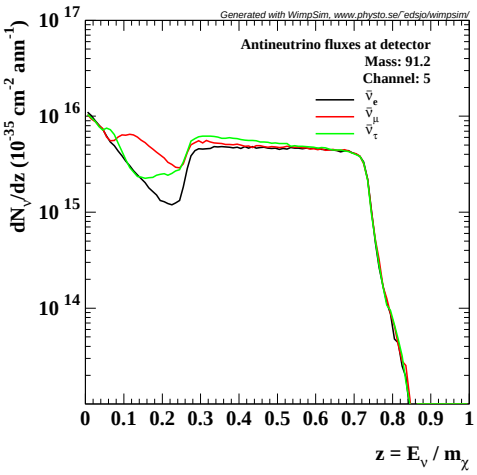


5.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

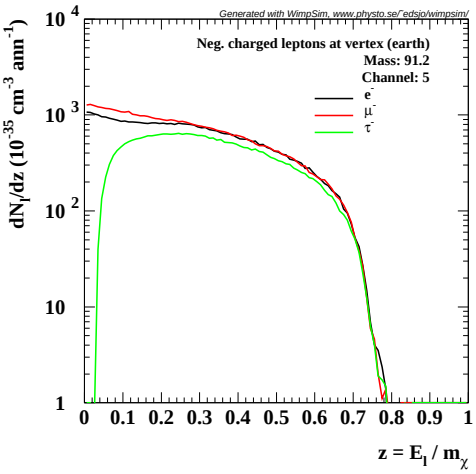


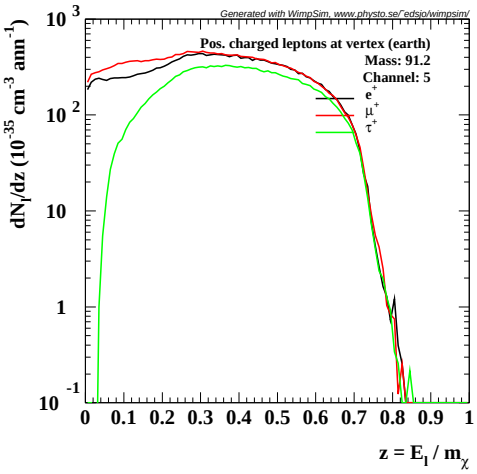
5.4.4 Neutrino fluxes at detector (Earth)



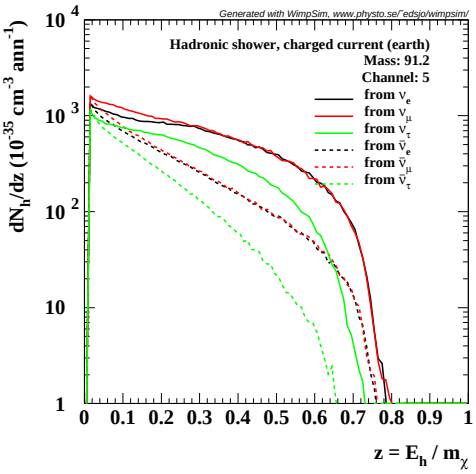


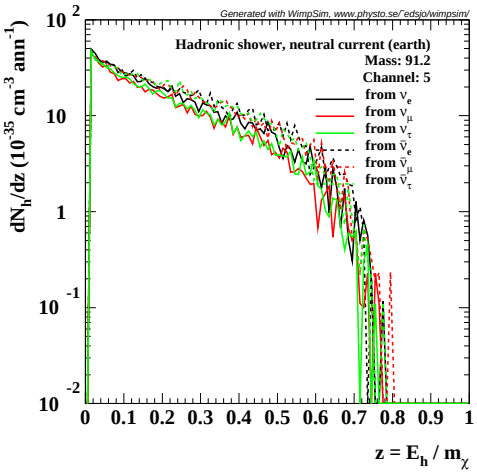
5.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



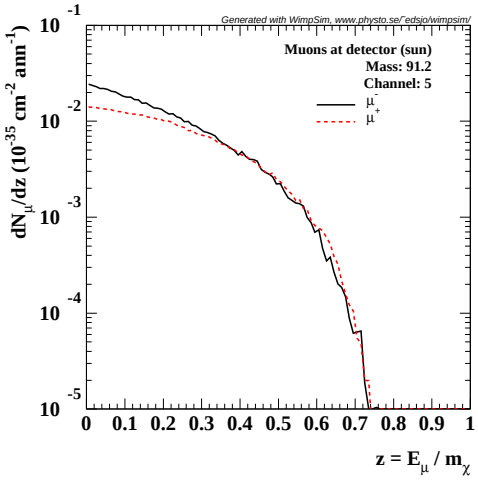


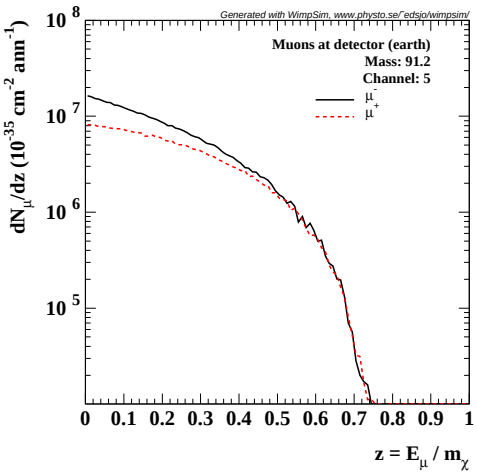
5.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





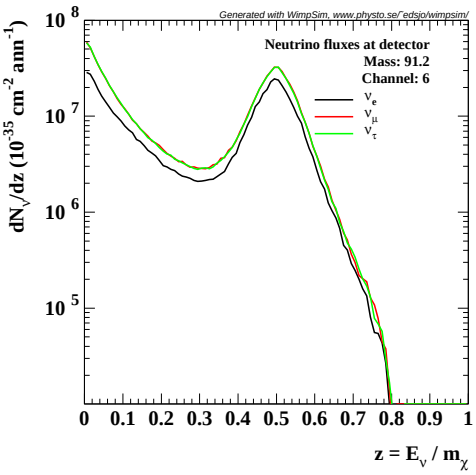
5.4.7 Muons at detector (Sun/Earth)

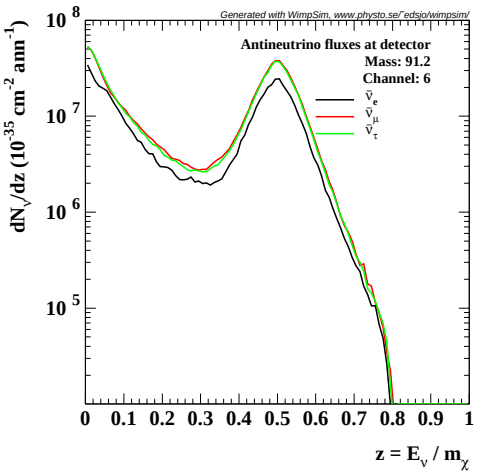




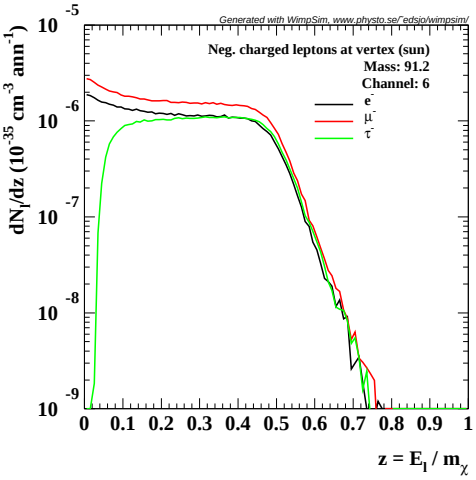
5.5 Channel 6 – Z^0Z^0

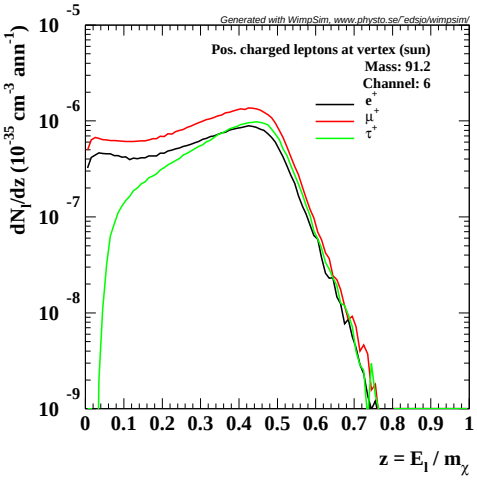
5.5.1 Neutrino fluxes at detector (Sun)



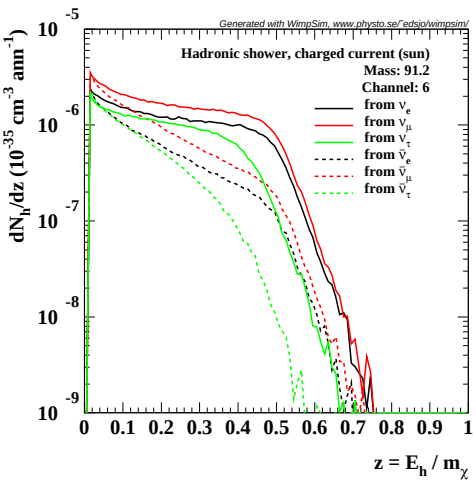


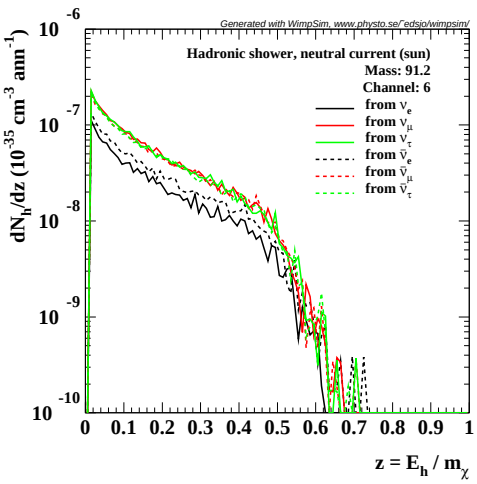
5.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



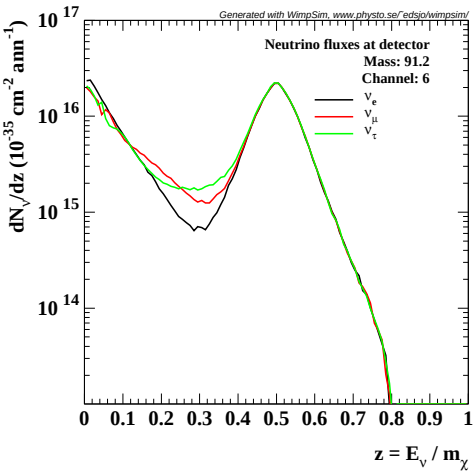


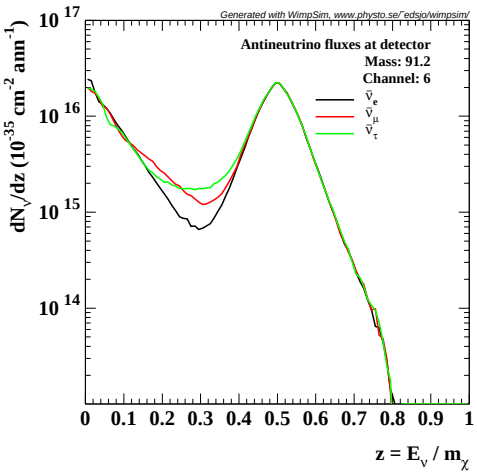
5.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



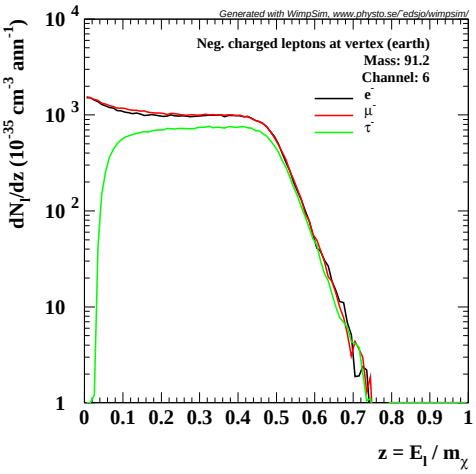


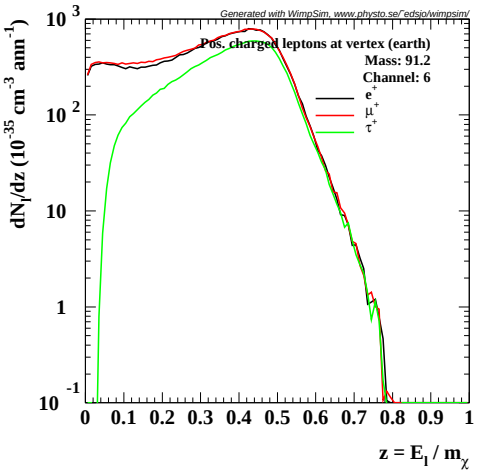
5.5.4 Neutrino fluxes at detector (Earth)



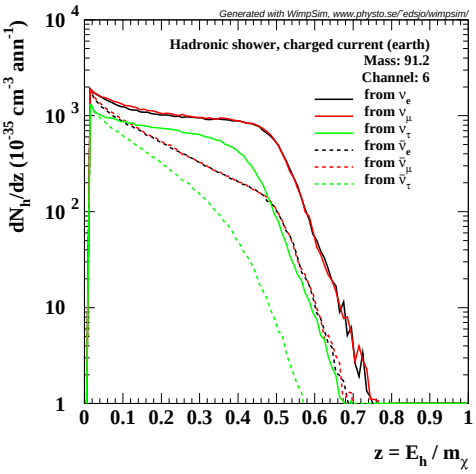


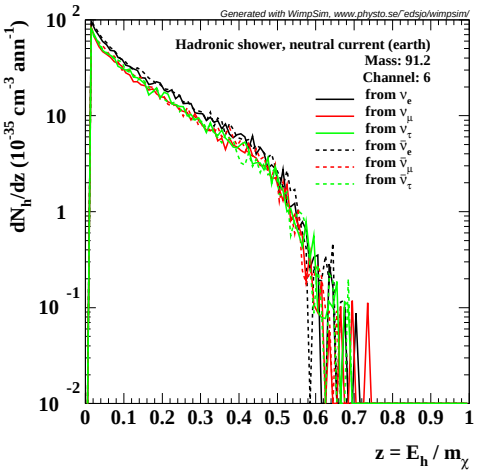
5.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



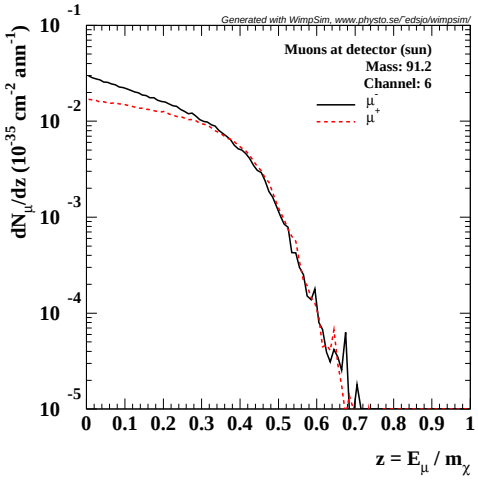


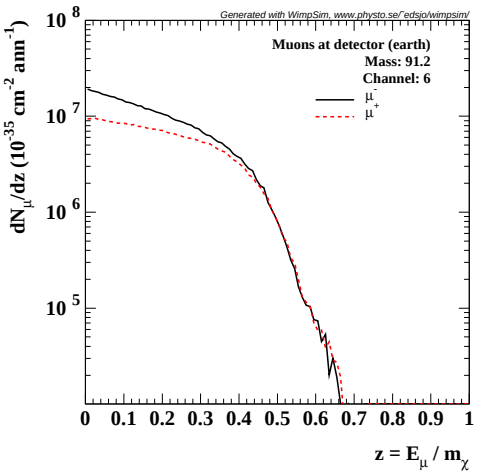
5.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





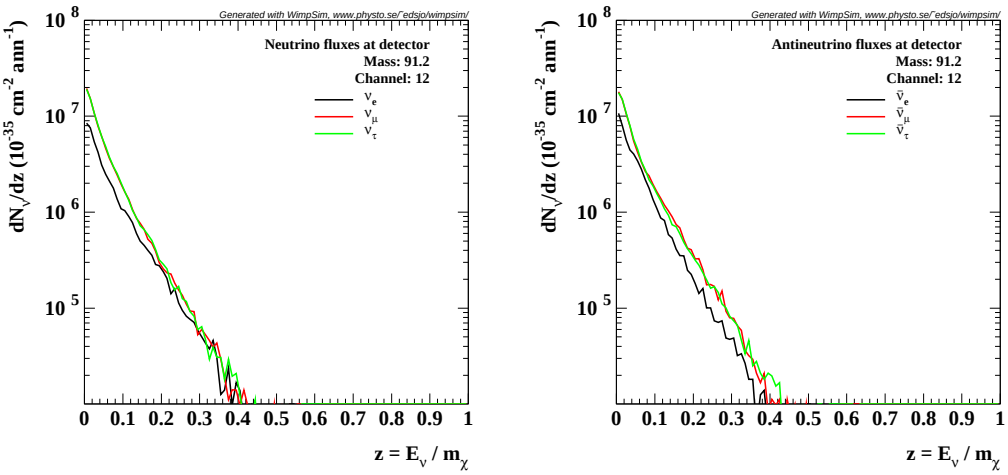
5.5.7 Muons at detector (Sun/Earth)



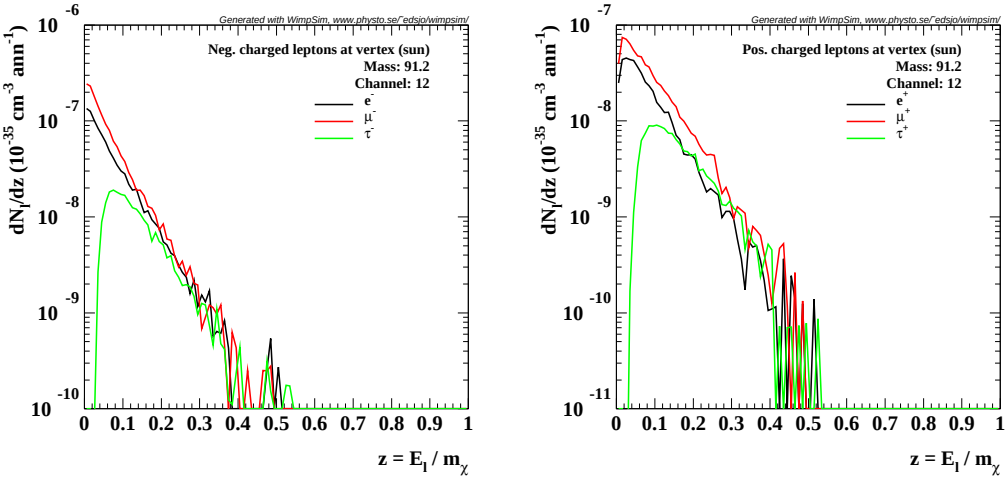


5.6 Channel 12 – gg

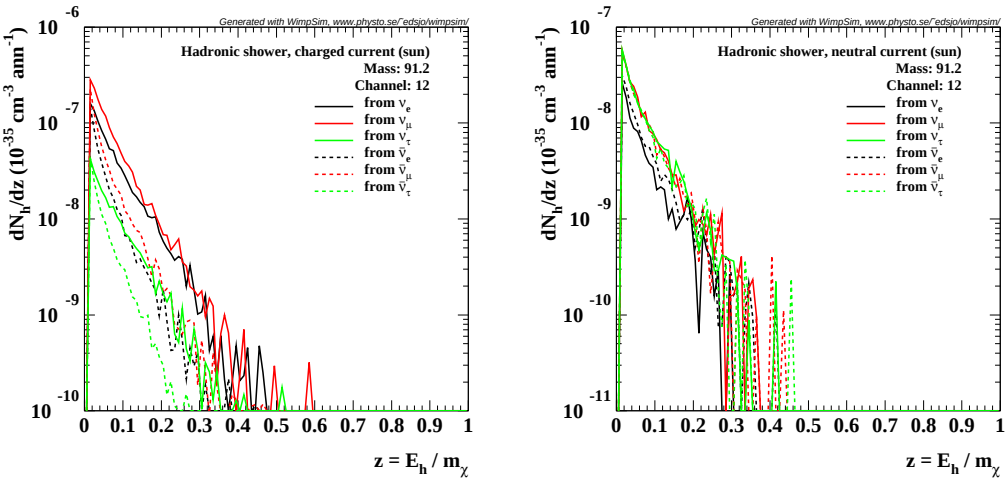
5.6.1 Neutrino fluxes at detector (Sun)



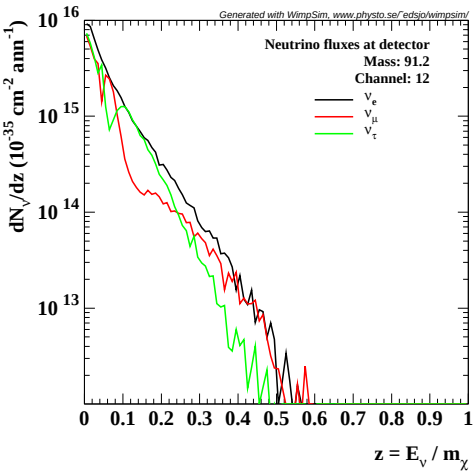
5.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

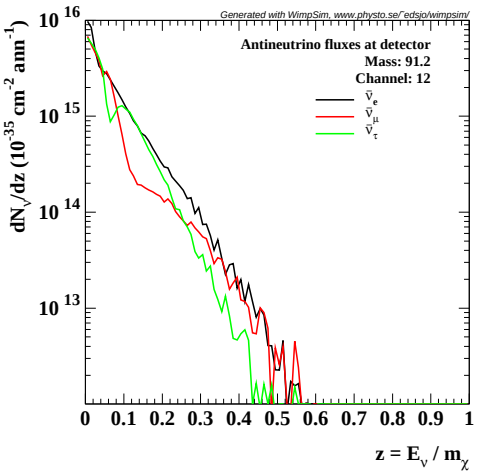


5.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

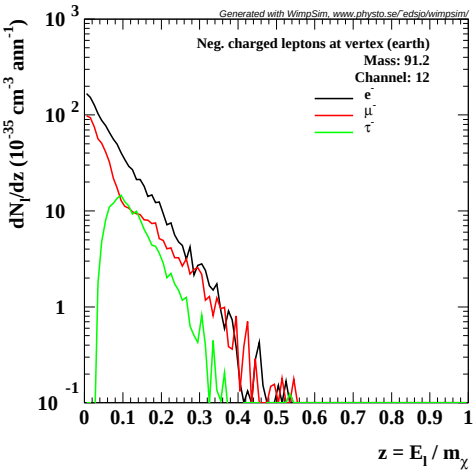


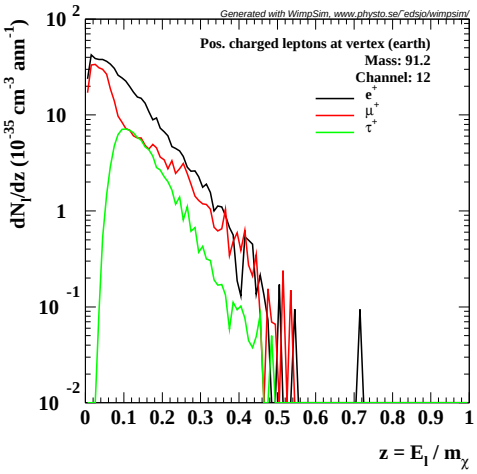
5.6.4 Neutrino fluxes at detector (Earth)



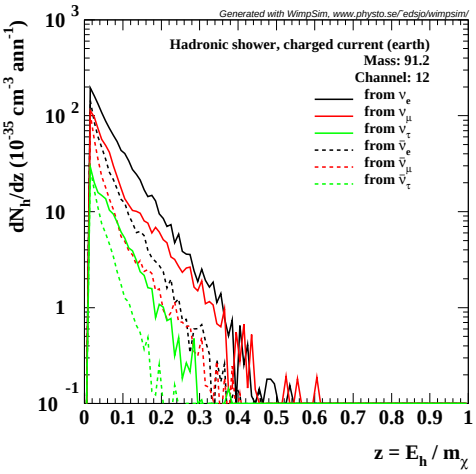


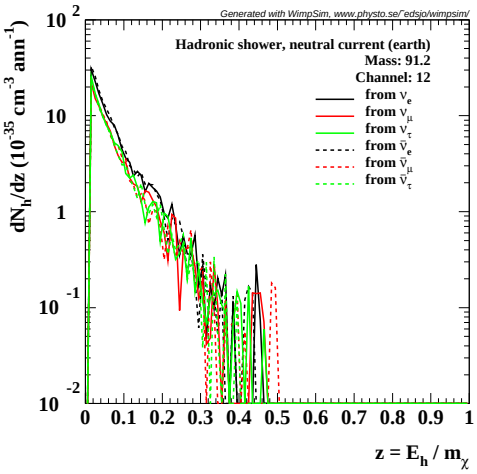
5.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



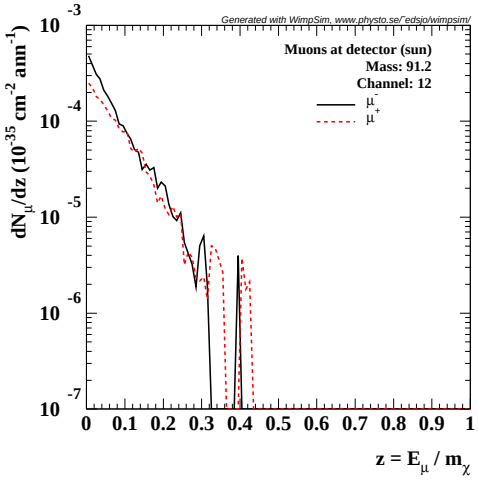


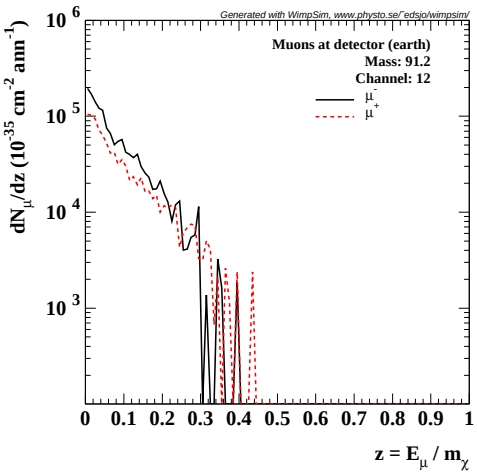
5.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





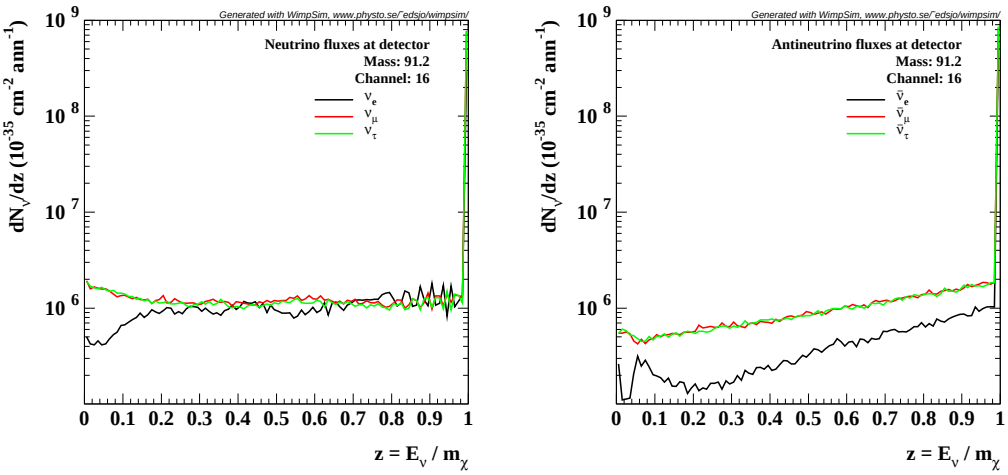
5.6.7 Muons at detector (Sun/Earth)



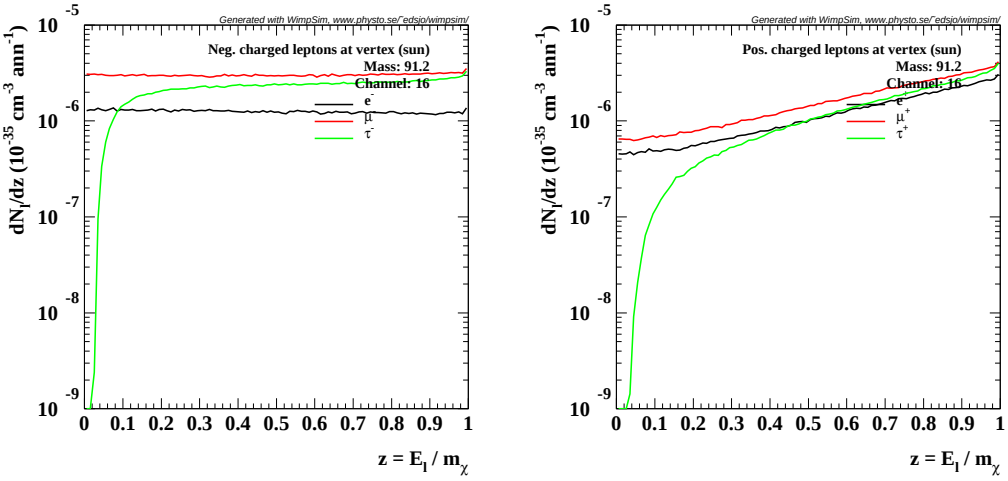


5.7 Channel 16 – $\nu_e\bar{\nu}_e$

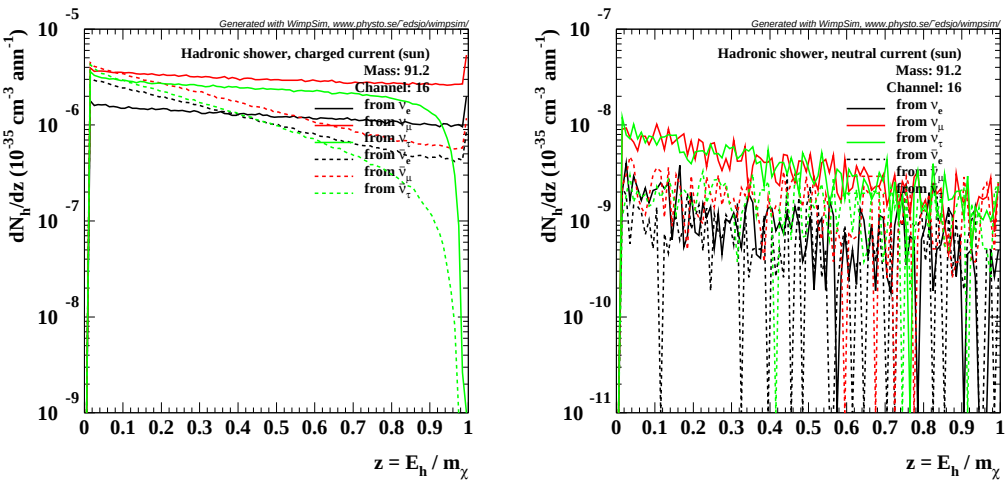
5.7.1 Neutrino fluxes at detector (Sun)



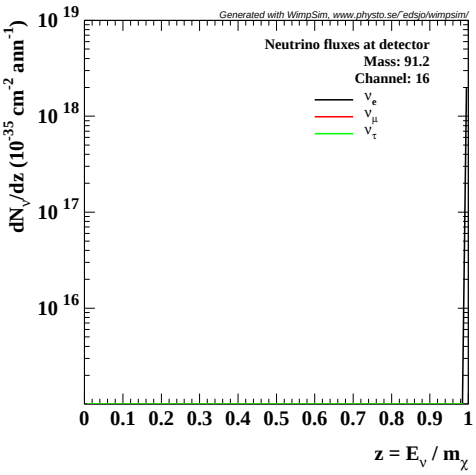
5.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

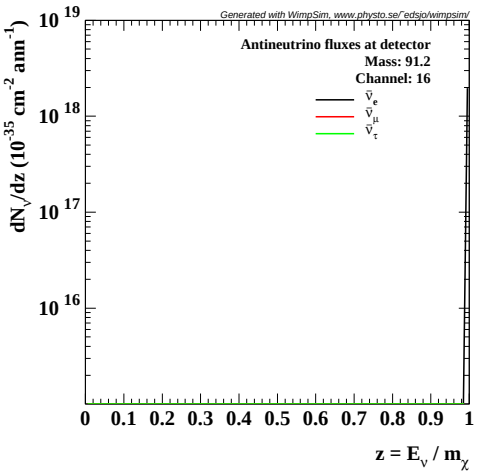


5.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

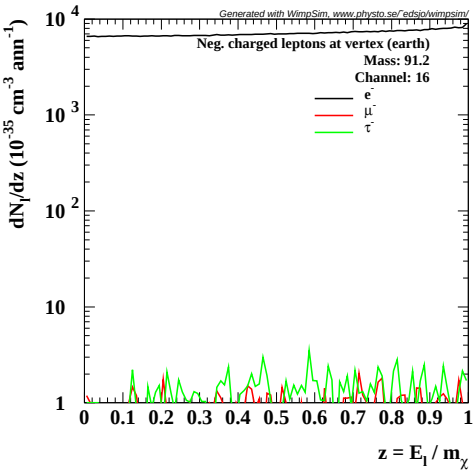


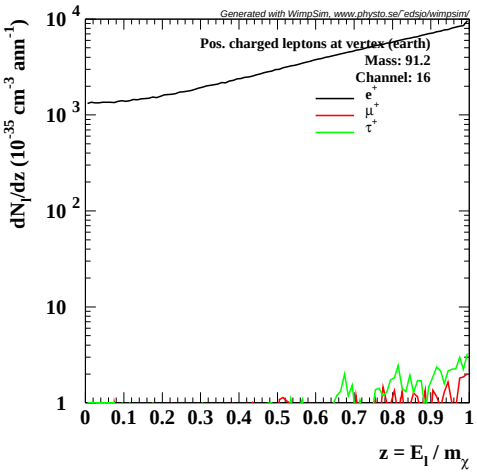
5.7.4 Neutrino fluxes at detector (Earth)



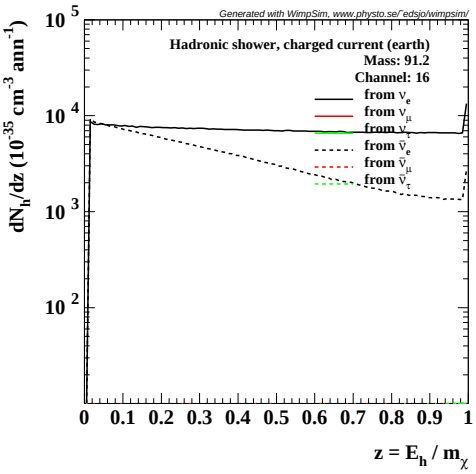


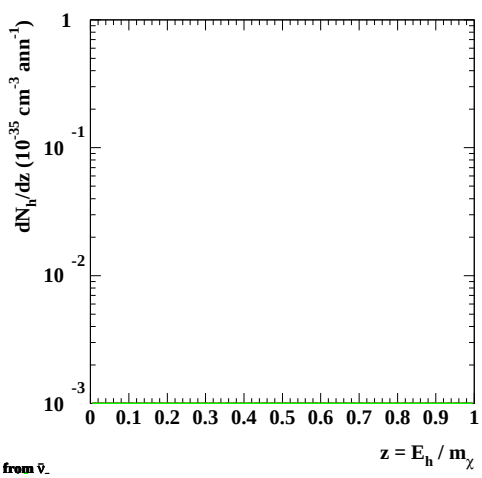
5.7.5 Charged leptons at neutrino-nucleon vertex (Earth)





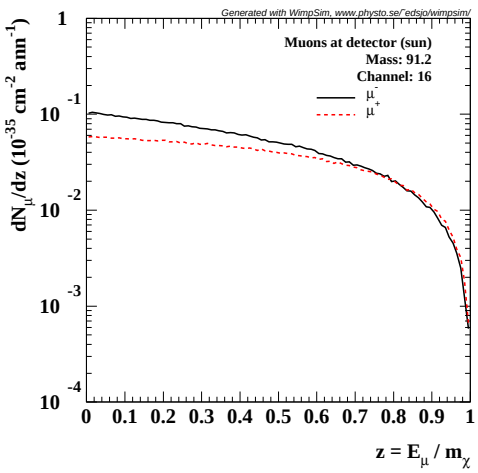
5.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)

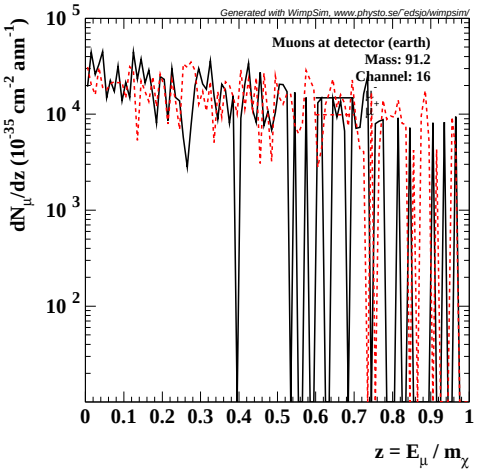




from $\bar{\nu}_\tau$

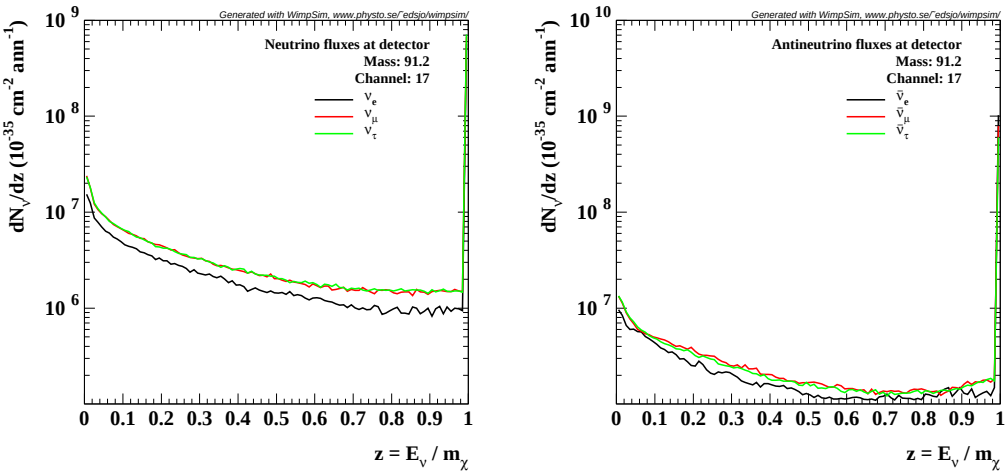
5.7.7 Muons at detector (Sun/Earth)



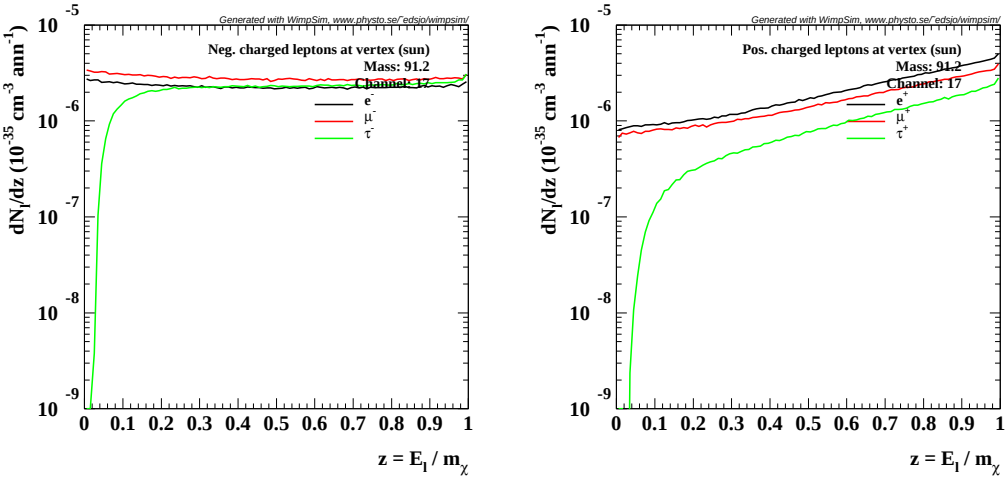


5.8 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

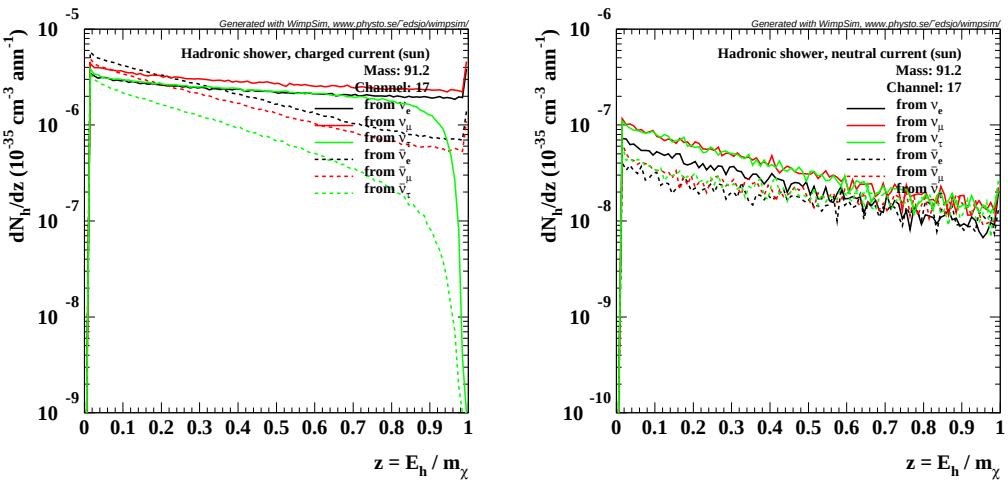
5.8.1 Neutrino fluxes at detector (Sun)



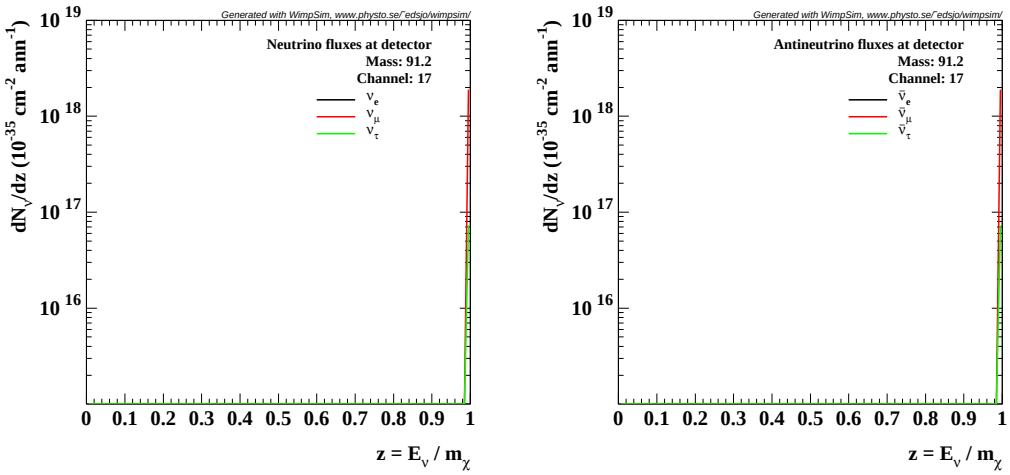
5.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



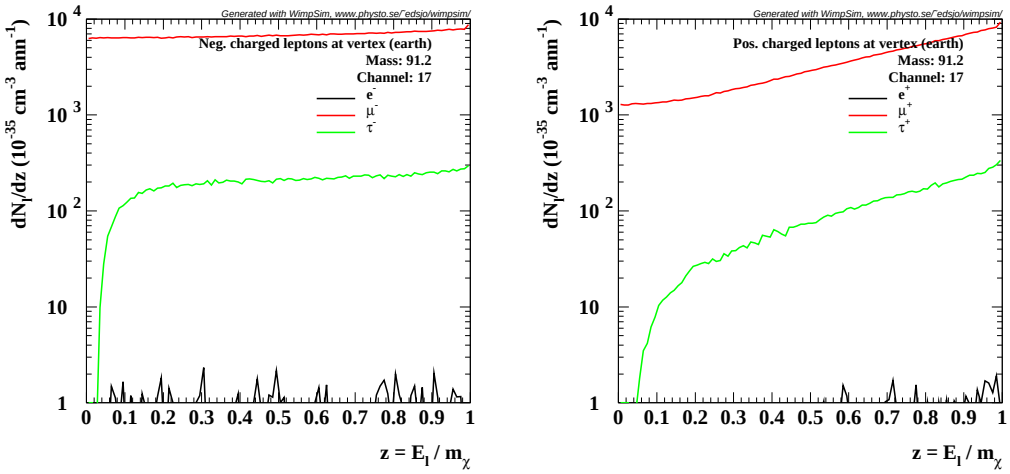
5.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



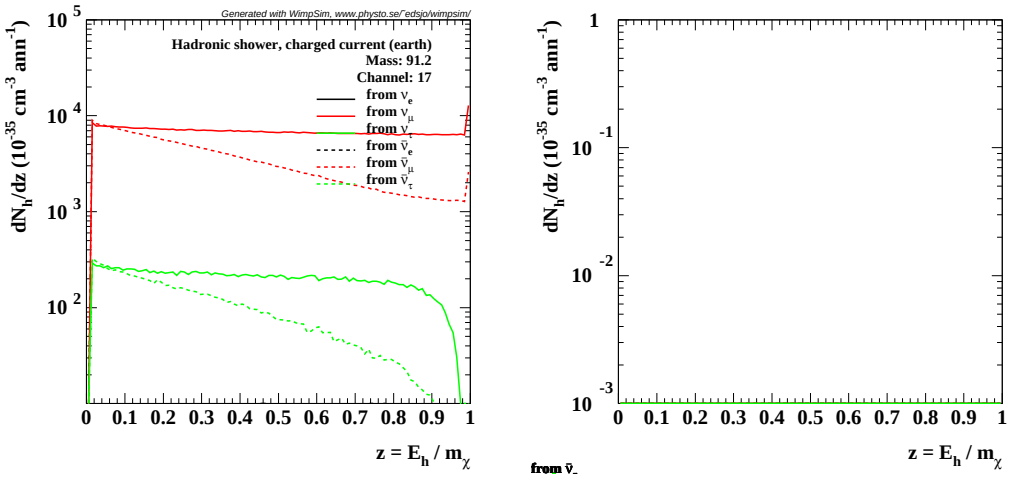
5.8.4 Neutrino fluxes at detector (Earth)



5.8.5 Charged leptons at neutrino-nucleon vertex (Earth)

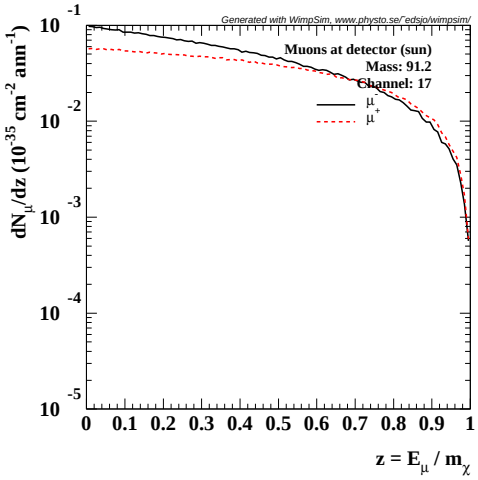


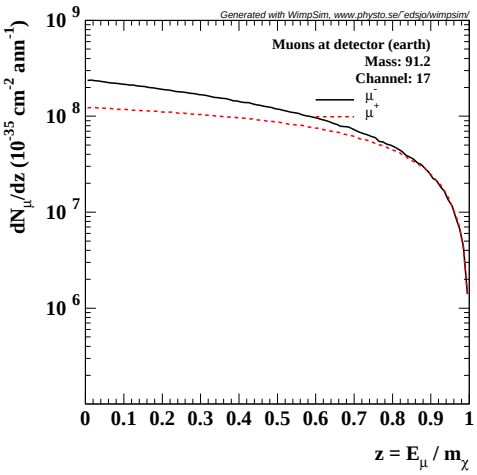
5.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

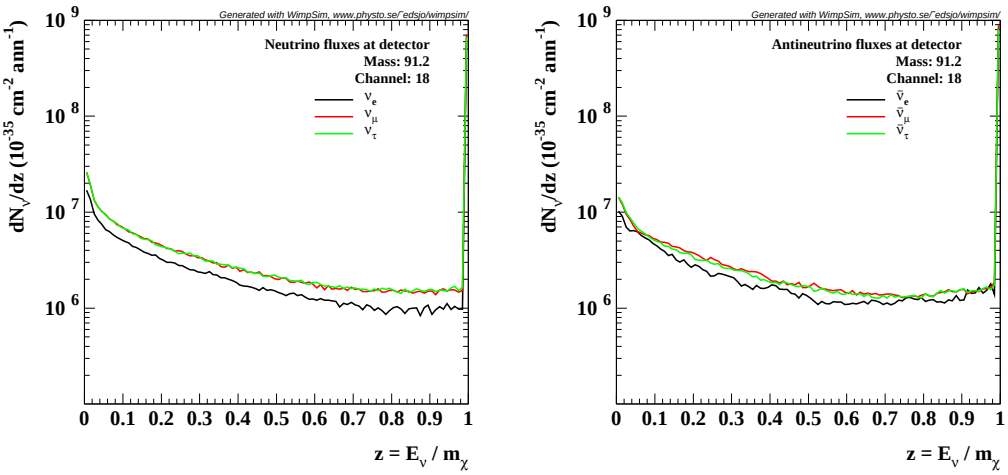
5.8.7 Muons at detector (Sun/Earth)



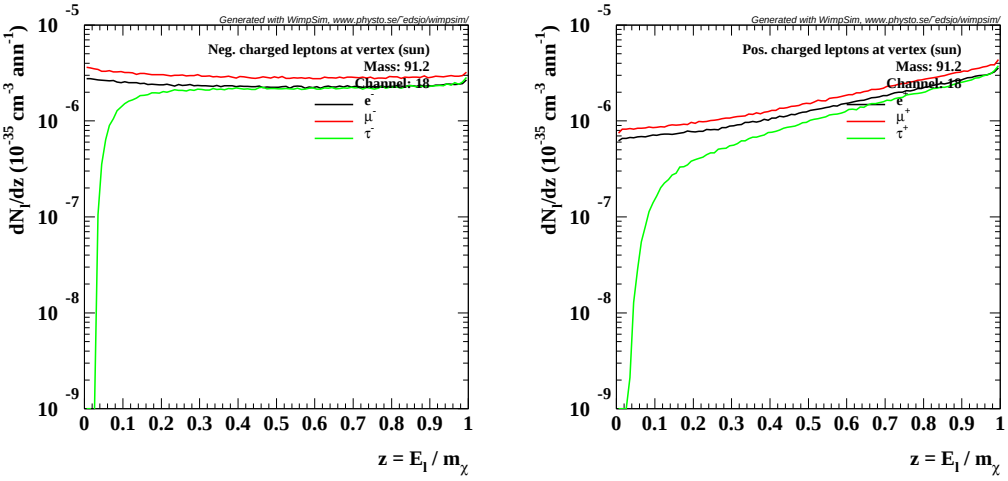


5.9 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

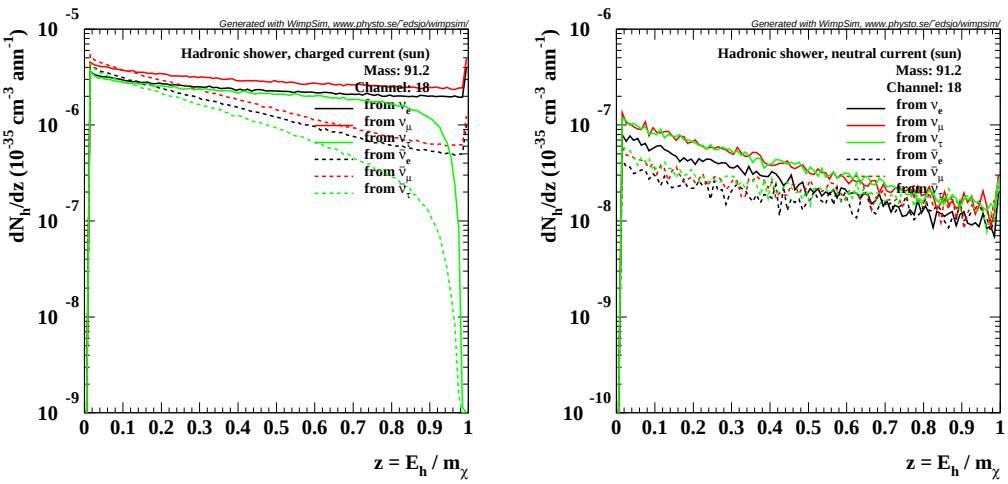
5.9.1 Neutrino fluxes at detector (Sun)



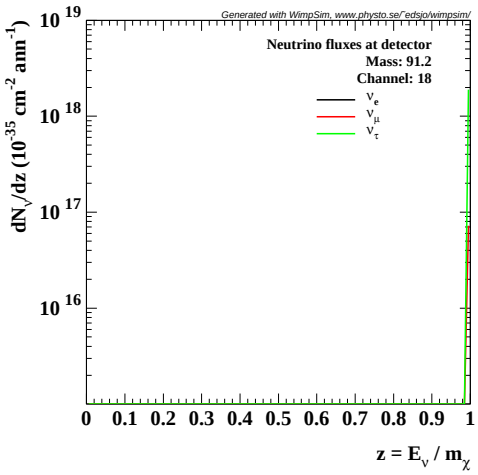
5.9.2 Charged leptons at neutrino-nucleon vertex (Sun)

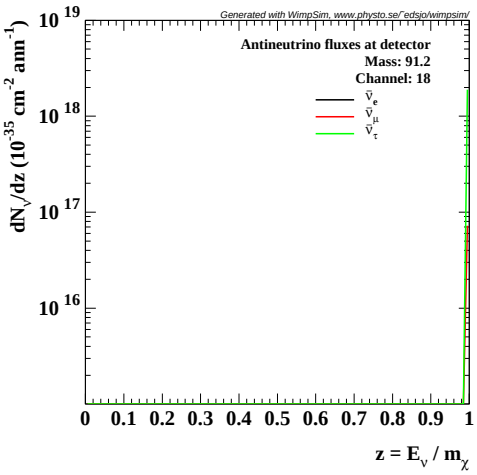


5.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)

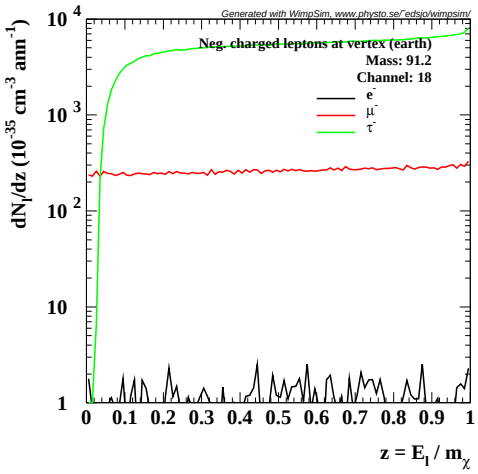


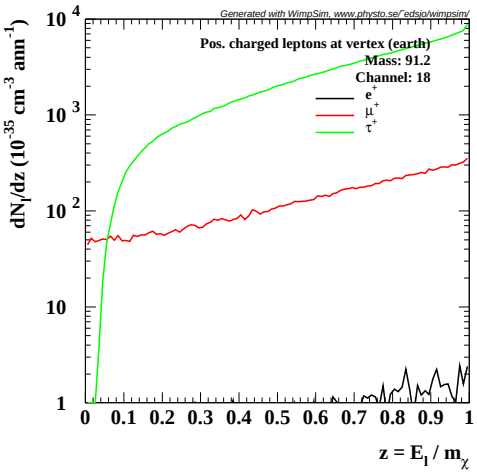
5.9.4 Neutrino fluxes at detector (Earth)



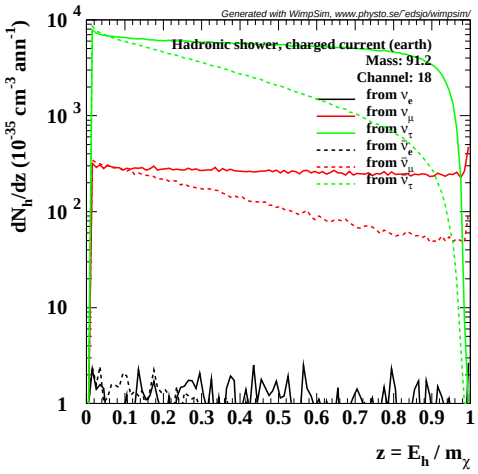


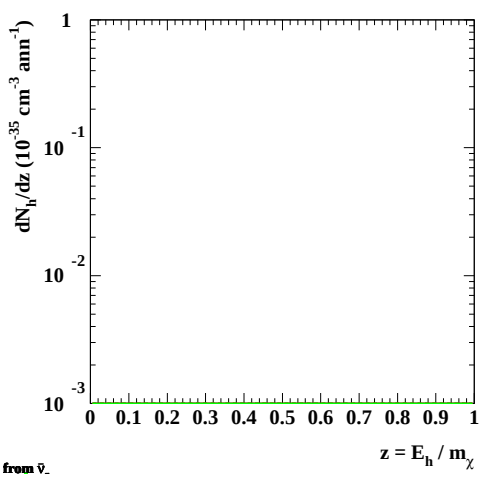
5.9.5 Charged leptons at neutrino-nucleon vertex (Earth)





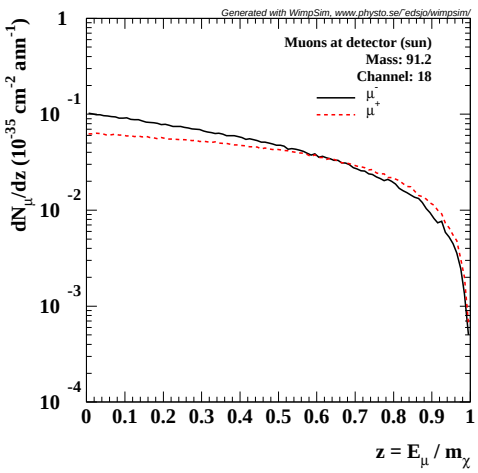
5.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)

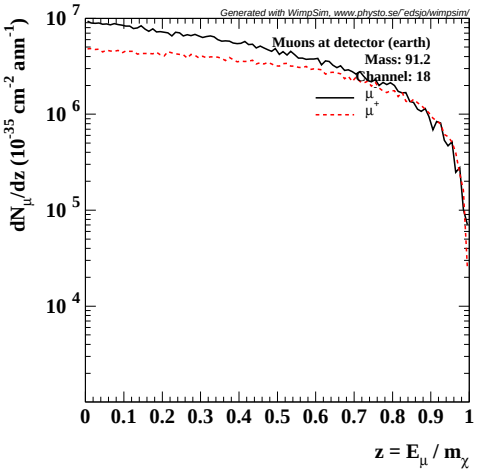




from $\bar{\nu}_\tau$

5.9.7 Muons at detector (Sun/Earth)

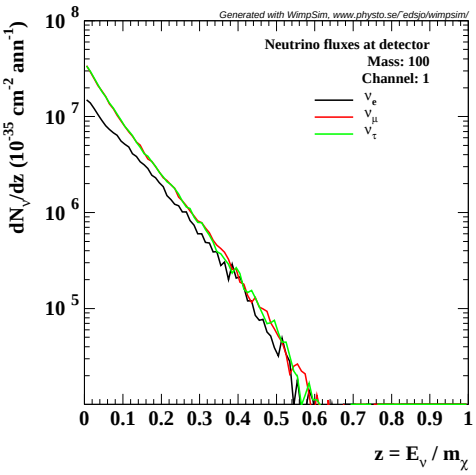


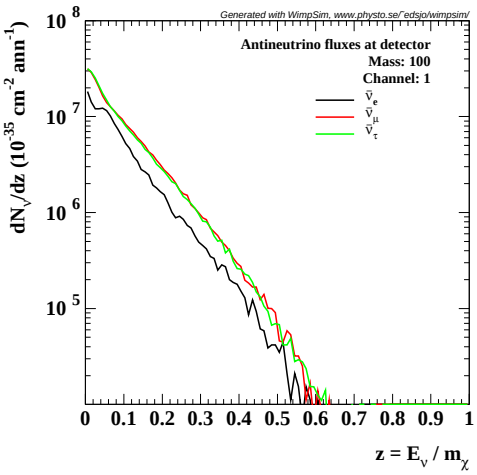


6 Mass 100

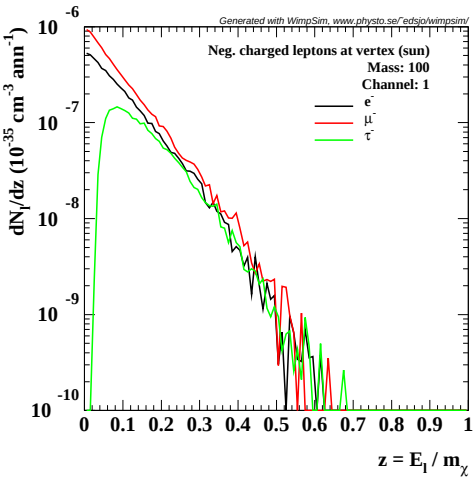
6.1 Channel 1 – $c\bar{c}$

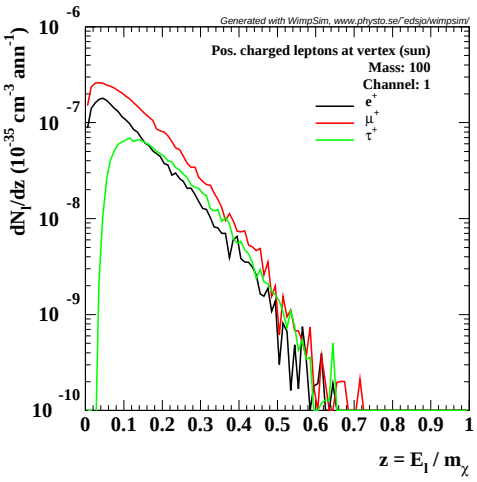
6.1.1 Neutrino fluxes at detector (Sun)



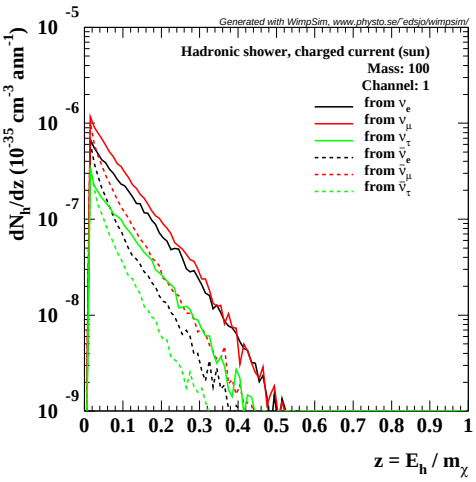


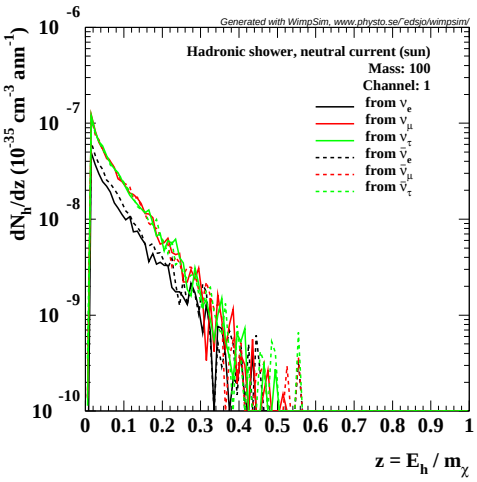
6.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



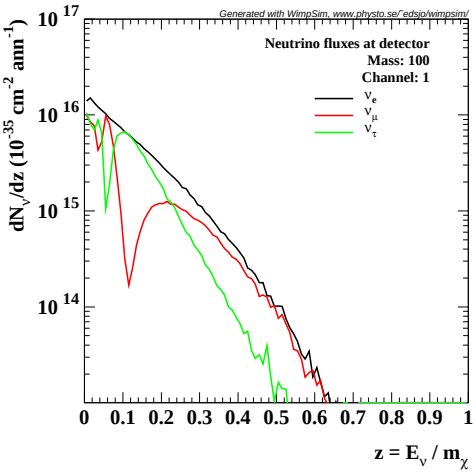


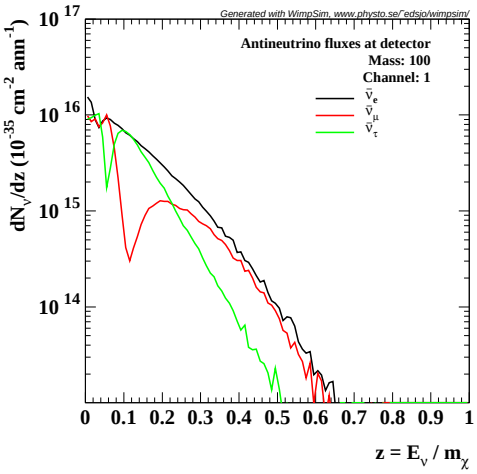
6.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



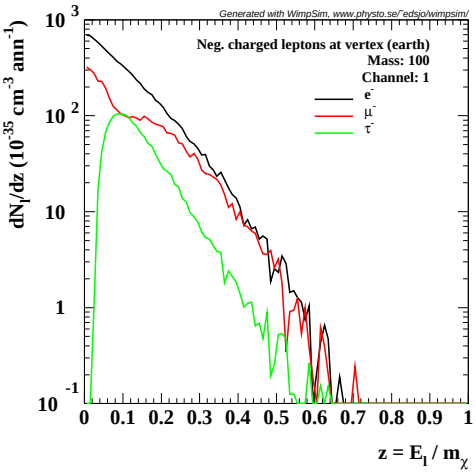


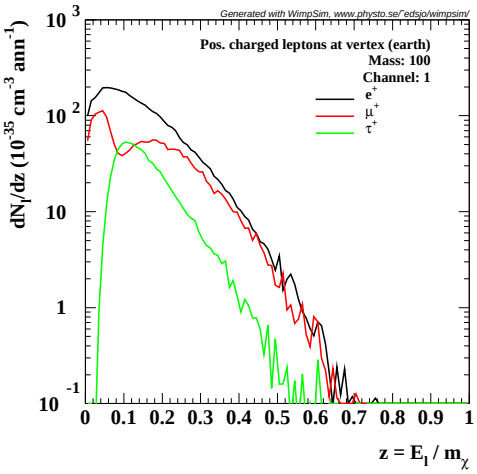
6.1.4 Neutrino fluxes at detector (Earth)



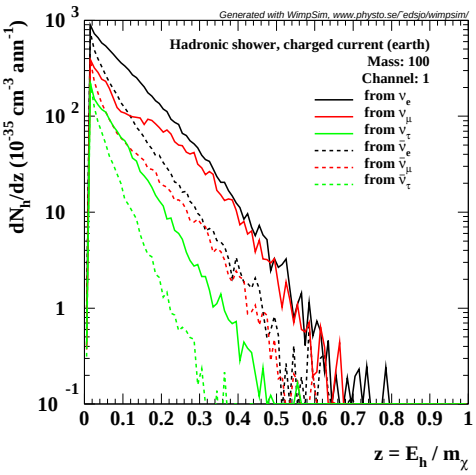


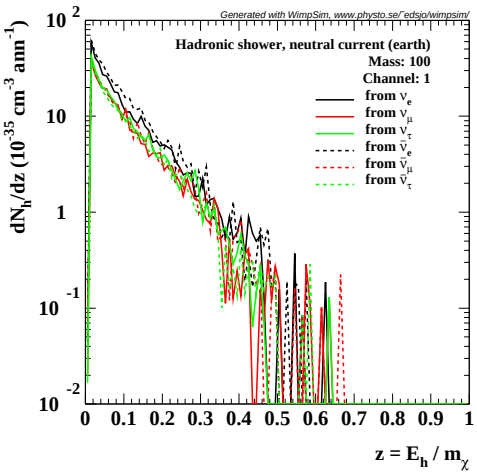
6.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



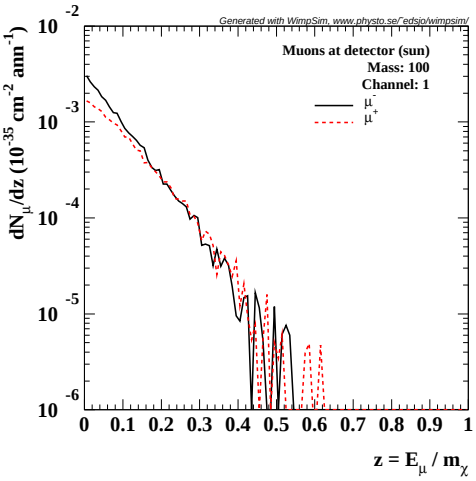


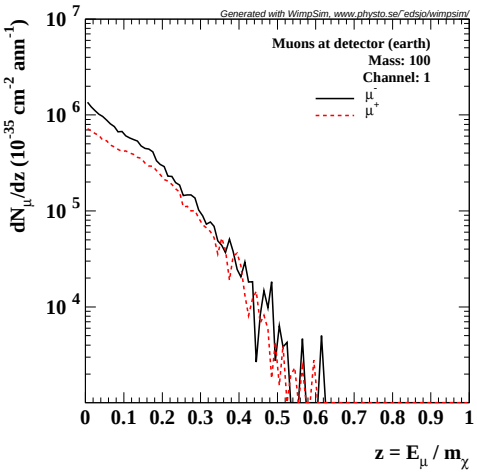
6.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





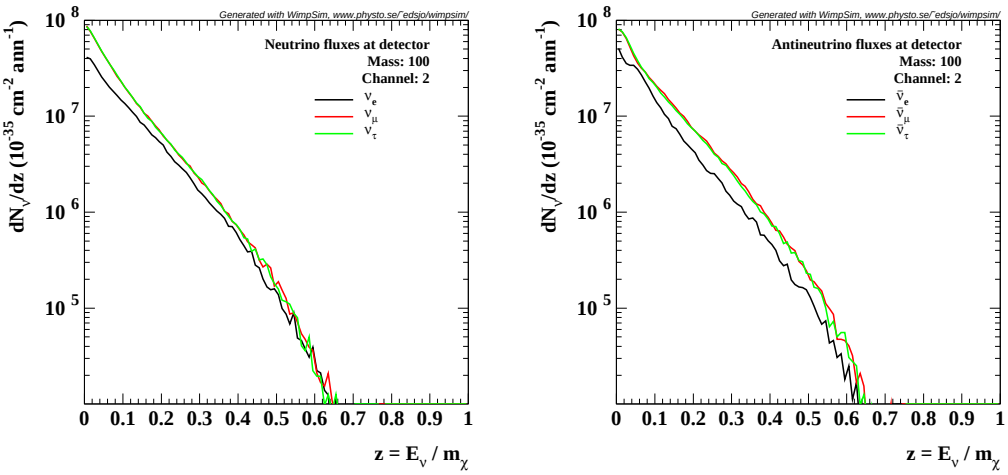
6.1.7 Muons at detector (Sun/Earth)



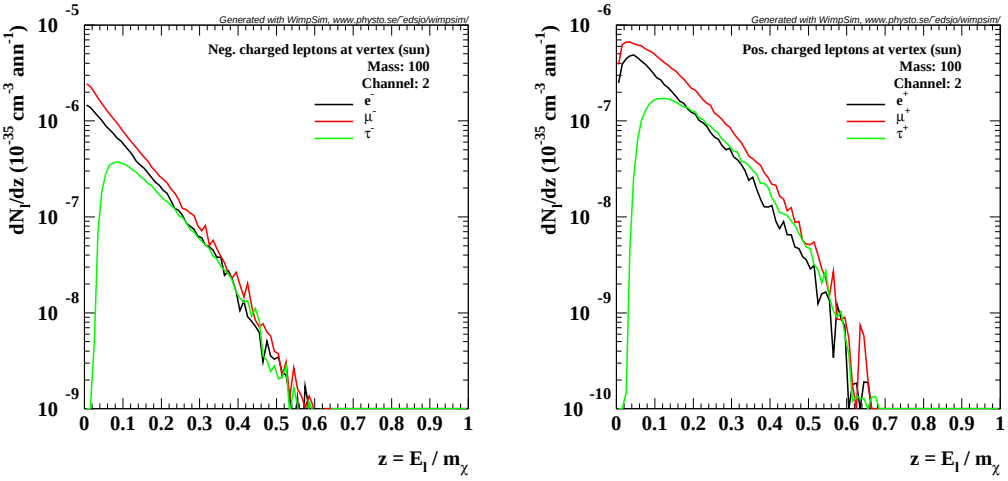


6.2 Channel 2 – $b\bar{b}$

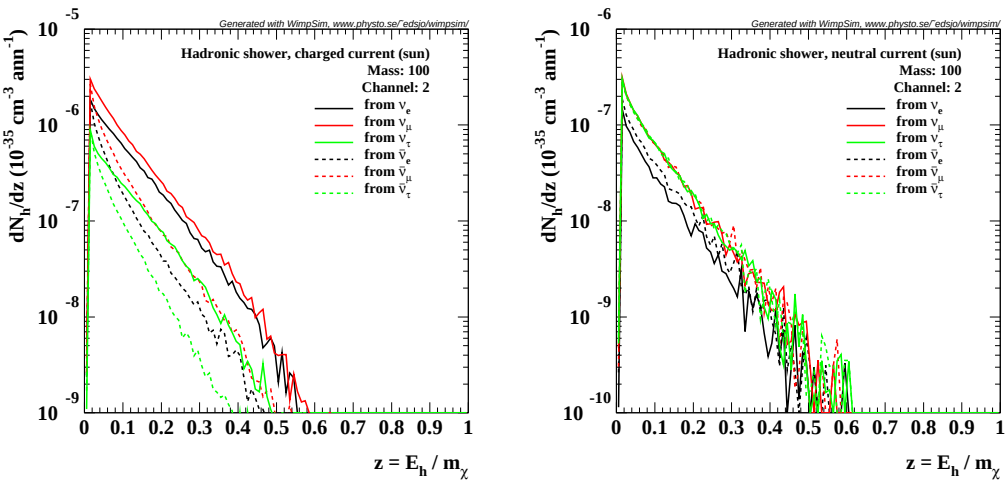
6.2.1 Neutrino fluxes at detector (Sun)



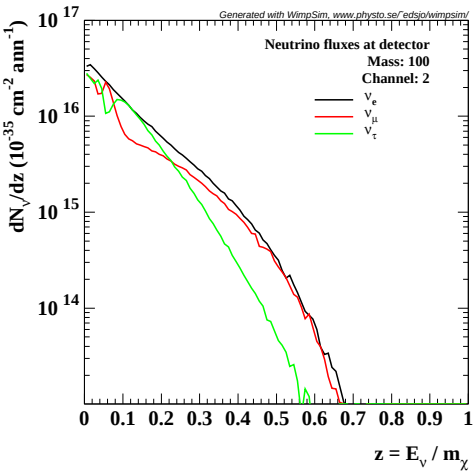
6.2.2 Charged leptons at neutrino-nucleon vertex (Sun)

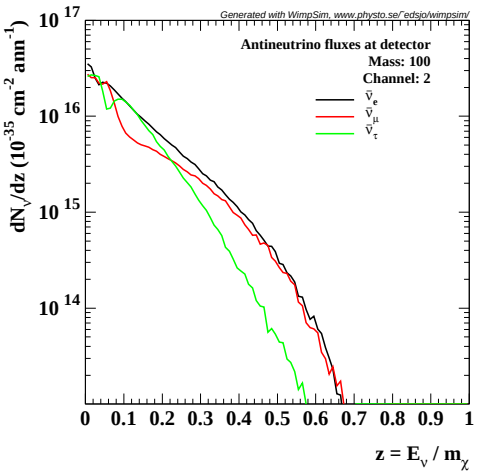


6.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)

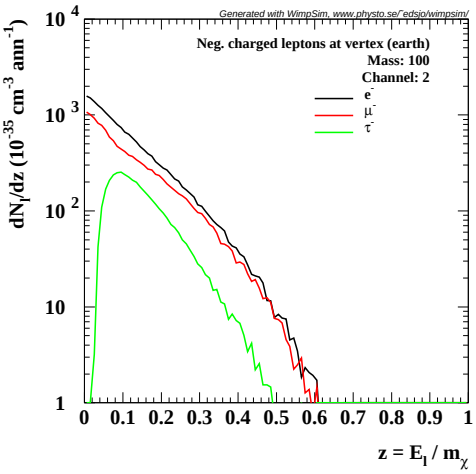


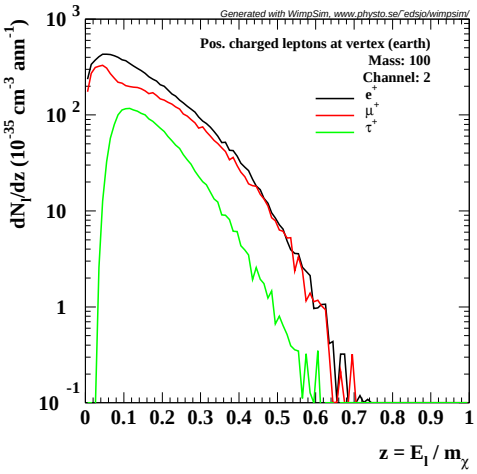
6.2.4 Neutrino fluxes at detector (Earth)



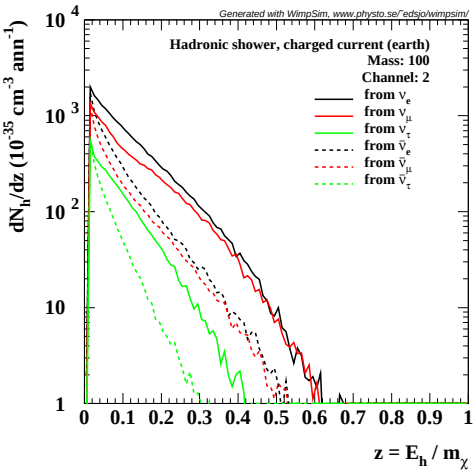


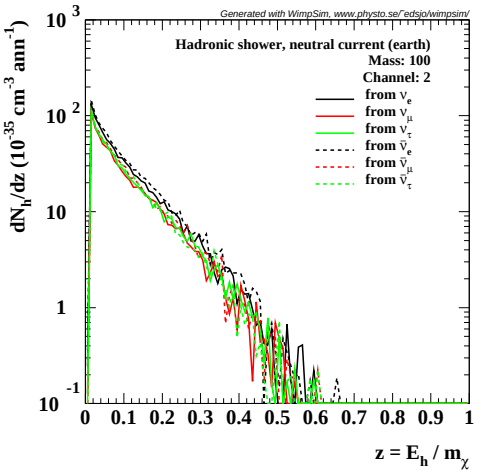
6.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



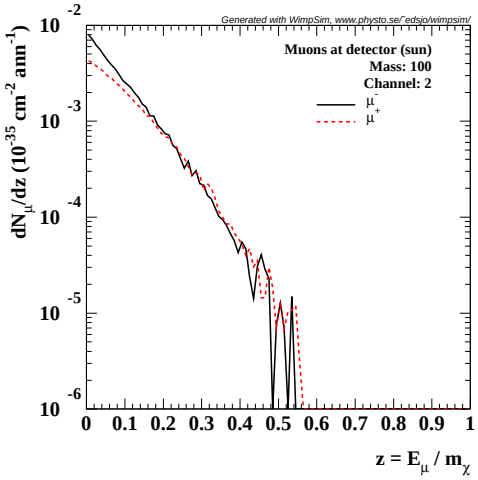


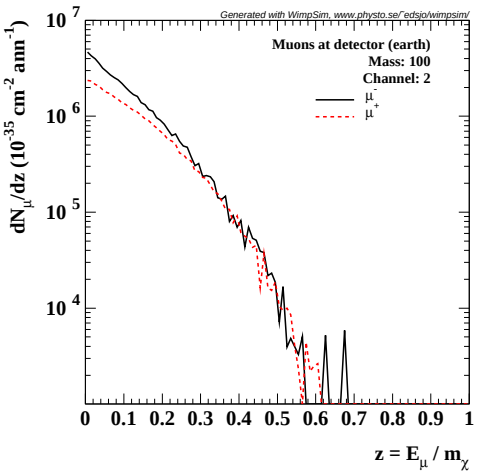
6.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





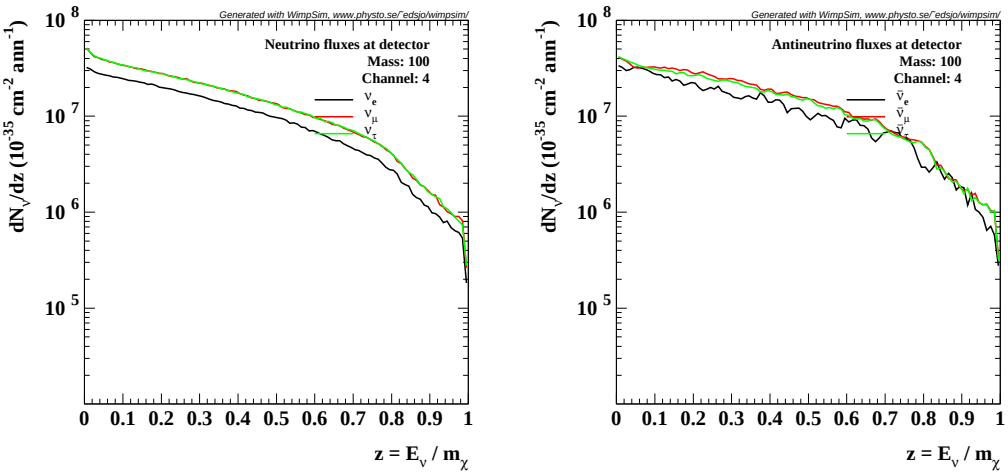
6.2.7 Muons at detector (Sun/Earth)



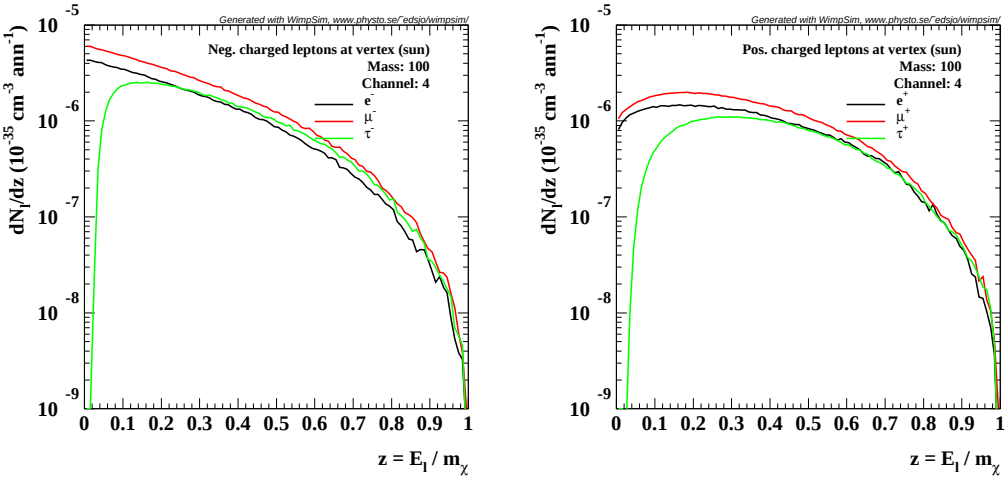


6.3 Channel 4 – $\tau^-\tau^+$

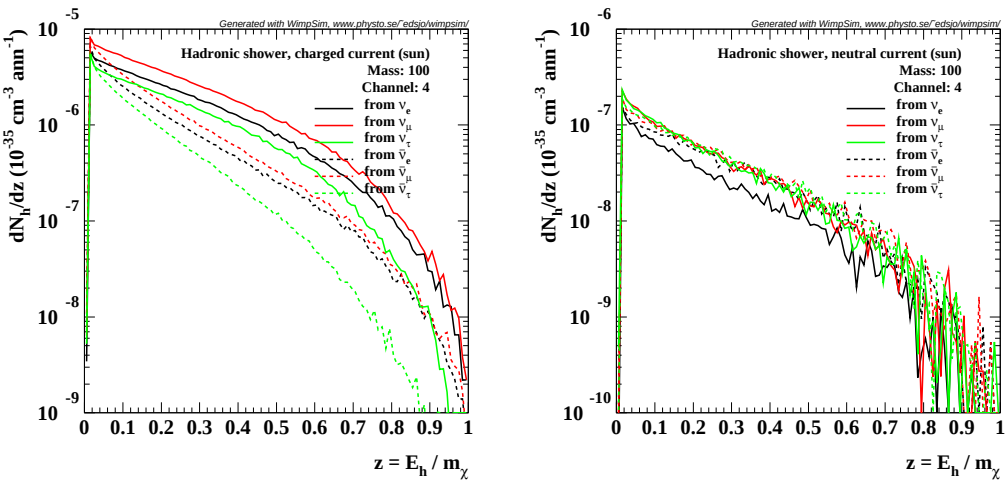
6.3.1 Neutrino fluxes at detector (Sun)



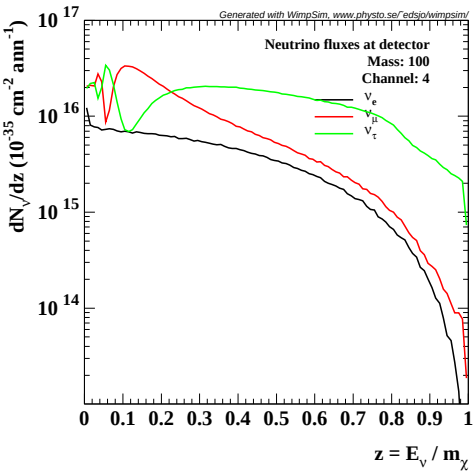
6.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

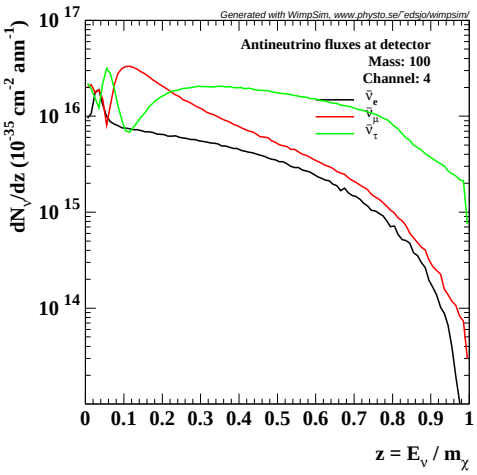


6.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

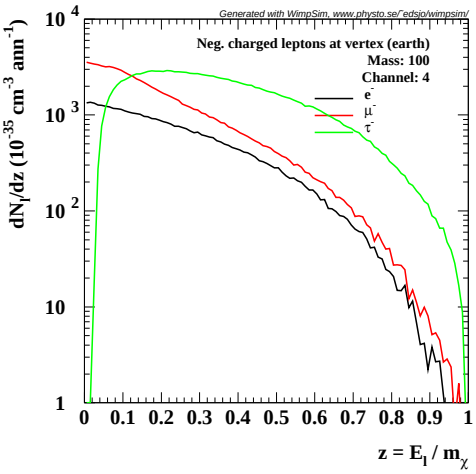


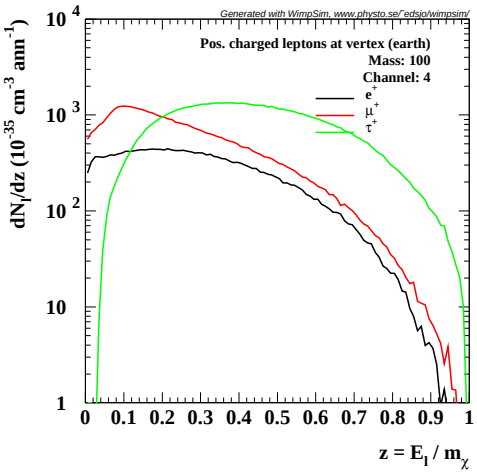
6.3.4 Neutrino fluxes at detector (Earth)



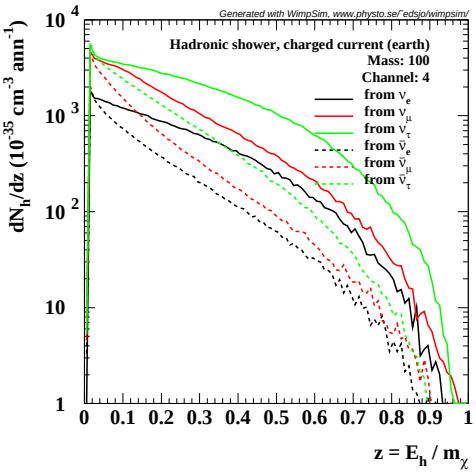


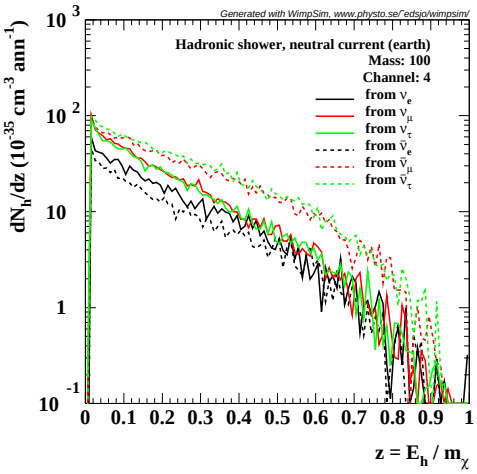
6.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



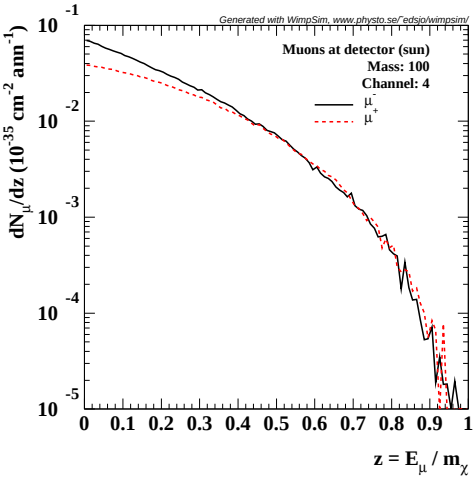


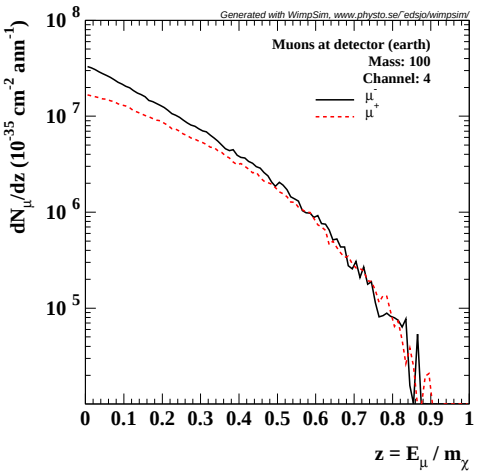
6.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





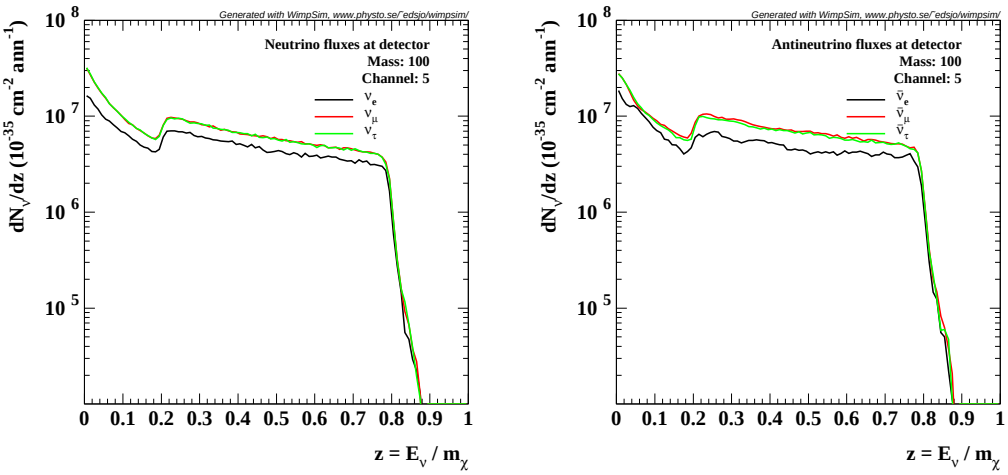
6.3.7 Muons at detector (Sun/Earth)



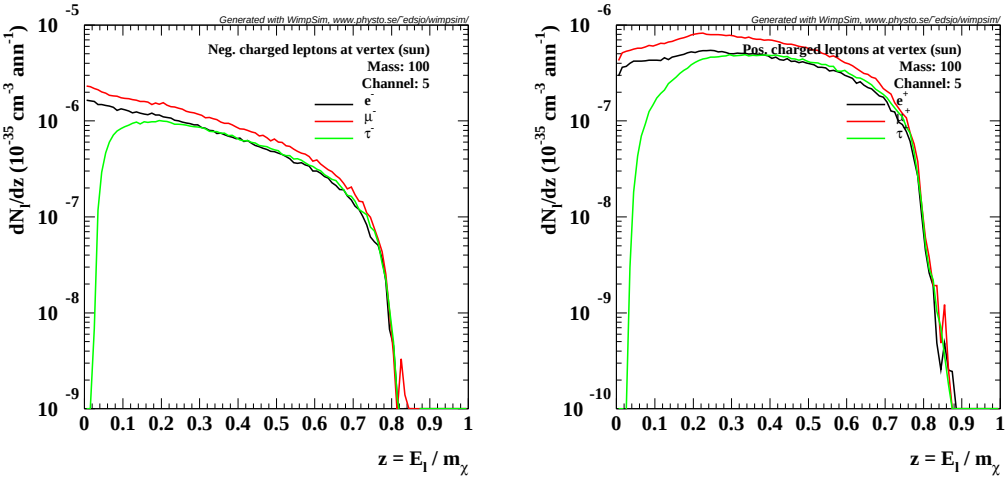


6.4 Channel 5 – W^-W^+

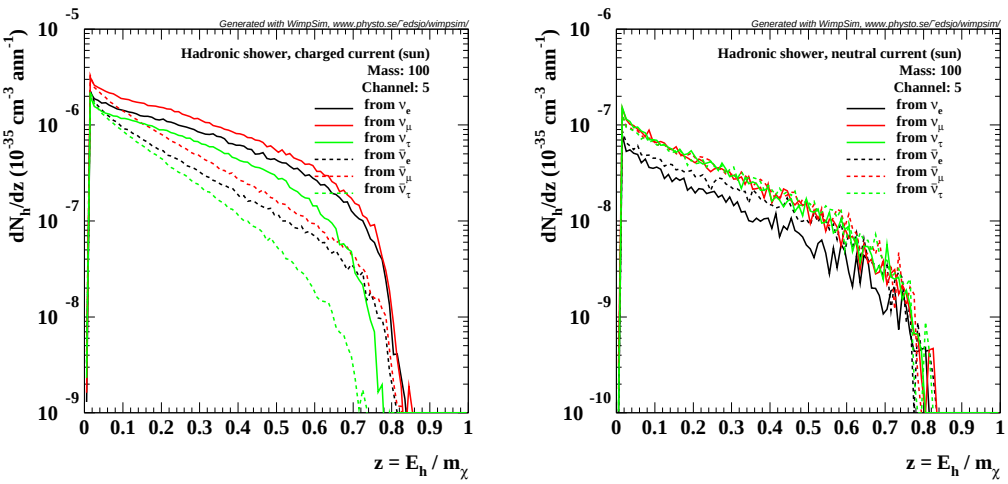
6.4.1 Neutrino fluxes at detector (Sun)



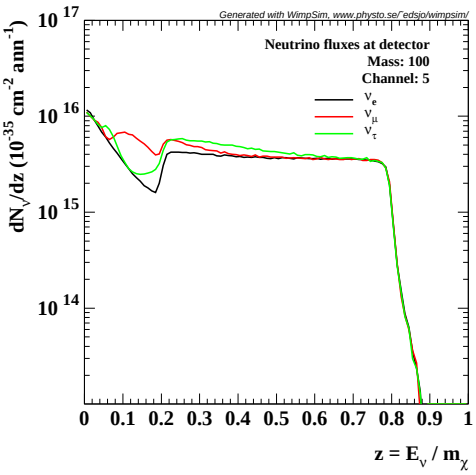
6.4.2 Charged leptons at neutrino-nucleon vertex (Sun)

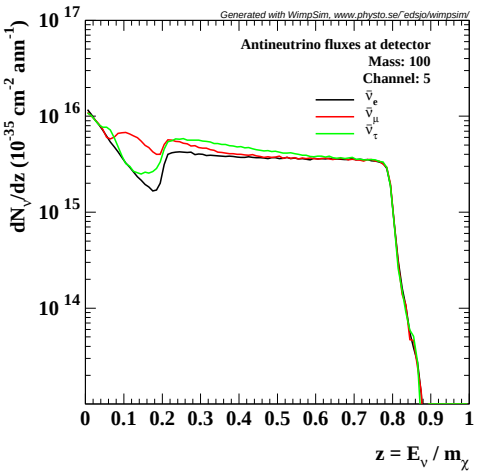


6.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

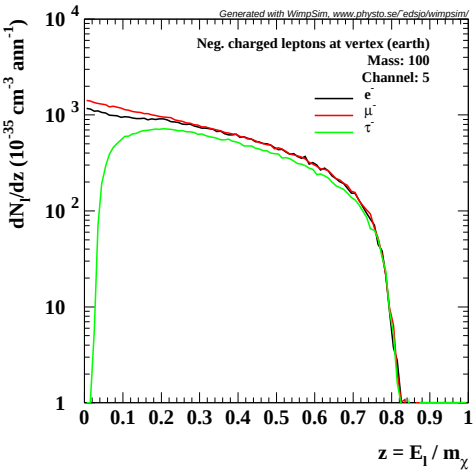


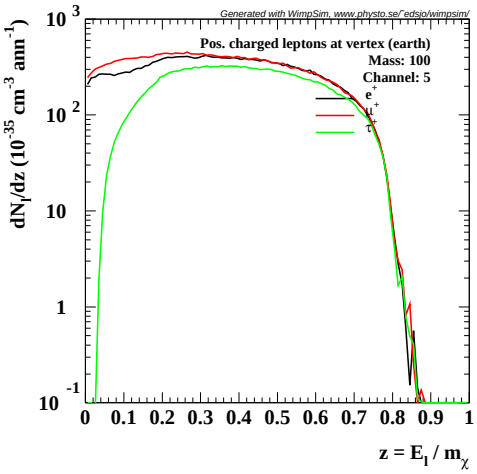
6.4.4 Neutrino fluxes at detector (Earth)



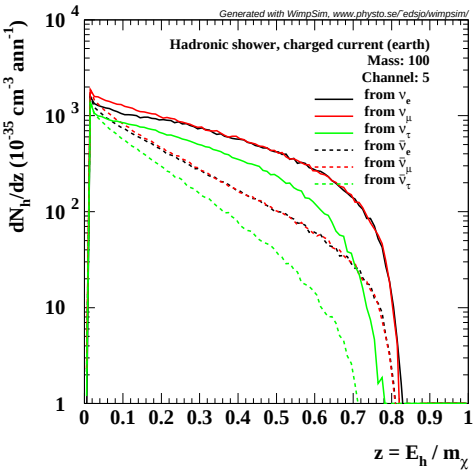


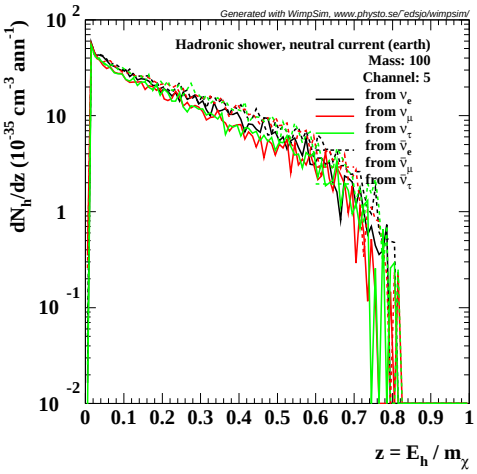
6.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



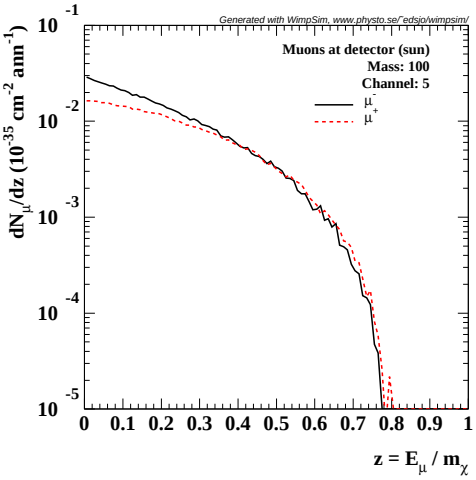


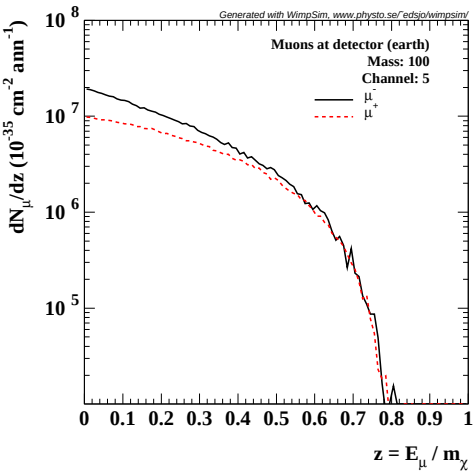
6.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





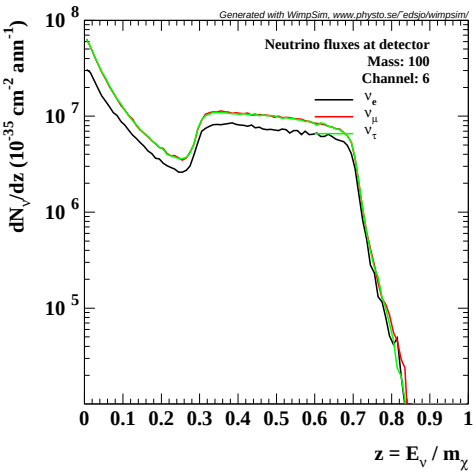
6.4.7 Muons at detector (Sun/Earth)

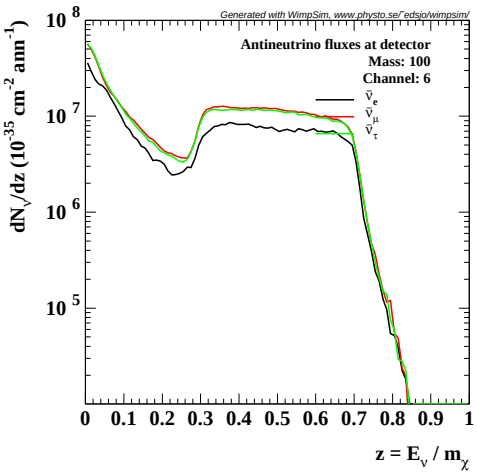




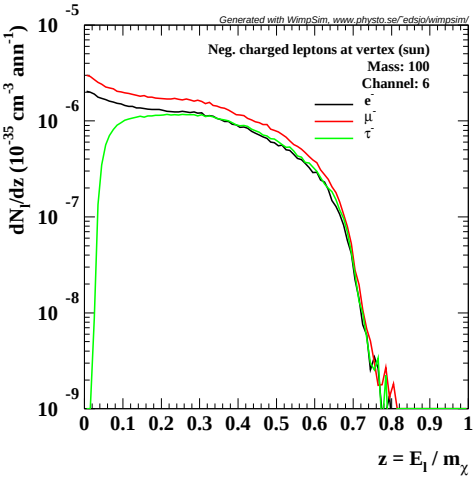
6.5 Channel 6 – Z^0Z^0

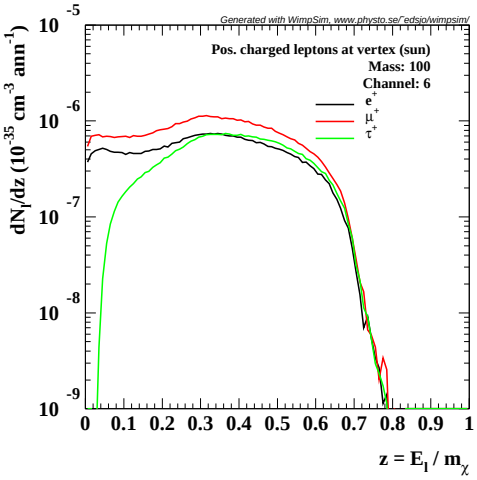
6.5.1 Neutrino fluxes at detector (Sun)



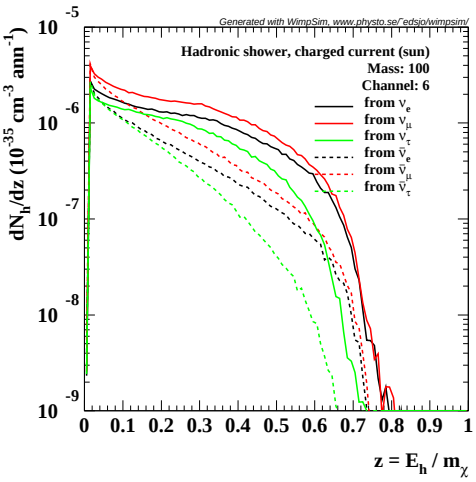


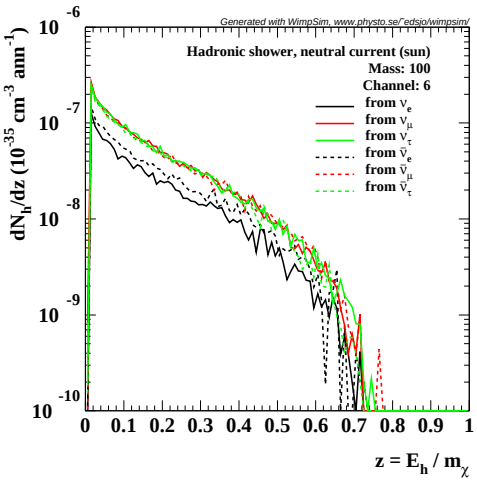
6.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



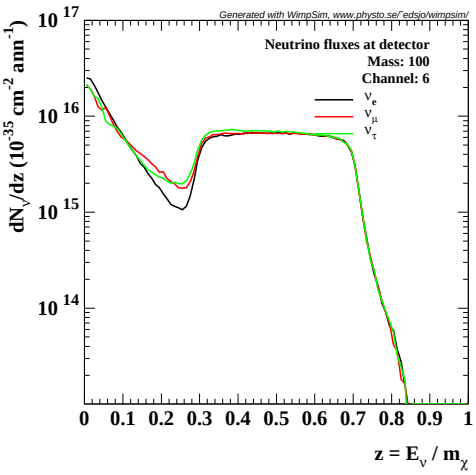


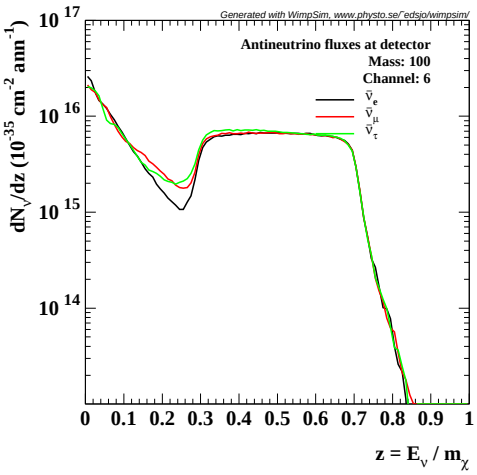
6.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



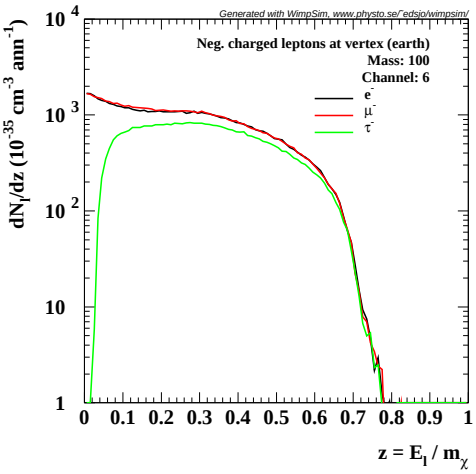


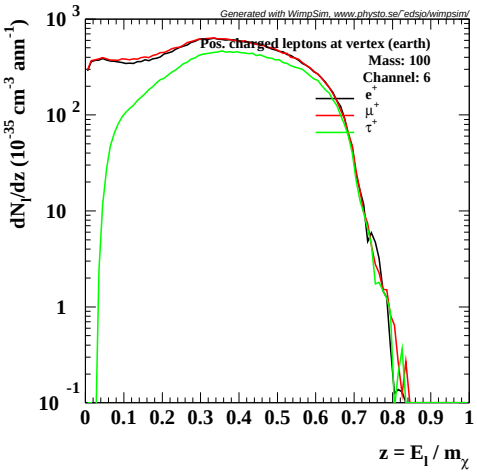
6.5.4 Neutrino fluxes at detector (Earth)



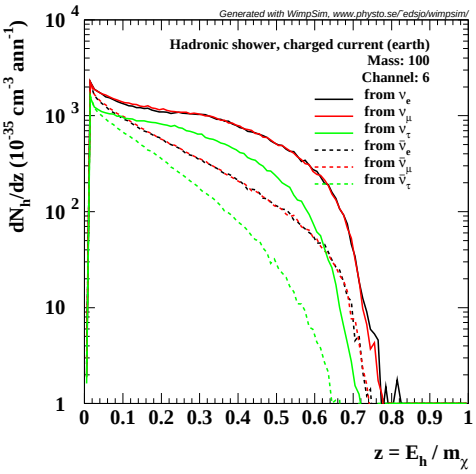


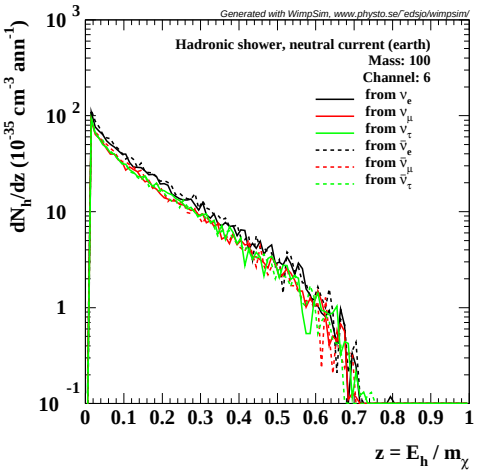
6.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



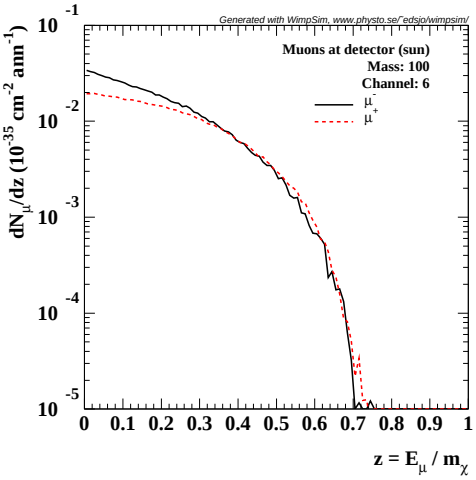


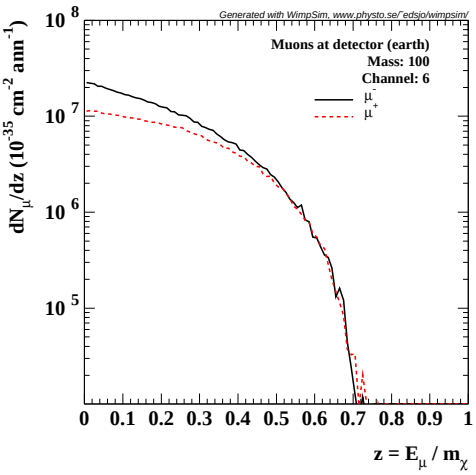
6.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





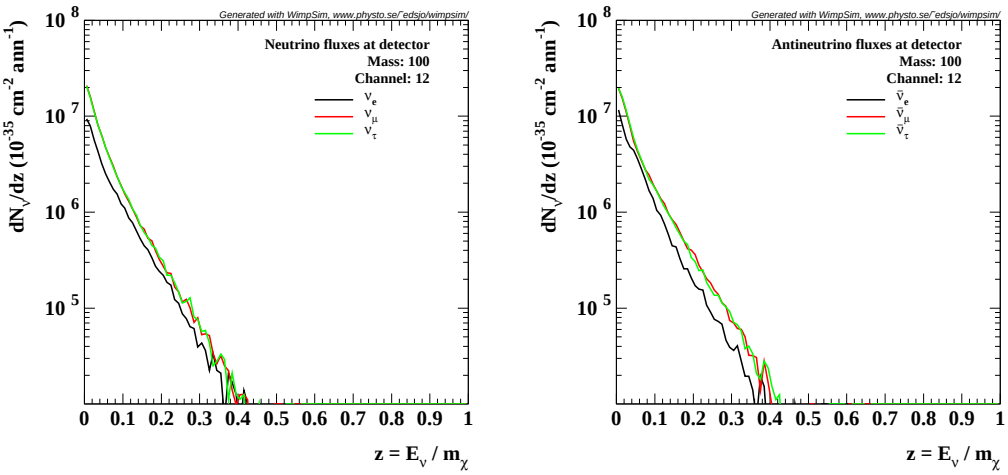
6.5.7 Muons at detector (Sun/Earth)



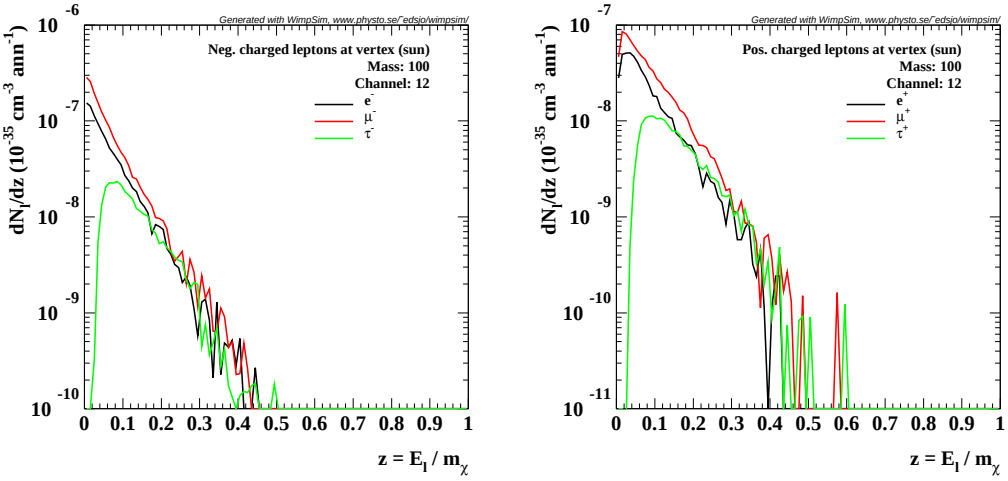


6.6 Channel 12 – gg

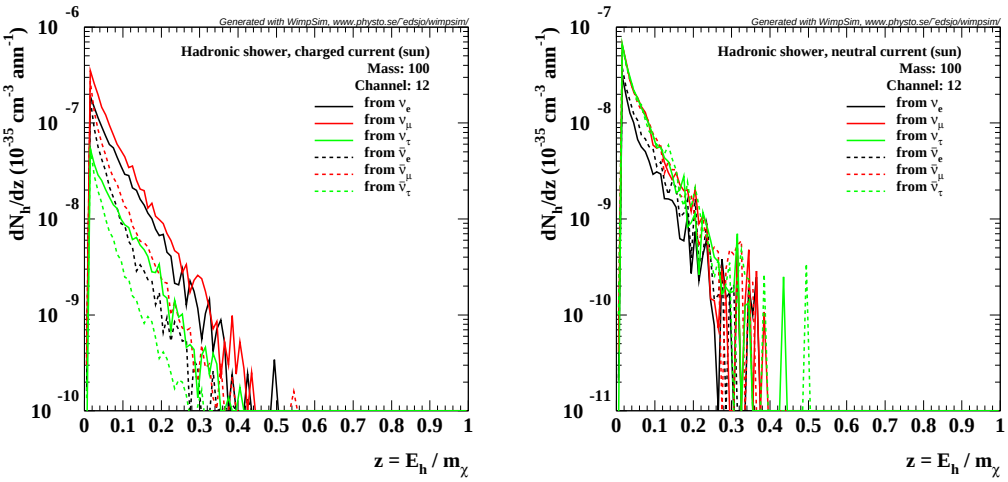
6.6.1 Neutrino fluxes at detector (Sun)



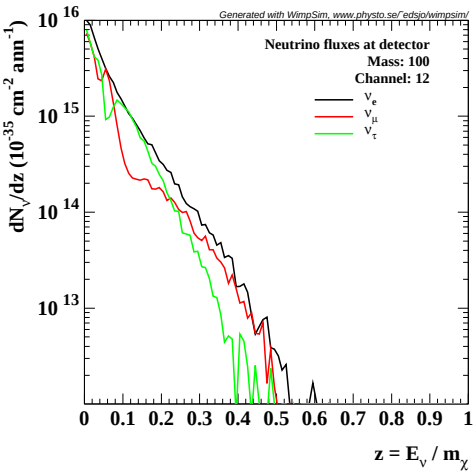
6.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

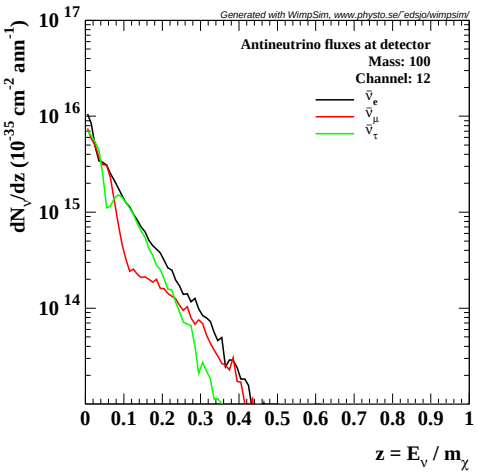


6.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

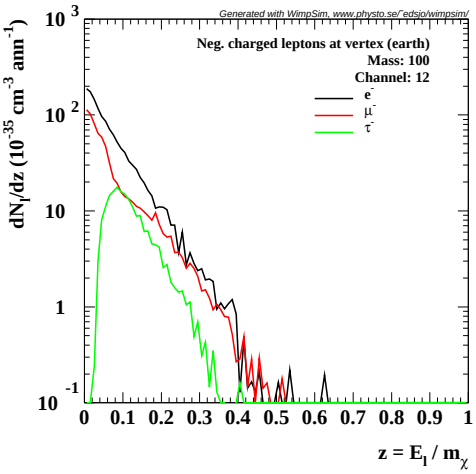


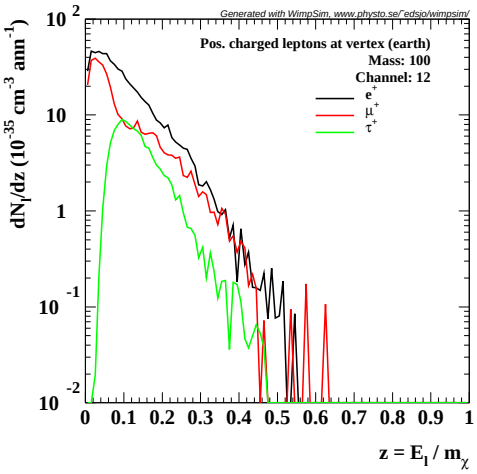
6.6.4 Neutrino fluxes at detector (Earth)



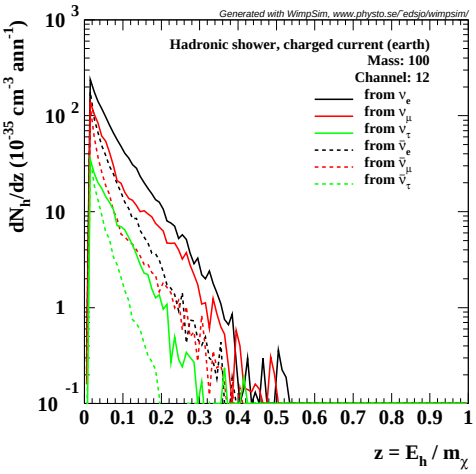


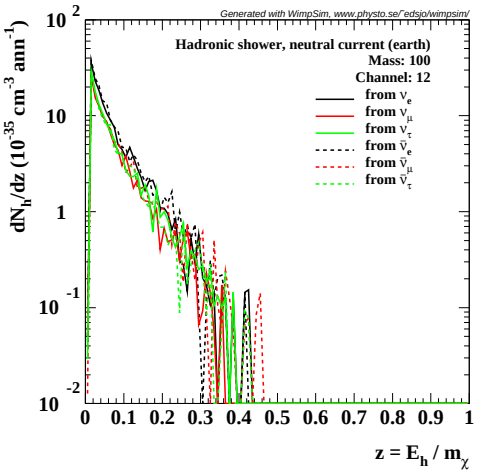
6.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



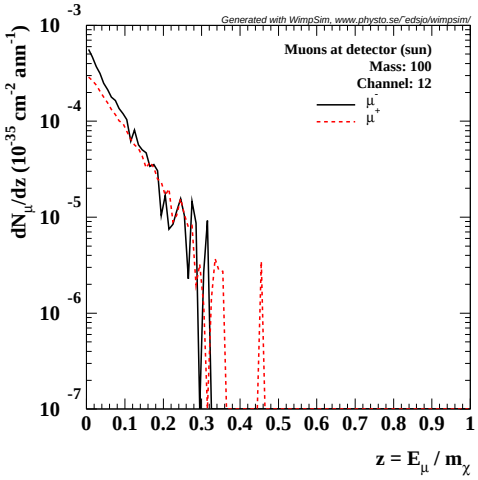


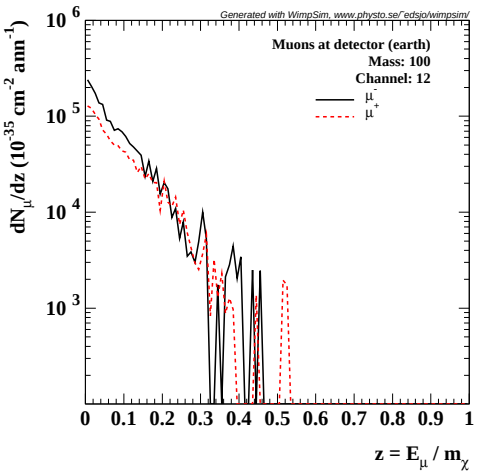
6.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





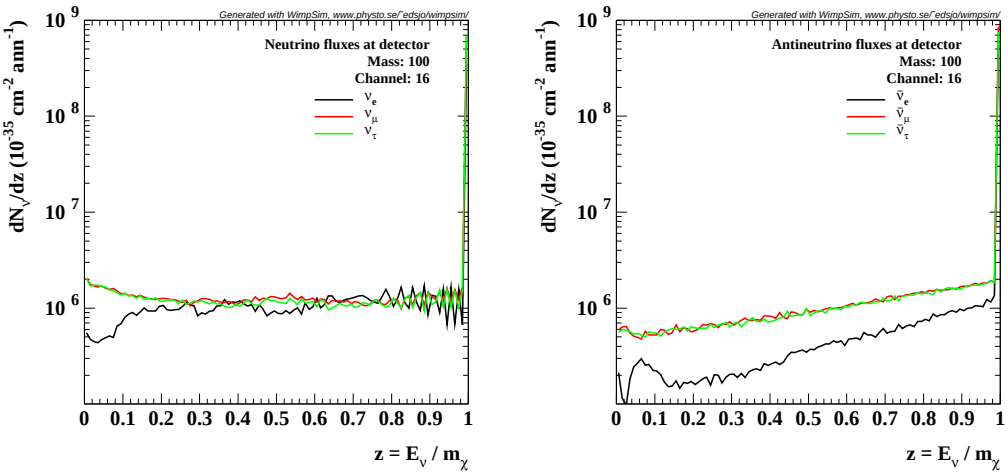
6.6.7 Muons at detector (Sun/Earth)



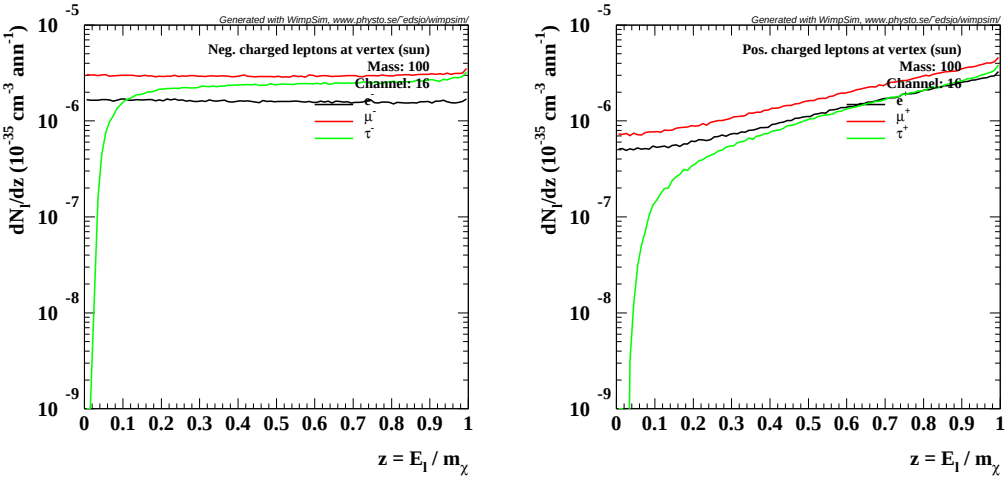


6.7 Channel 16 – $\nu_e\bar{\nu}_e$

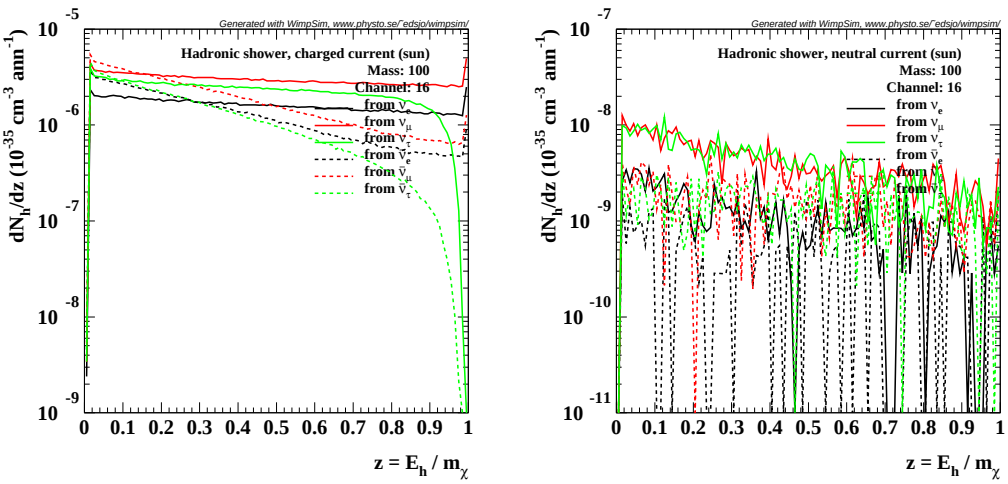
6.7.1 Neutrino fluxes at detector (Sun)



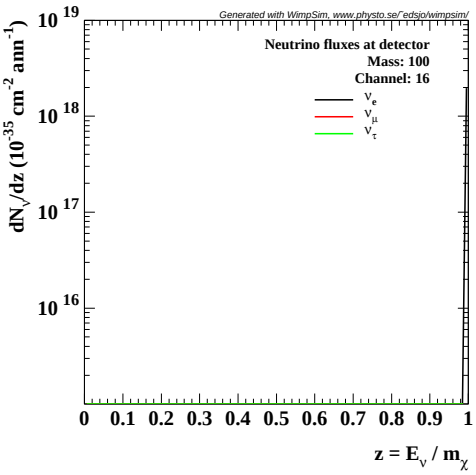
6.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

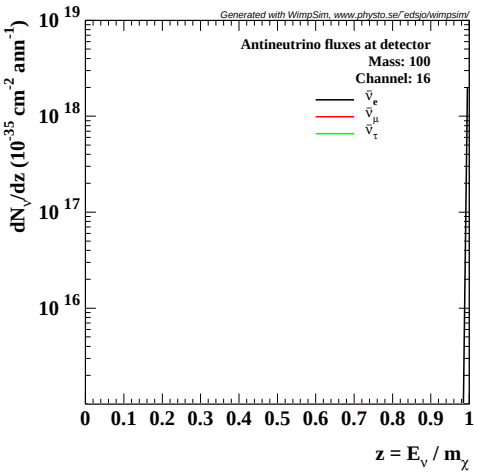


6.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

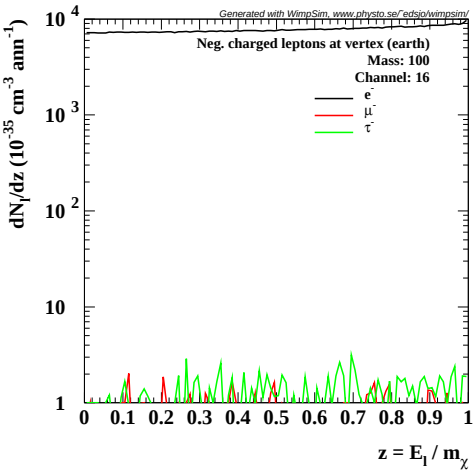


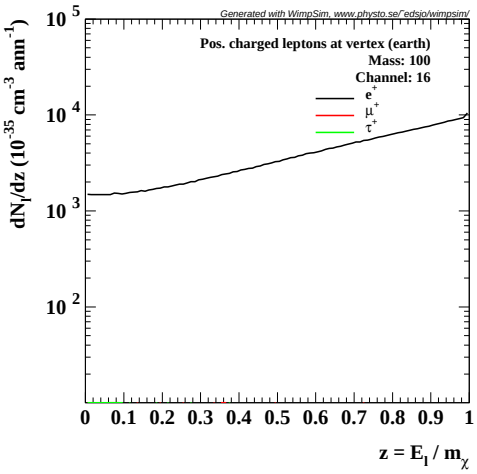
6.7.4 Neutrino fluxes at detector (Earth)



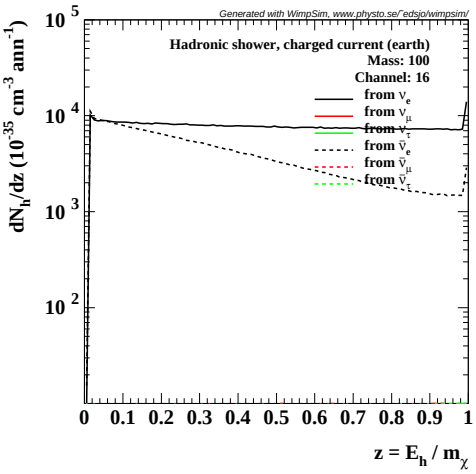


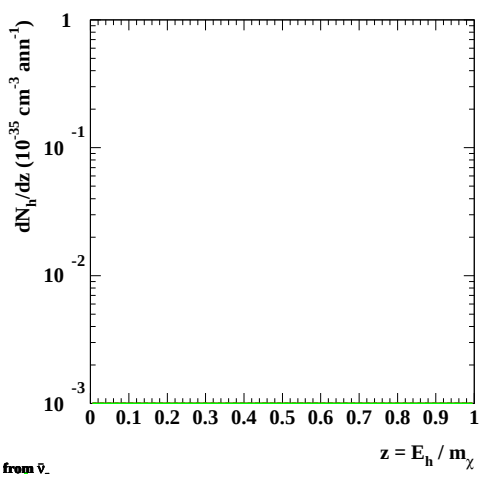
6.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



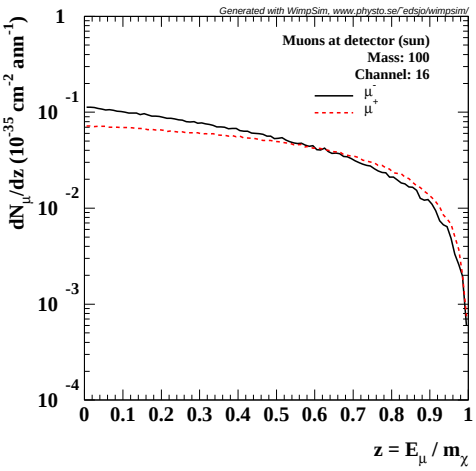


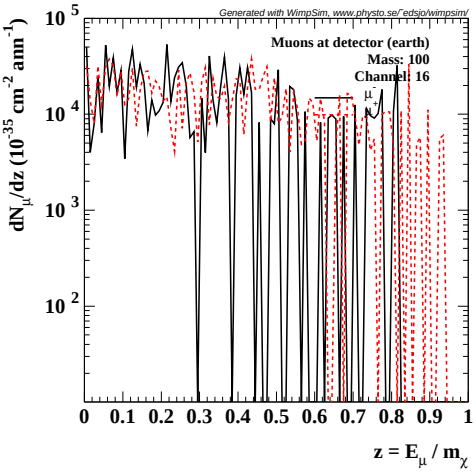
6.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





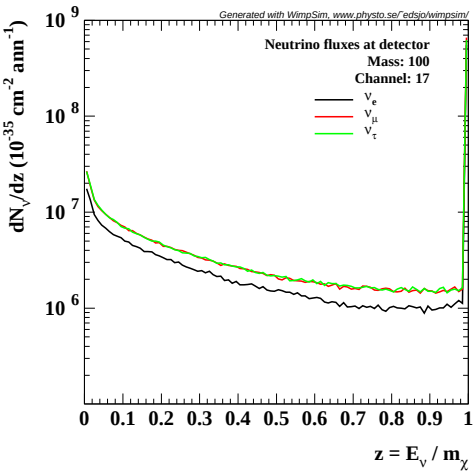
6.7.7 Muons at detector (Sun/Earth)

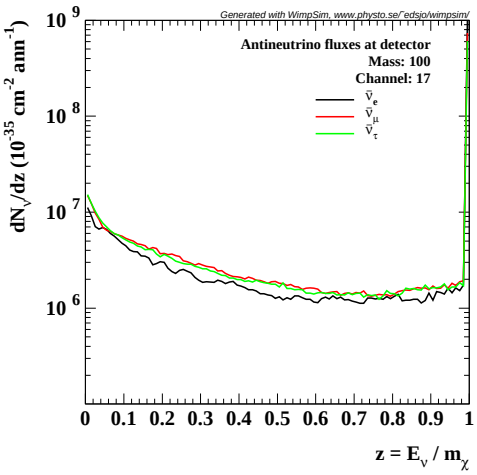




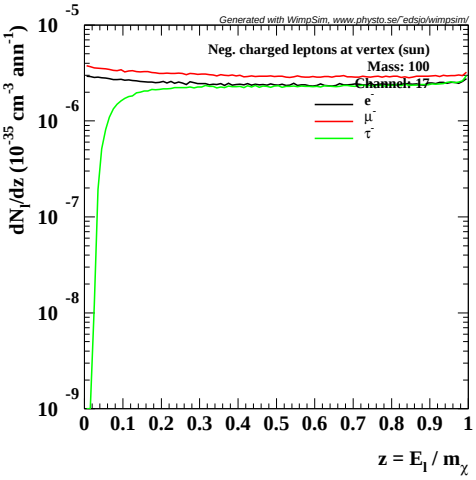
6.8 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

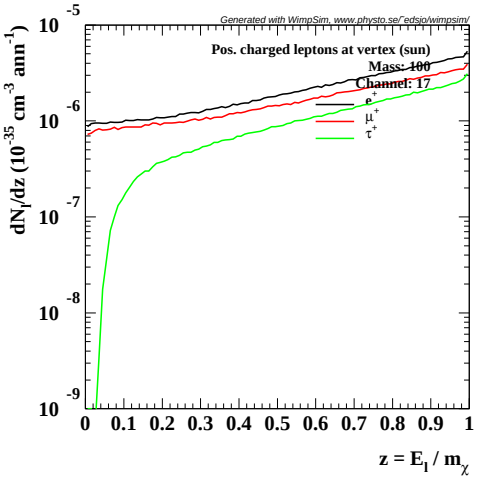
6.8.1 Neutrino fluxes at detector (Sun)



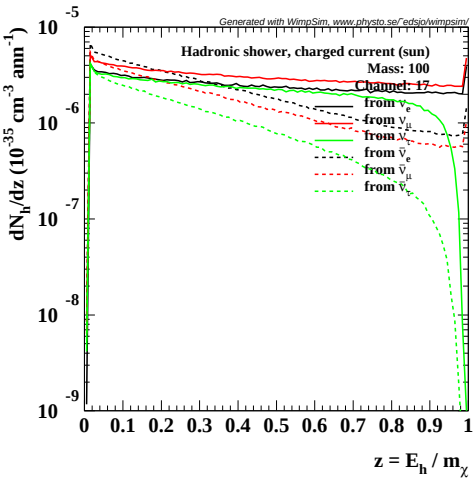


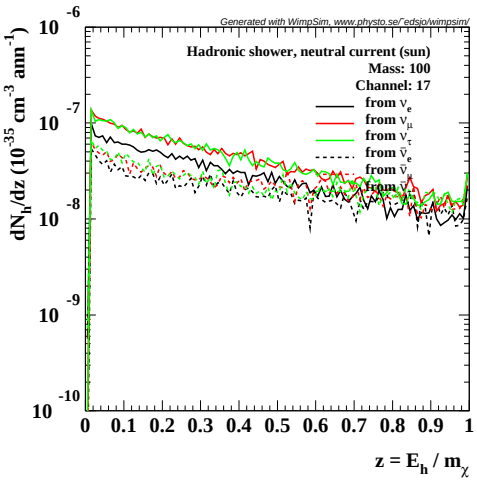
6.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



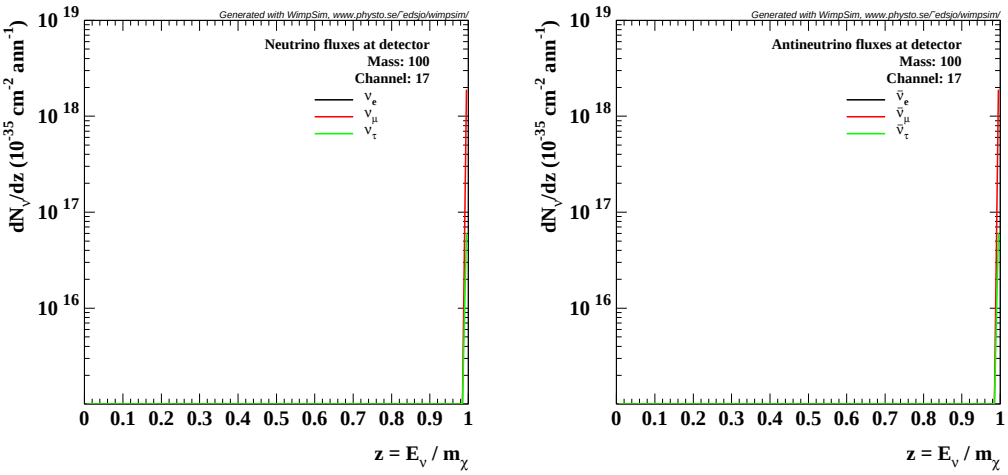


6.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

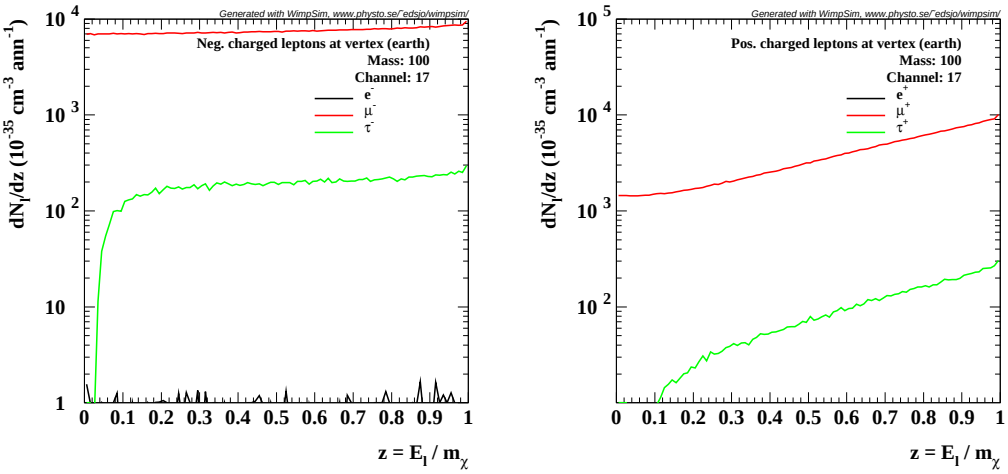




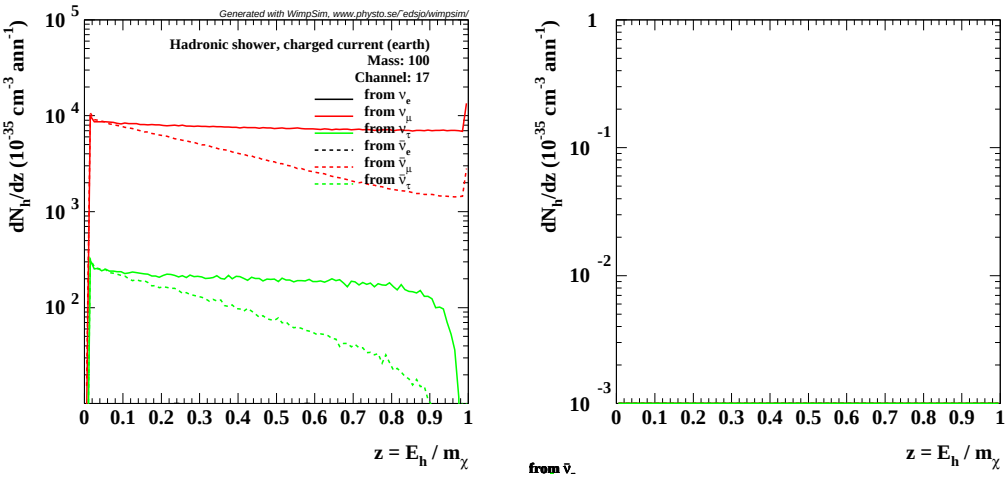
6.8.4 Neutrino fluxes at detector (Earth)



6.8.5 Charged leptons at neutrino-nucleon vertex (Earth)

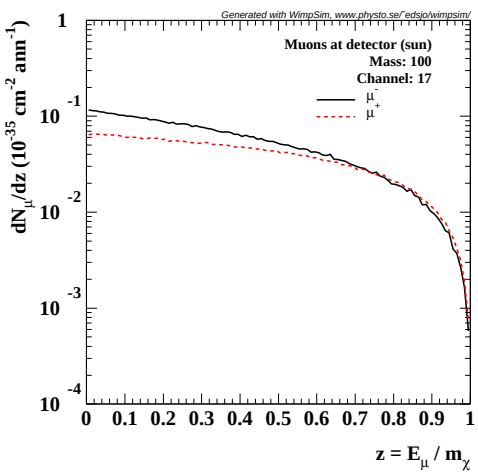


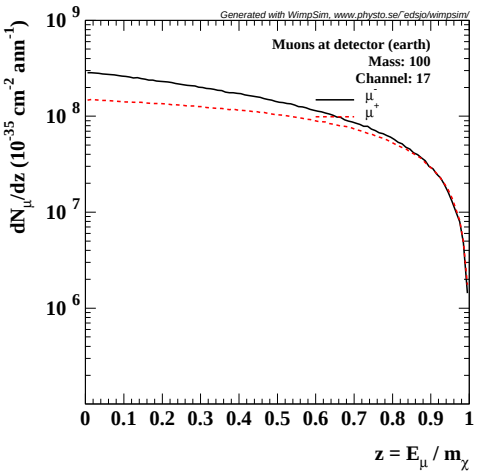
6.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

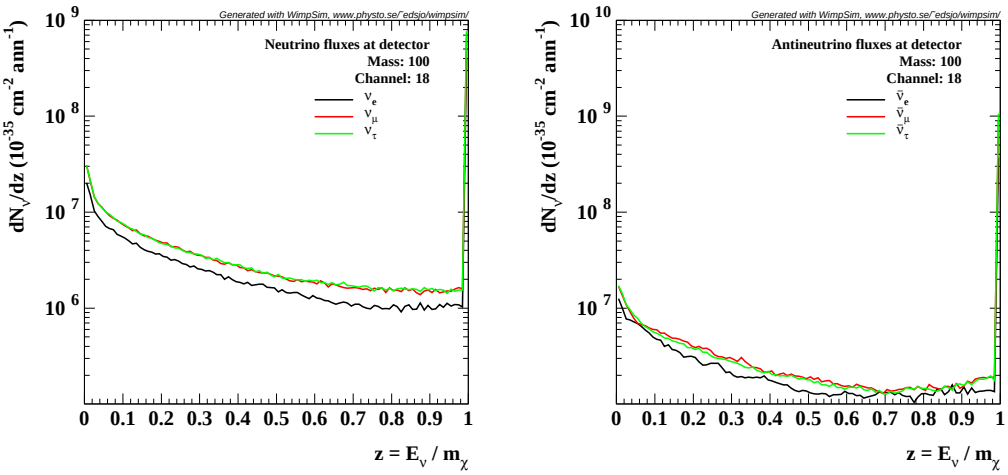
6.8.7 Muons at detector (Sun/Earth)



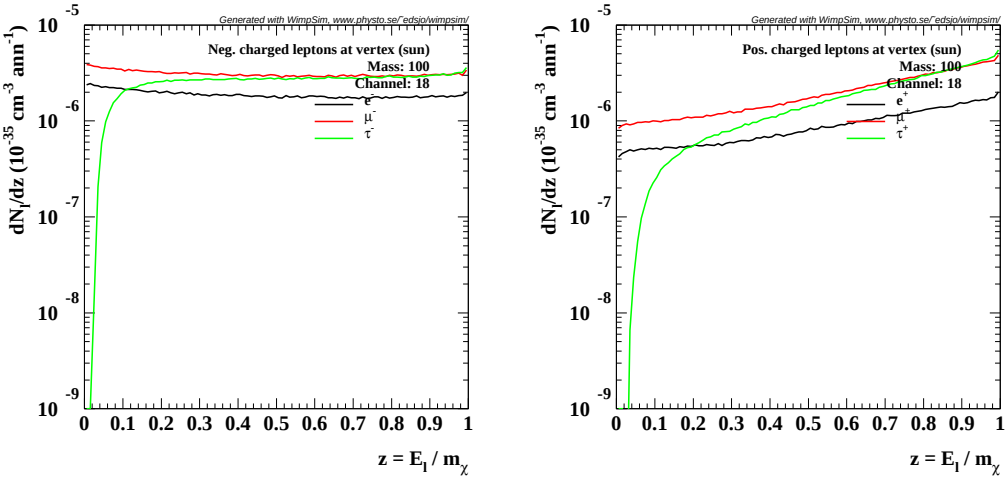


6.9 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

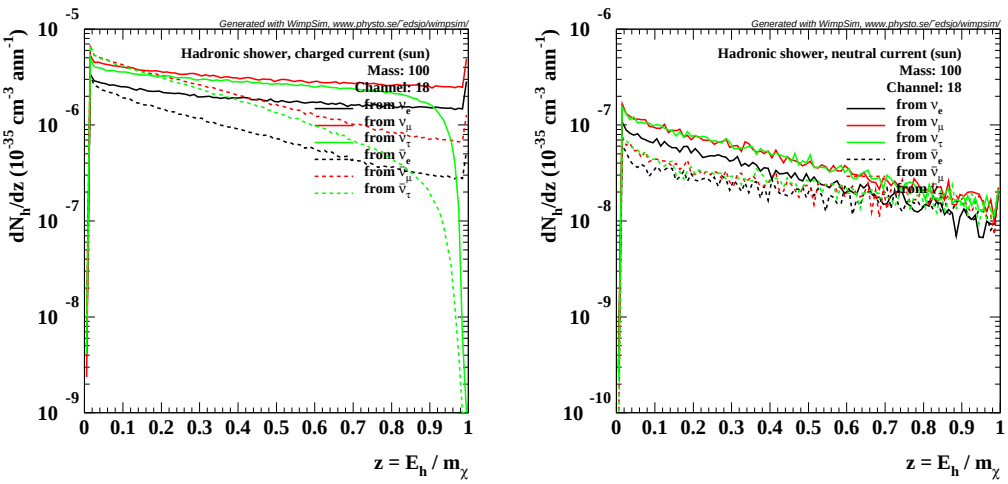
6.9.1 Neutrino fluxes at detector (Sun)



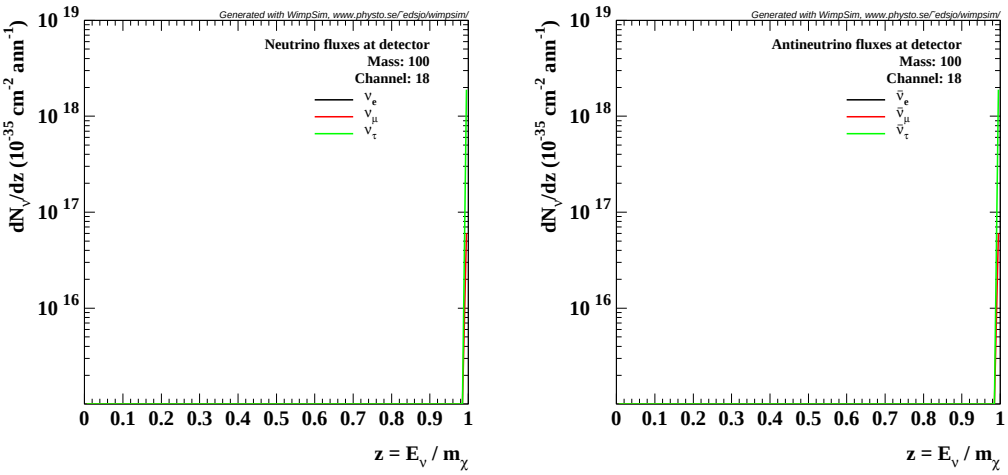
6.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



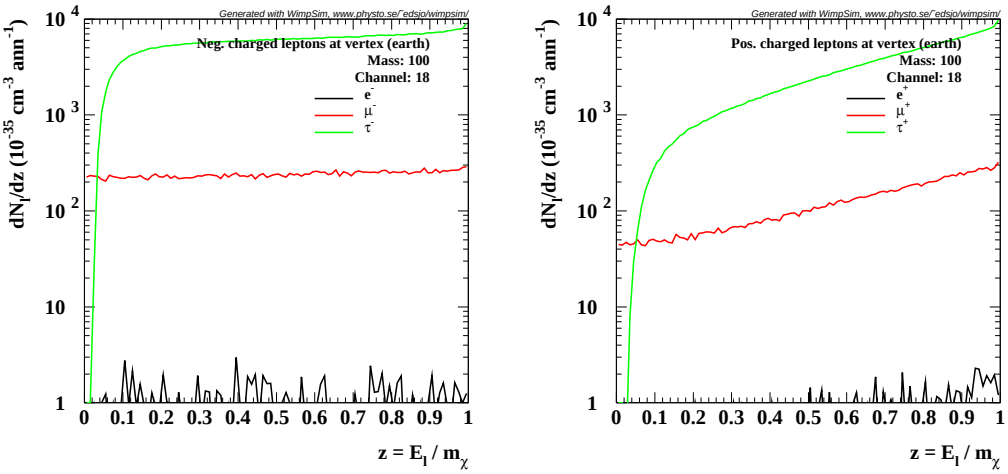
6.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



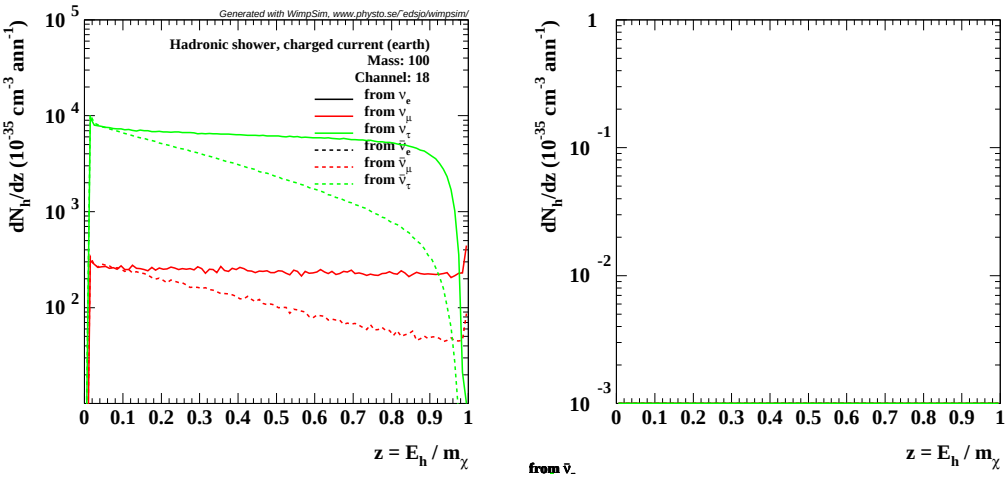
6.9.4 Neutrino fluxes at detector (Earth)



6.9.5 Charged leptons at neutrino-nucleon vertex (Earth)

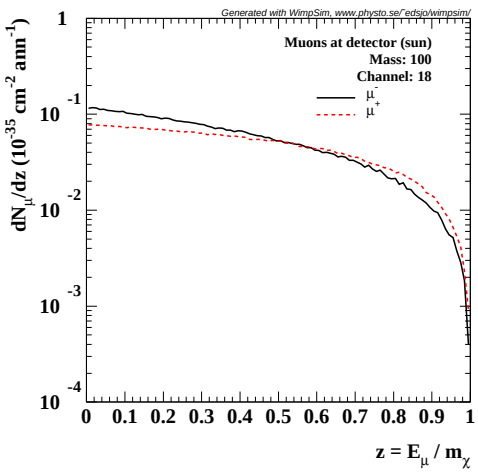


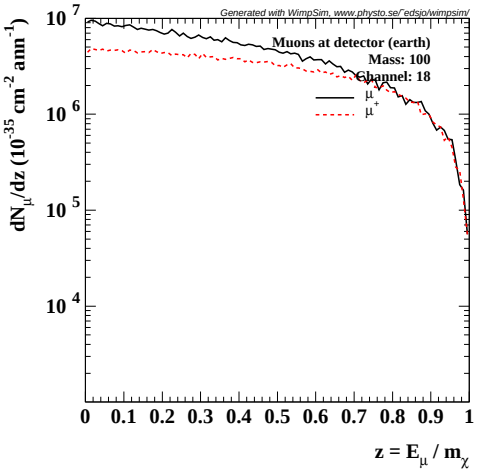
6.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

6.9.7 Muons at detector (Sun/Earth)

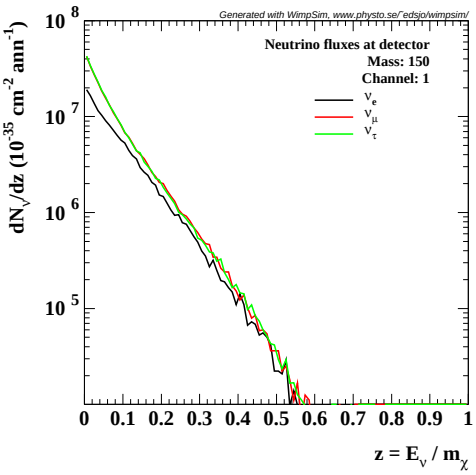


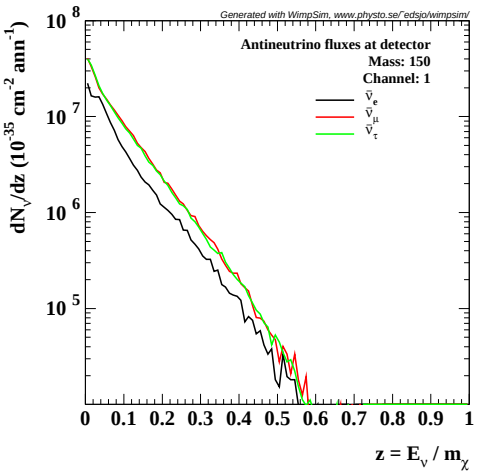


7 Mass 150

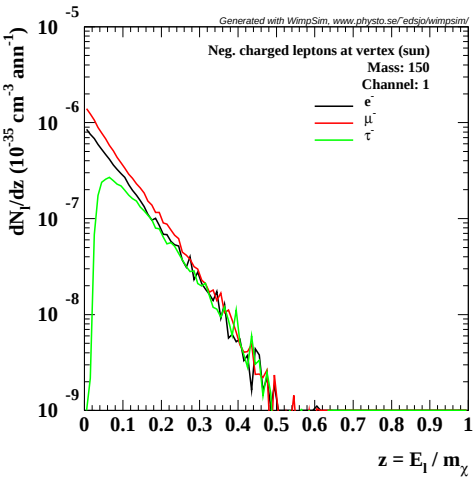
7.1 Channel 1 – $c\bar{c}$

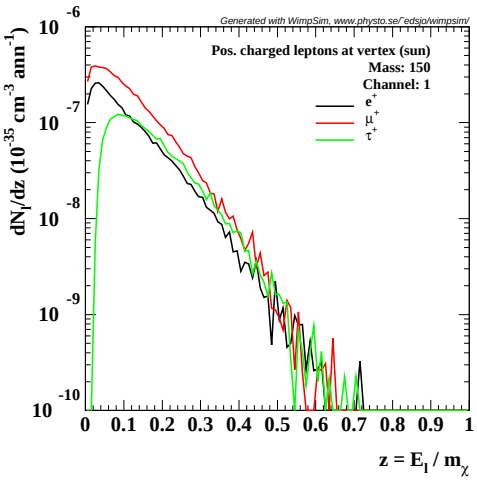
7.1.1 Neutrino fluxes at detector (Sun)



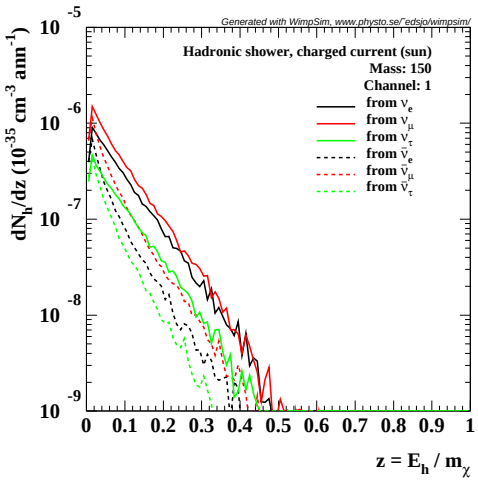


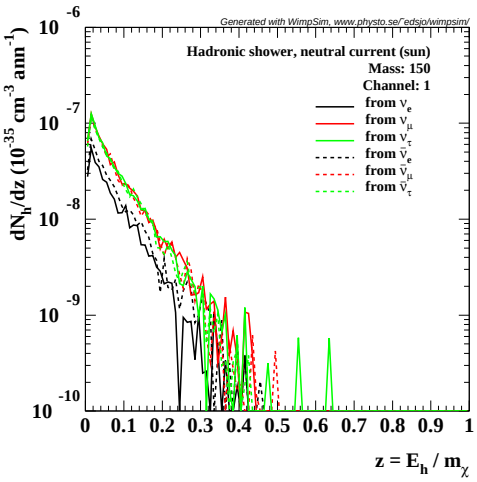
7.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



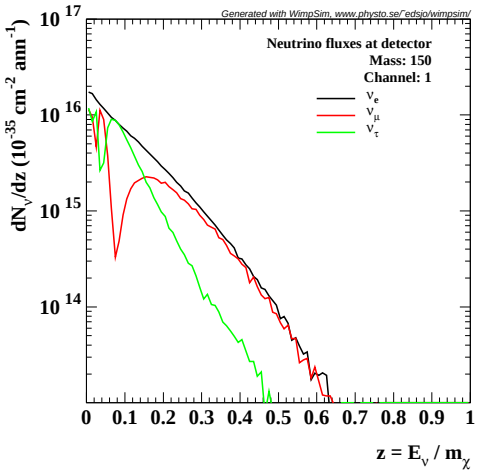


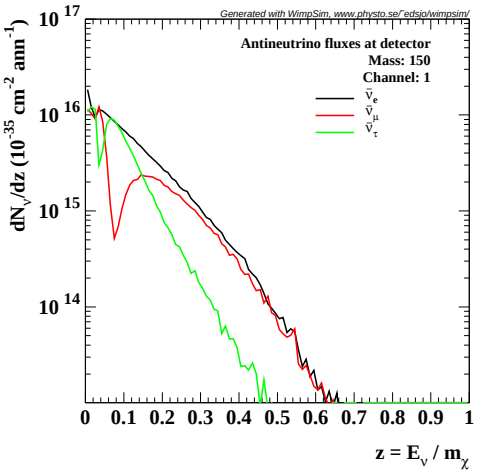
7.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



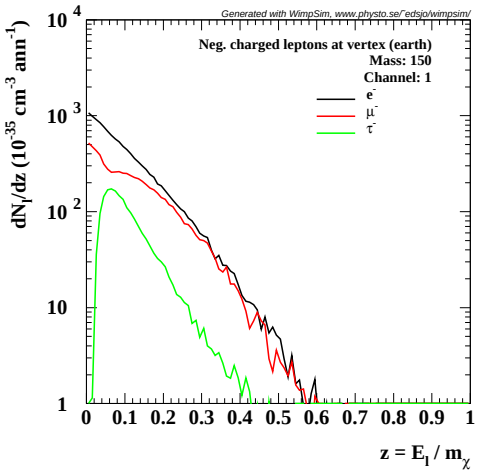


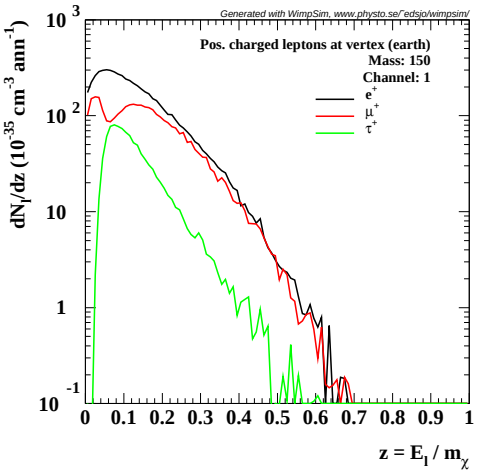
7.1.4 Neutrino fluxes at detector (Earth)



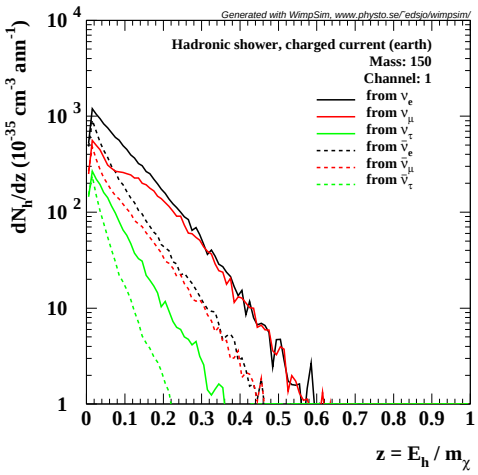


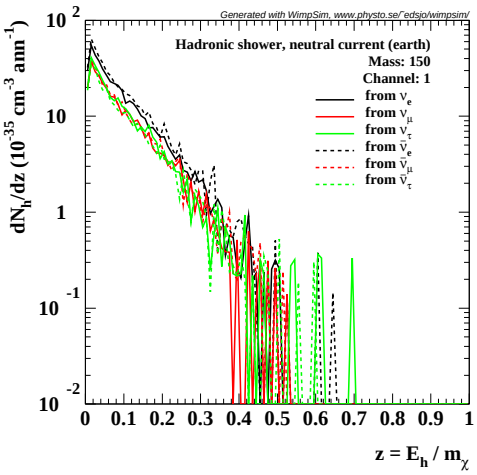
7.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



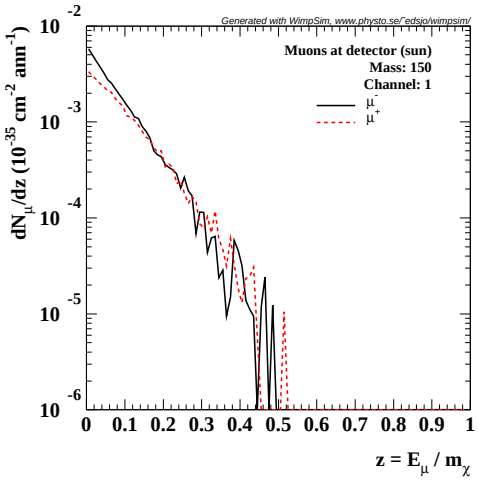


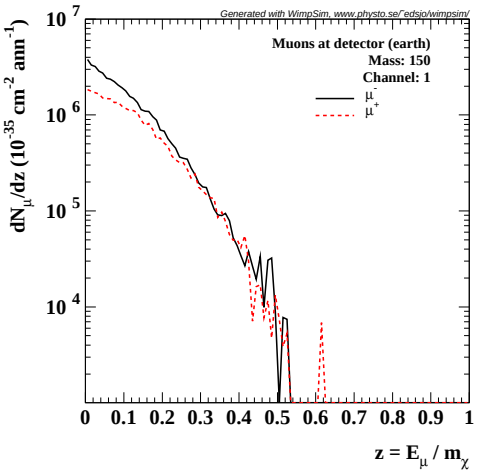
7.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





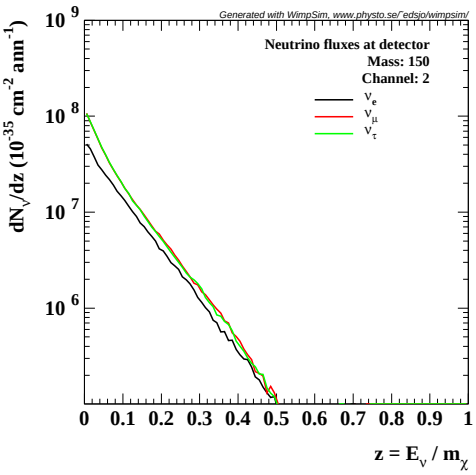
7.1.7 Muons at detector (Sun/Earth)

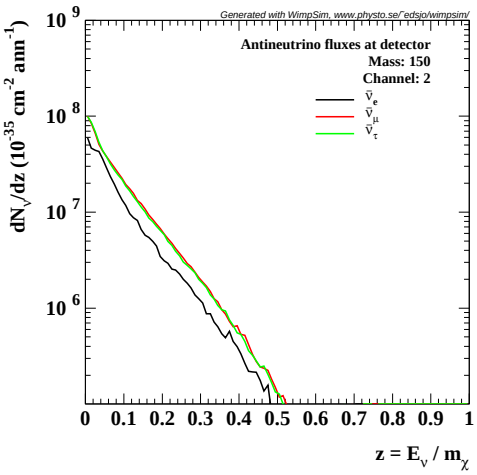




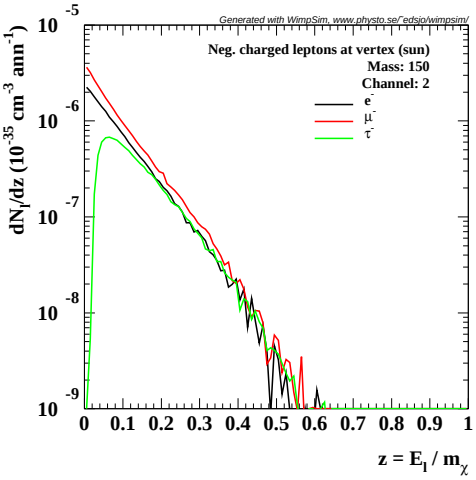
7.2 Channel 2 – $b\bar{b}$

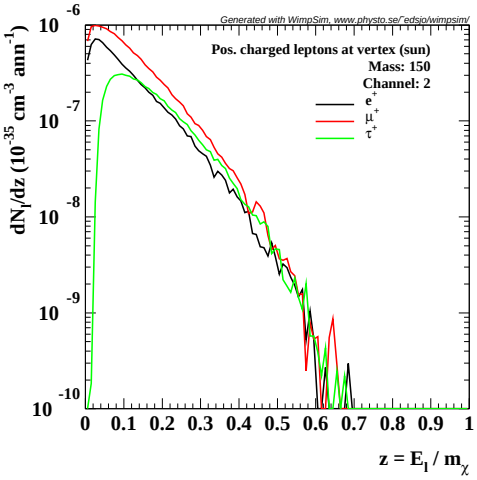
7.2.1 Neutrino fluxes at detector (Sun)



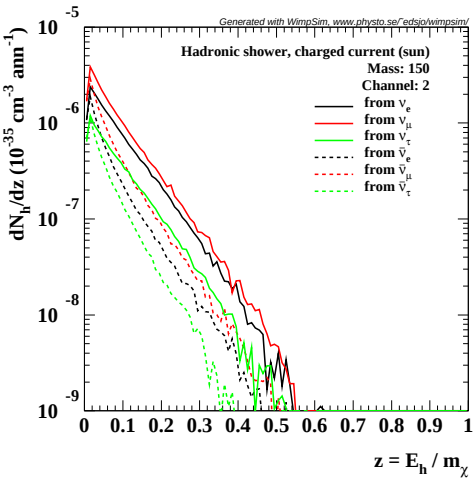


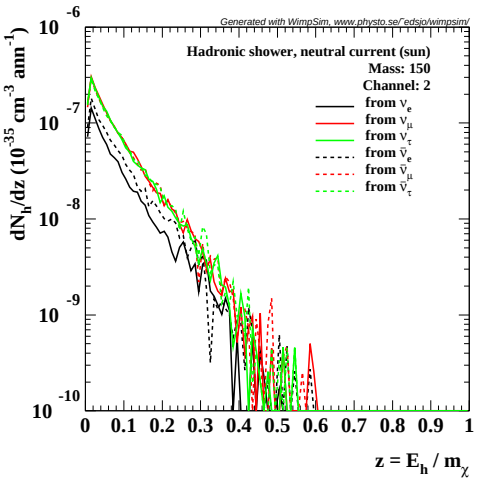
7.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



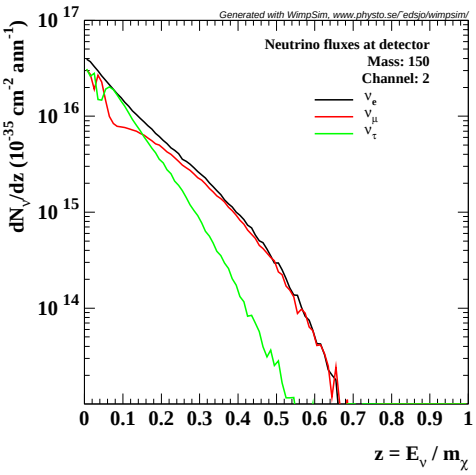


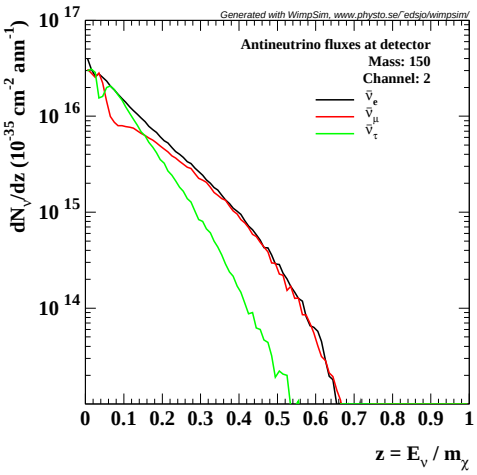
7.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



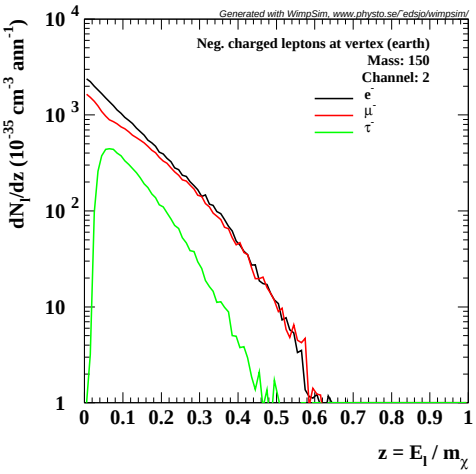


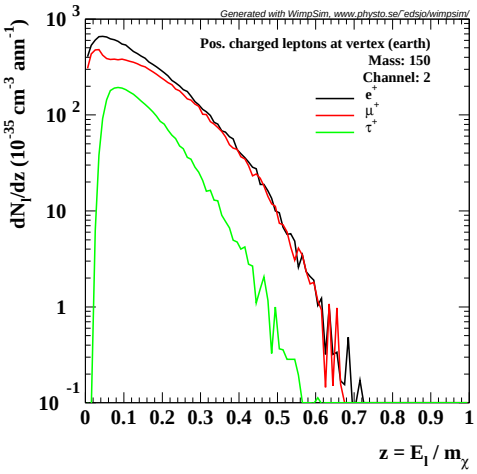
7.2.4 Neutrino fluxes at detector (Earth)



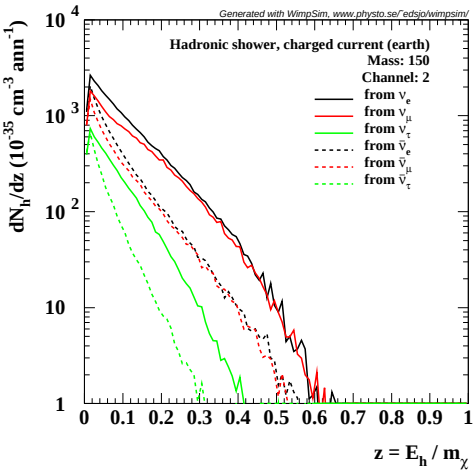


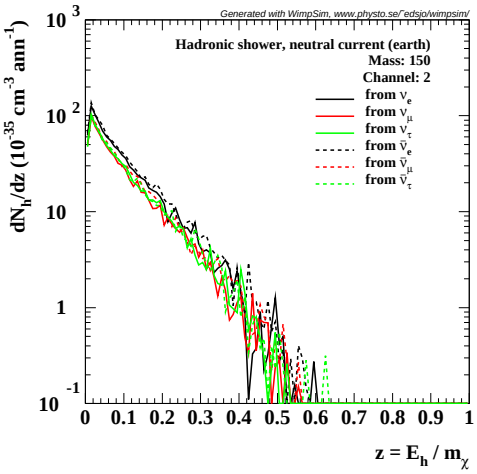
7.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



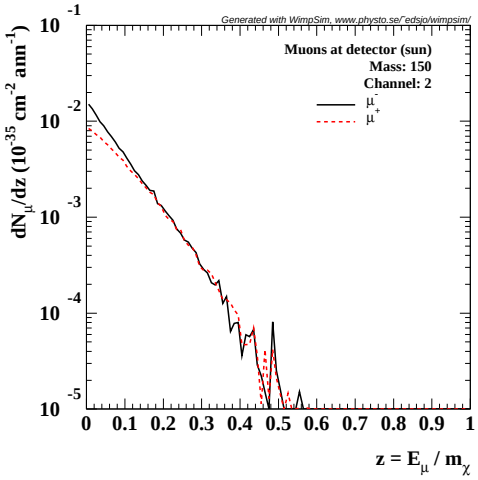


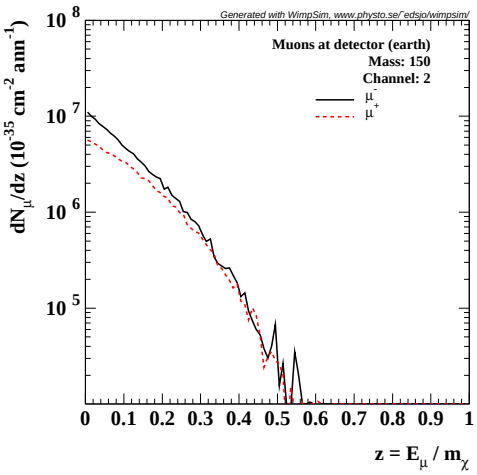
7.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





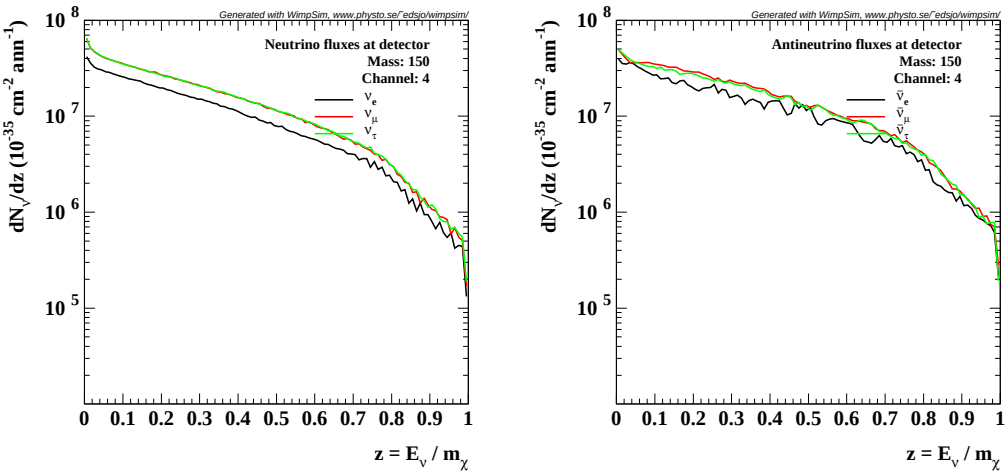
7.2.7 Muons at detector (Sun/Earth)



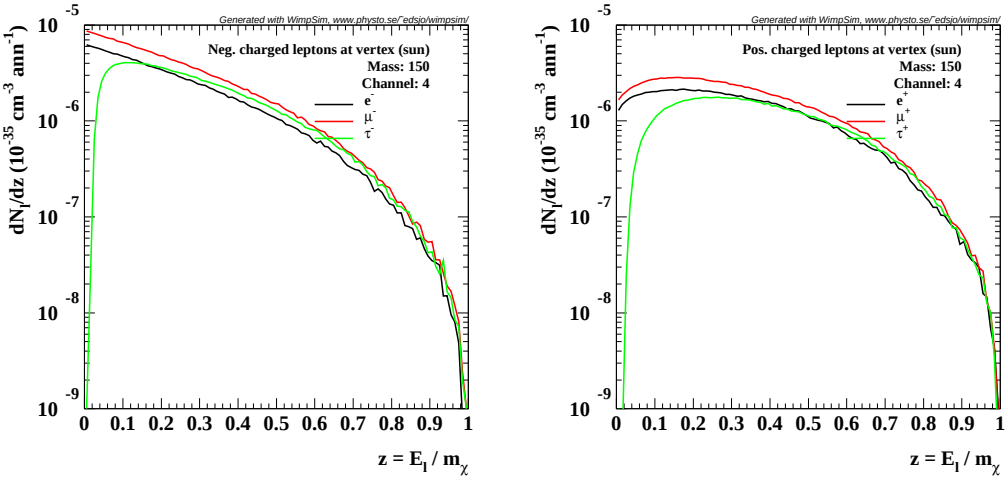


7.3 Channel 4 – $\tau^-\tau^+$

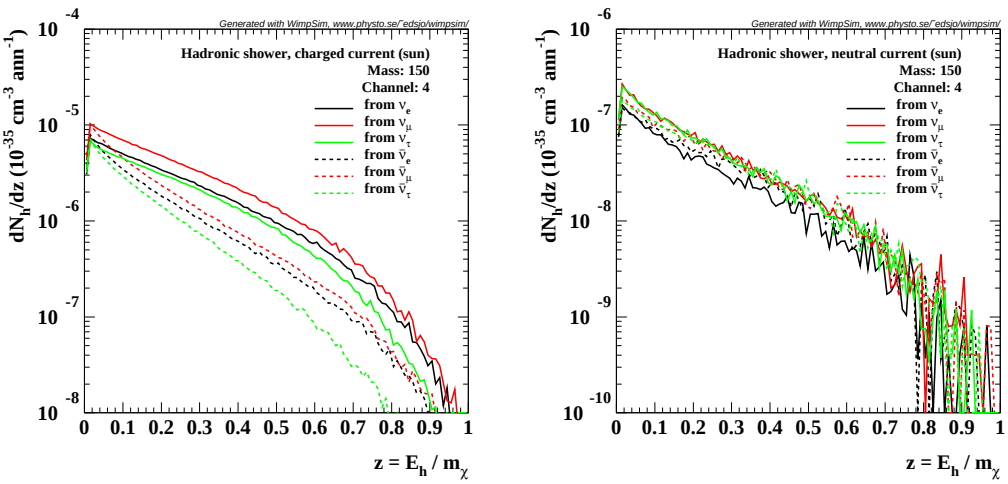
7.3.1 Neutrino fluxes at detector (Sun)



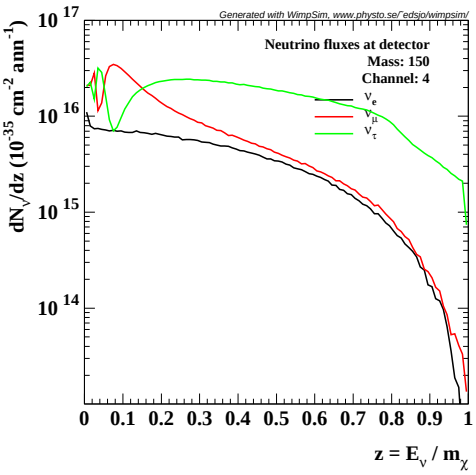
7.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

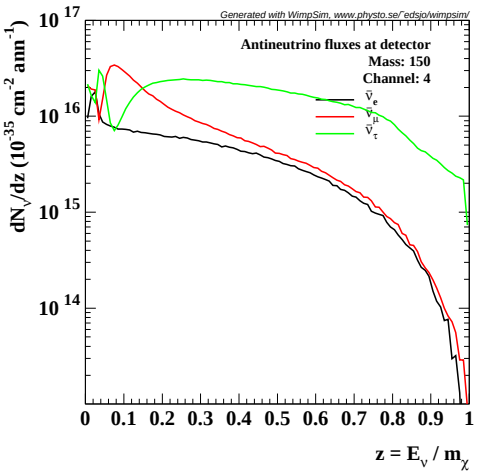


7.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

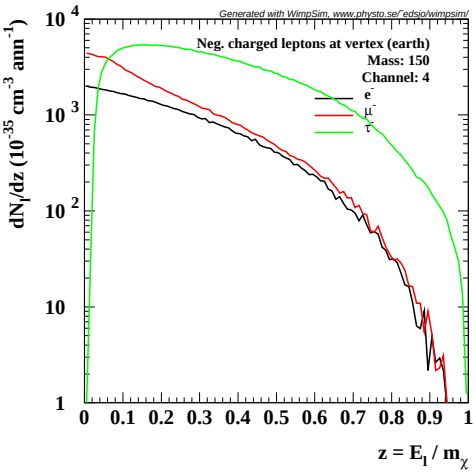


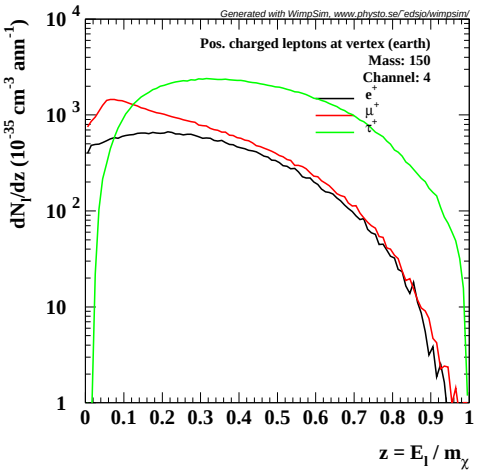
7.3.4 Neutrino fluxes at detector (Earth)



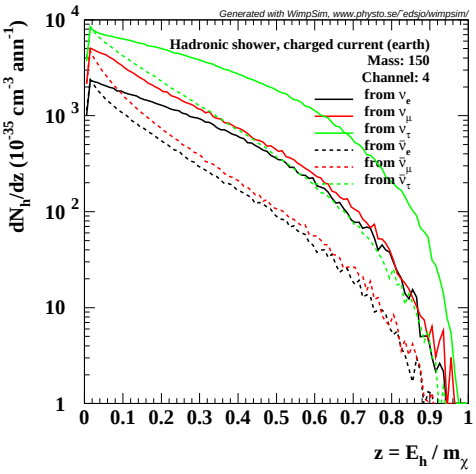


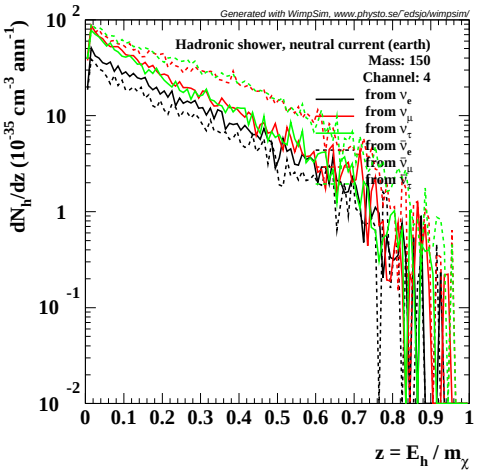
7.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



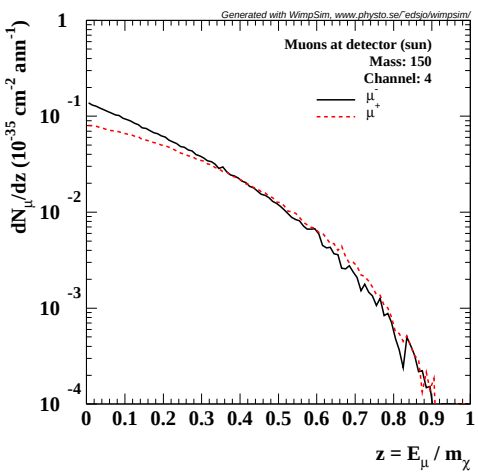


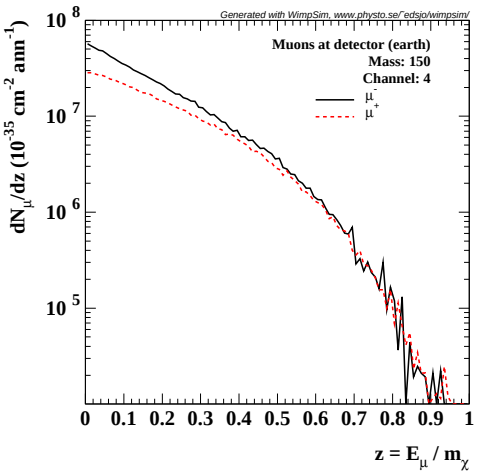
7.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





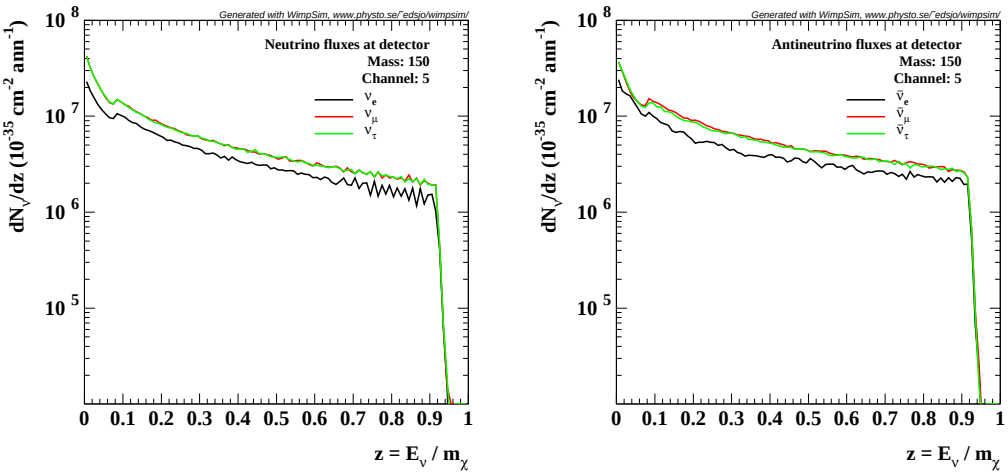
7.3.7 Muons at detector (Sun/Earth)



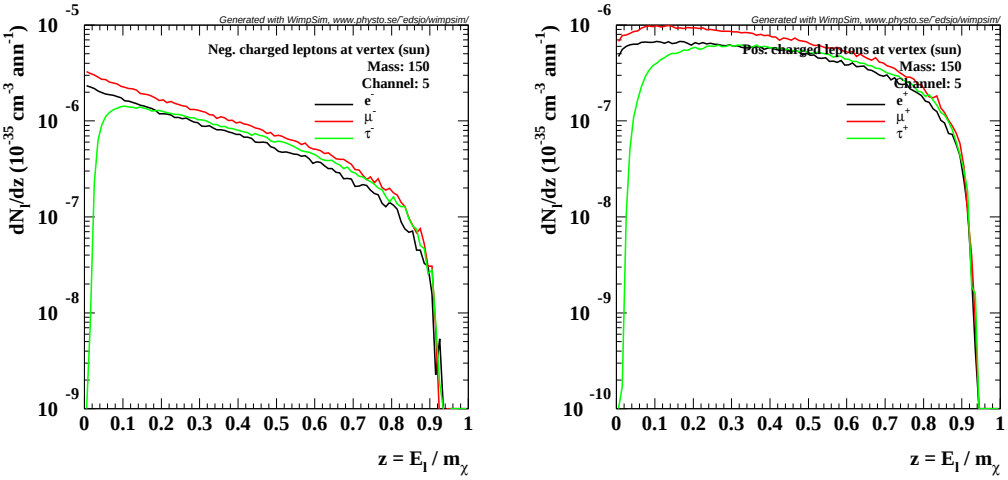


7.4 Channel 5 – W^-W^+

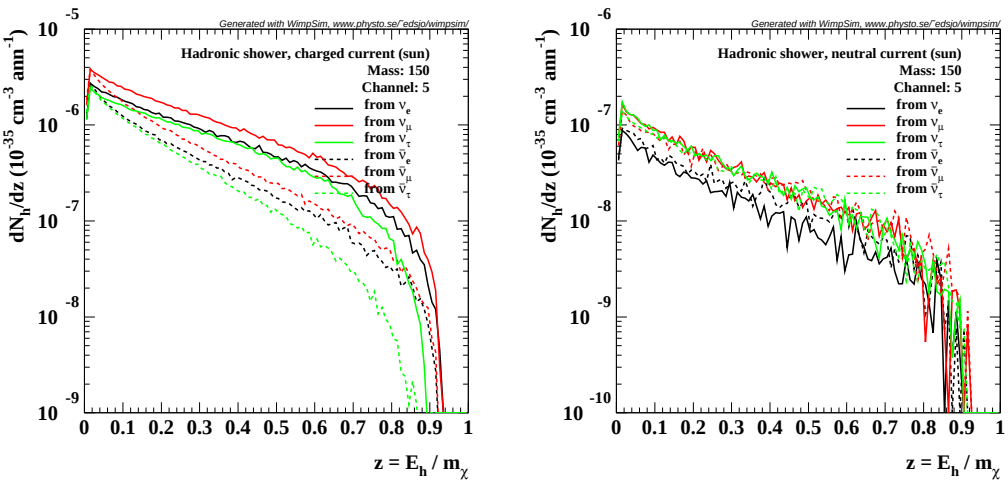
7.4.1 Neutrino fluxes at detector (Sun)



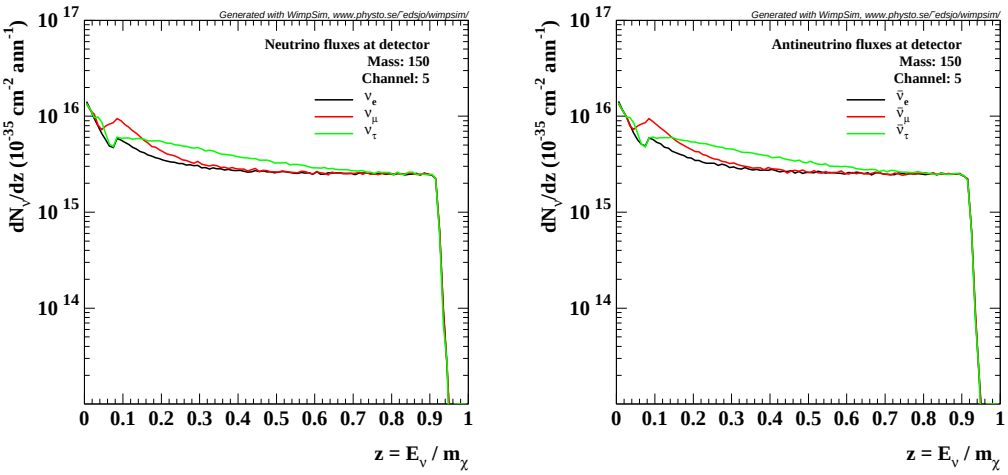
7.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



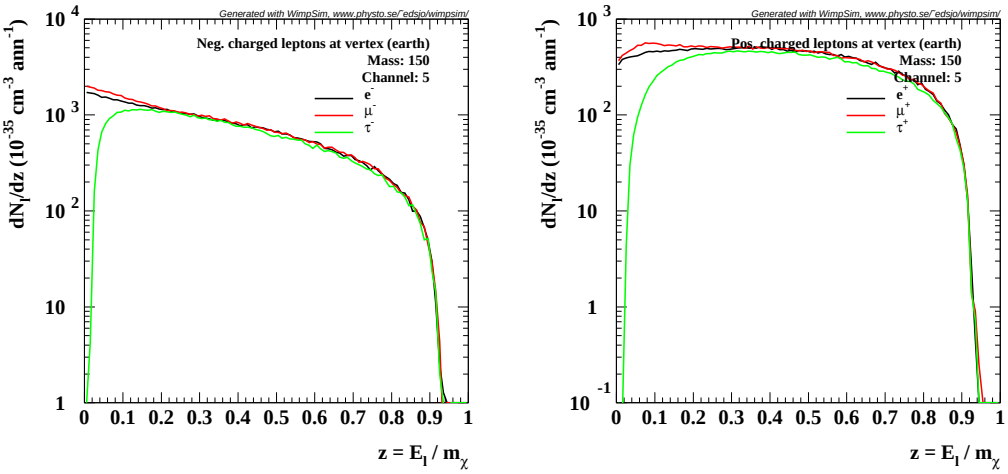
7.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



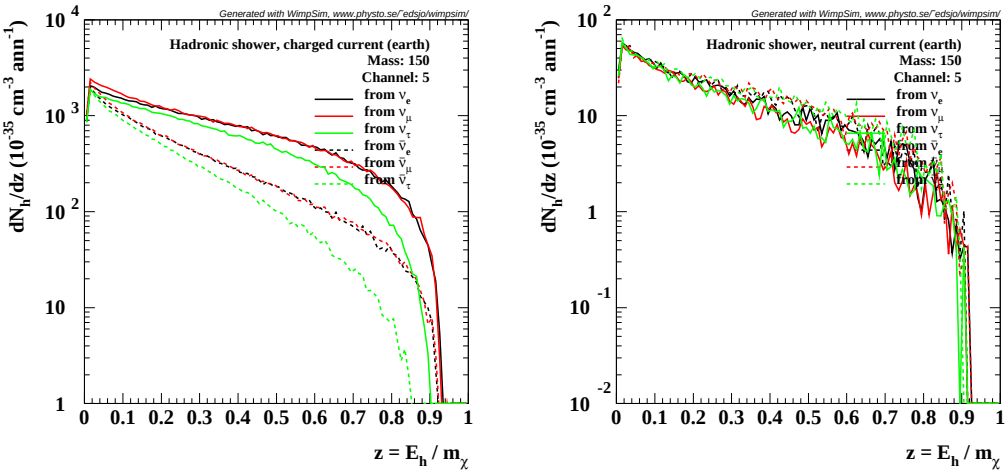
7.4.4 Neutrino fluxes at detector (Earth)



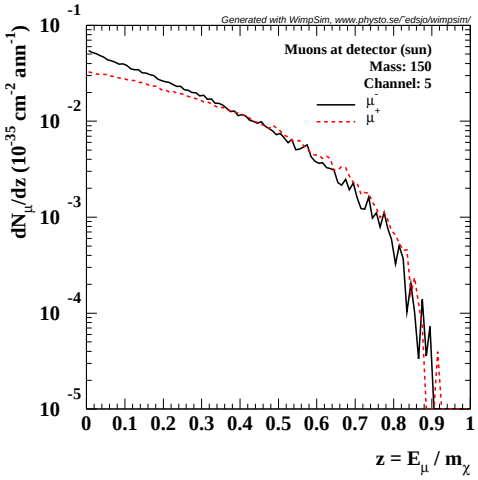
7.4.5 Charged leptons at neutrino-nucleon vertex (Earth)

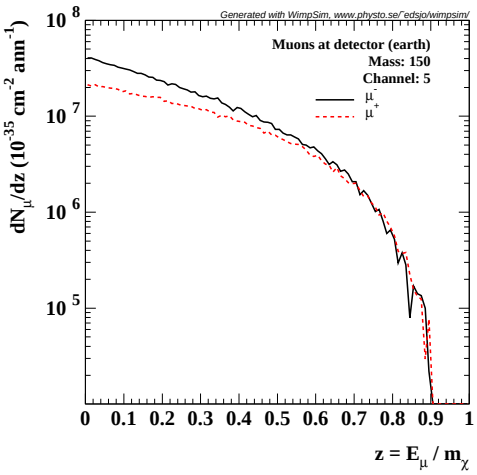


7.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)



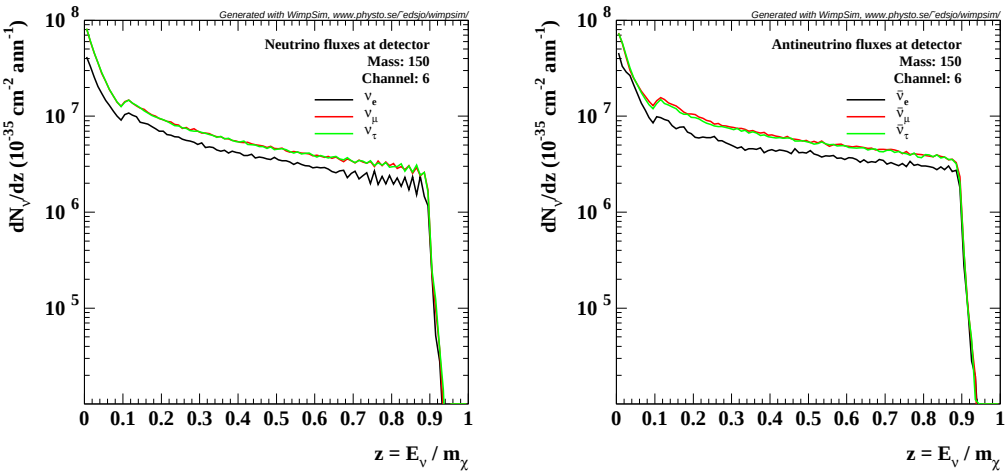
7.4.7 Muons at detector (Sun/Earth)



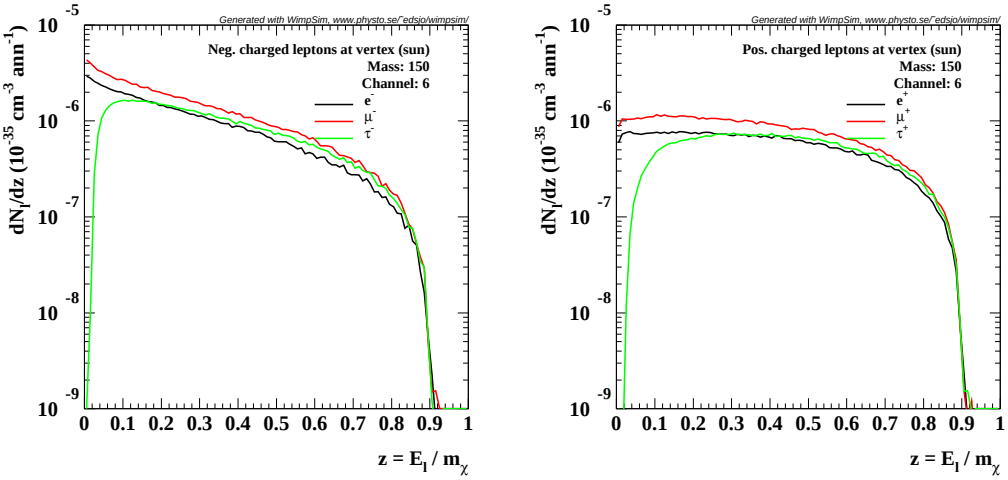


7.5 Channel 6 – Z^0Z^0

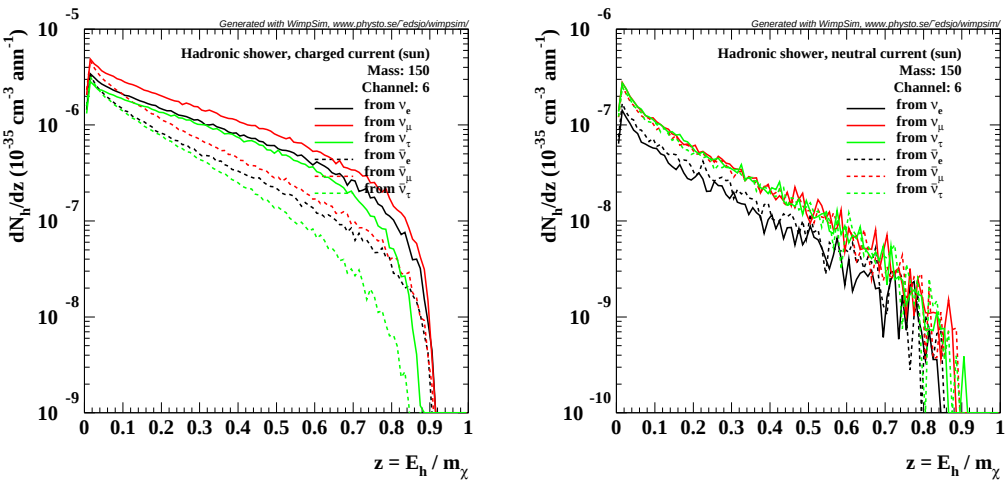
7.5.1 Neutrino fluxes at detector (Sun)



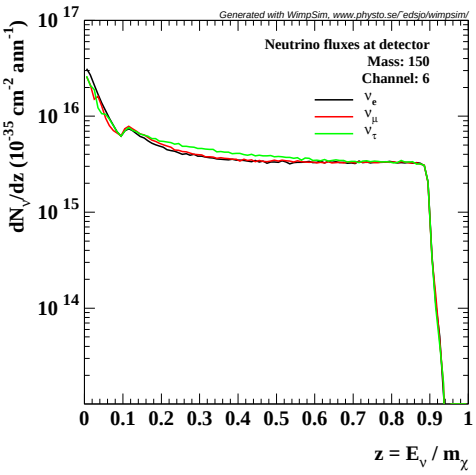
7.5.2 Charged leptons at neutrino-nucleon vertex (Sun)

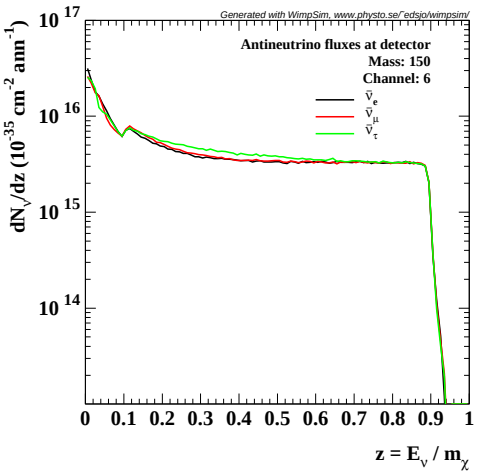


7.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

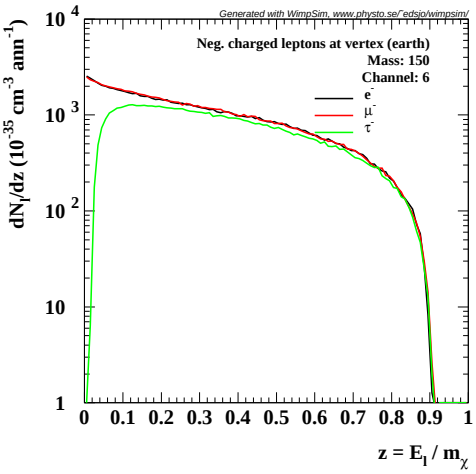


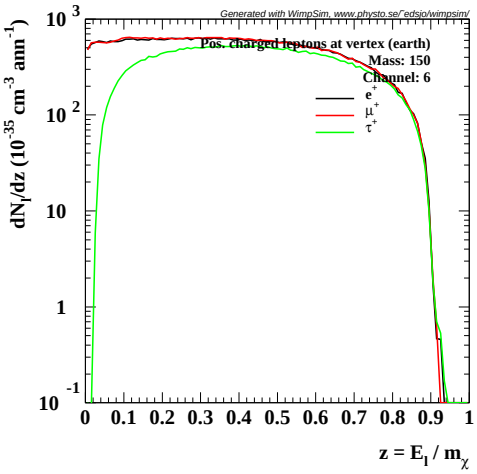
7.5.4 Neutrino fluxes at detector (Earth)



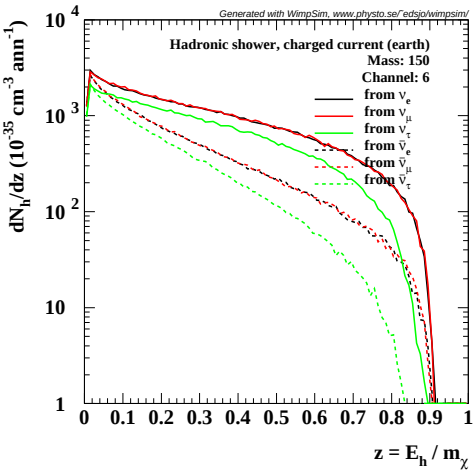


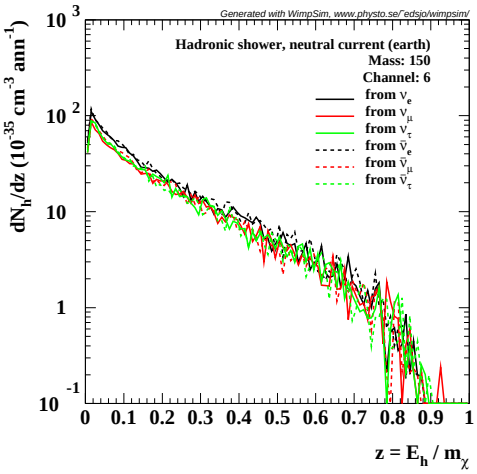
7.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



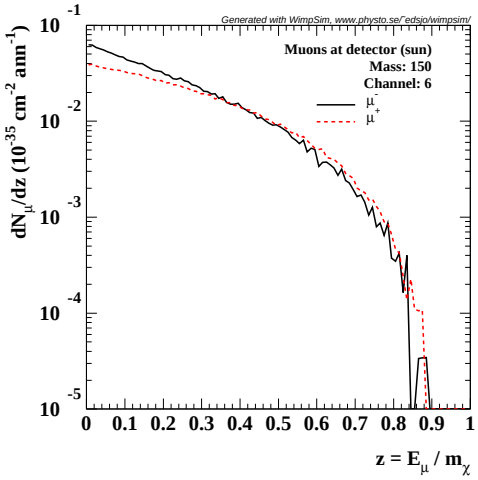


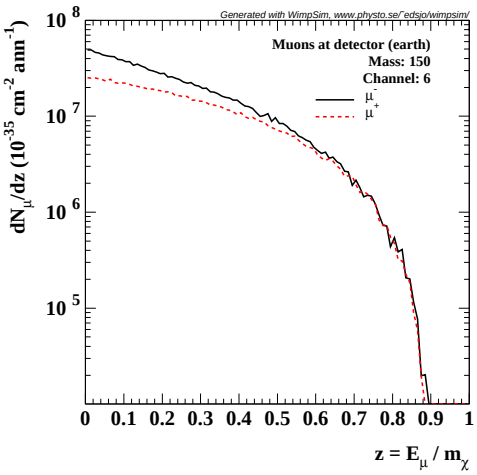
7.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





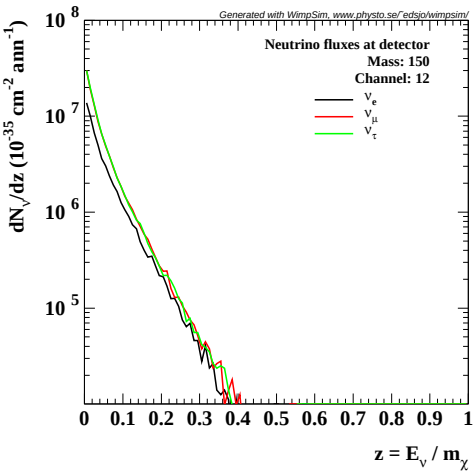
7.5.7 Muons at detector (Sun/Earth)

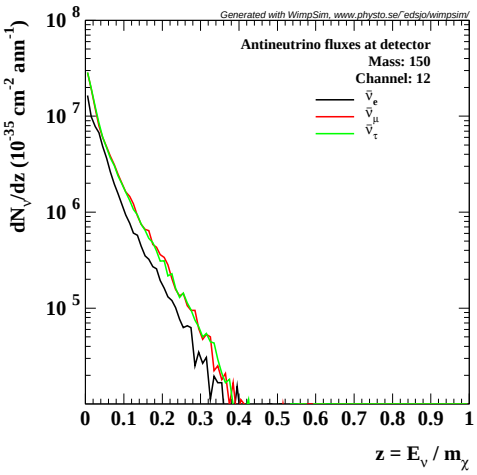




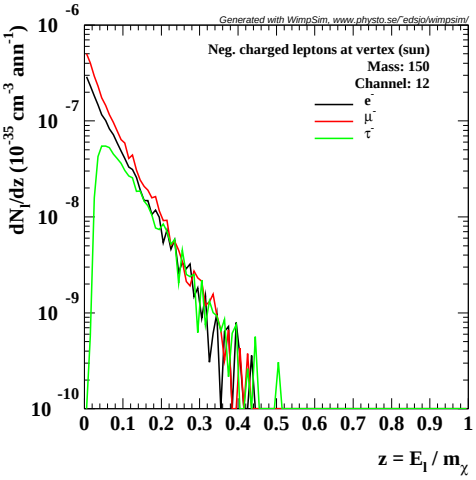
7.6 Channel 12 – gg

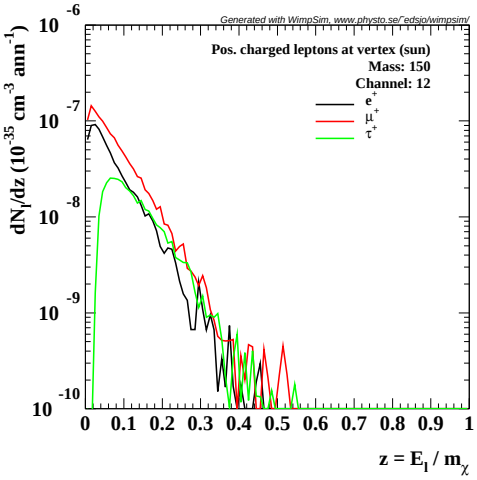
7.6.1 Neutrino fluxes at detector (Sun)



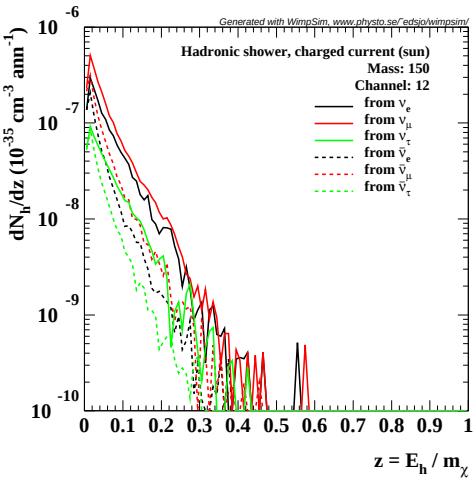


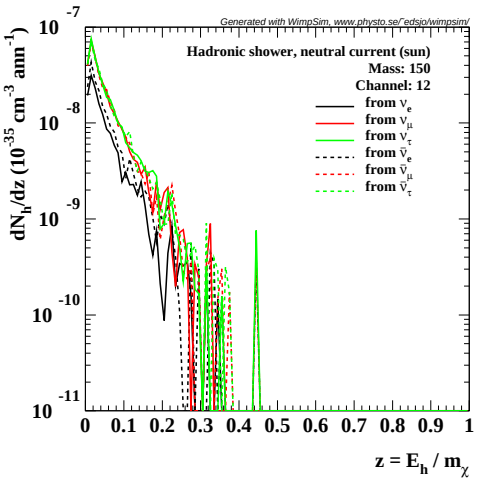
7.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



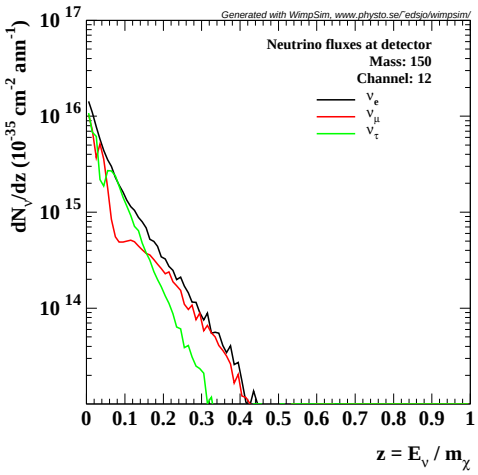


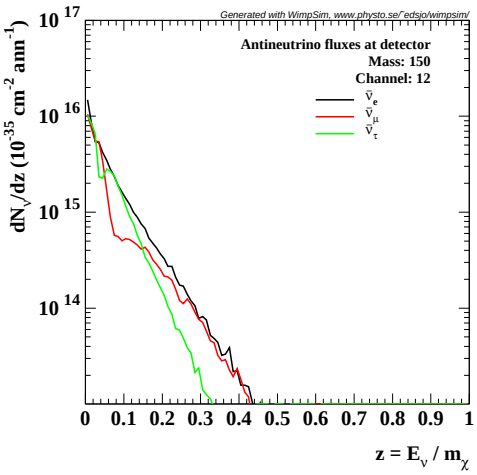
7.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



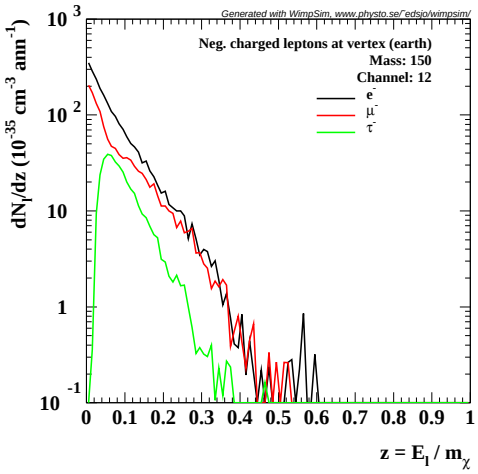


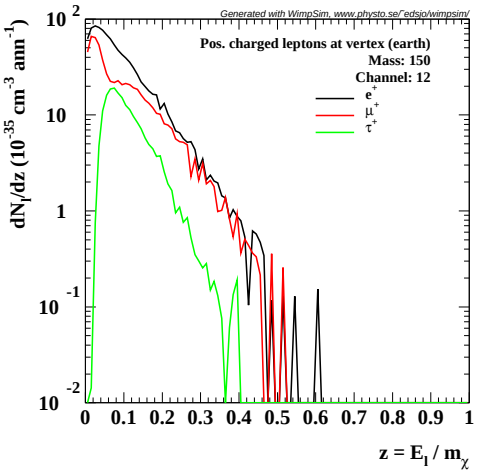
7.6.4 Neutrino fluxes at detector (Earth)



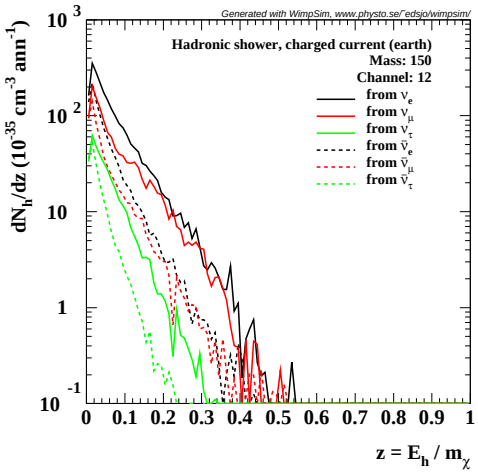


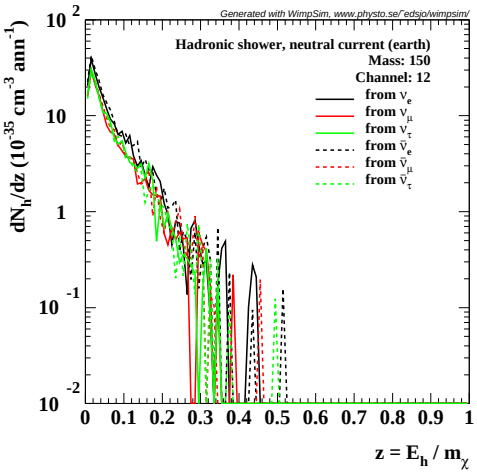
7.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



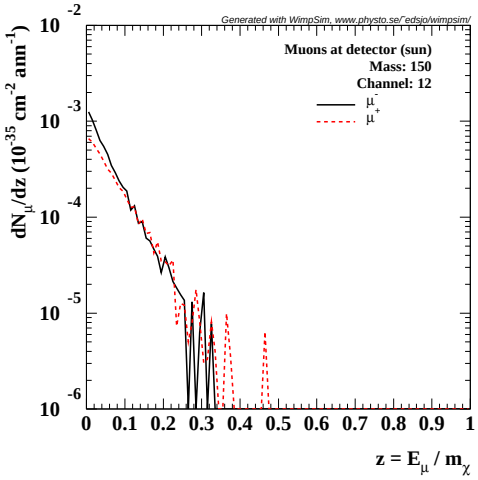


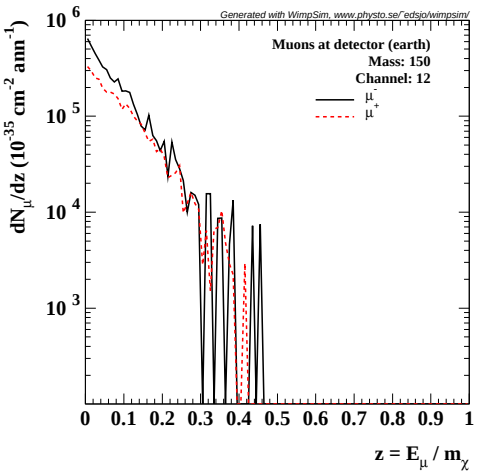
7.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





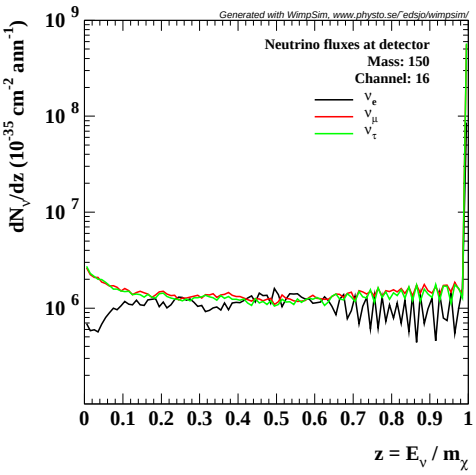
7.6.7 Muons at detector (Sun/Earth)

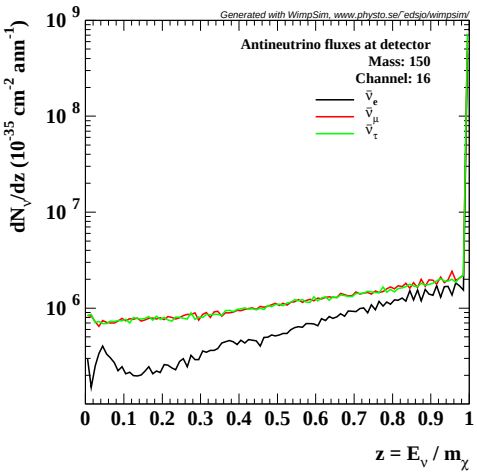




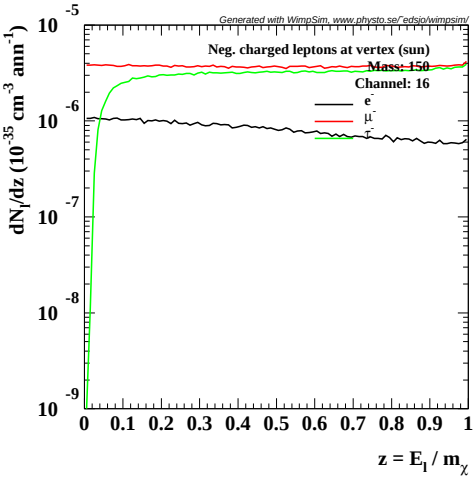
7.7 Channel 16 – $\nu_e\bar{\nu}_e$

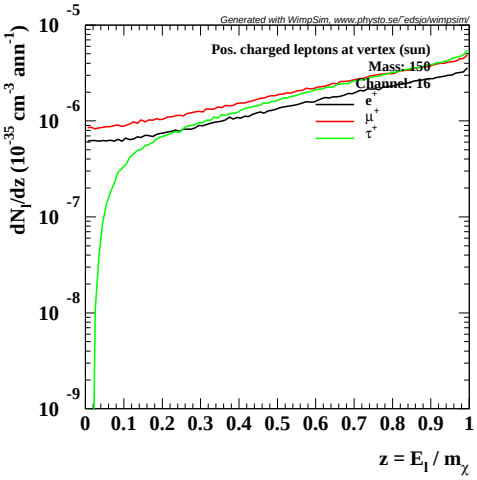
7.7.1 Neutrino fluxes at detector (Sun)



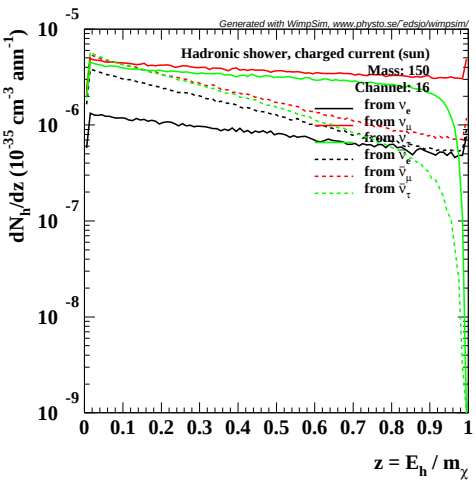


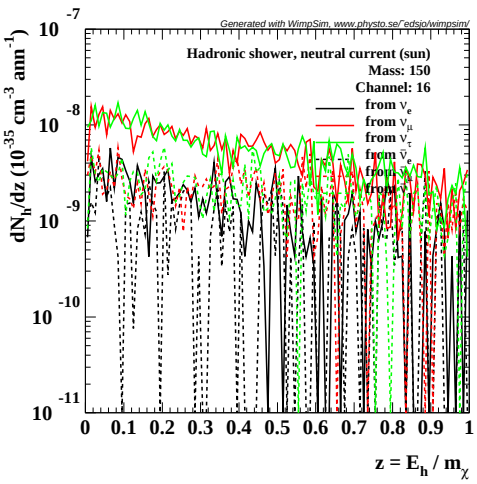
7.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



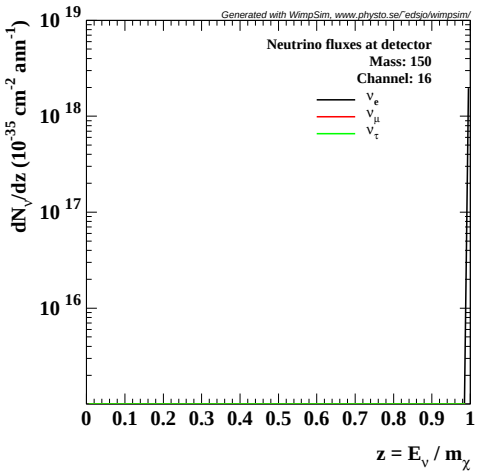


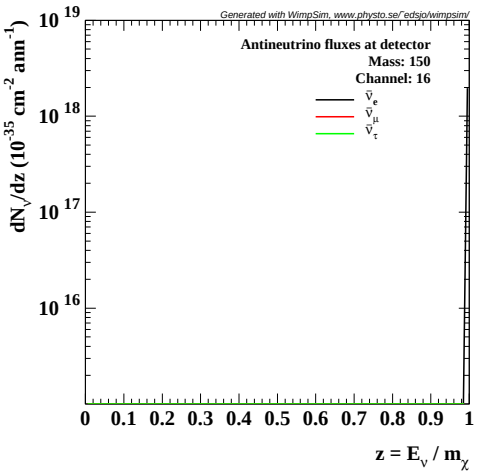
7.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



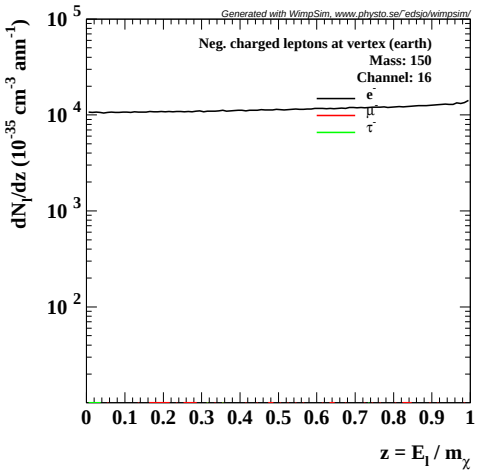


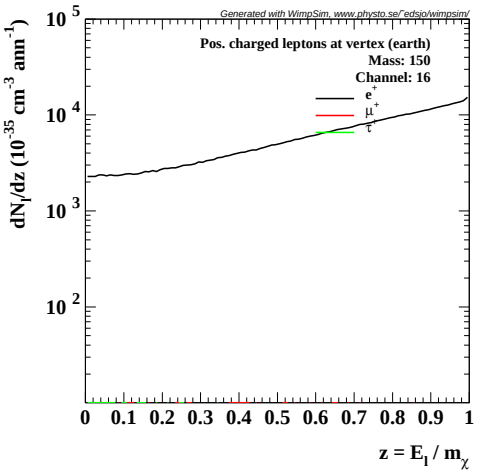
7.7.4 Neutrino fluxes at detector (Earth)



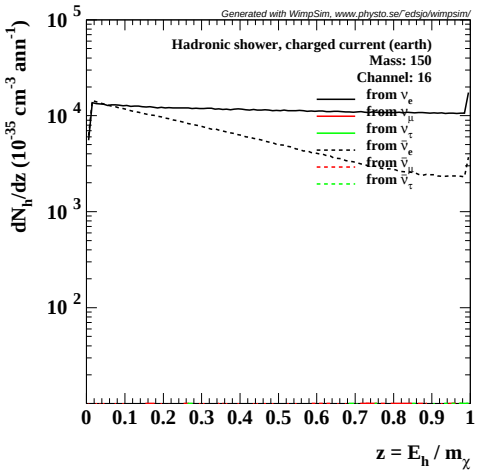


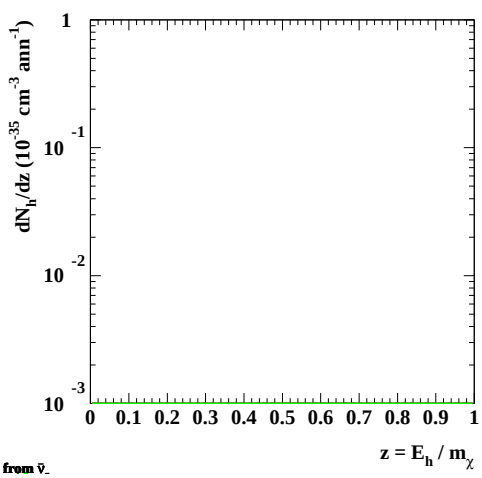
7.7.5 Charged leptons at neutrino-nucleon vertex (Earth)





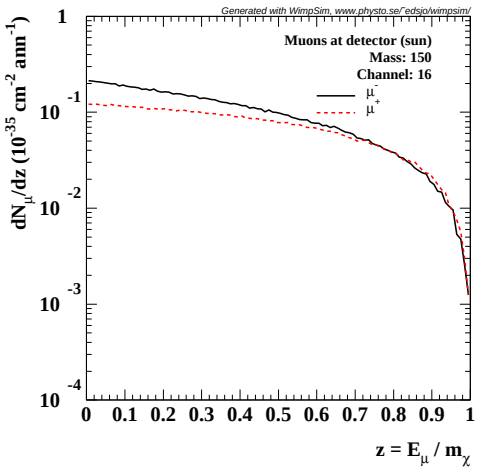
7.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)

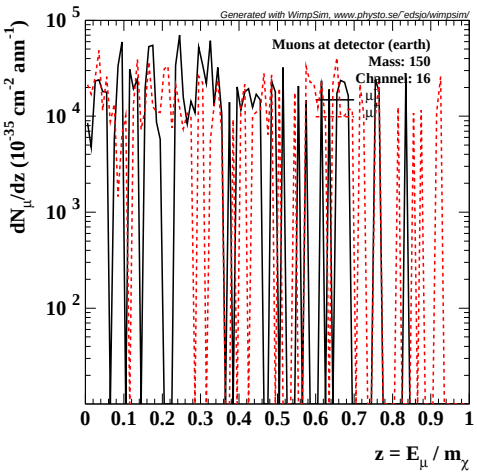




from $\bar{\nu}_\tau$

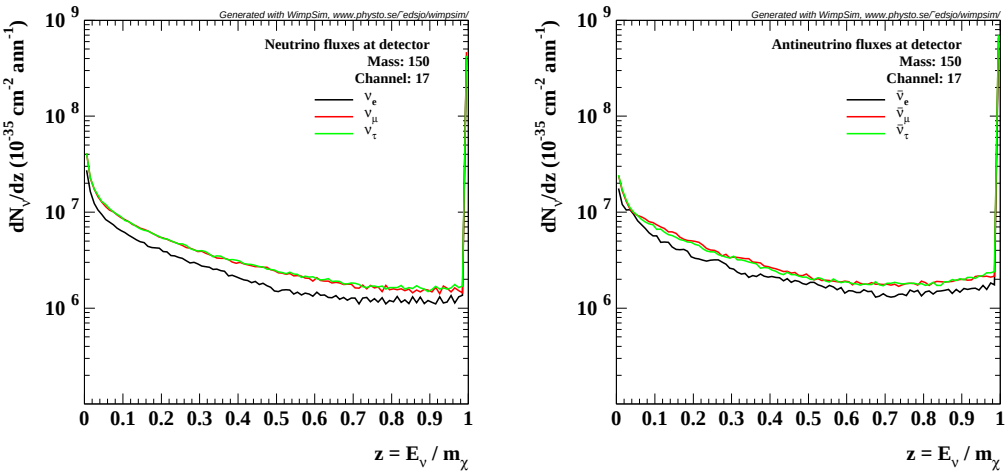
7.7.7 Muons at detector (Sun/Earth)



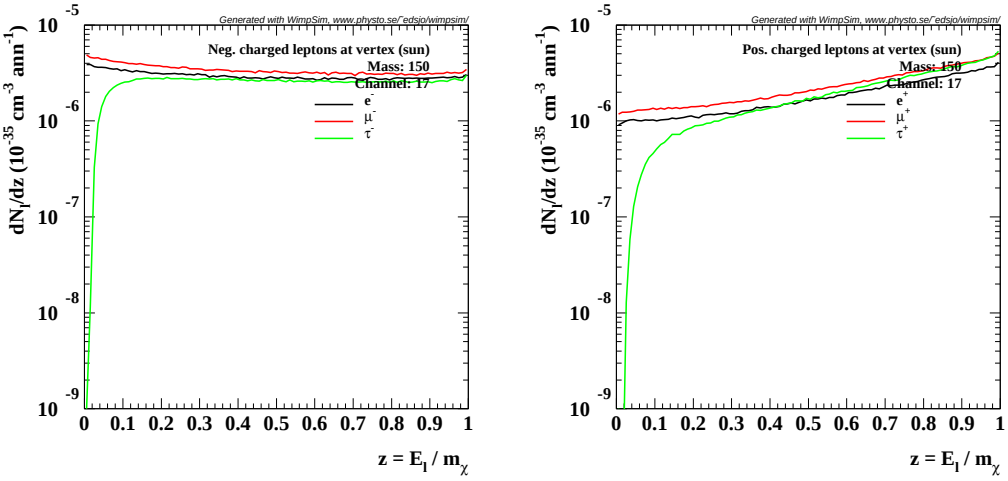


7.8 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

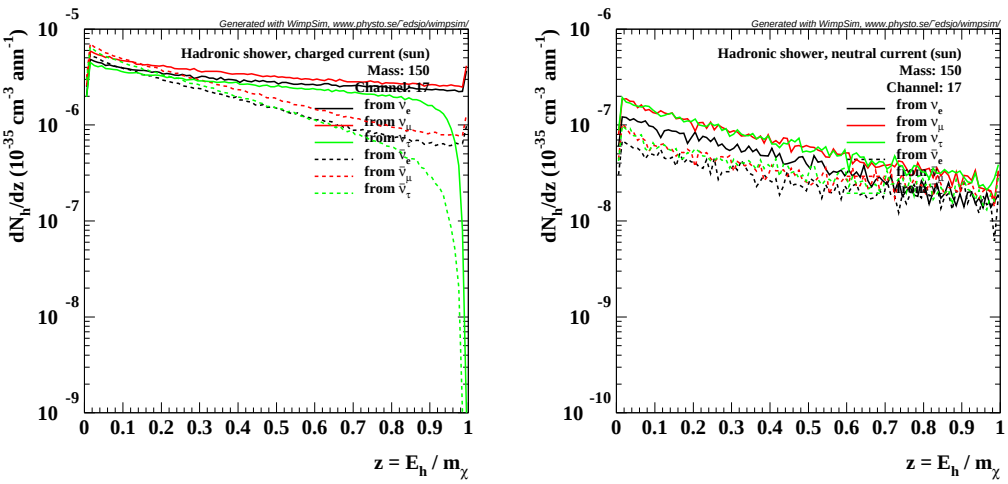
7.8.1 Neutrino fluxes at detector (Sun)



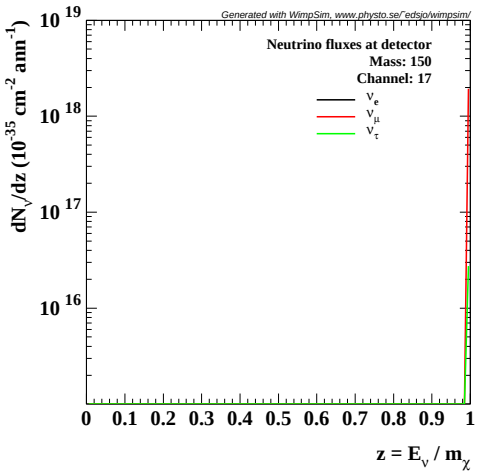
7.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

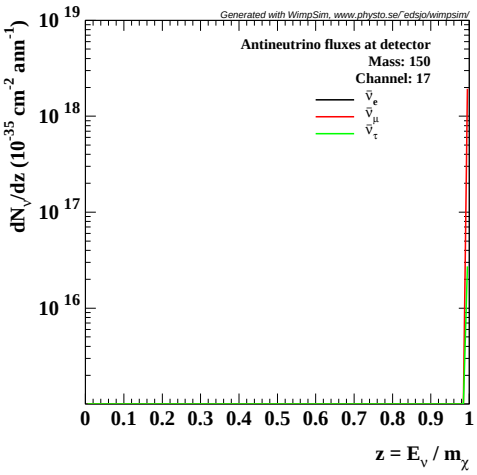


7.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

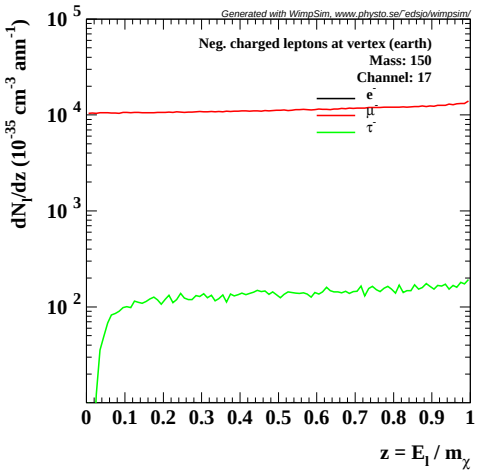


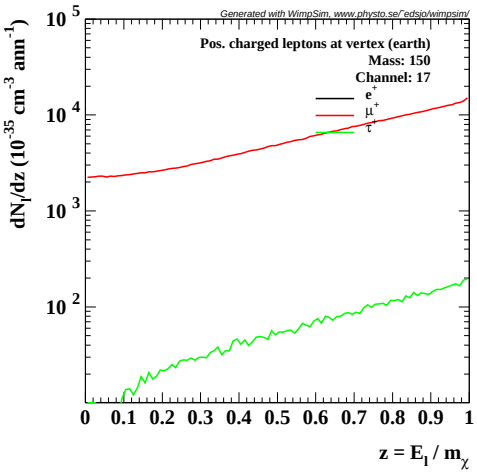
7.8.4 Neutrino fluxes at detector (Earth)



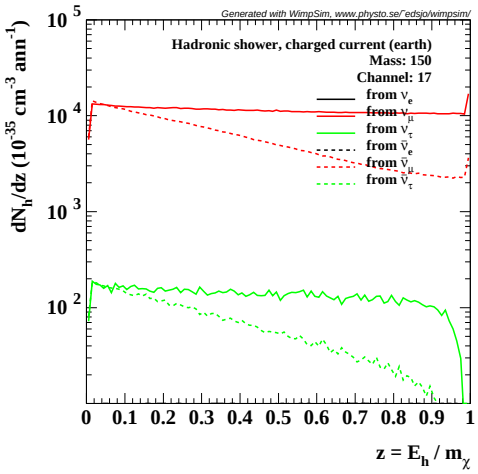


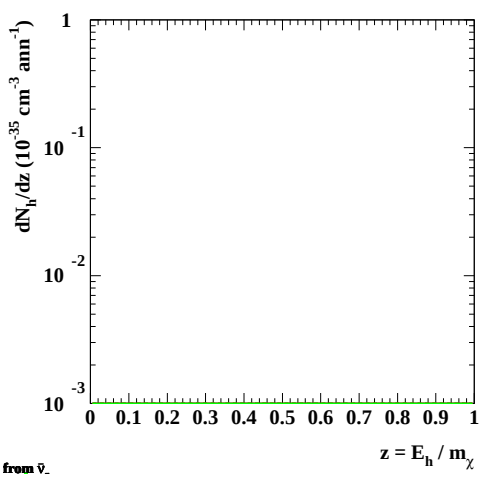
7.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





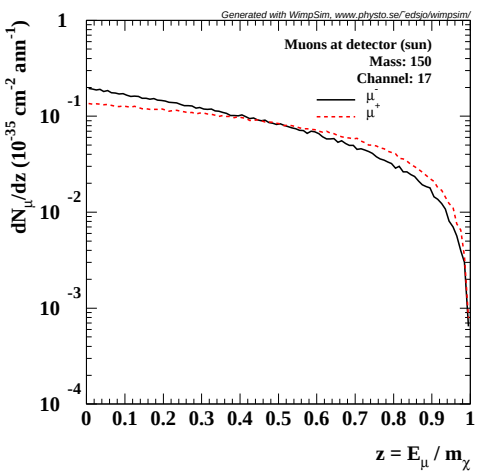
7.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

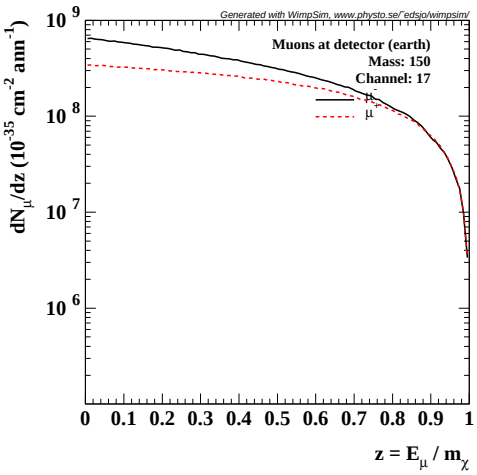




from $\bar{\nu}_\tau$

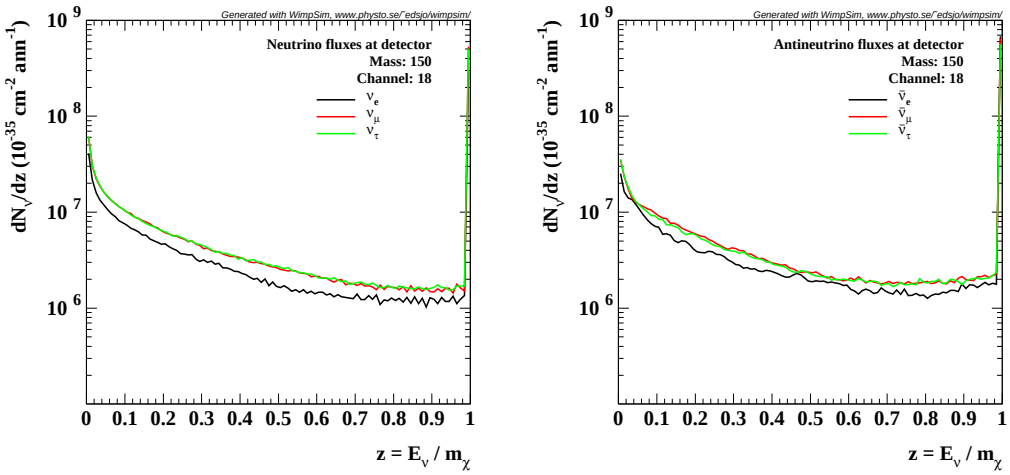
7.8.7 Muons at detector (Sun/Earth)



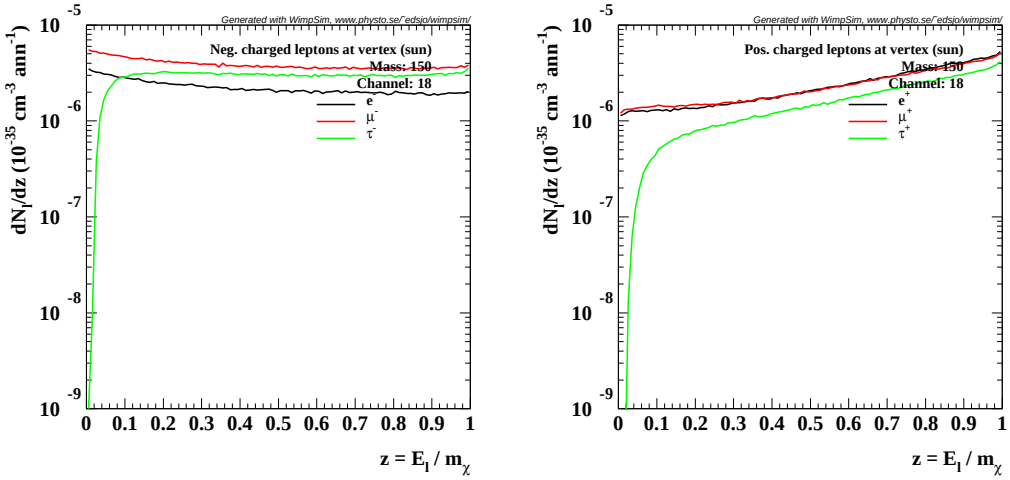


7.9 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

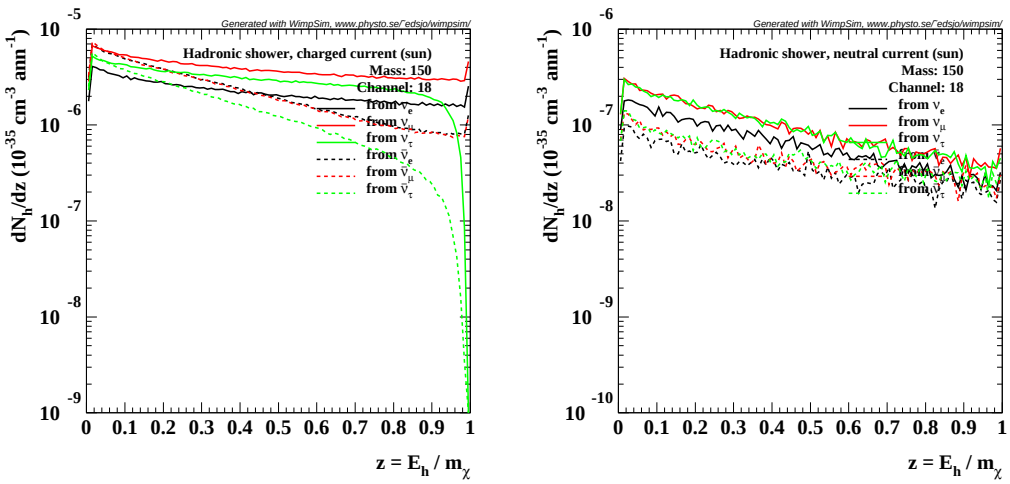
7.9.1 Neutrino fluxes at detector (Sun)



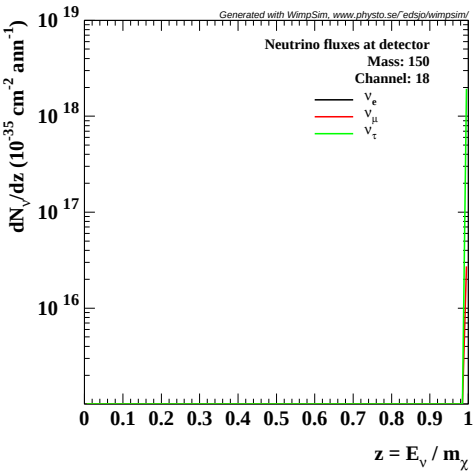
7.9.2 Charged leptons at neutrino-nucleon vertex (Sun)

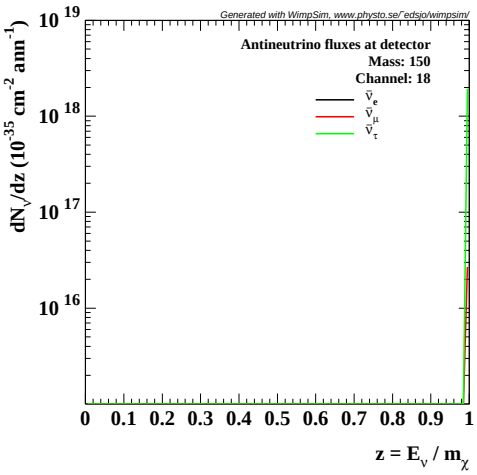


7.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)

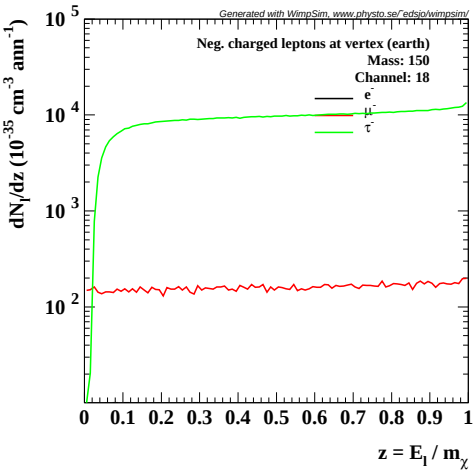


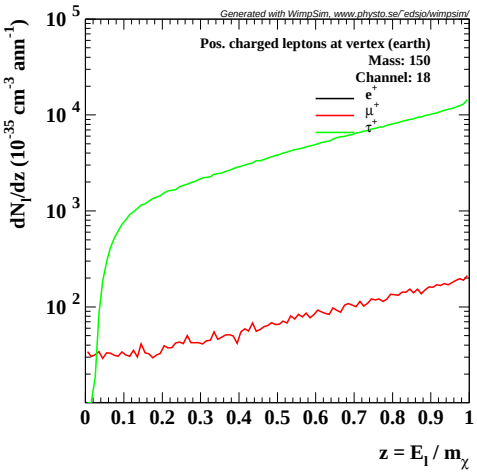
7.9.4 Neutrino fluxes at detector (Earth)



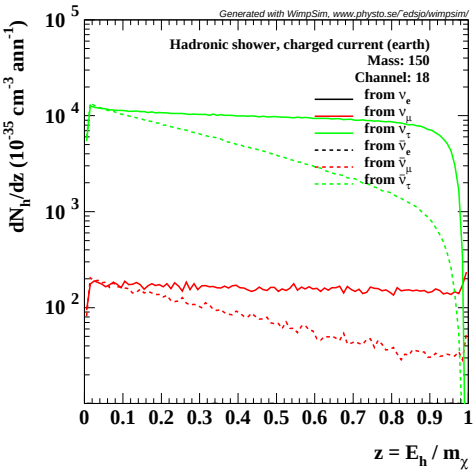


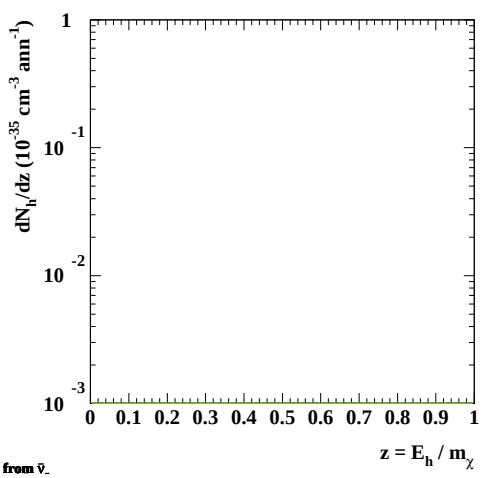
7.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



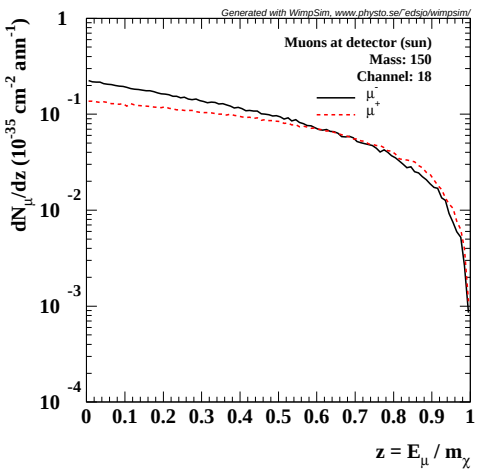


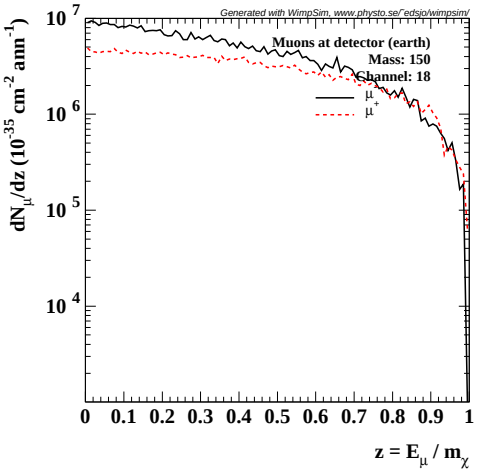
7.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





7.9.7 Muons at detector (Sun/Earth)

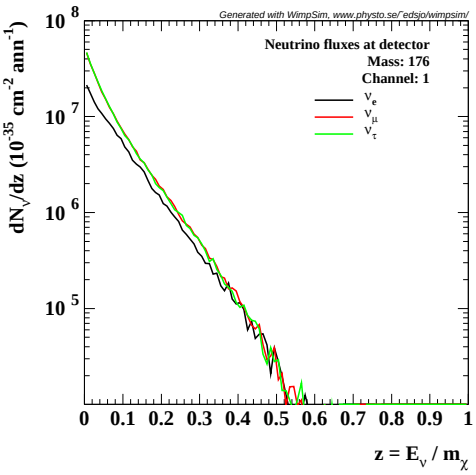


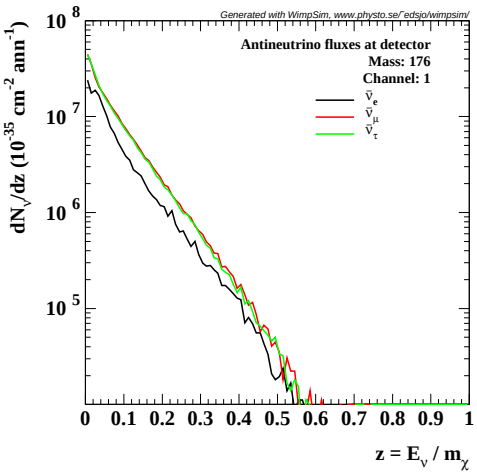


8 Mass 176

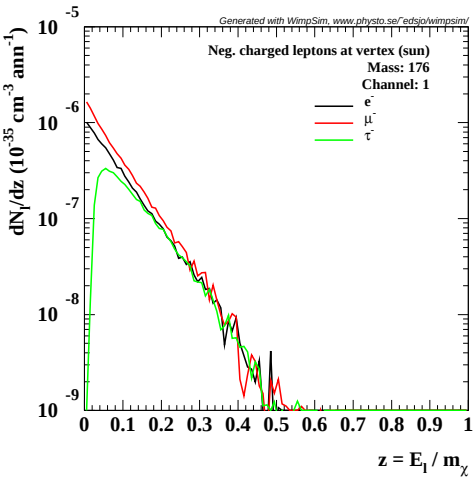
8.1 Channel 1 – $c\bar{c}$

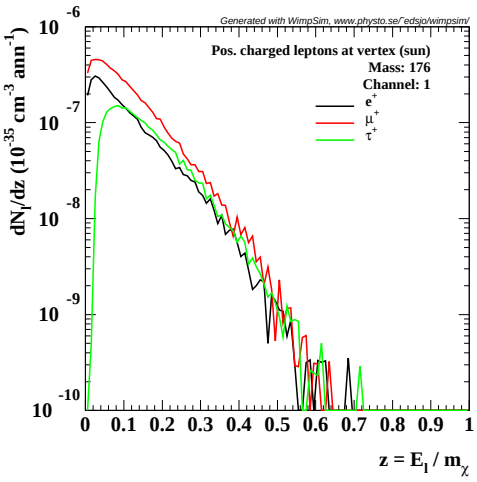
8.1.1 Neutrino fluxes at detector (Sun)



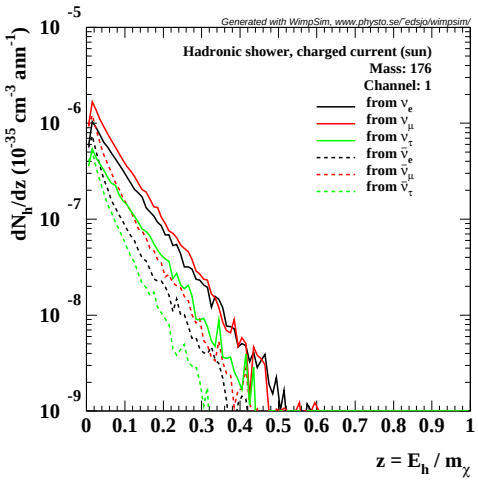


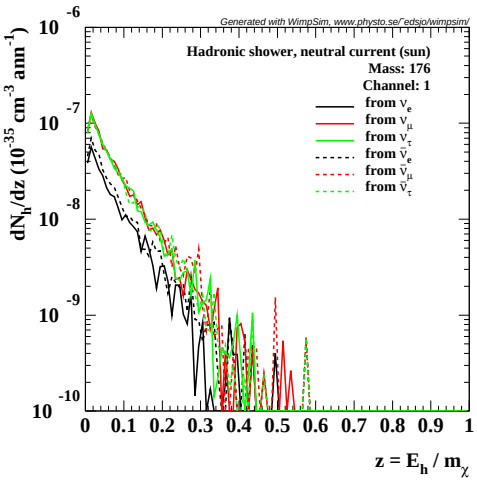
8.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



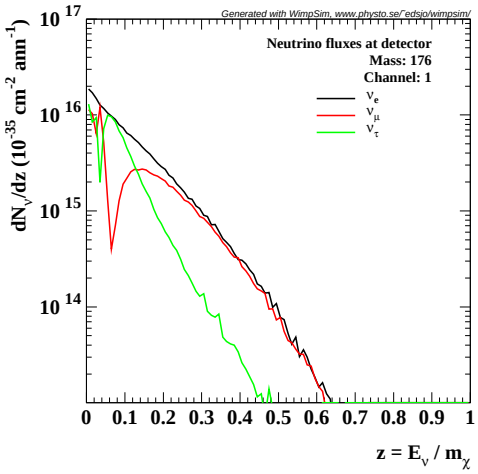


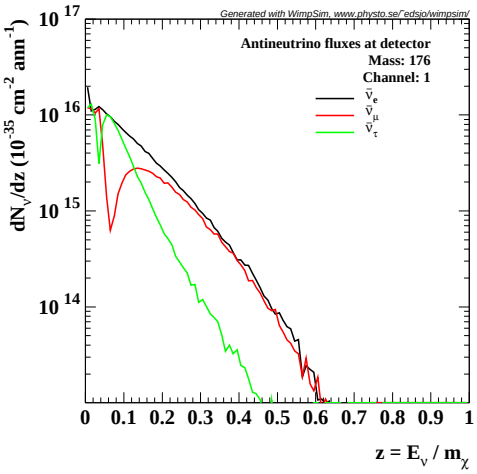
8.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



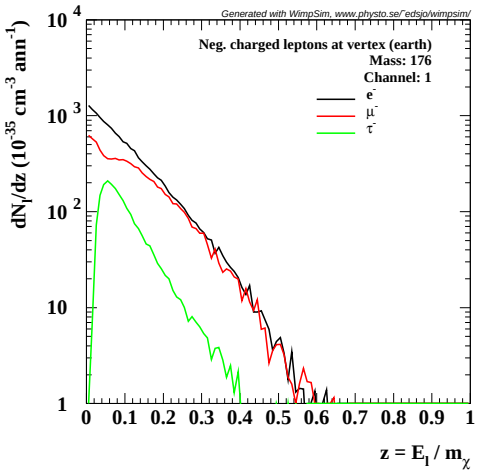


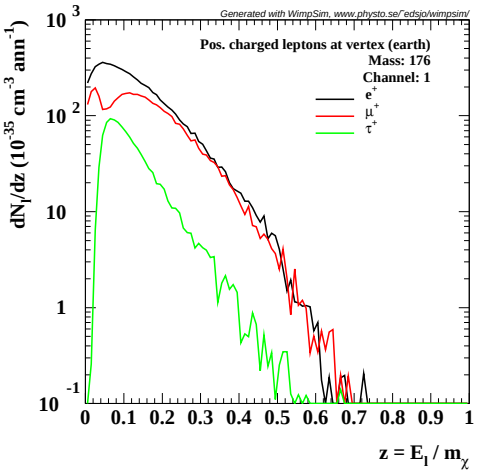
8.1.4 Neutrino fluxes at detector (Earth)



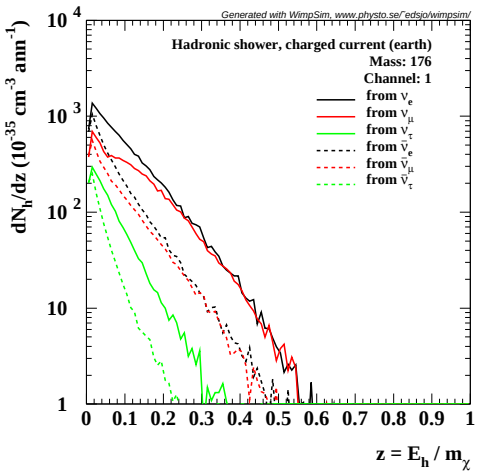


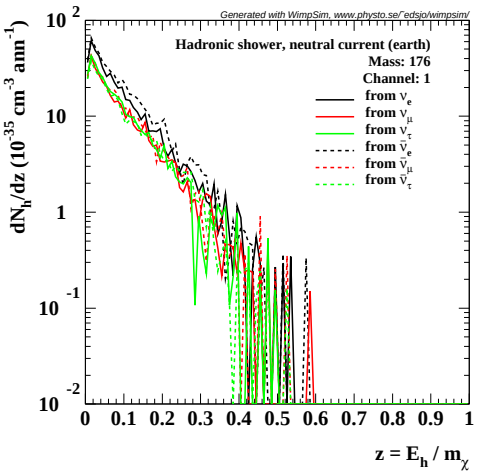
8.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



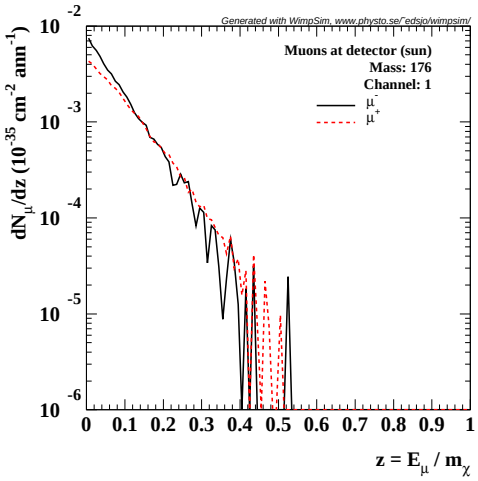


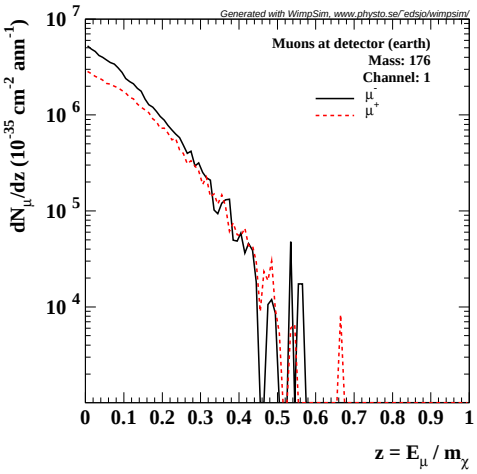
8.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





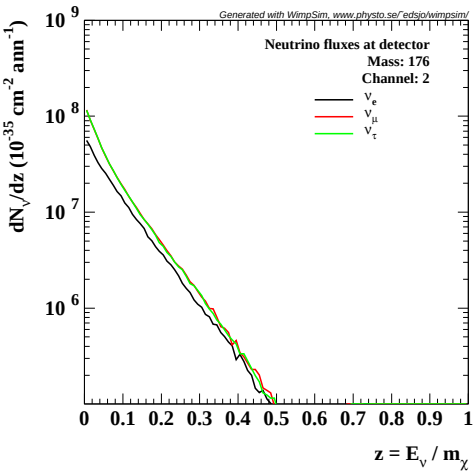
8.1.7 Muons at detector (Sun/Earth)

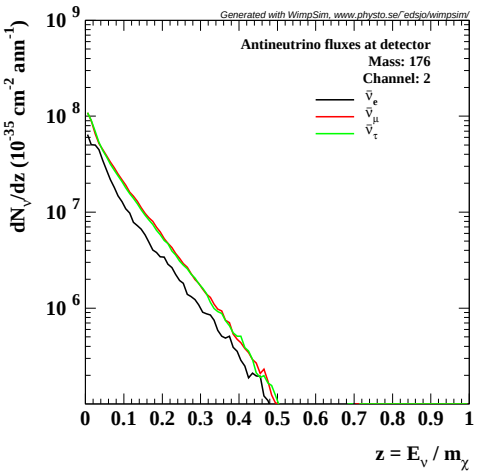




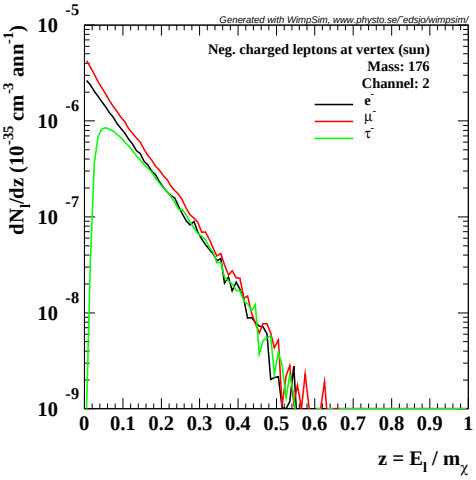
8.2 Channel 2 – $b\bar{b}$

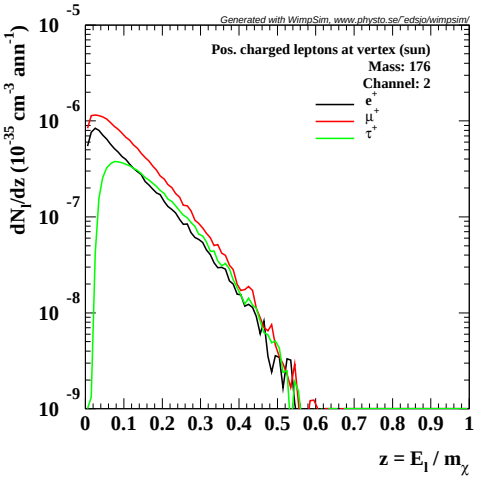
8.2.1 Neutrino fluxes at detector (Sun)



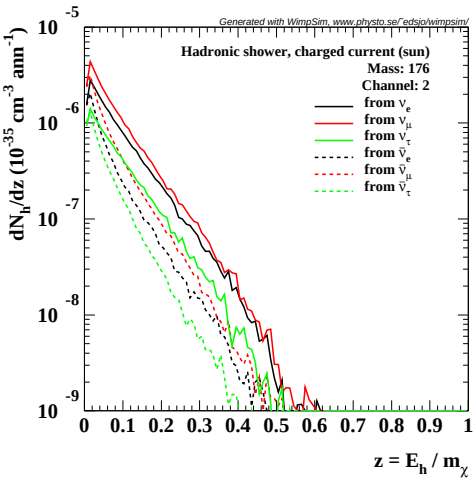


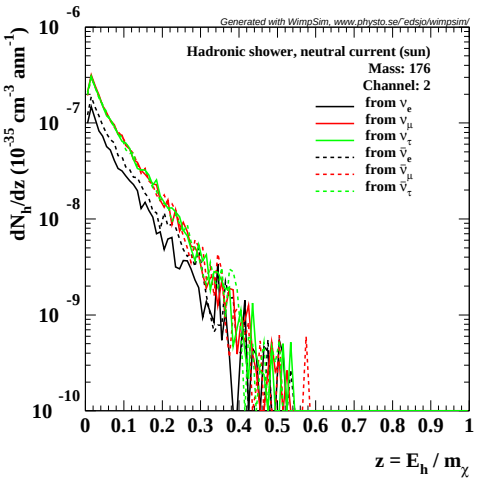
8.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



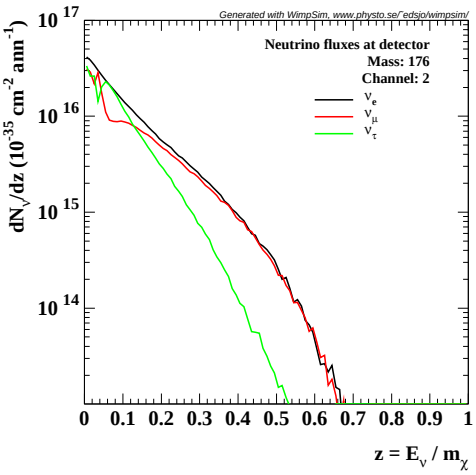


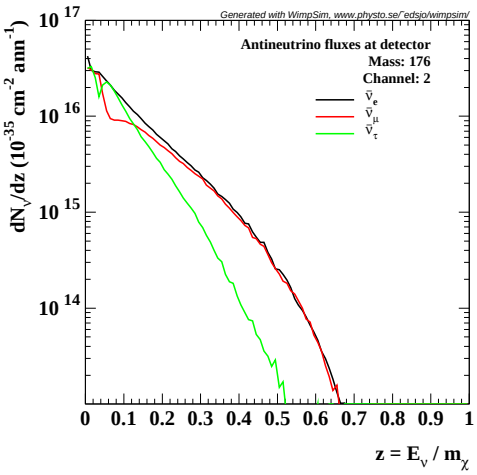
8.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



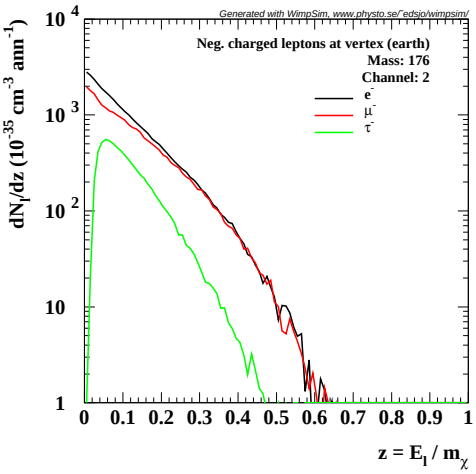


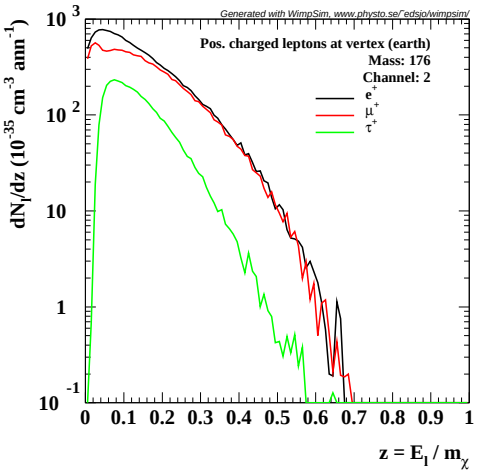
8.2.4 Neutrino fluxes at detector (Earth)



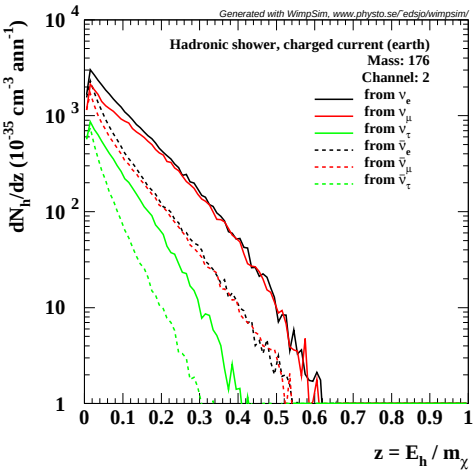


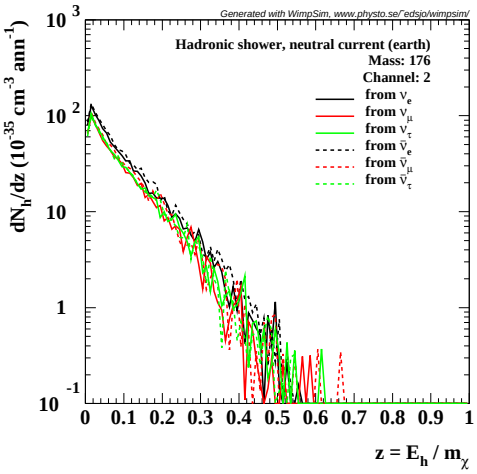
8.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



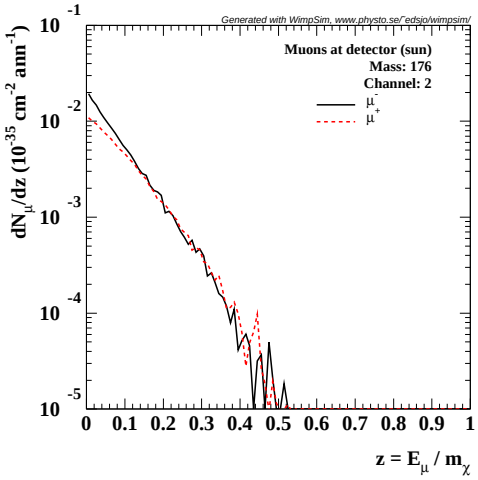


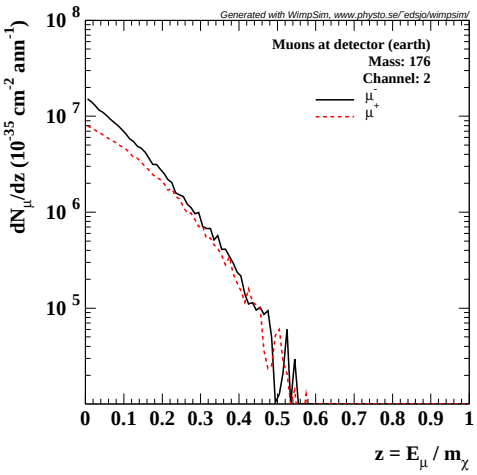
8.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





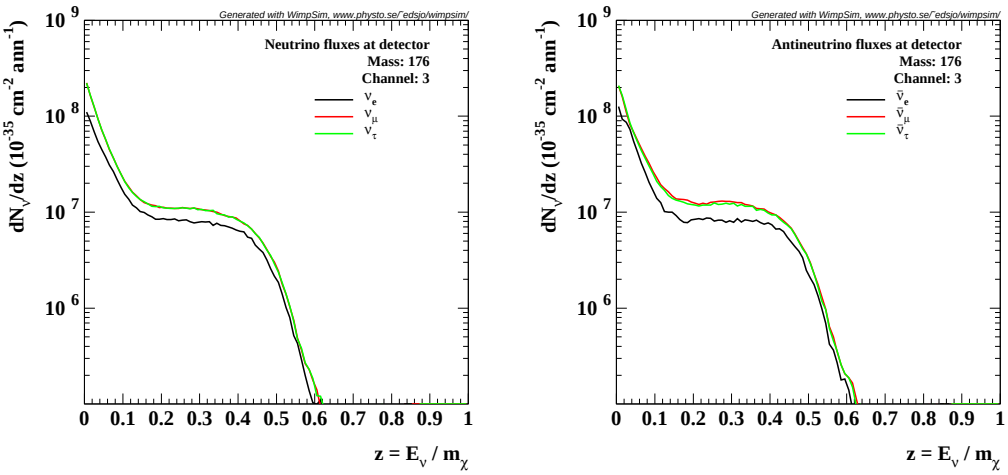
8.2.7 Muons at detector (Sun/Earth)



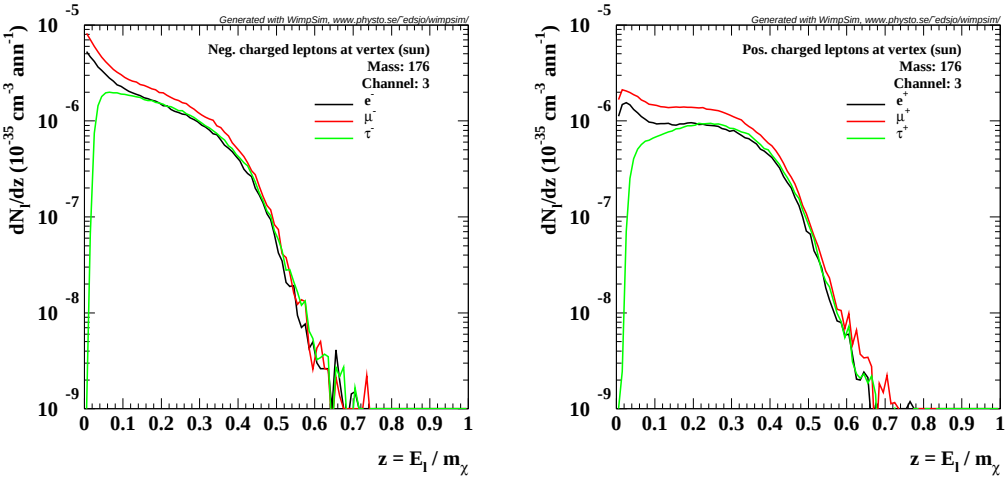


8.3 Channel 3 – $t\bar{t}$

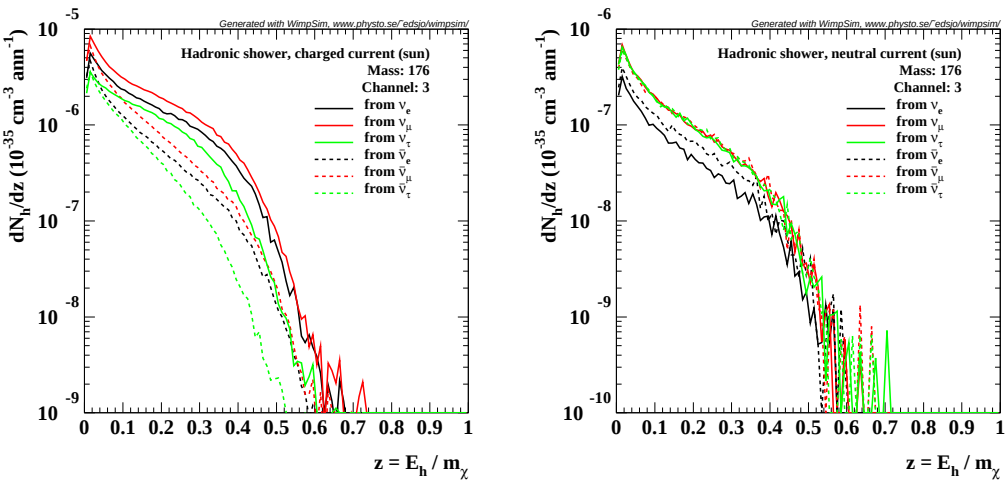
8.3.1 Neutrino fluxes at detector (Sun)



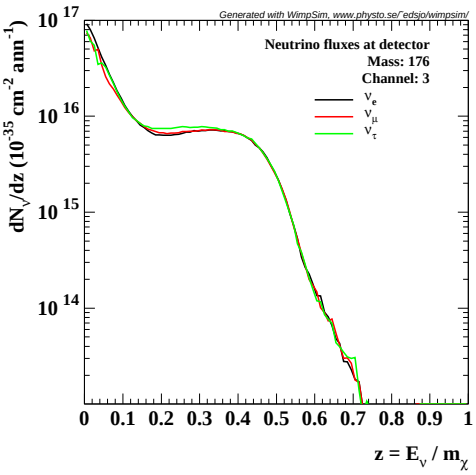
8.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

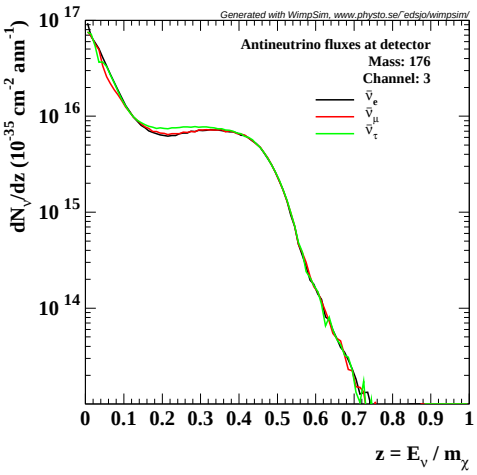


8.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

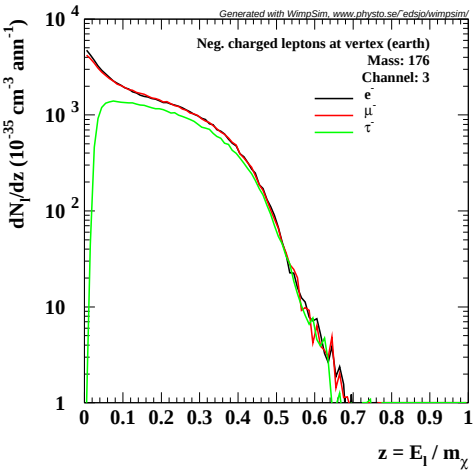


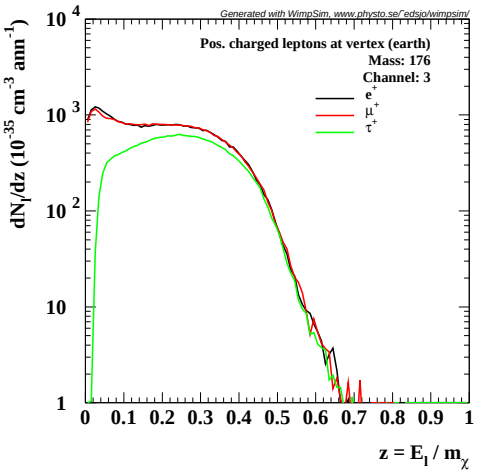
8.3.4 Neutrino fluxes at detector (Earth)



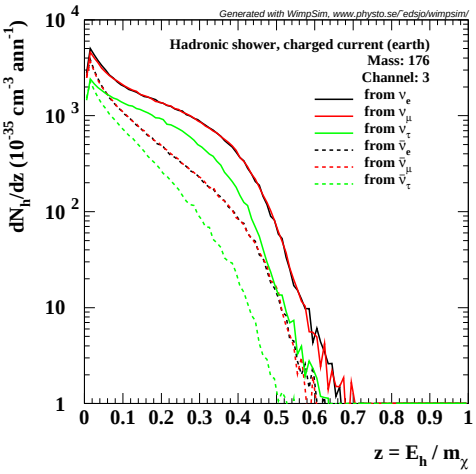


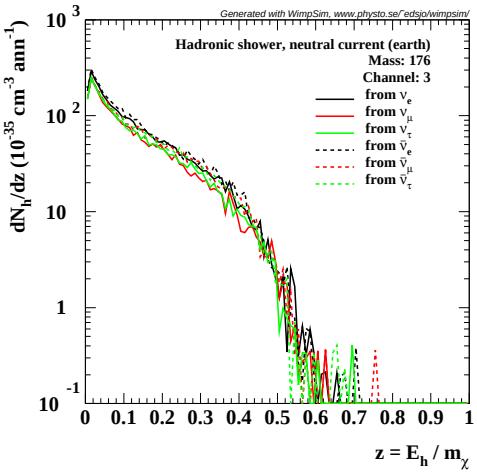
8.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



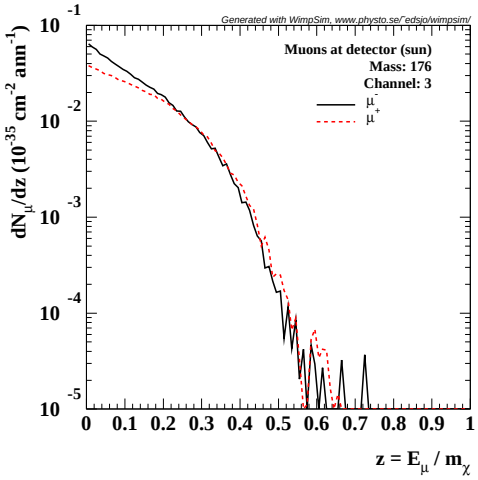


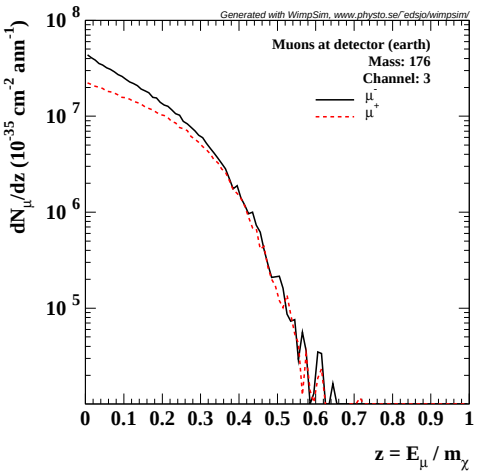
8.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





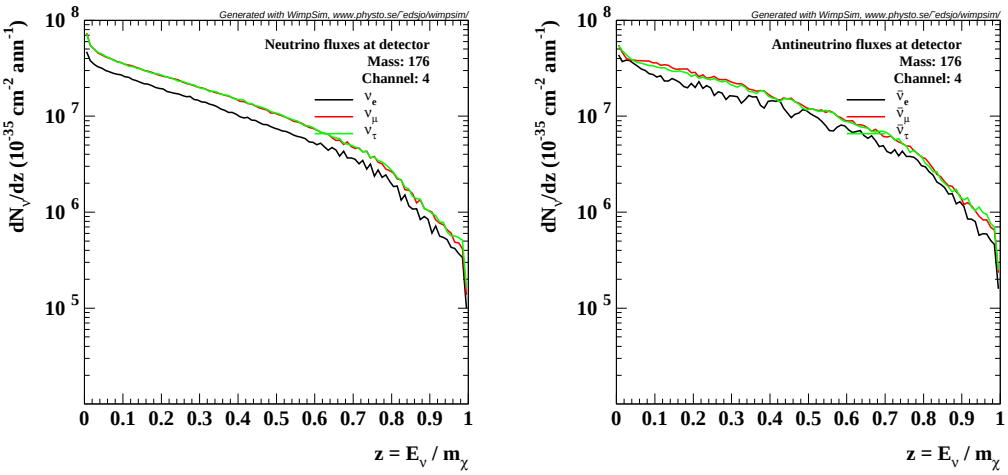
8.3.7 Muons at detector (Sun/Earth)



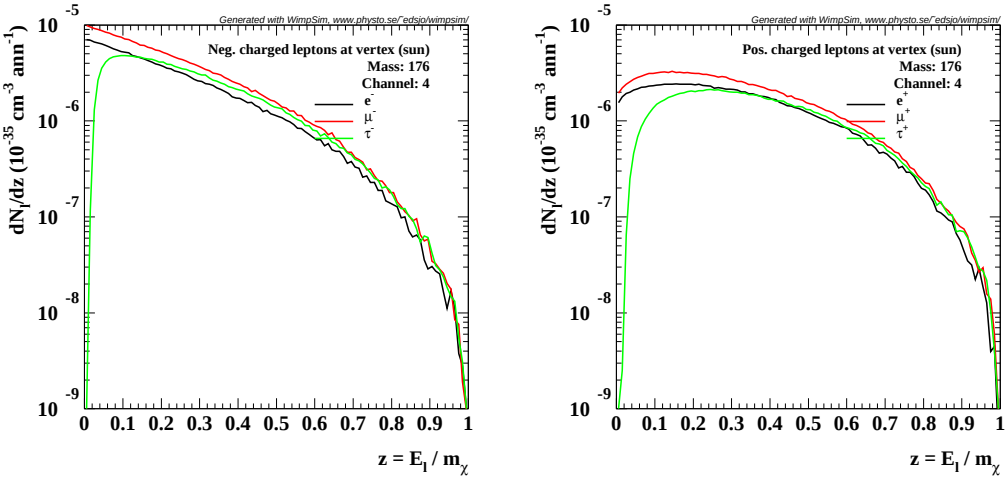


8.4 Channel 4 – $\tau^-\tau^+$

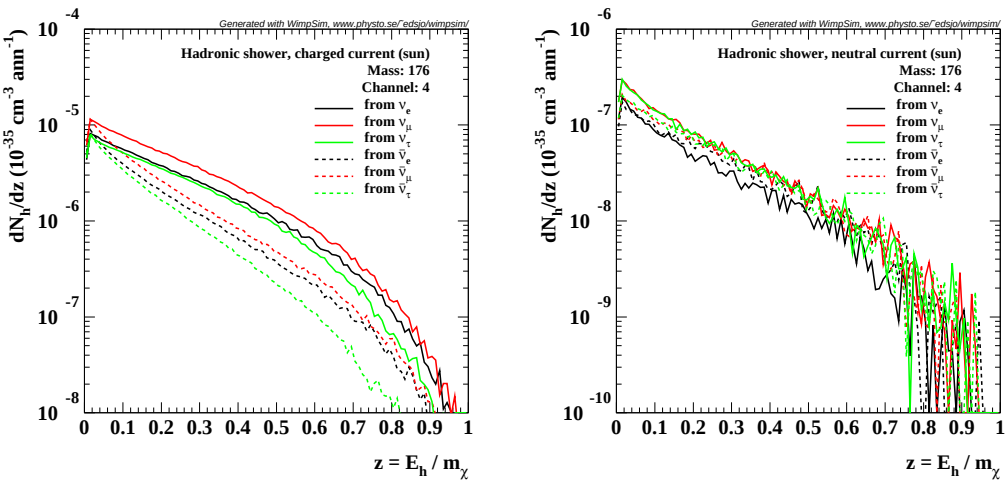
8.4.1 Neutrino fluxes at detector (Sun)



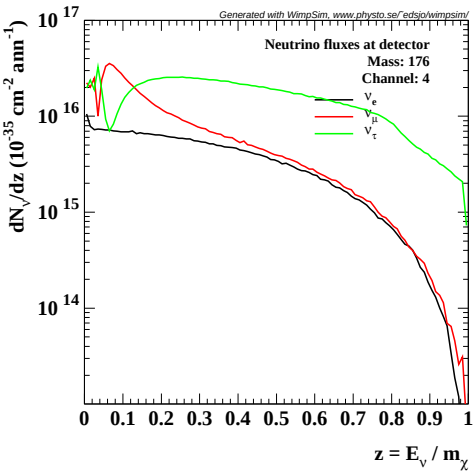
8.4.2 Charged leptons at neutrino-nucleon vertex (Sun)

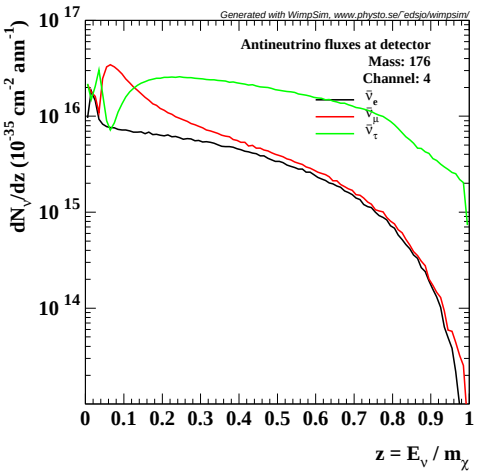


8.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

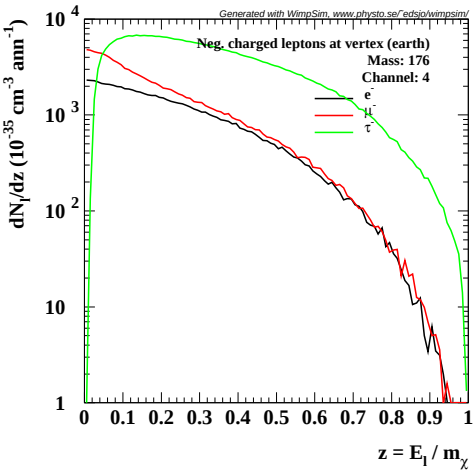


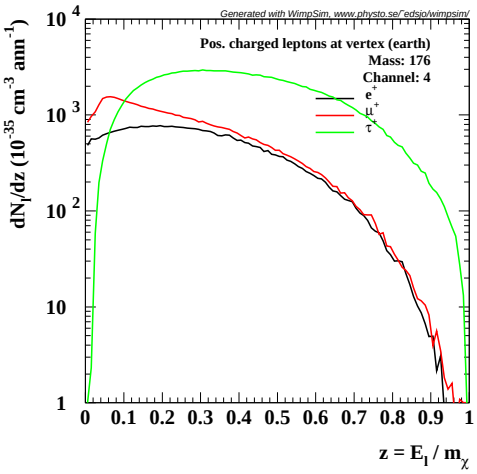
8.4.4 Neutrino fluxes at detector (Earth)



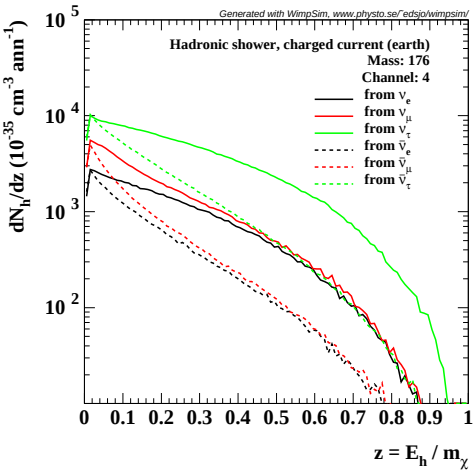


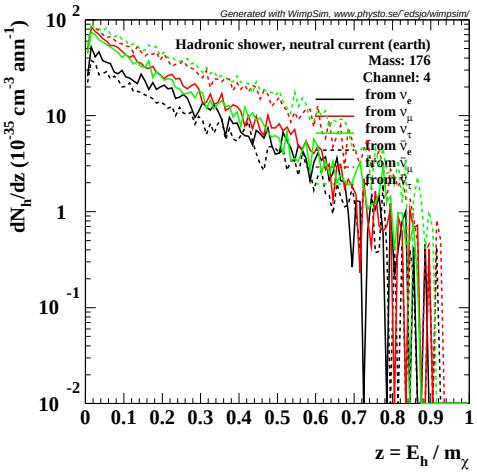
8.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



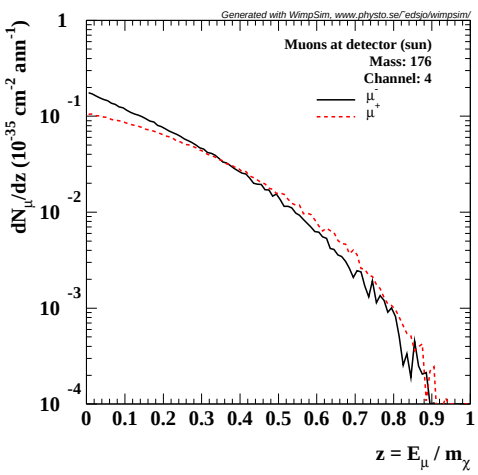


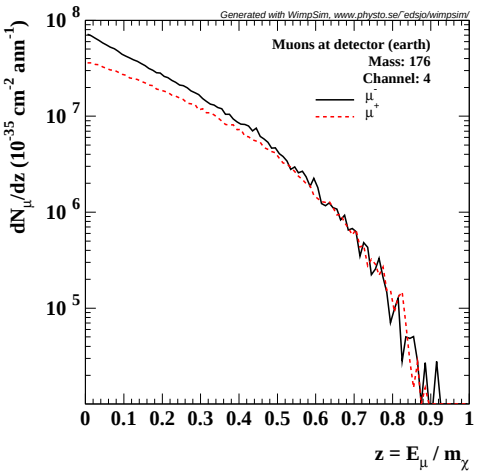
8.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





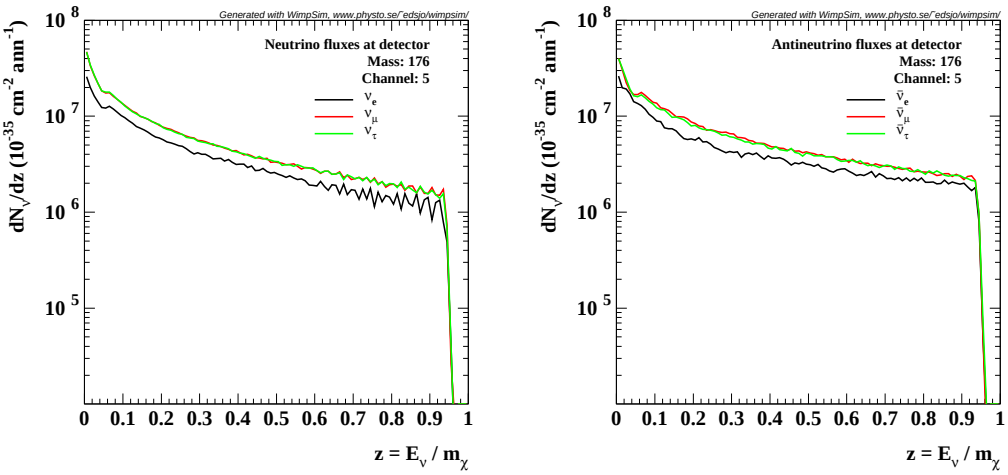
8.4.7 Muons at detector (Sun/Earth)



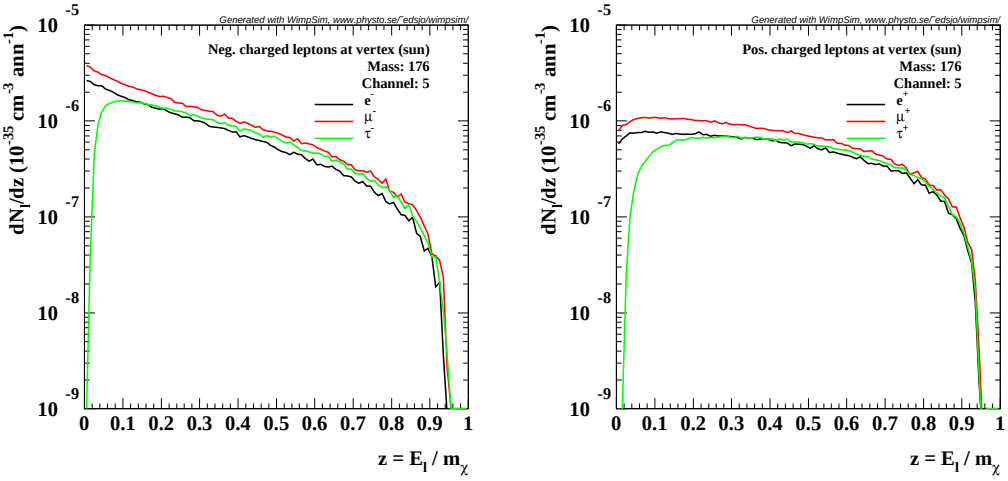


8.5 Channel 5 – W^-W^+

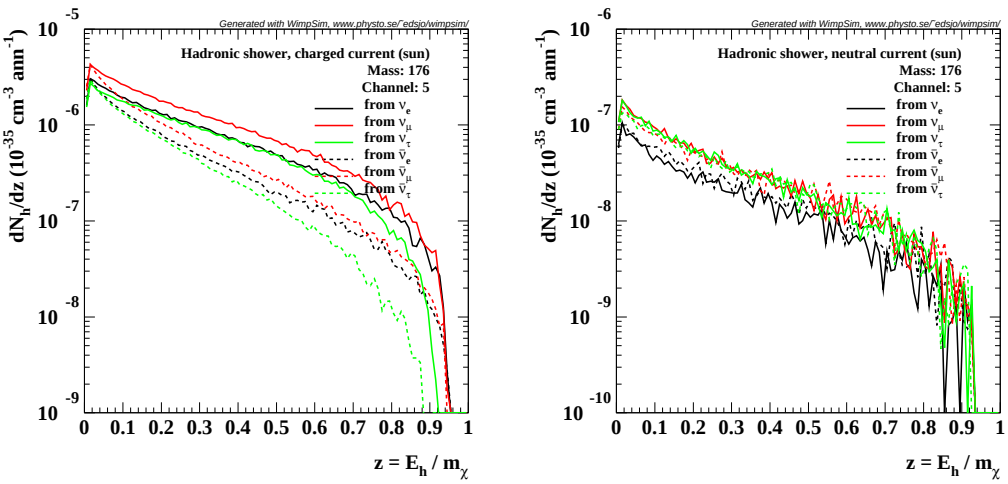
8.5.1 Neutrino fluxes at detector (Sun)



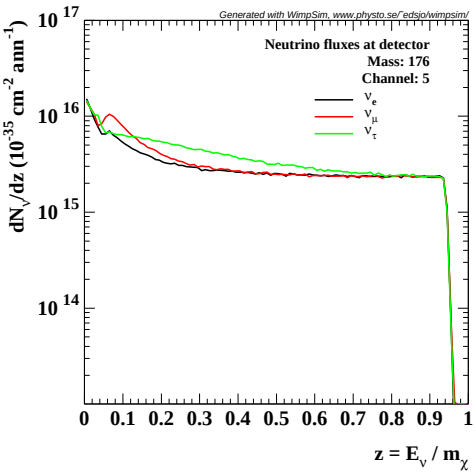
8.5.2 Charged leptons at neutrino-nucleon vertex (Sun)

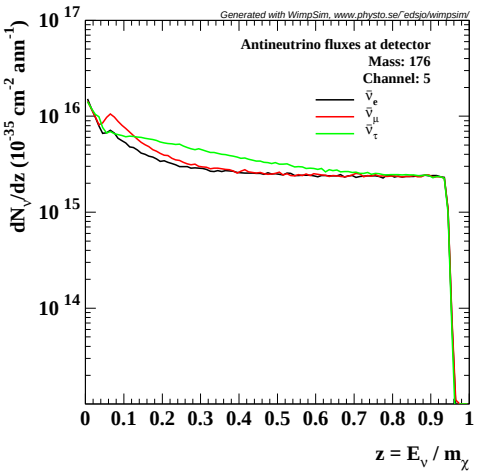


8.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

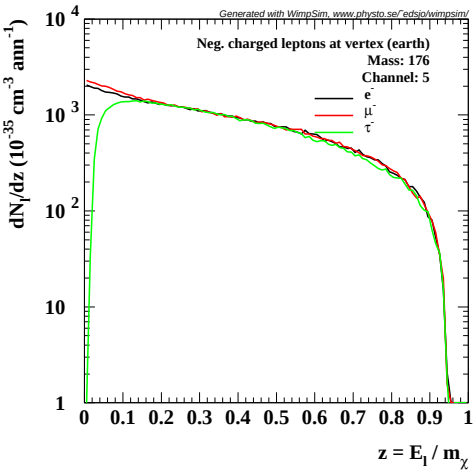


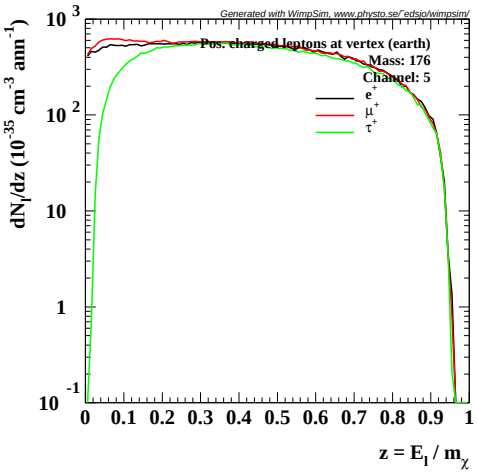
8.5.4 Neutrino fluxes at detector (Earth)



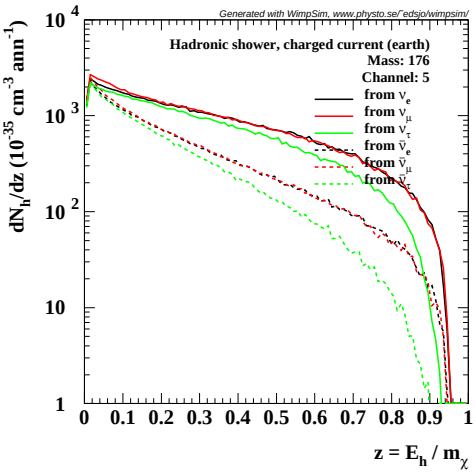


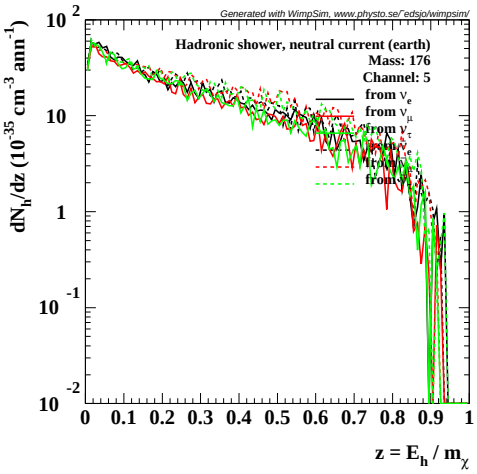
8.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



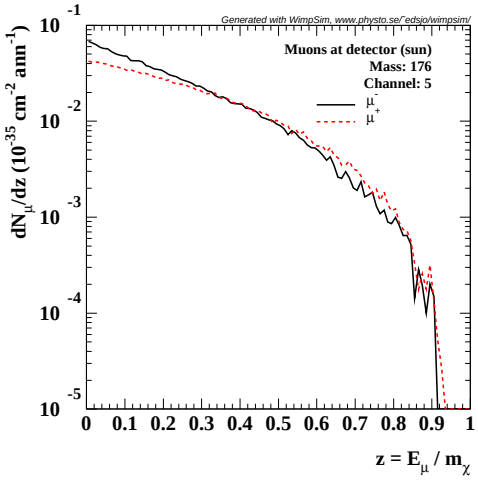


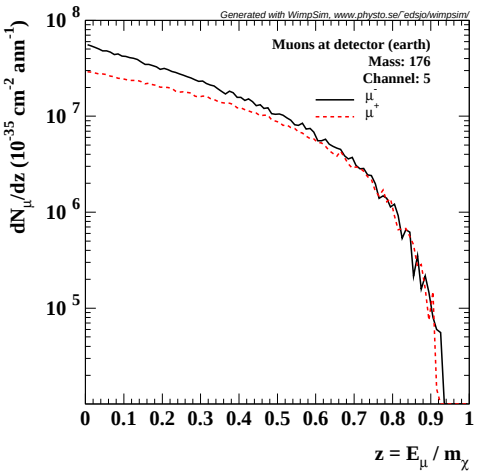
8.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





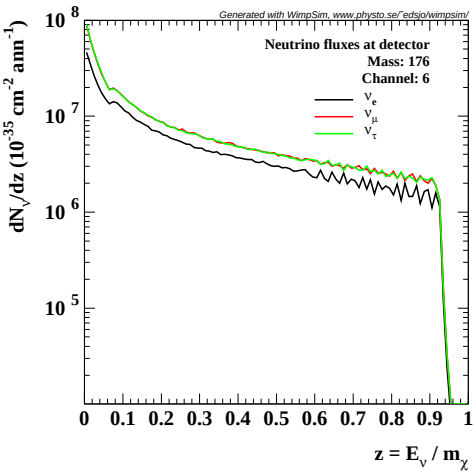
8.5.7 Muons at detector (Sun/Earth)

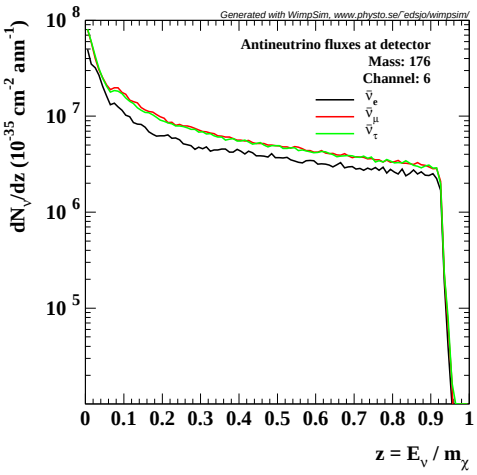




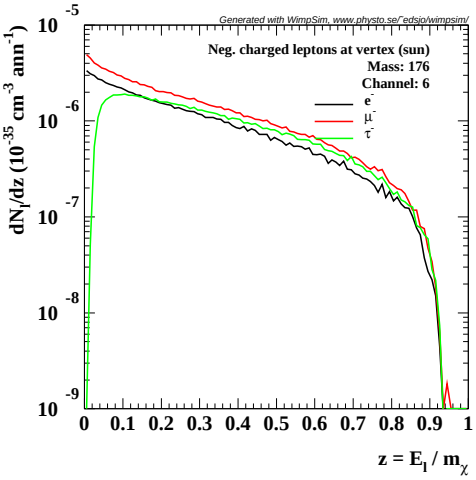
8.6 Channel 6 – Z^0Z^0

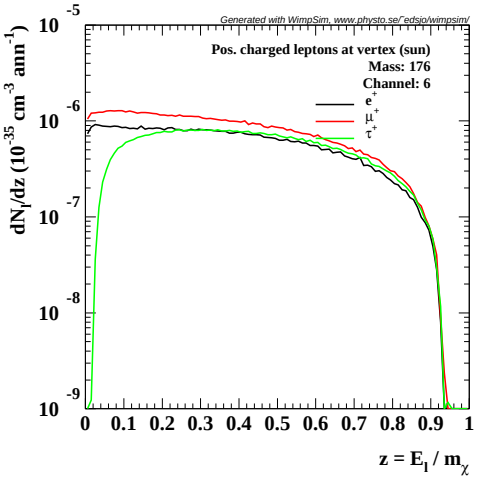
8.6.1 Neutrino fluxes at detector (Sun)



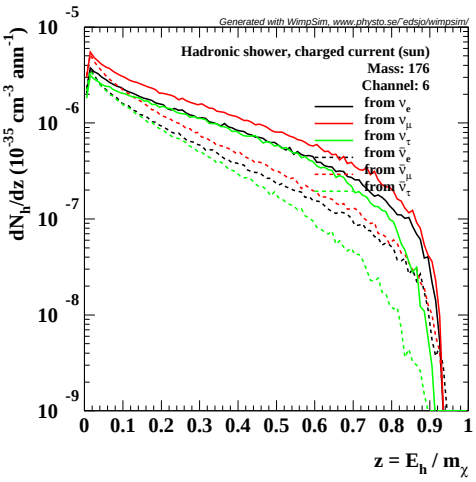


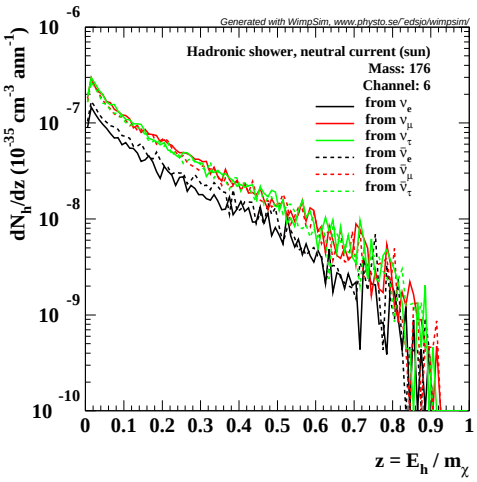
8.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



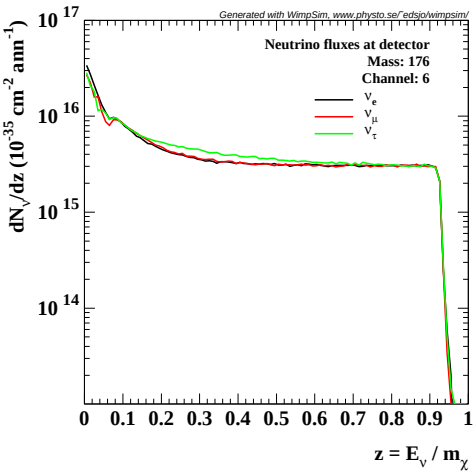


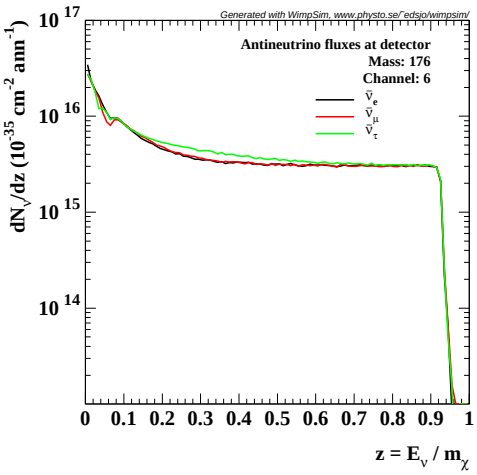
8.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



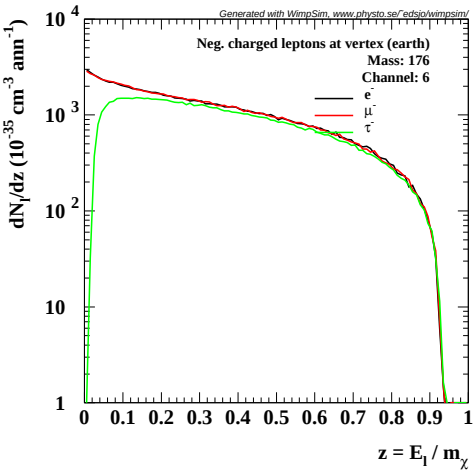


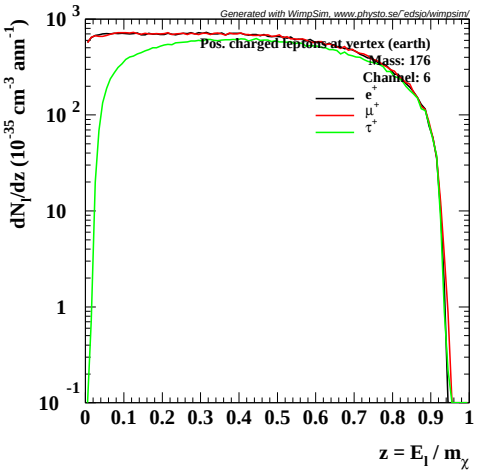
8.6.4 Neutrino fluxes at detector (Earth)



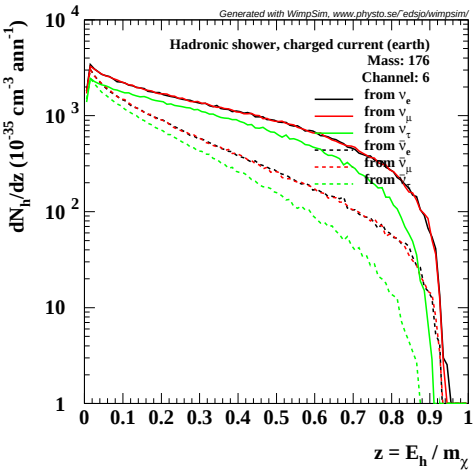


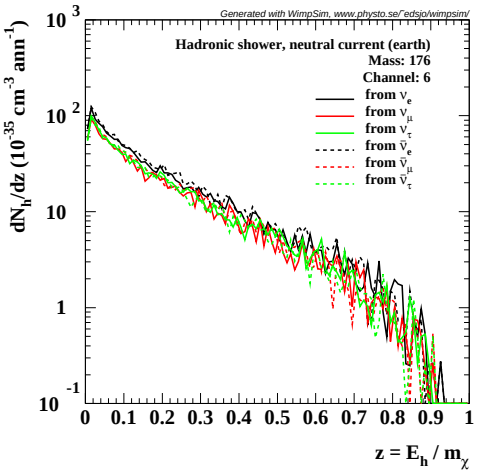
8.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



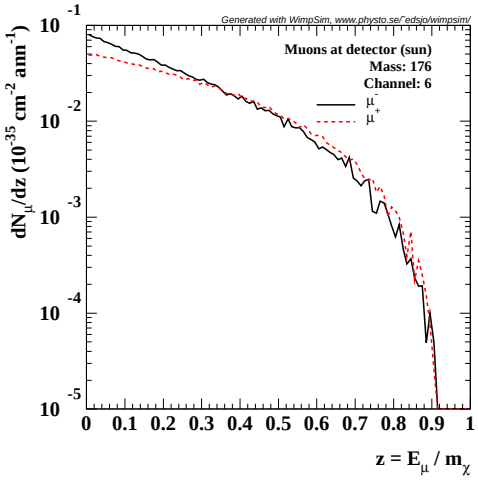


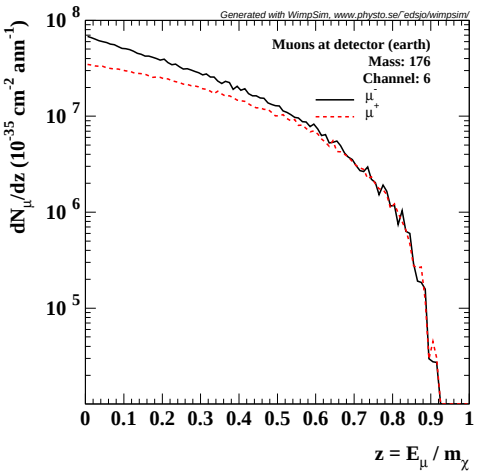
8.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





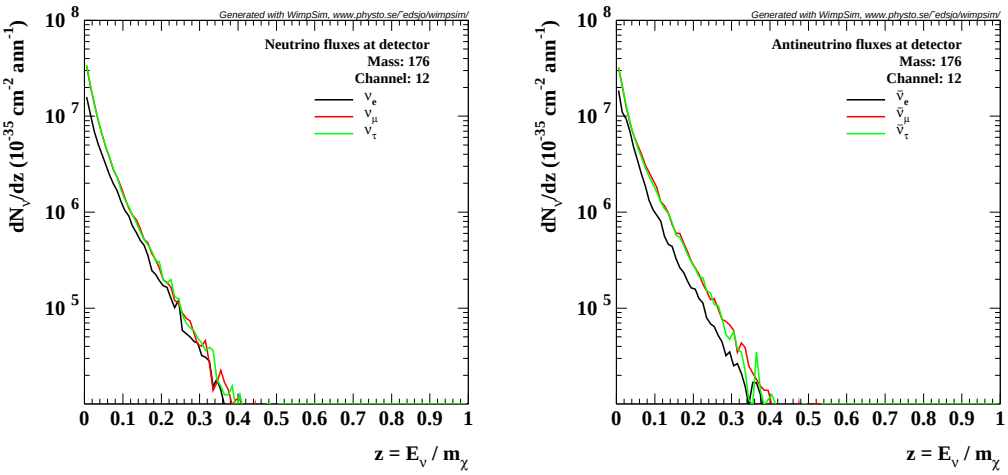
8.6.7 Muons at detector (Sun/Earth)



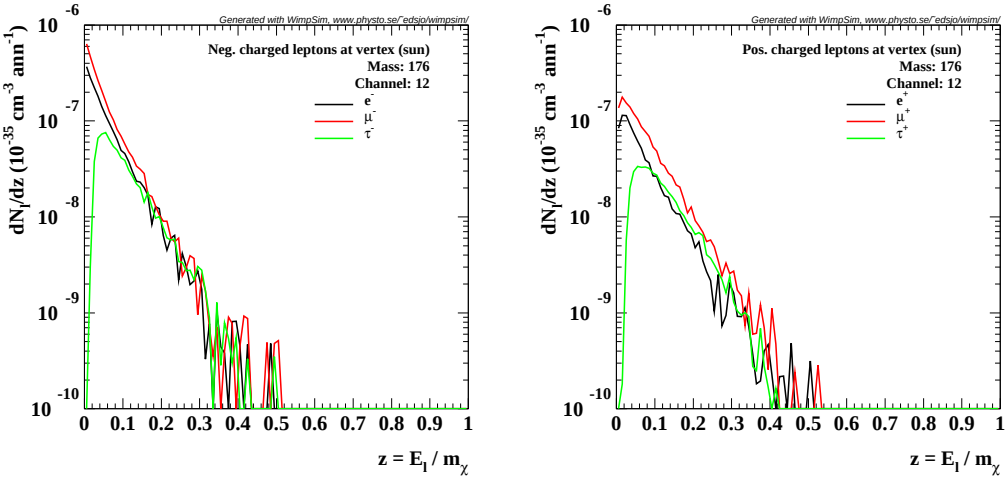


8.7 Channel 12 – gg

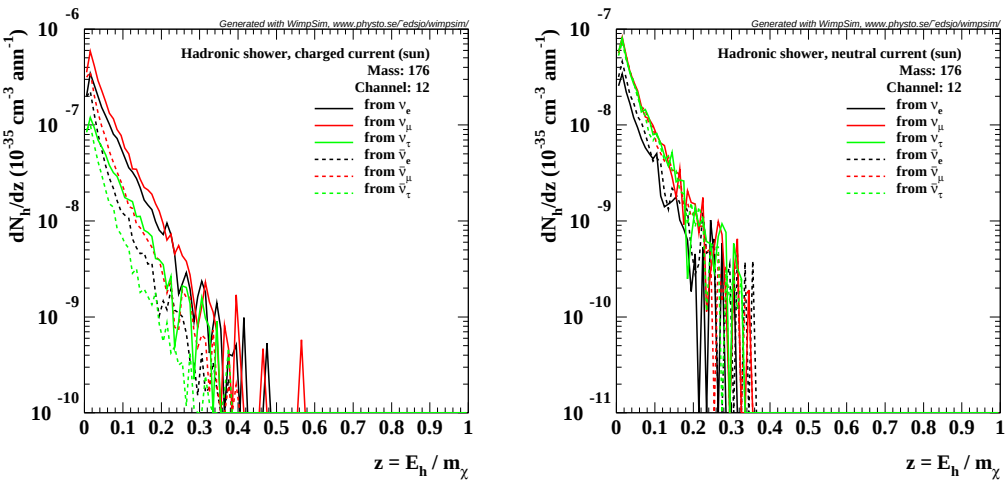
8.7.1 Neutrino fluxes at detector (Sun)



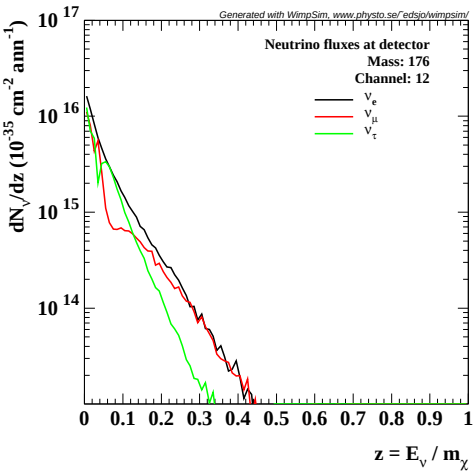
8.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

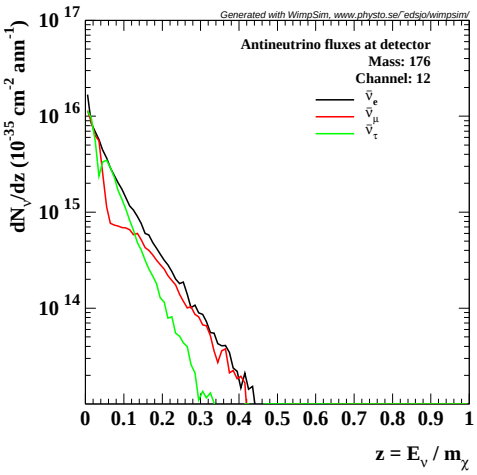


8.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

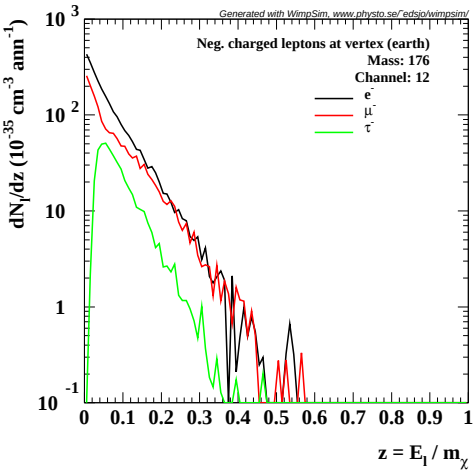


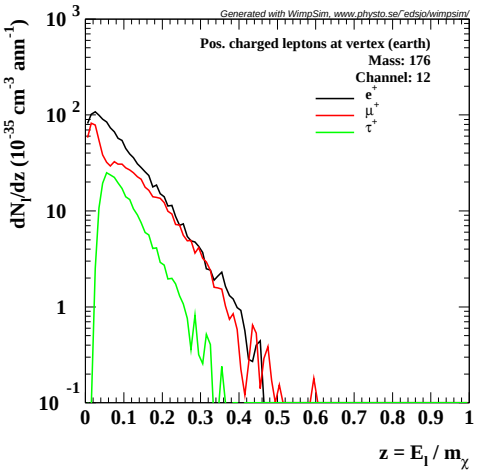
8.7.4 Neutrino fluxes at detector (Earth)



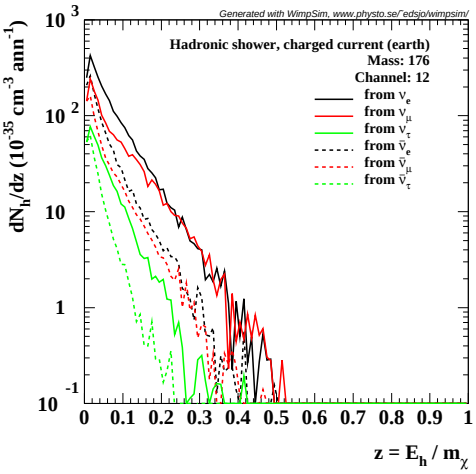


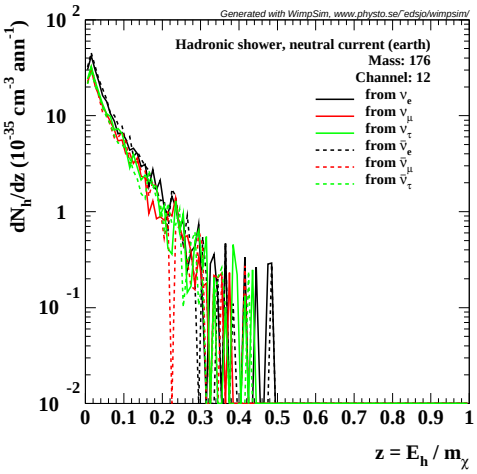
8.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



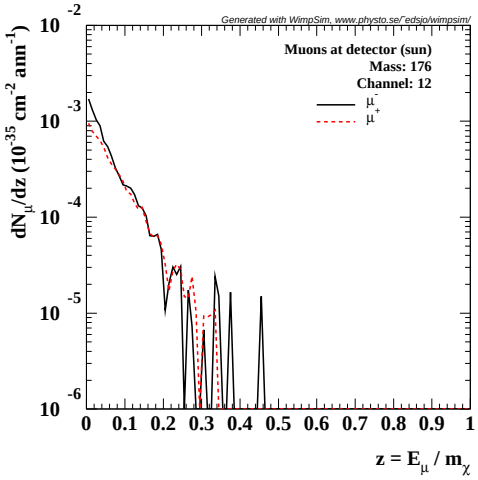


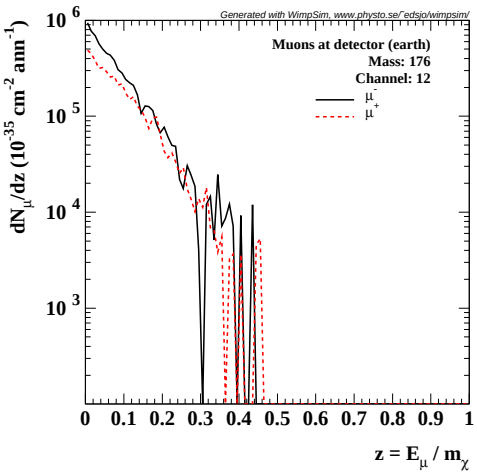
8.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





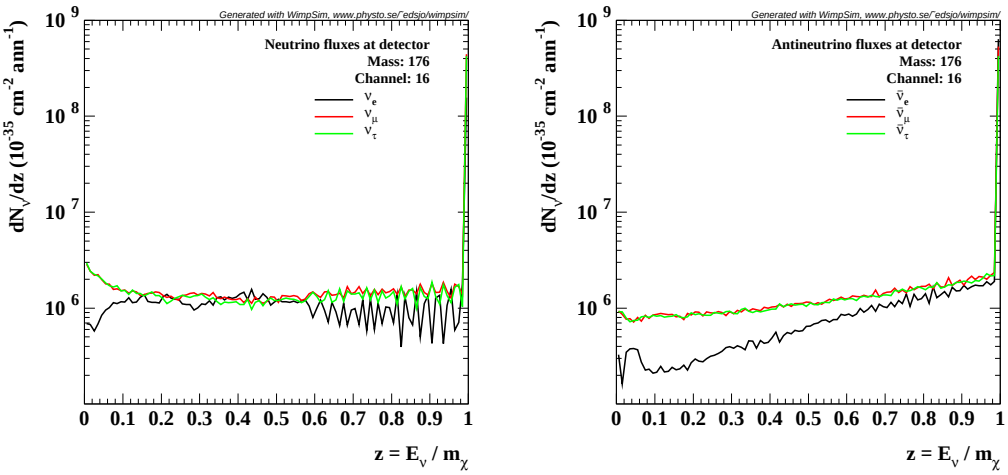
8.7.7 Muons at detector (Sun/Earth)



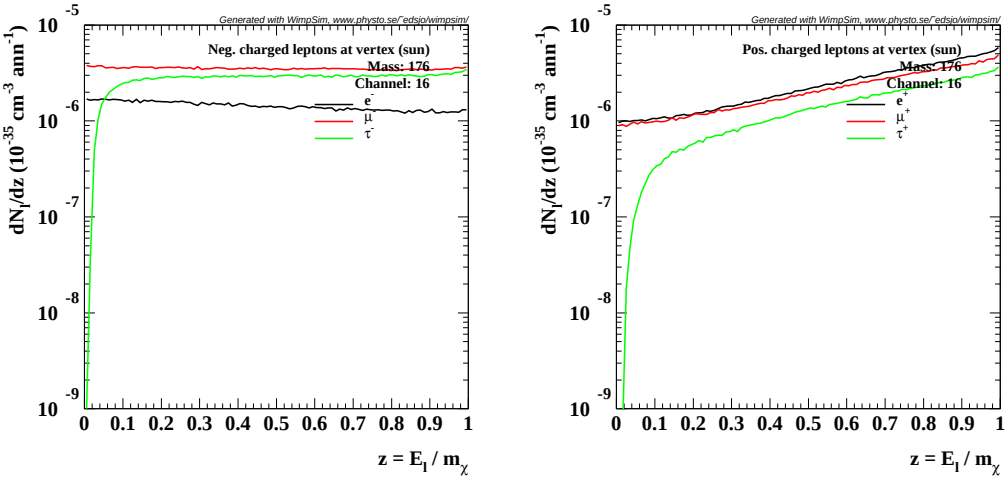


8.8 Channel 16 – $\nu_e\bar{\nu}_e$

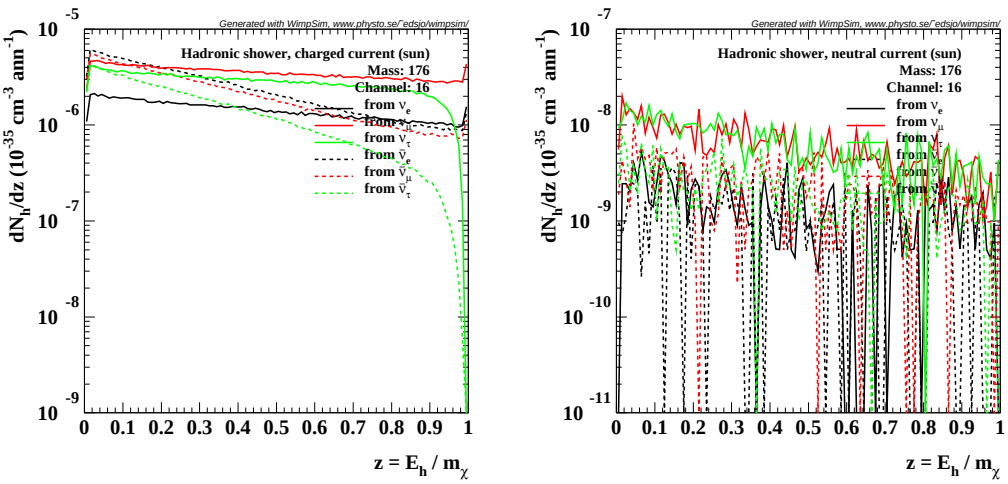
8.8.1 Neutrino fluxes at detector (Sun)



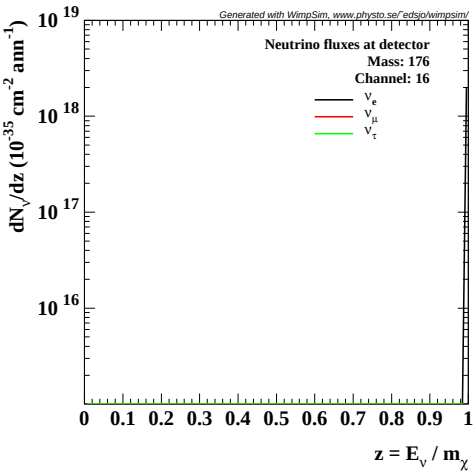
8.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

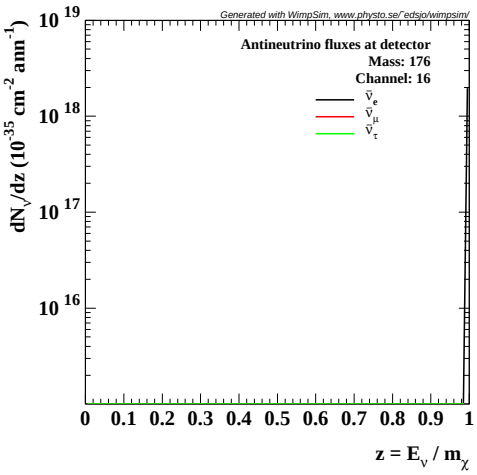


8.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

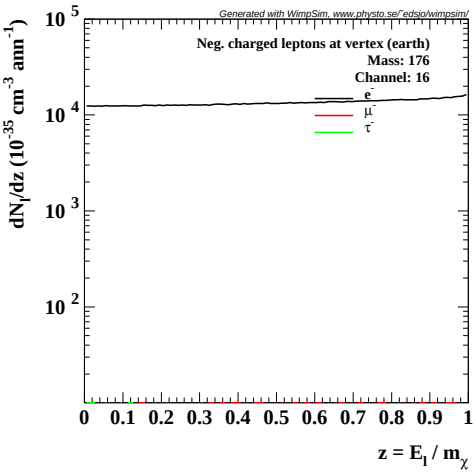


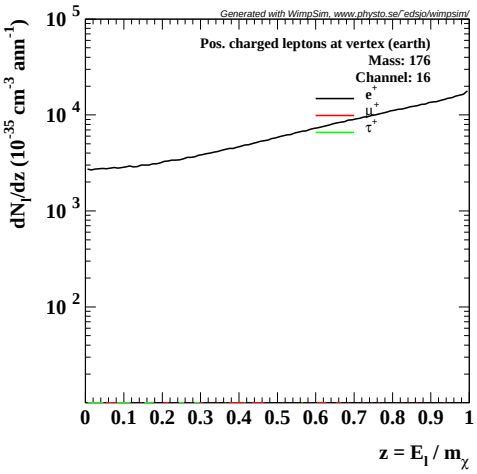
8.8.4 Neutrino fluxes at detector (Earth)



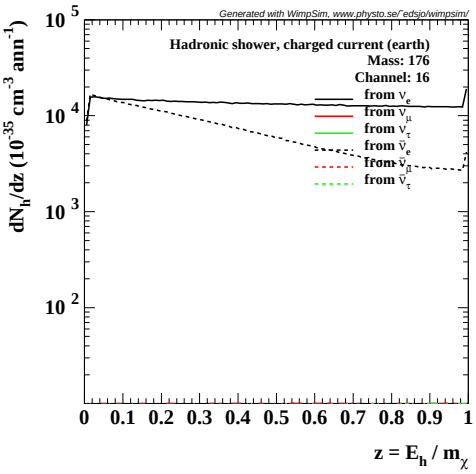


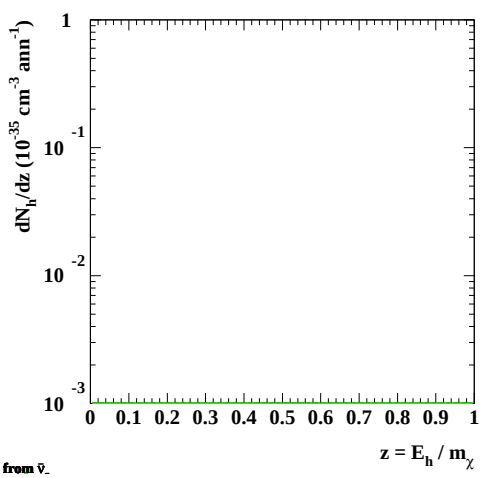
8.8.5 Charged leptons at neutrino-nucleon vertex (Earth)



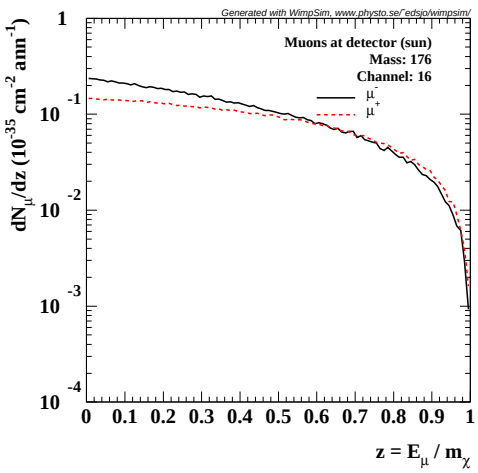


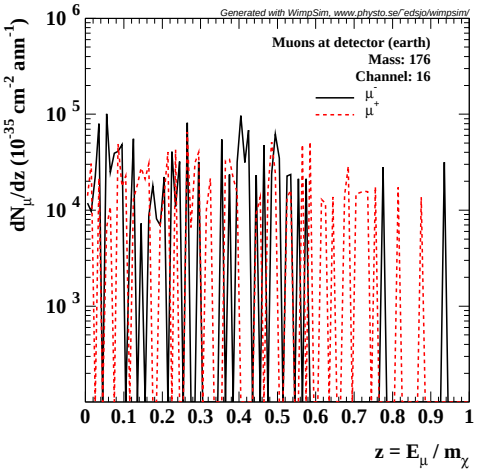
8.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)





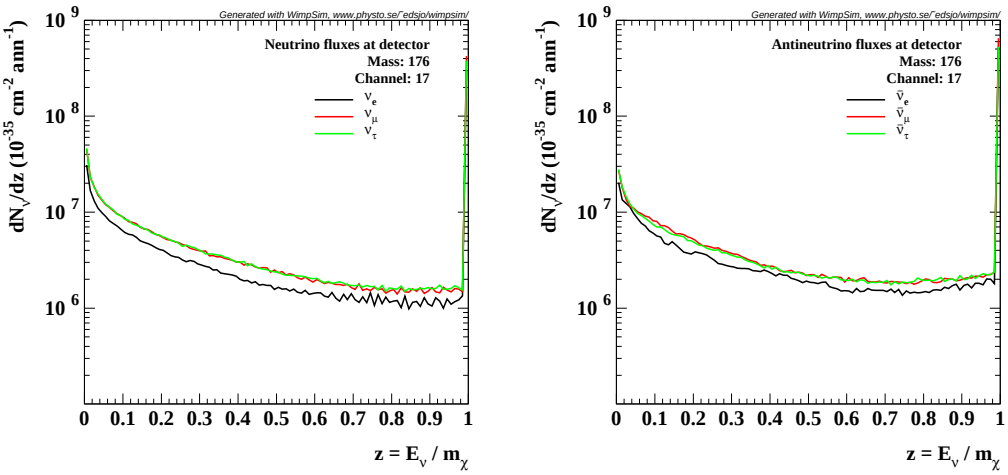
8.8.7 Muons at detector (Sun/Earth)



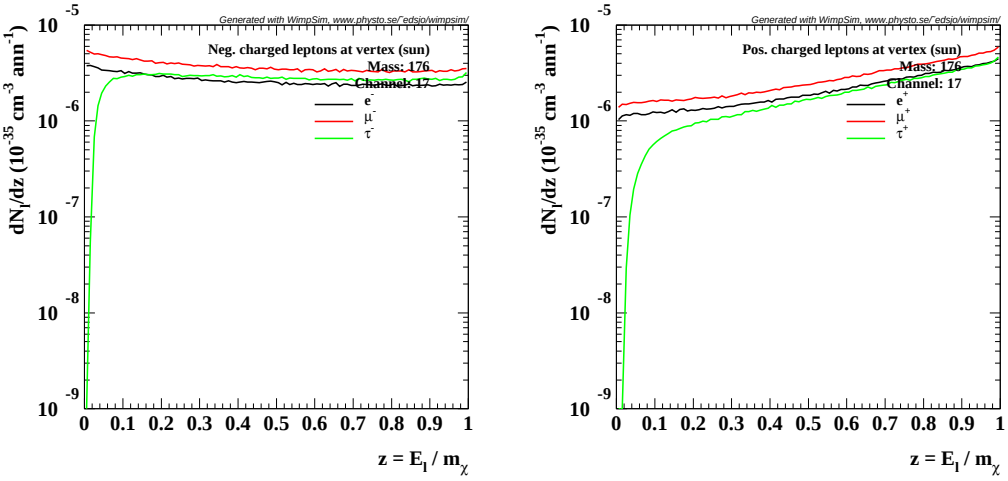


8.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

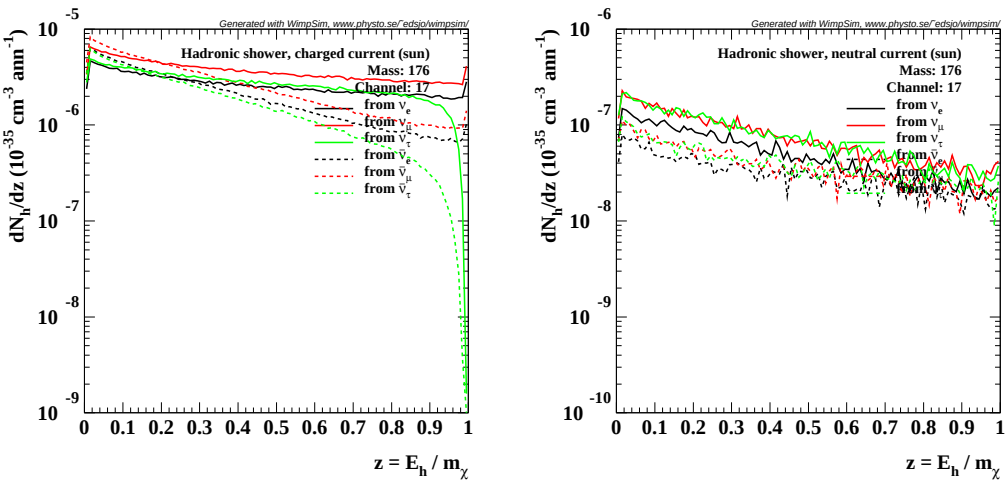
8.9.1 Neutrino fluxes at detector (Sun)



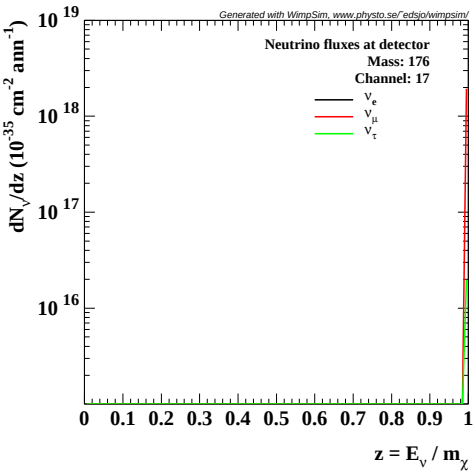
8.9.2 Charged leptons at neutrino-nucleon vertex (Sun)

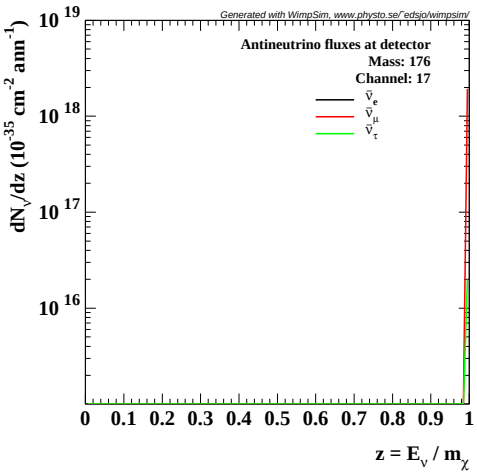


8.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)

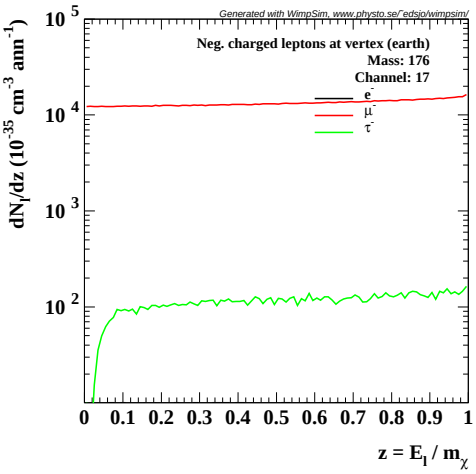


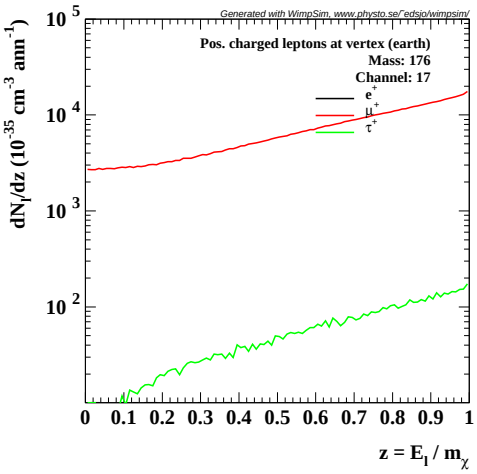
8.9.4 Neutrino fluxes at detector (Earth)



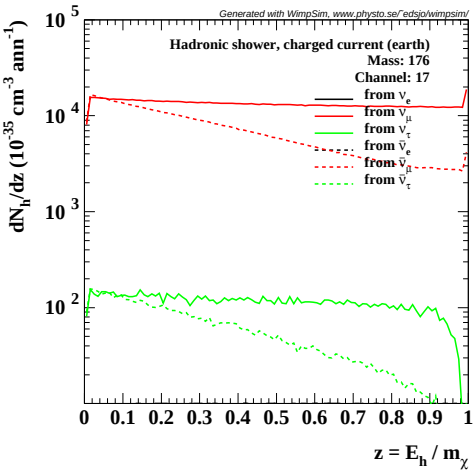


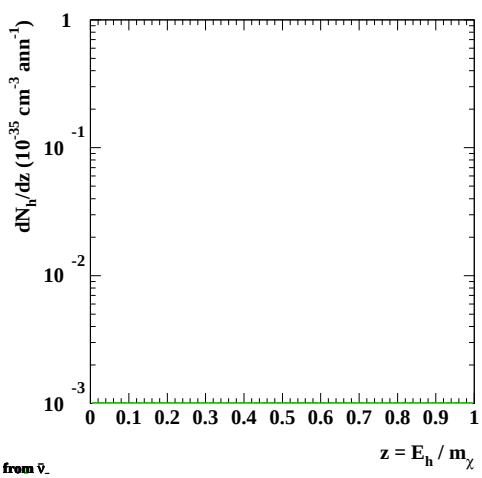
8.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



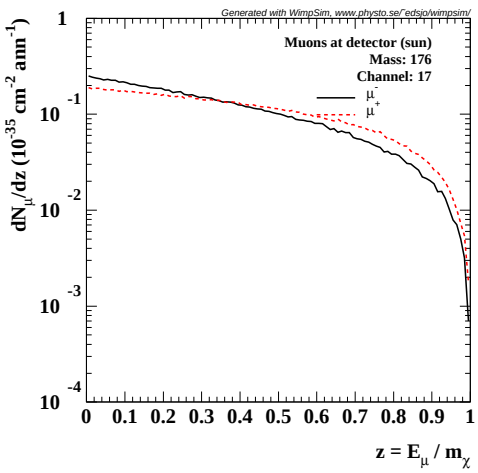


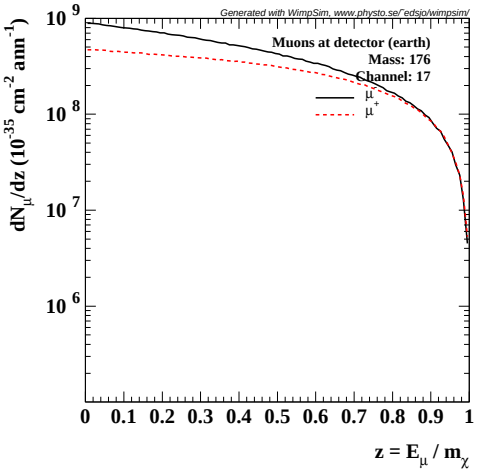
8.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





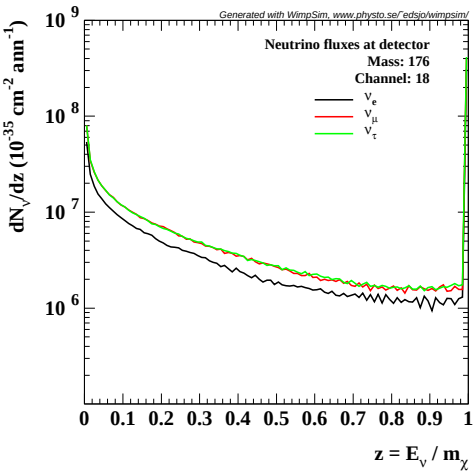
8.9.7 Muons at detector (Sun/Earth)

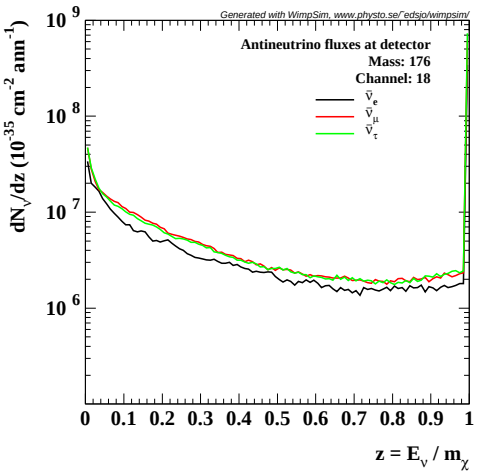




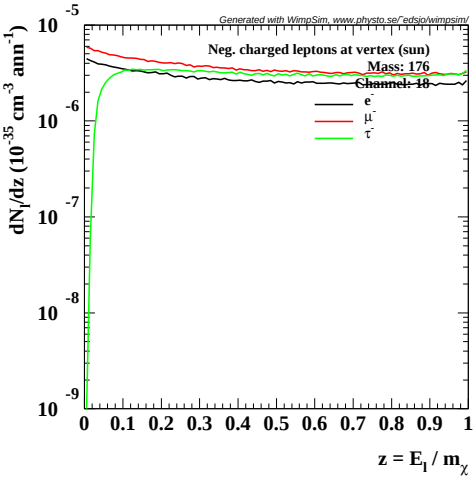
8.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

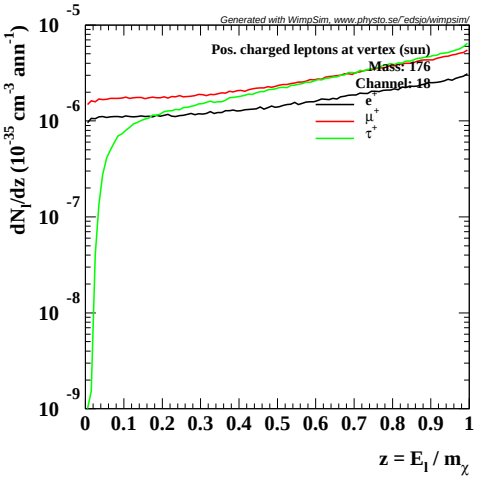
8.10.1 Neutrino fluxes at detector (Sun)



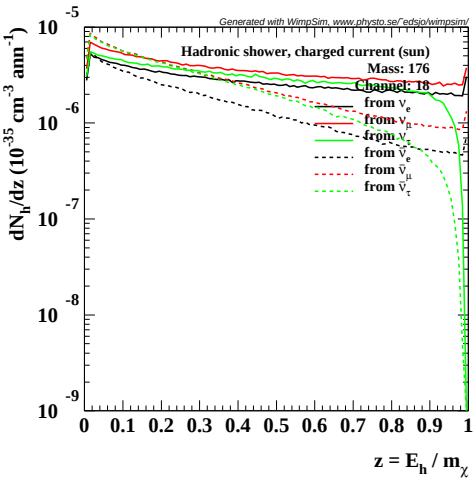


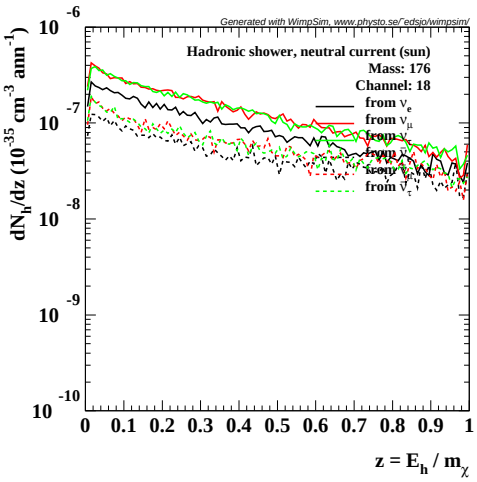
8.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



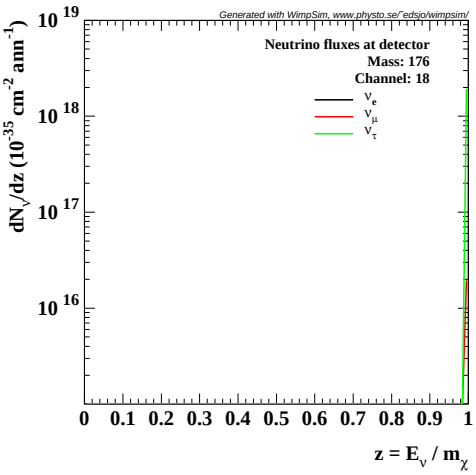


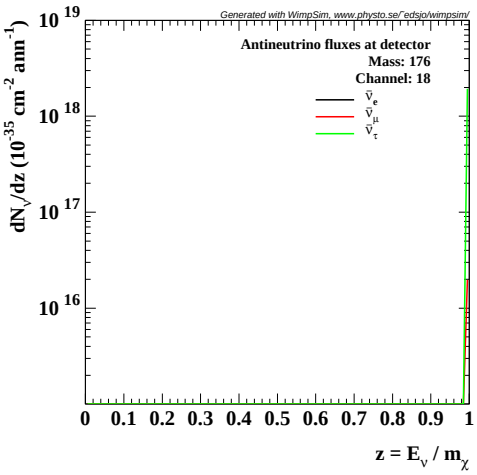
8.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



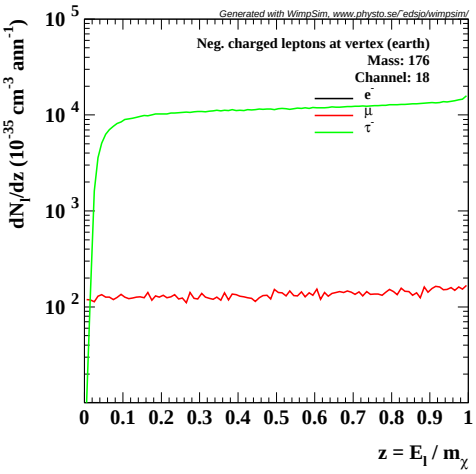


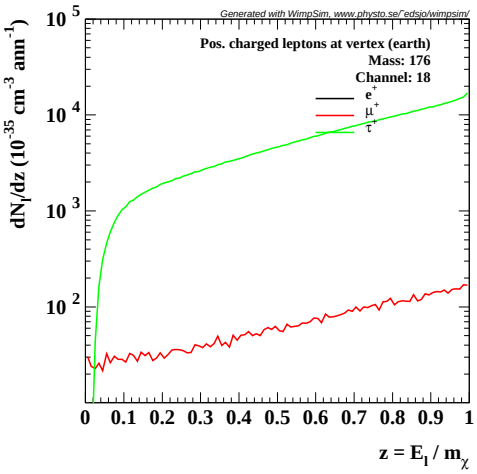
8.10.4 Neutrino fluxes at detector (Earth)



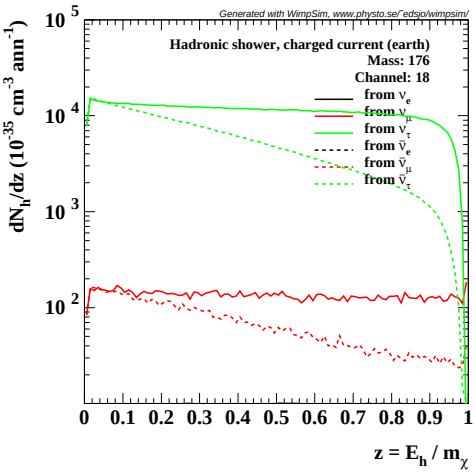


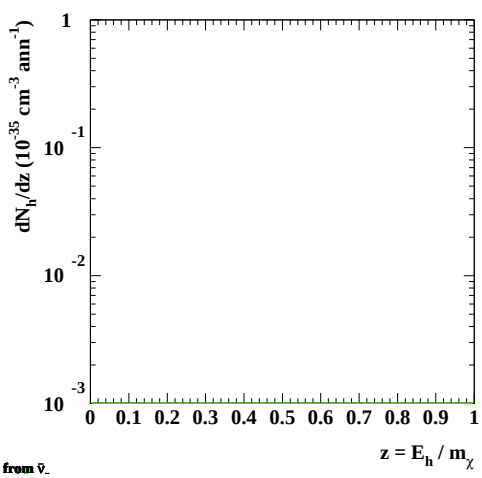
8.10.5 Charged leptons at neutrino-nucleon vertex (Earth)



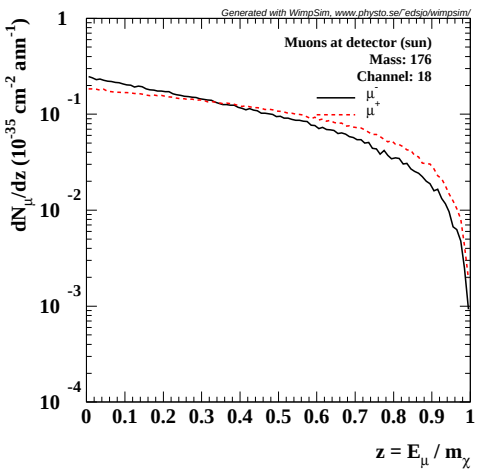


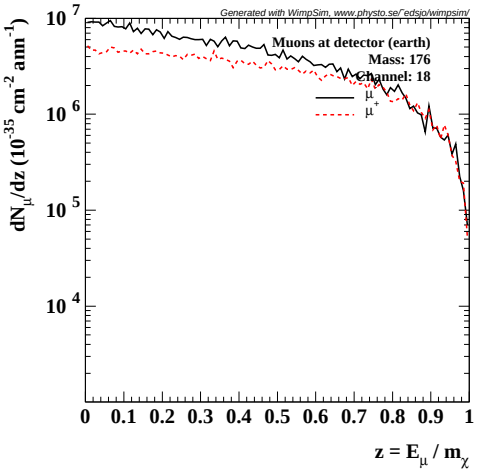
8.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)





8.10.7 Muons at detector (Sun/Earth)

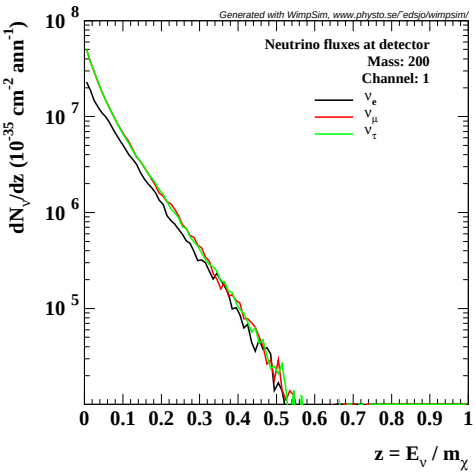


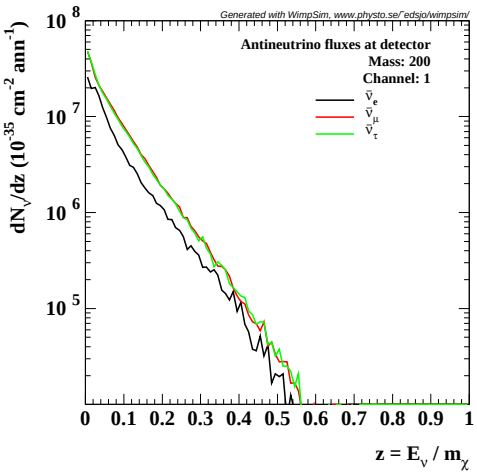


9 Mass 200

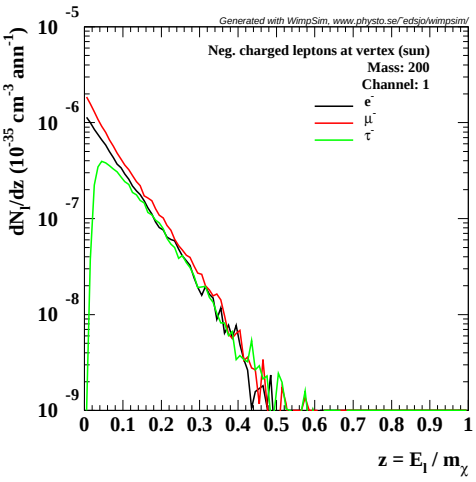
9.1 Channel 1 – $c\bar{c}$

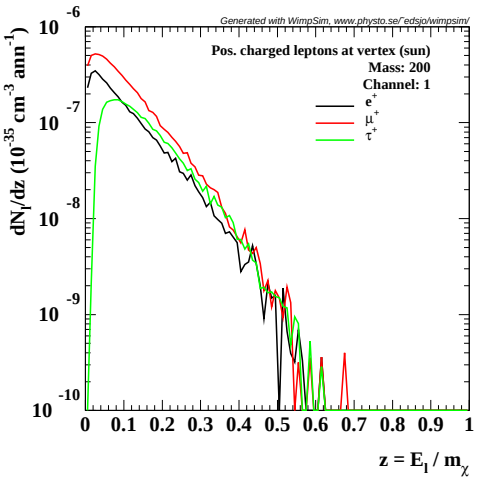
9.1.1 Neutrino fluxes at detector (Sun)



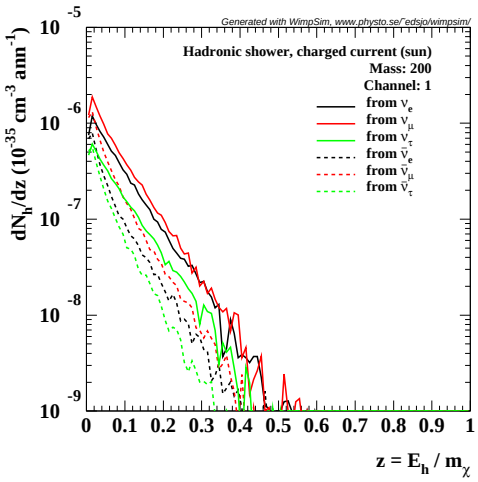


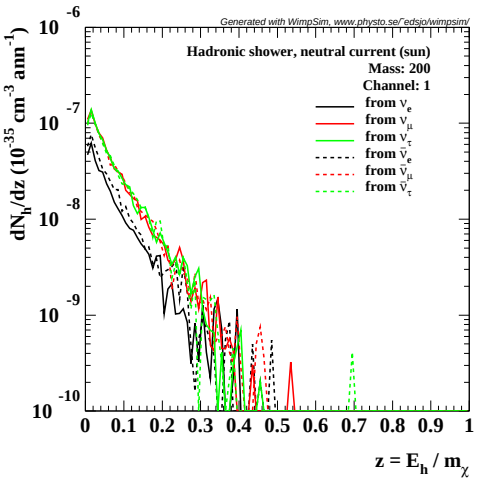
9.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



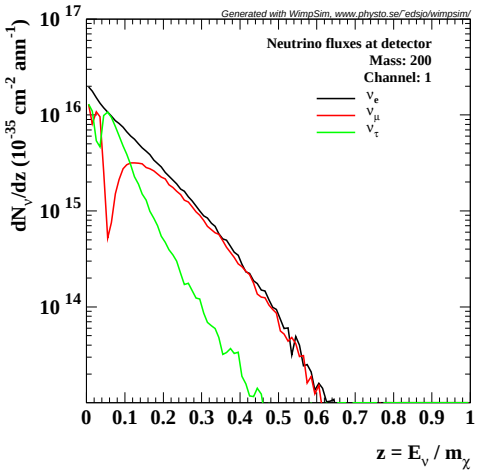


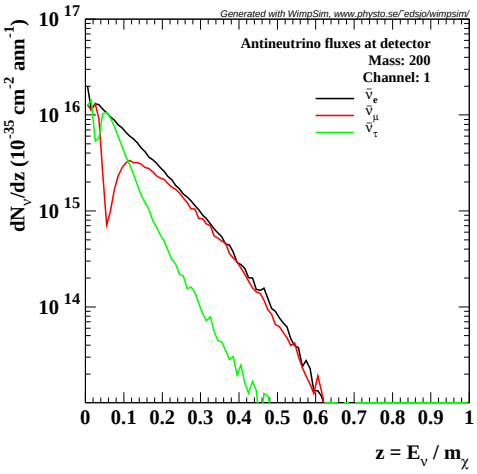
9.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



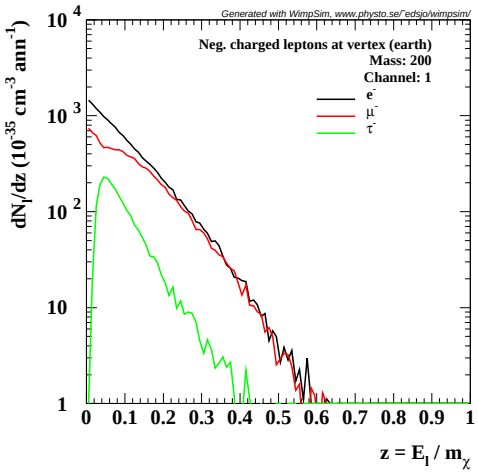


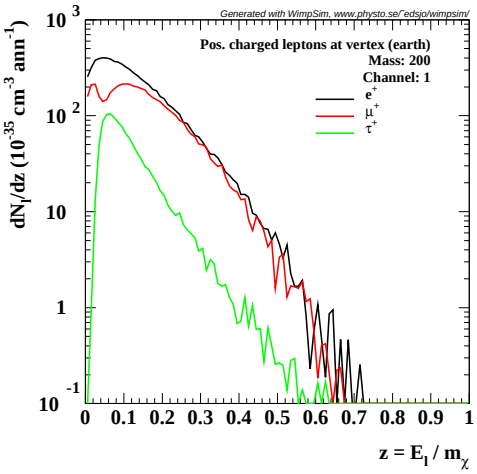
9.1.4 Neutrino fluxes at detector (Earth)



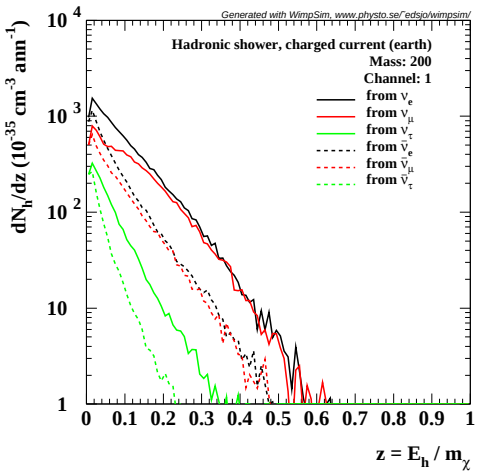


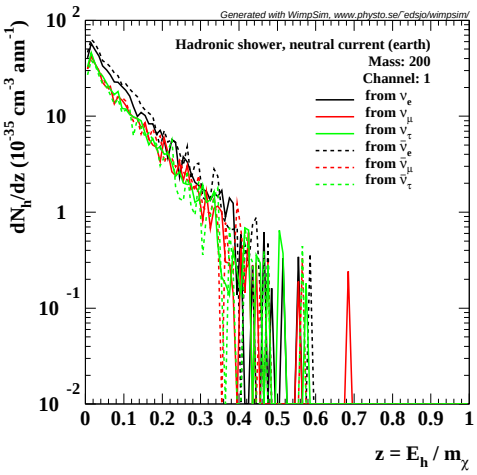
9.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



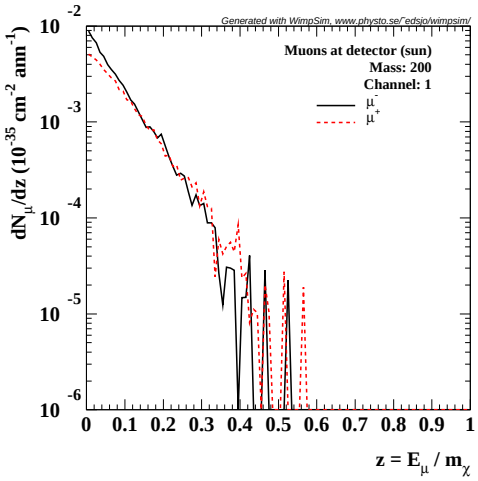


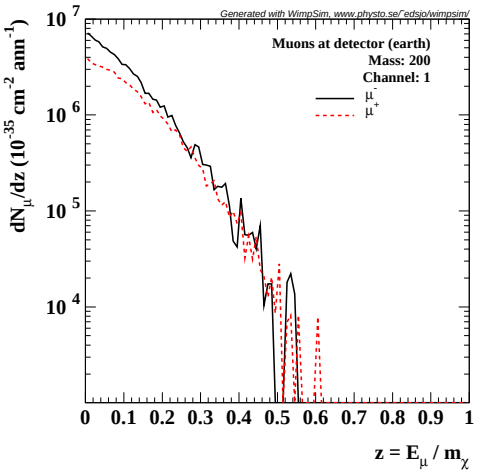
9.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





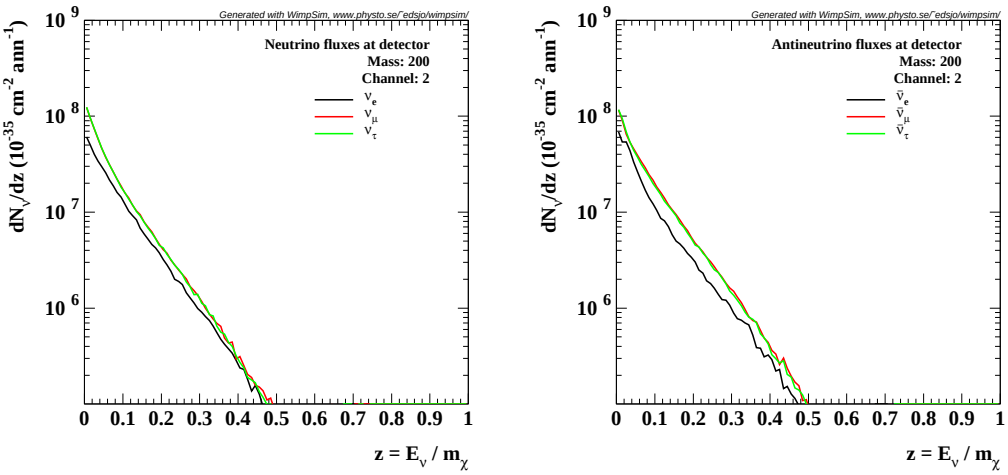
9.1.7 Muons at detector (Sun/Earth)



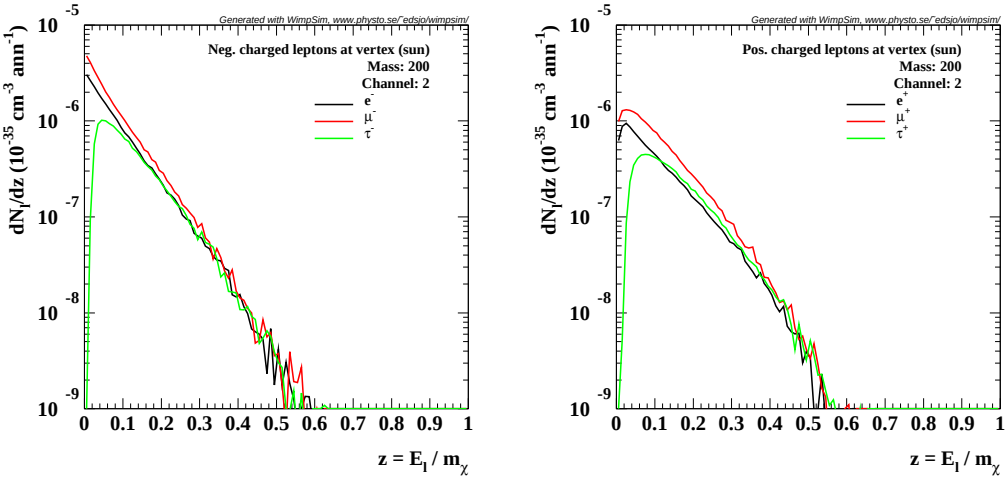


9.2 Channel 2 – $b\bar{b}$

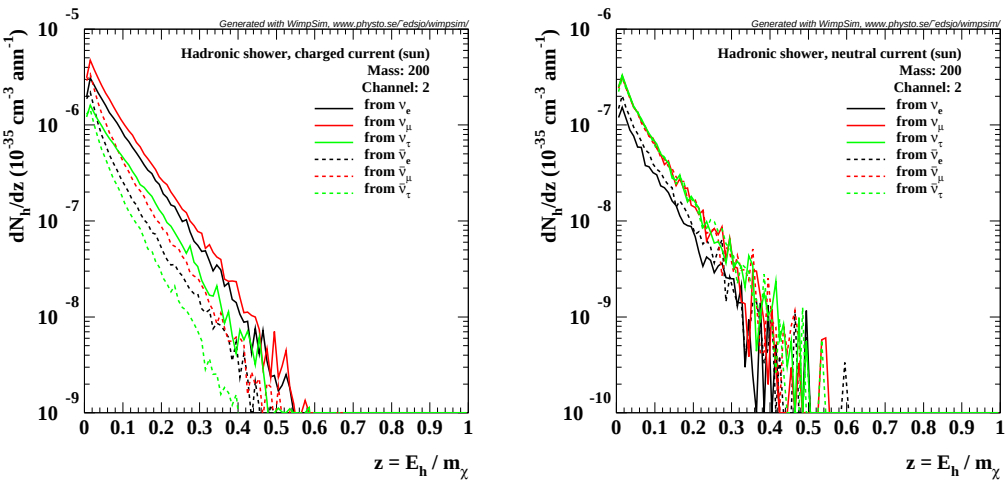
9.2.1 Neutrino fluxes at detector (Sun)



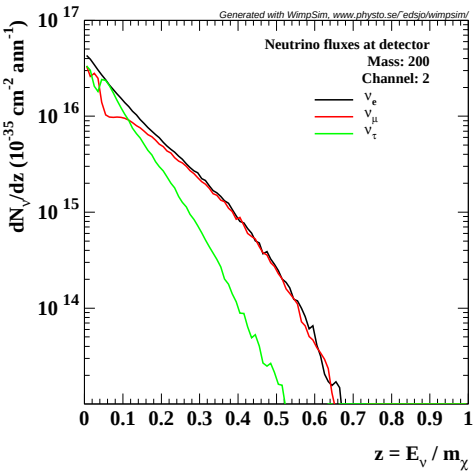
9.2.2 Charged leptons at neutrino-nucleon vertex (Sun)

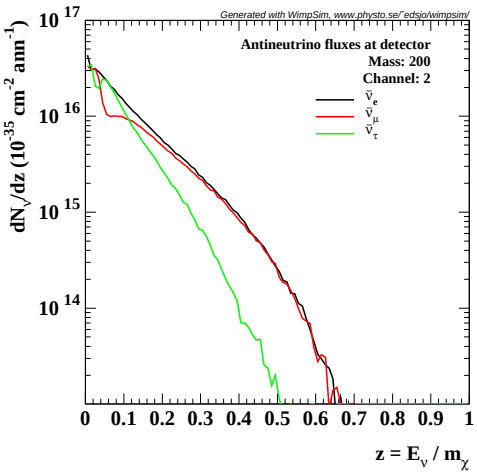


9.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)

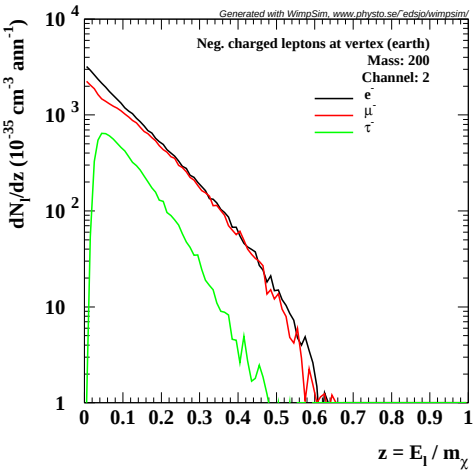


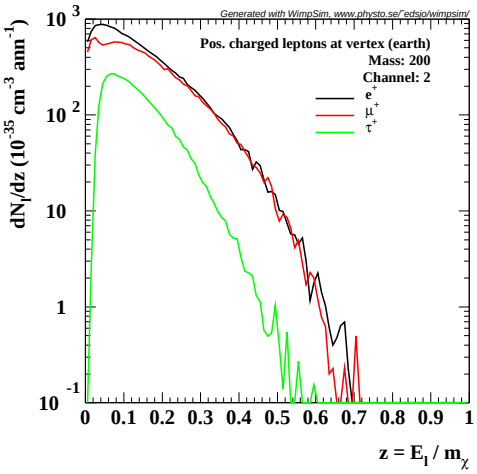
9.2.4 Neutrino fluxes at detector (Earth)



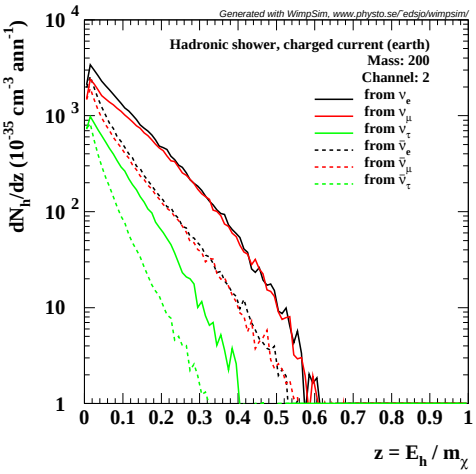


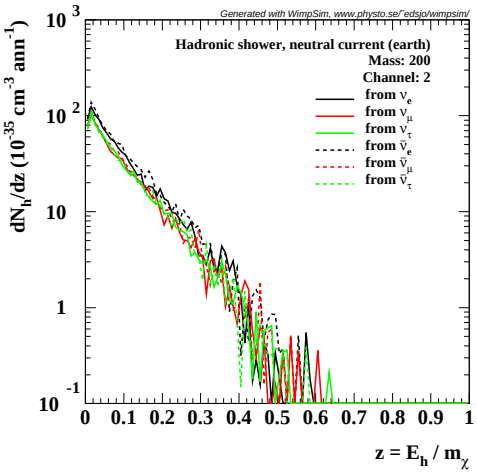
9.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



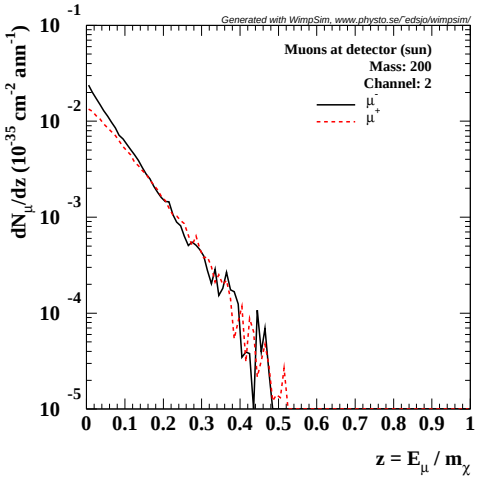


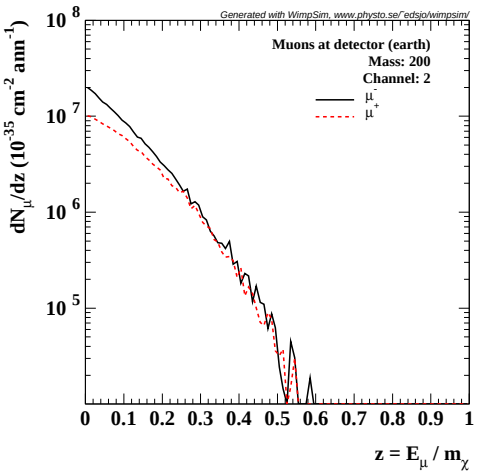
9.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





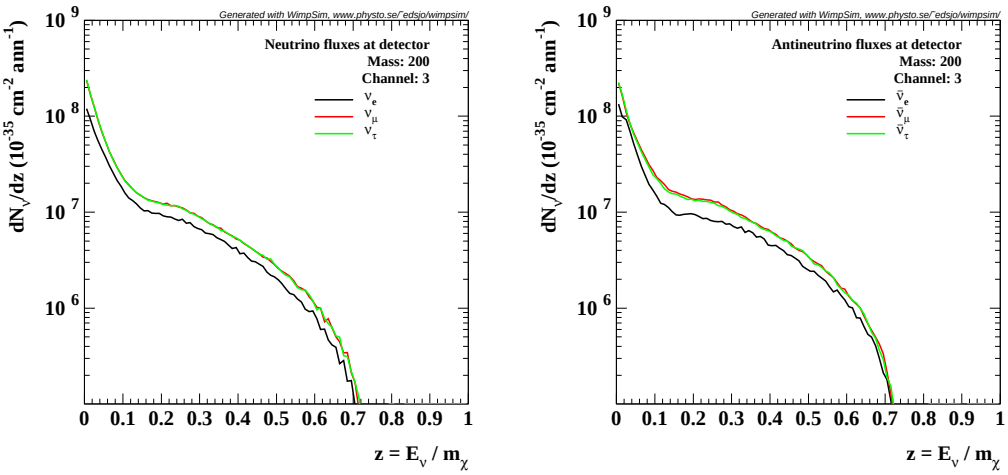
9.2.7 Muons at detector (Sun/Earth)



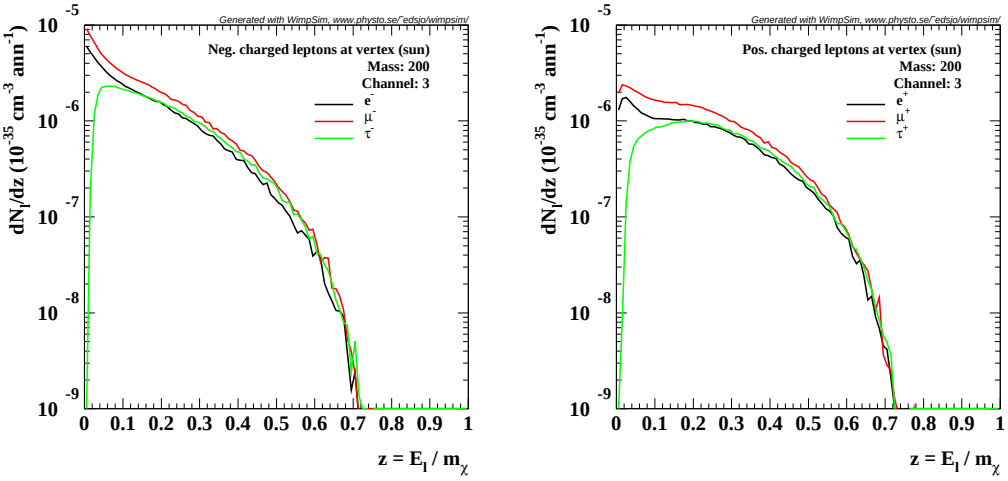


9.3 Channel 3 – $t\bar{t}$

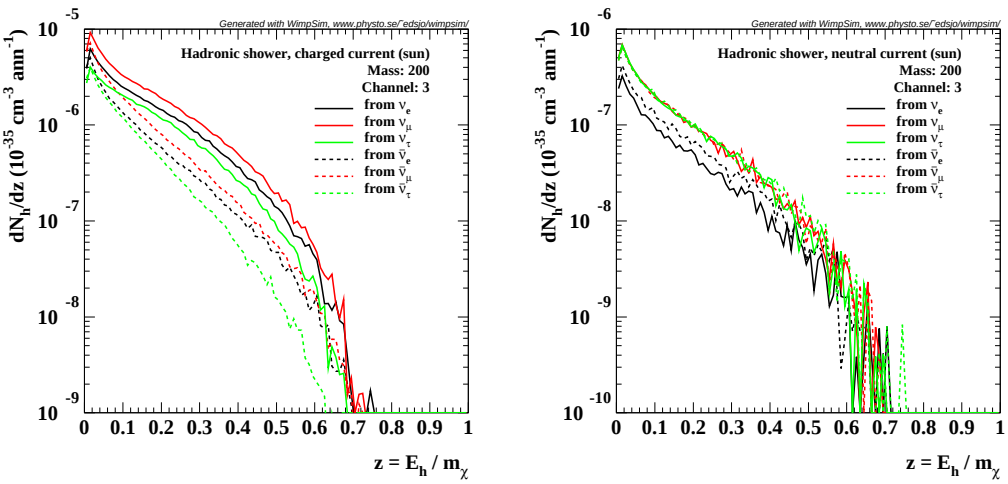
9.3.1 Neutrino fluxes at detector (Sun)



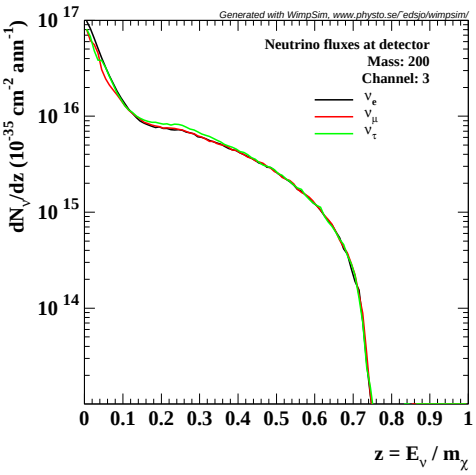
9.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

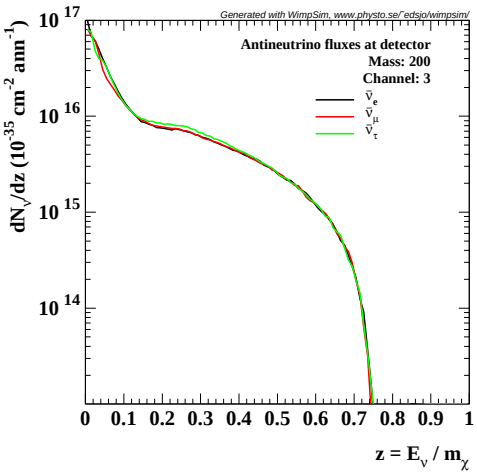


9.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

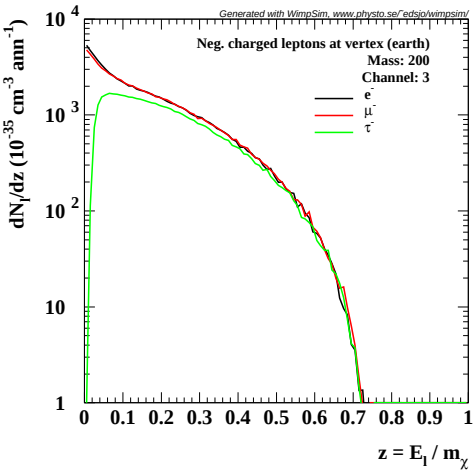


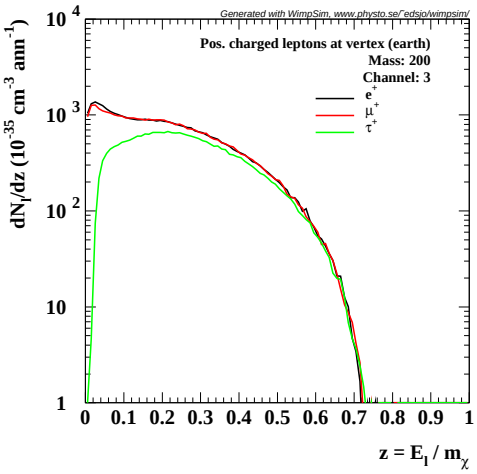
9.3.4 Neutrino fluxes at detector (Earth)



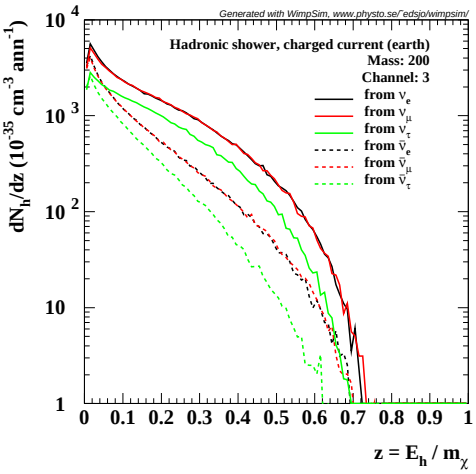


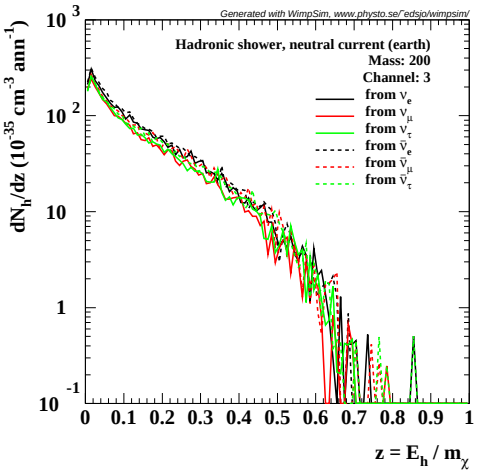
9.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



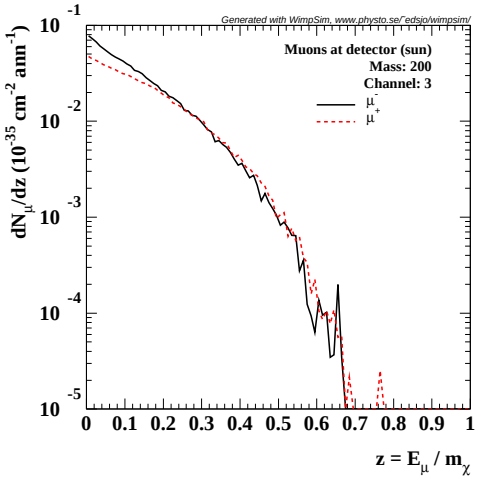


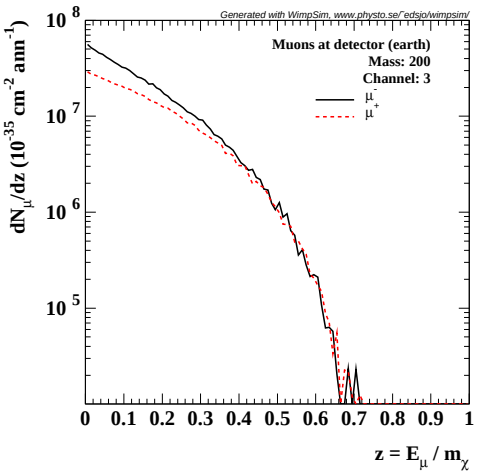
9.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





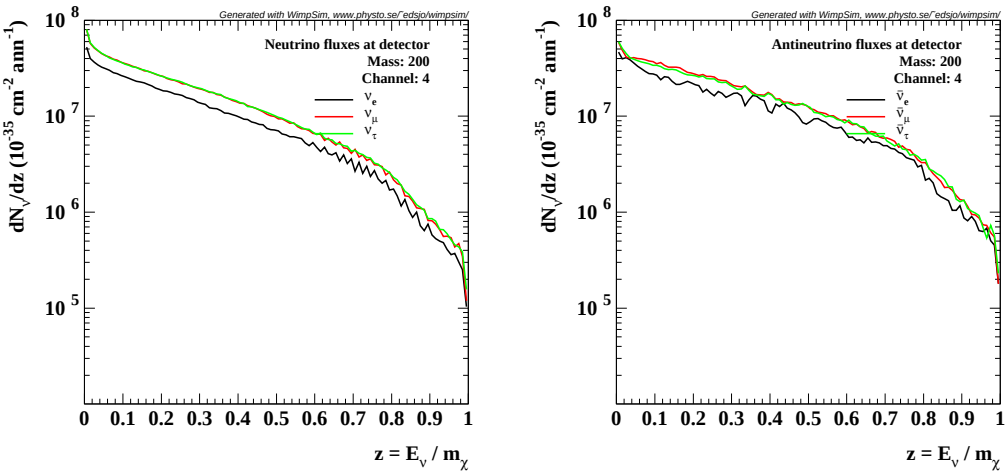
9.3.7 Muons at detector (Sun/Earth)



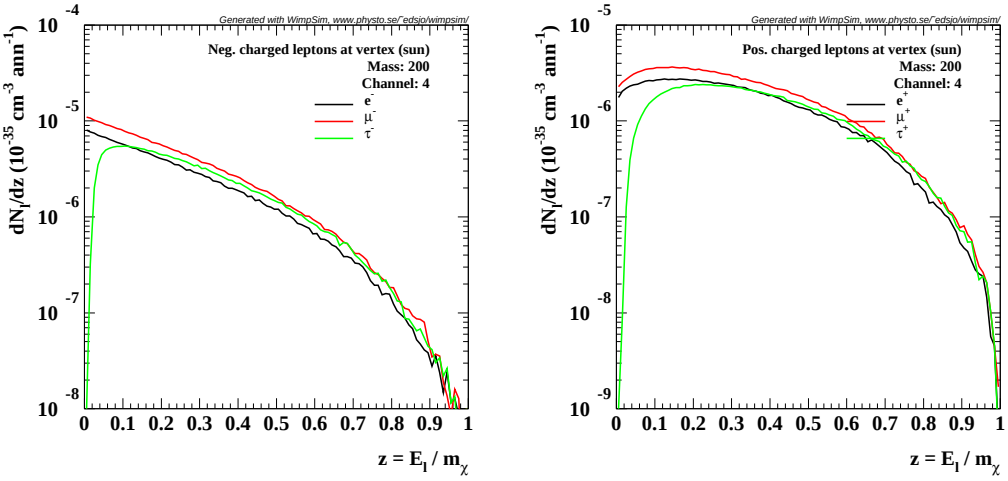


9.4 Channel 4 – $\tau^-\tau^+$

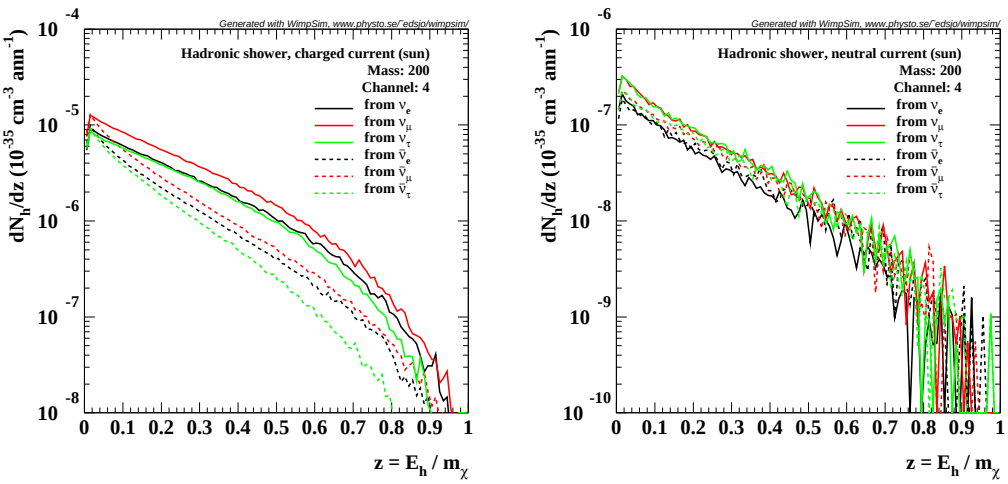
9.4.1 Neutrino fluxes at detector (Sun)



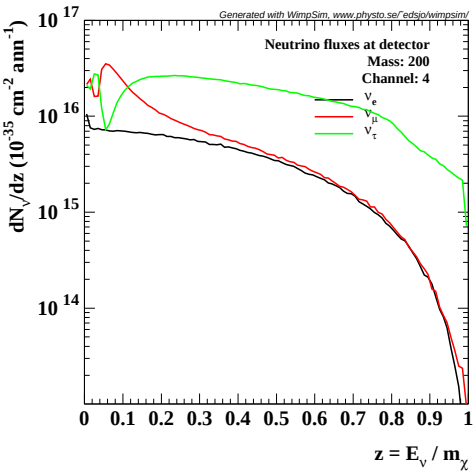
9.4.2 Charged leptons at neutrino-nucleon vertex (Sun)

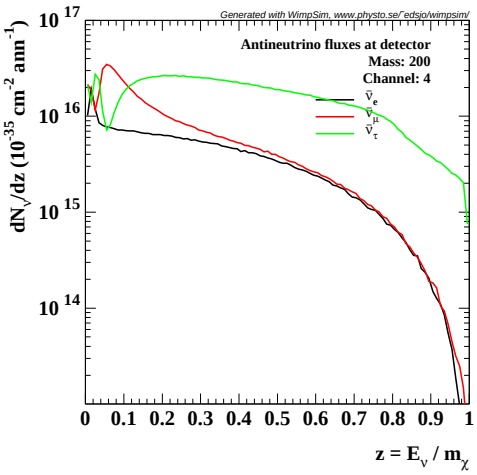


9.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

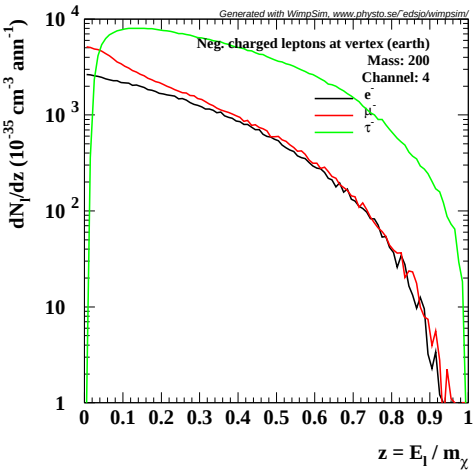


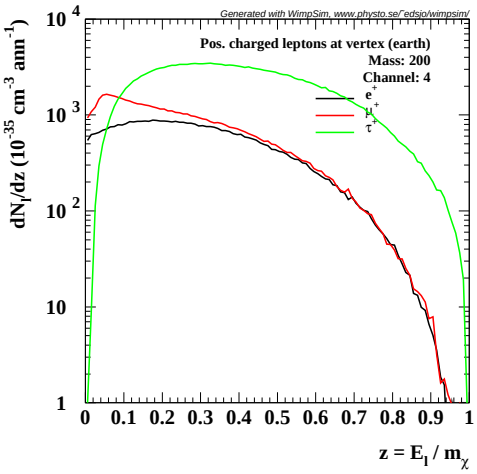
9.4.4 Neutrino fluxes at detector (Earth)



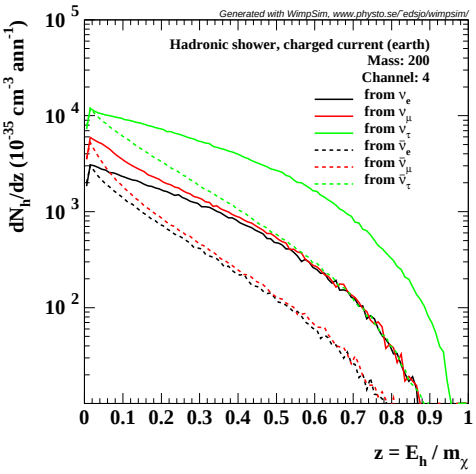


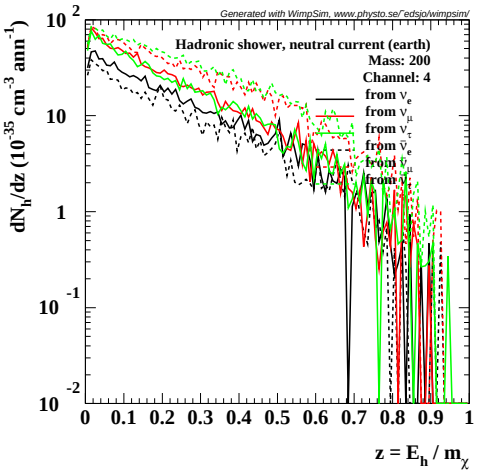
9.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



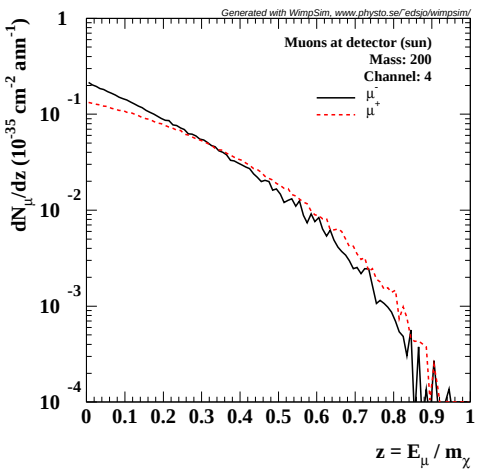


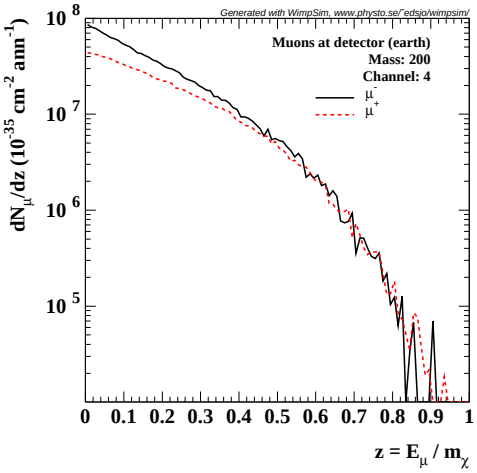
9.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





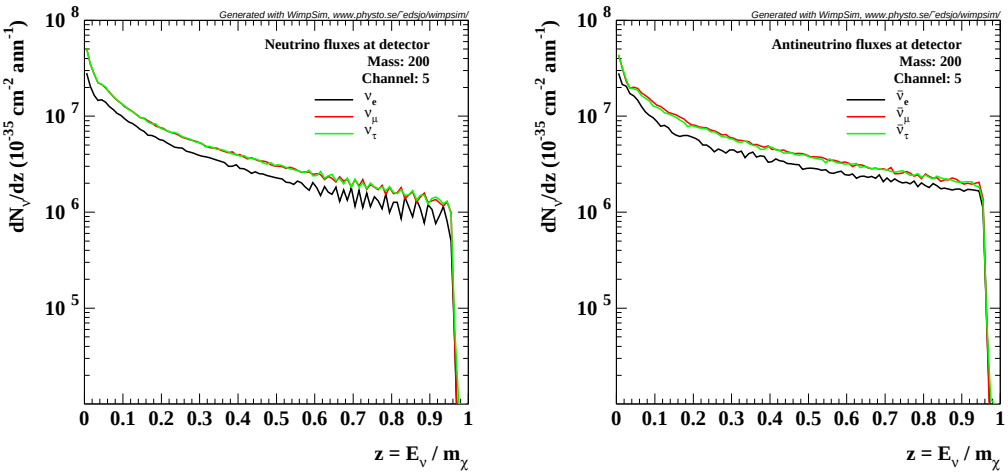
9.4.7 Muons at detector (Sun/Earth)



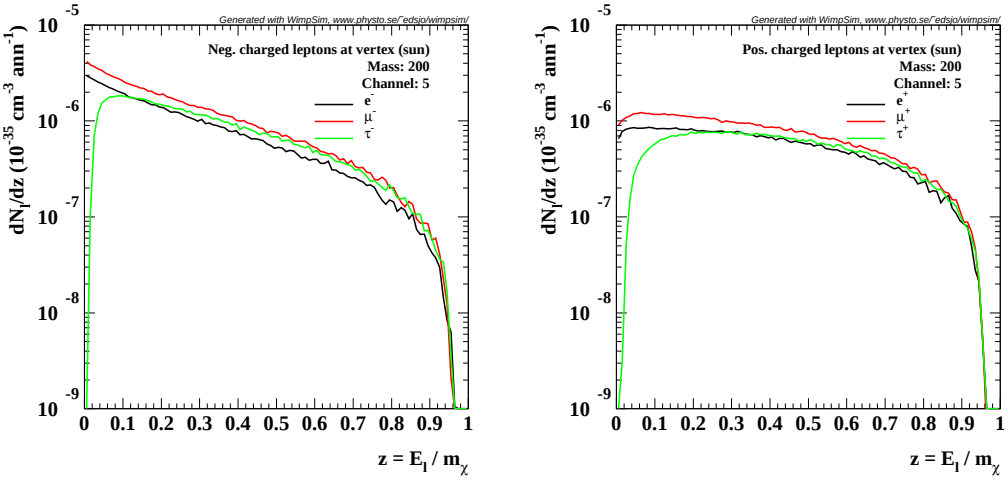


9.5 Channel 5 – W^-W^+

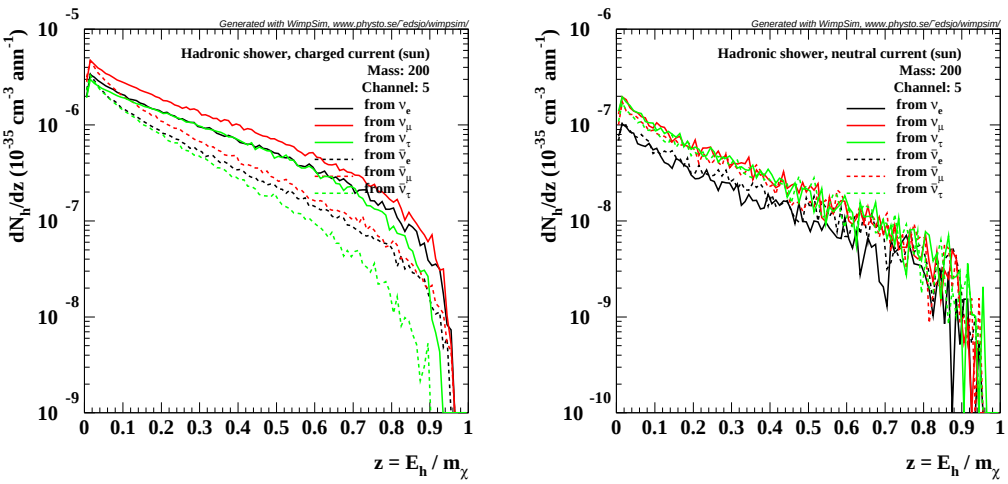
9.5.1 Neutrino fluxes at detector (Sun)



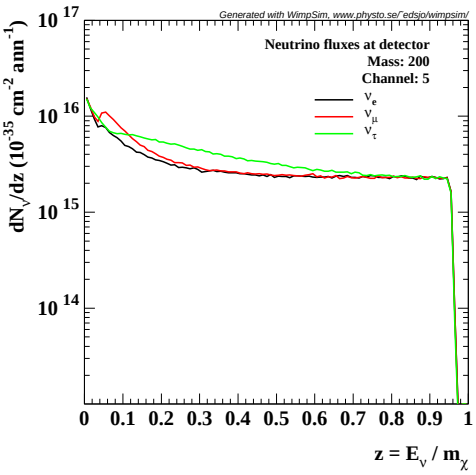
9.5.2 Charged leptons at neutrino-nucleon vertex (Sun)

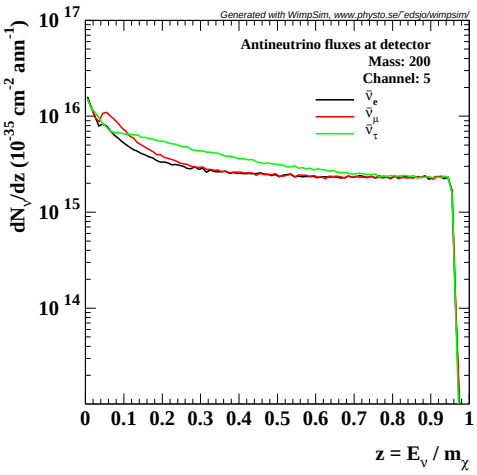


9.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

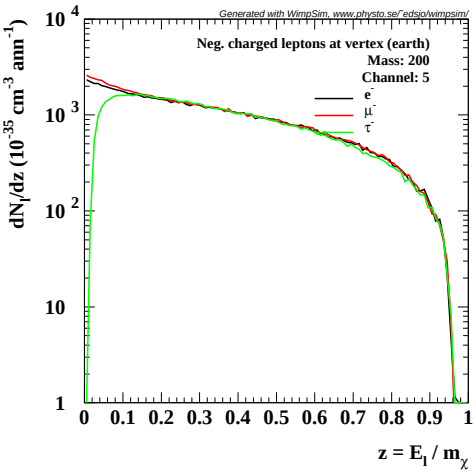


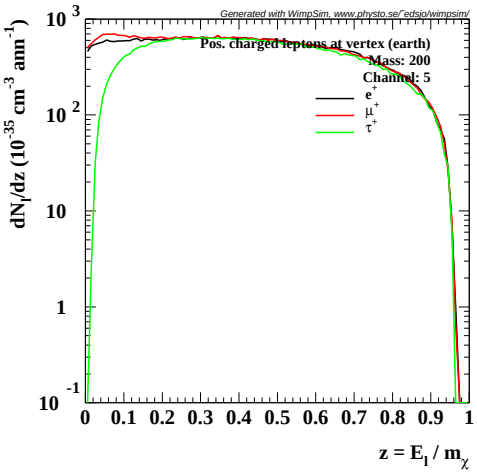
9.5.4 Neutrino fluxes at detector (Earth)



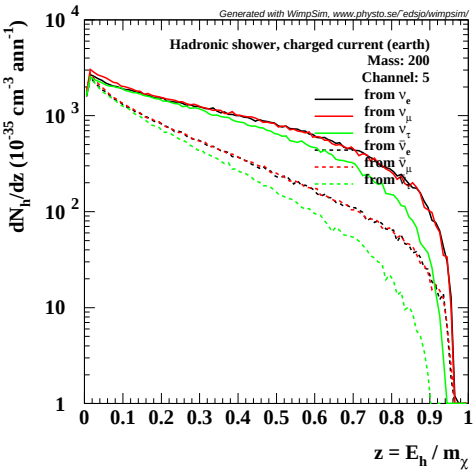


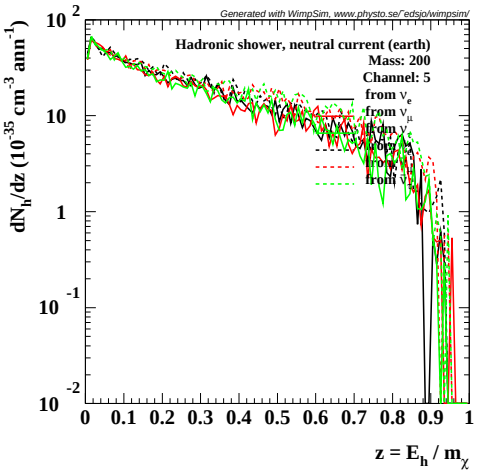
9.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



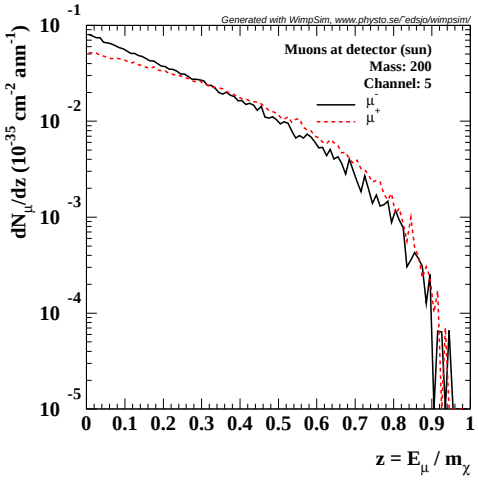


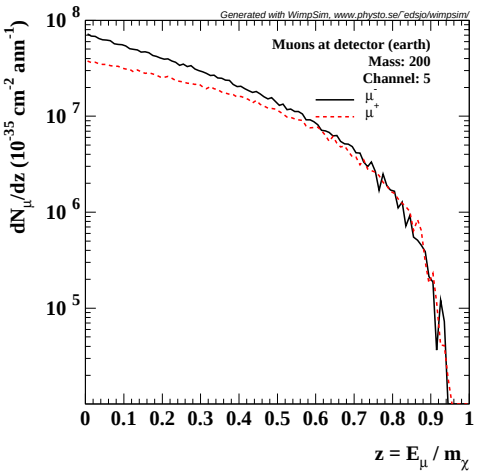
9.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





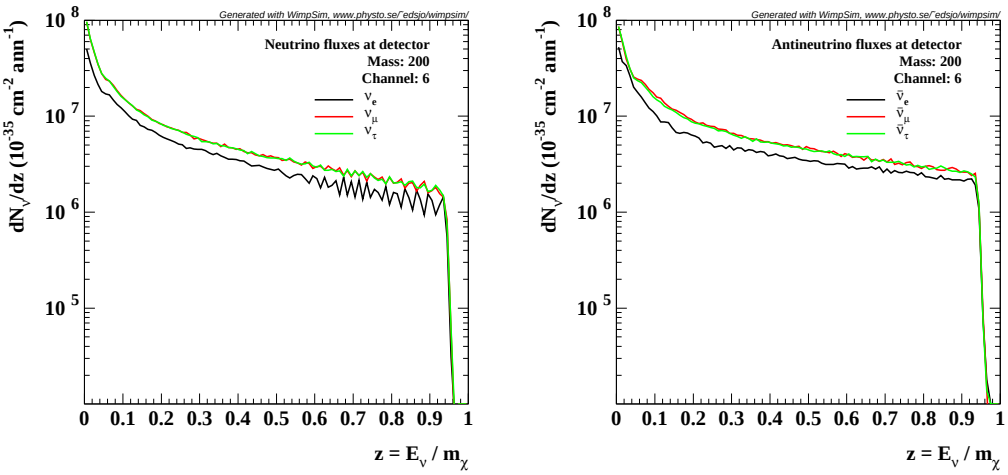
9.5.7 Muons at detector (Sun/Earth)



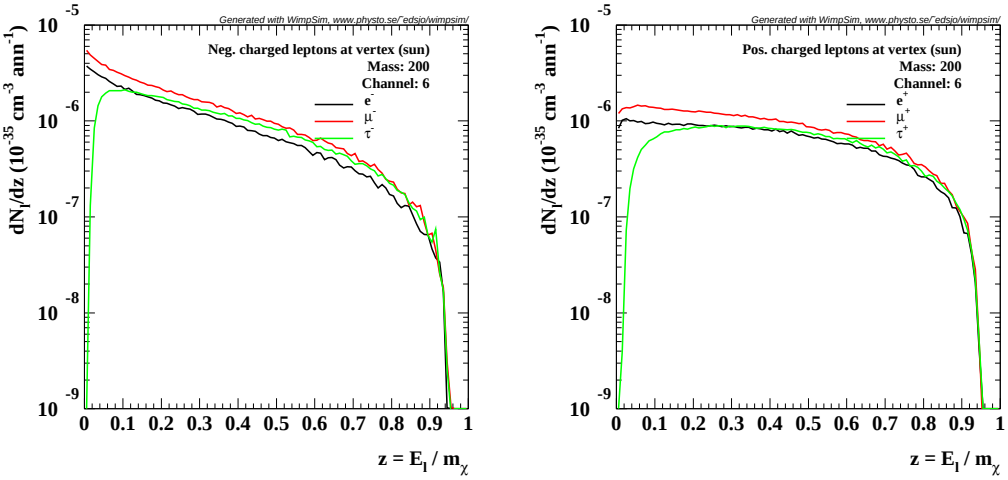


9.6 Channel 6 – Z^0Z^0

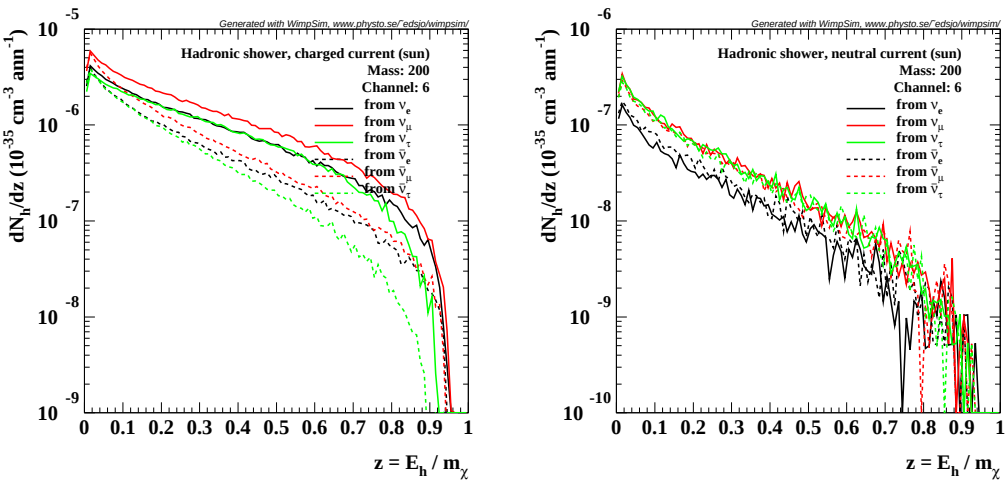
9.6.1 Neutrino fluxes at detector (Sun)



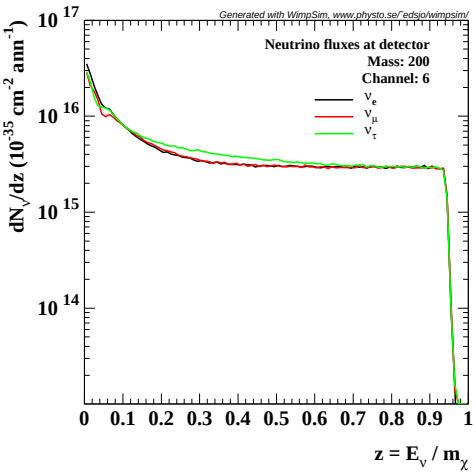
9.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

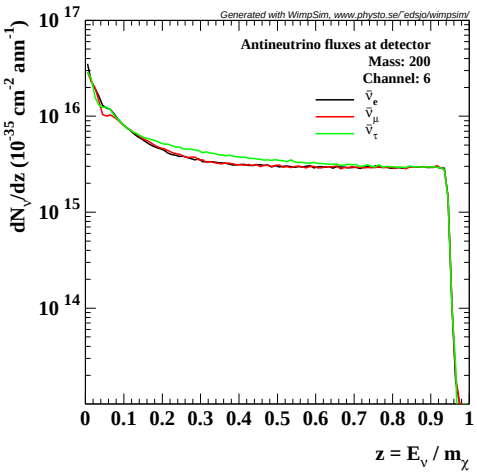


9.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

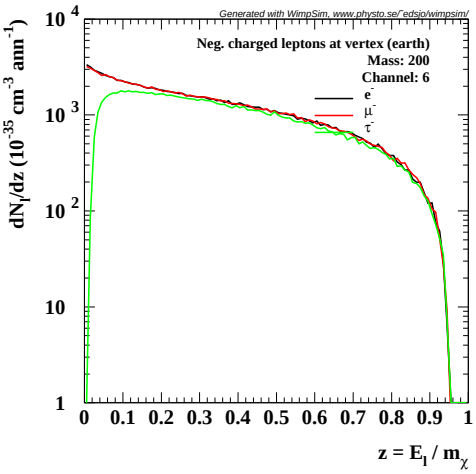


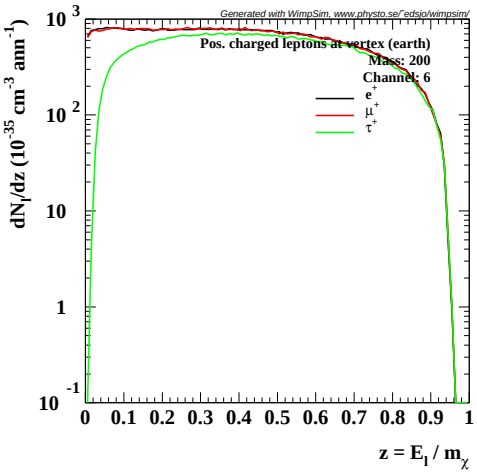
9.6.4 Neutrino fluxes at detector (Earth)



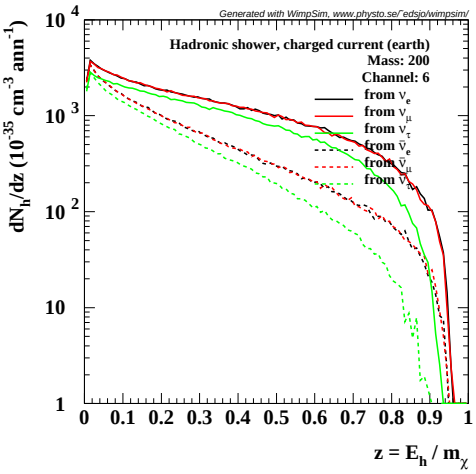


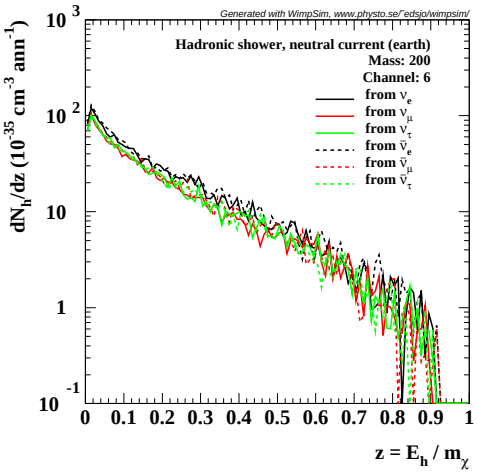
9.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



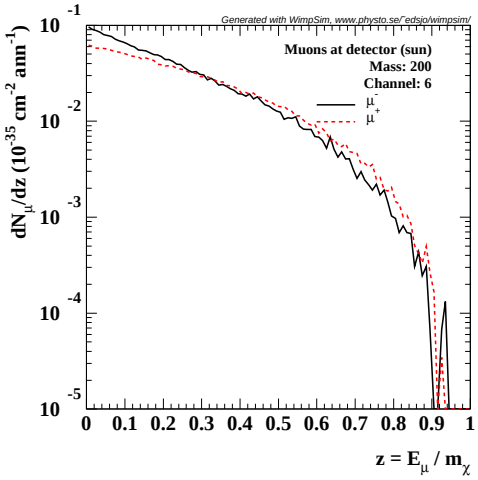


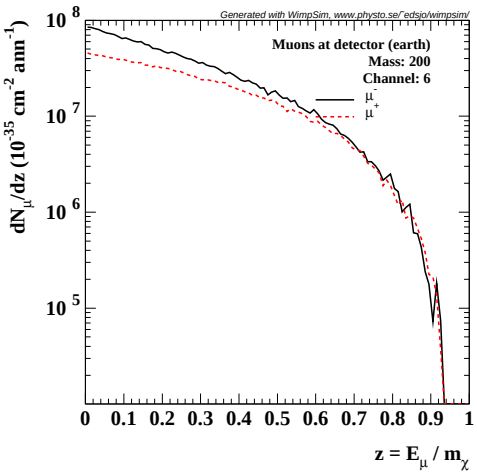
9.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





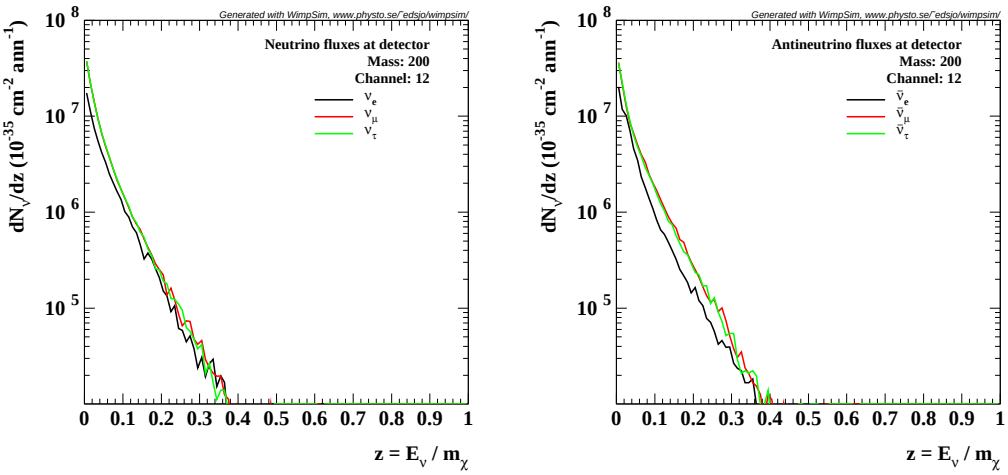
9.6.7 Muons at detector (Sun/Earth)



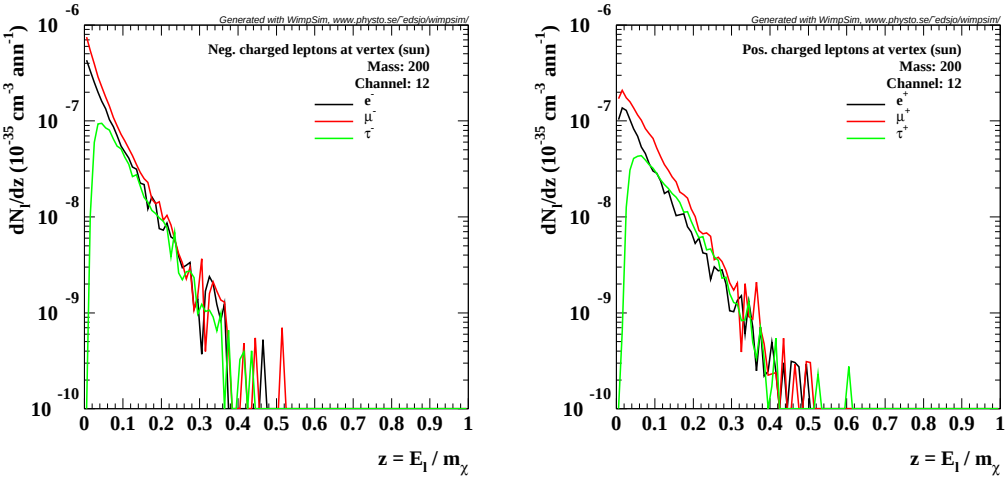


9.7 Channel 12 – gg

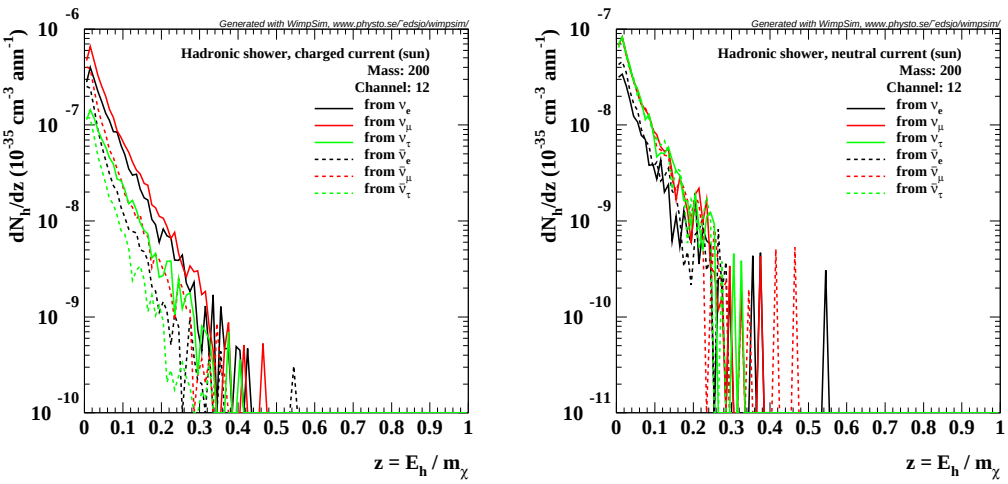
9.7.1 Neutrino fluxes at detector (Sun)



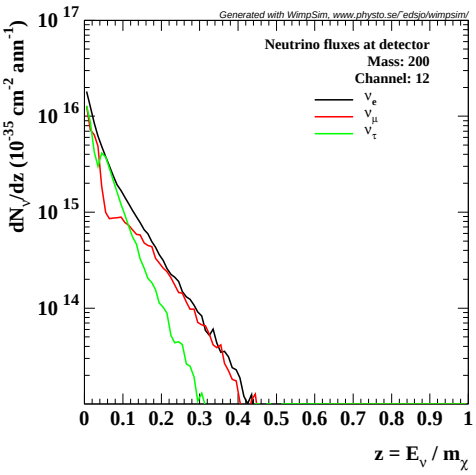
9.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

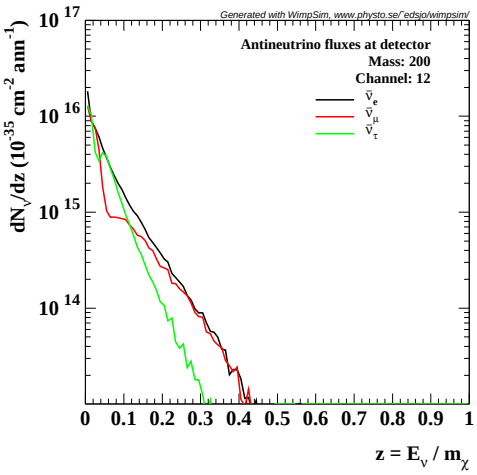


9.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

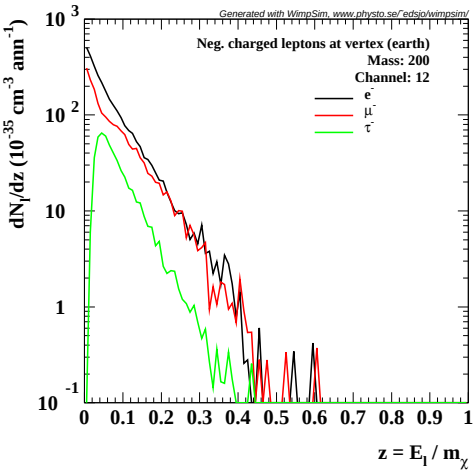


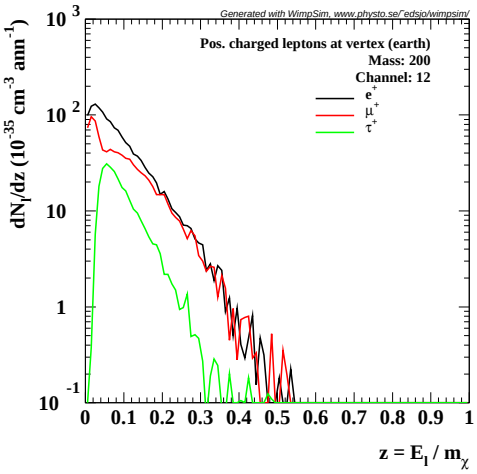
9.7.4 Neutrino fluxes at detector (Earth)



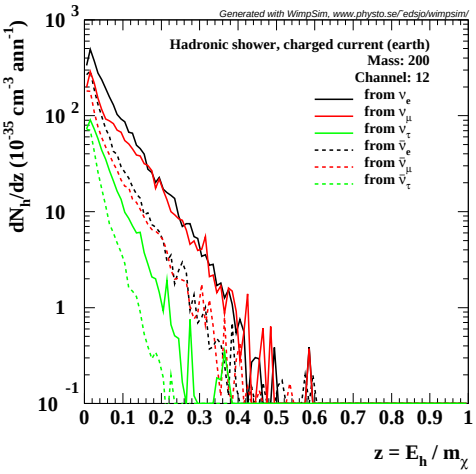


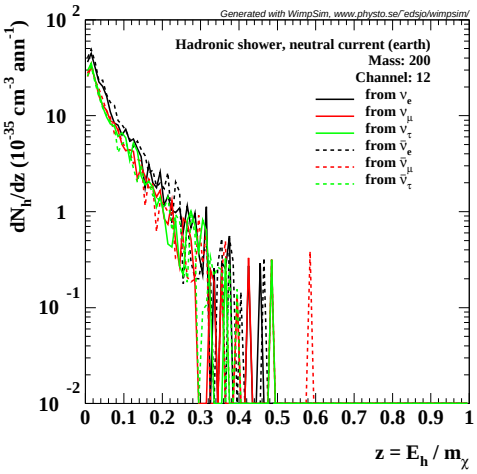
9.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



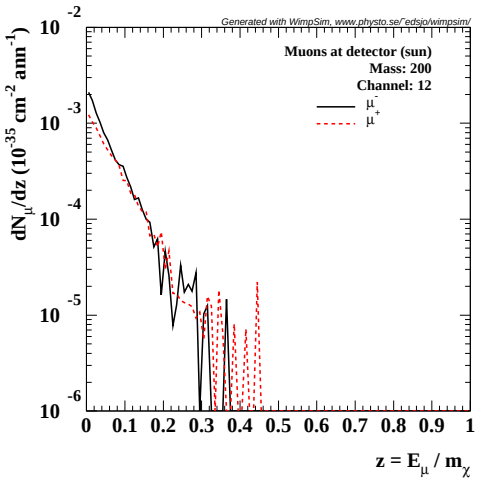


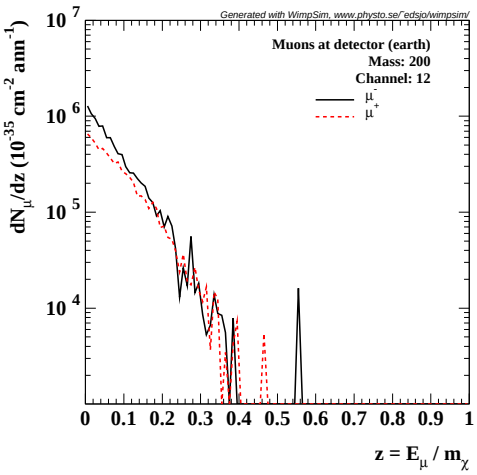
9.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





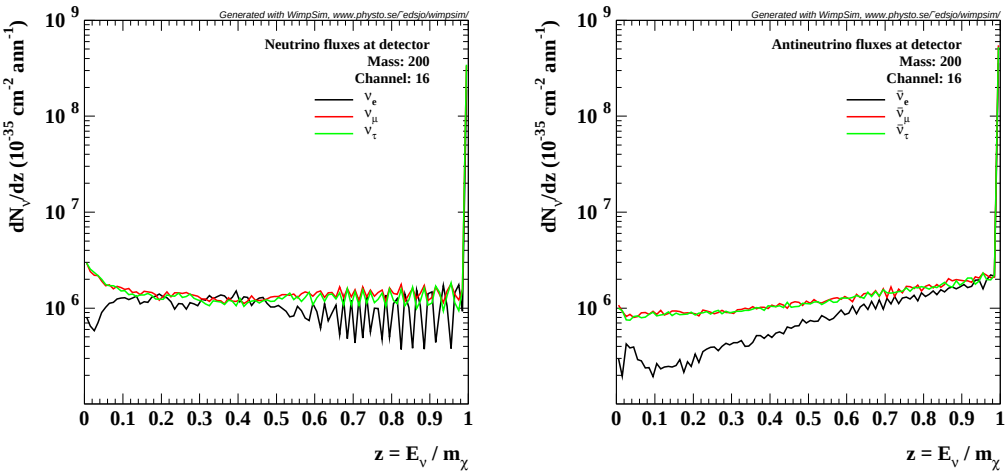
9.7.7 Muons at detector (Sun/Earth)



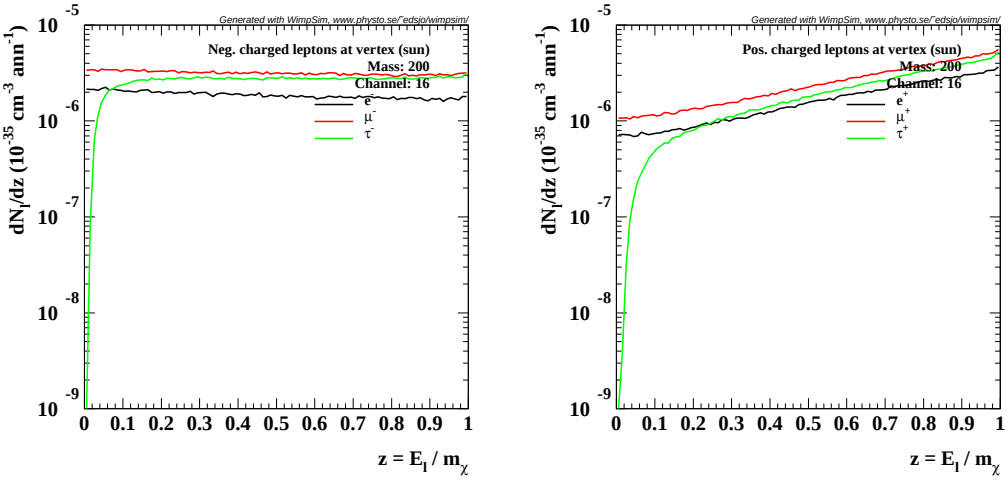


9.8 Channel 16 – $\nu_e\bar{\nu}_e$

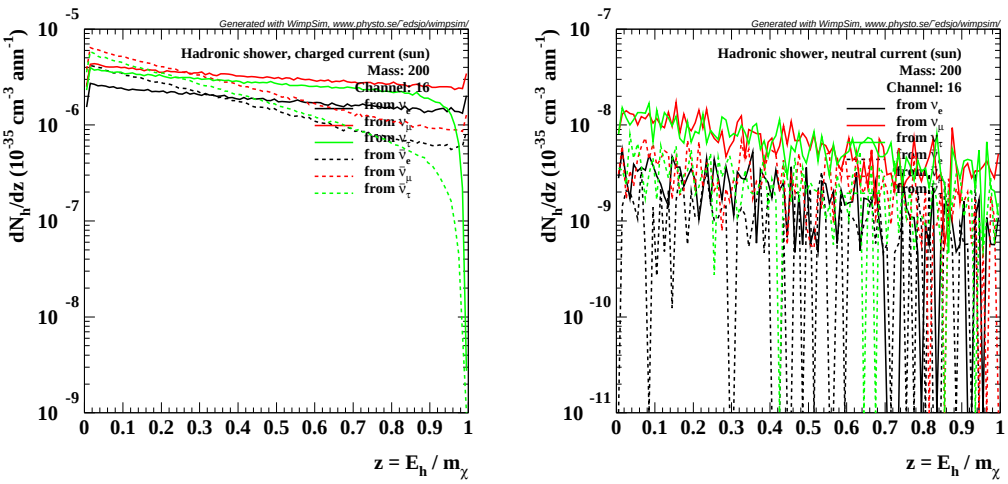
9.8.1 Neutrino fluxes at detector (Sun)



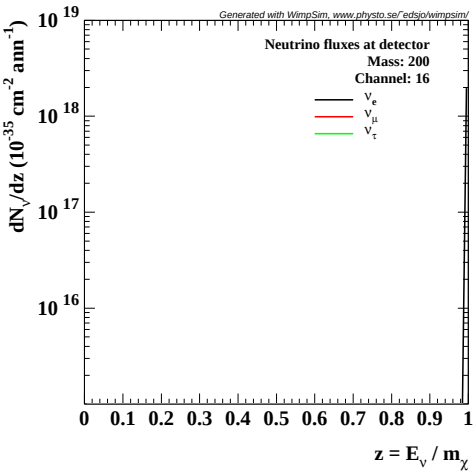
9.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

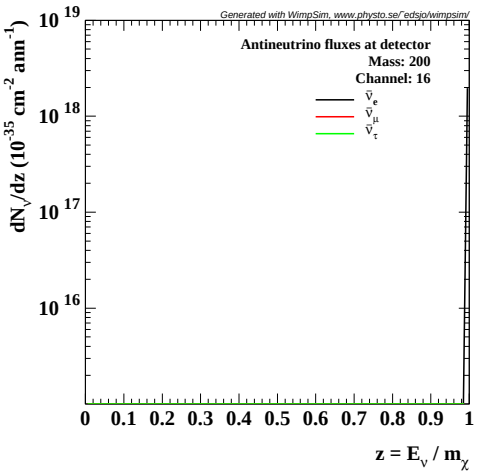


9.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

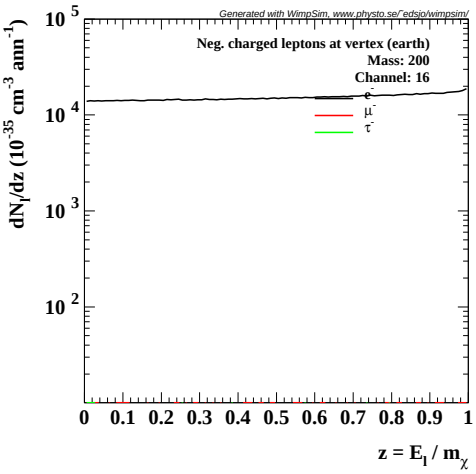


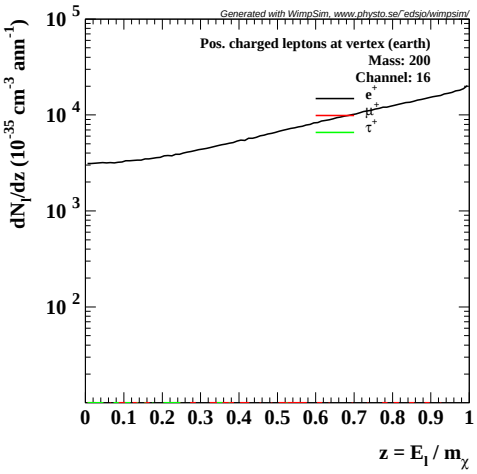
9.8.4 Neutrino fluxes at detector (Earth)



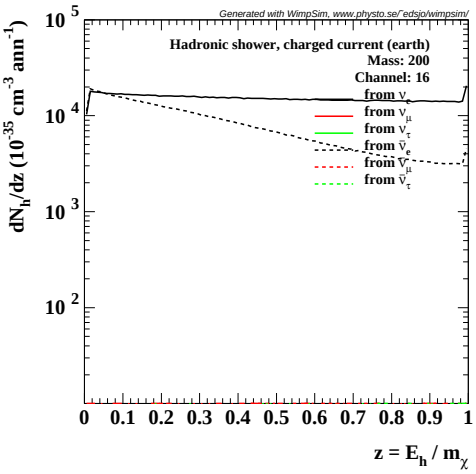


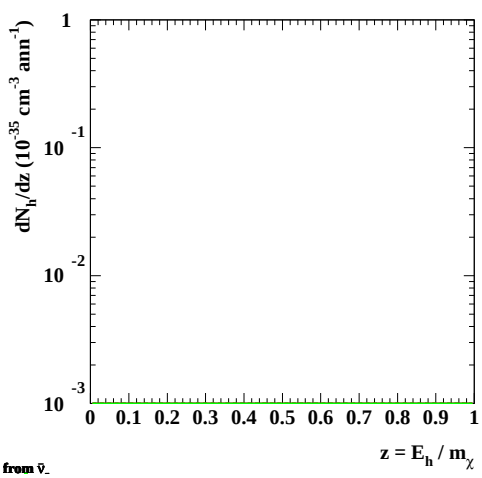
9.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





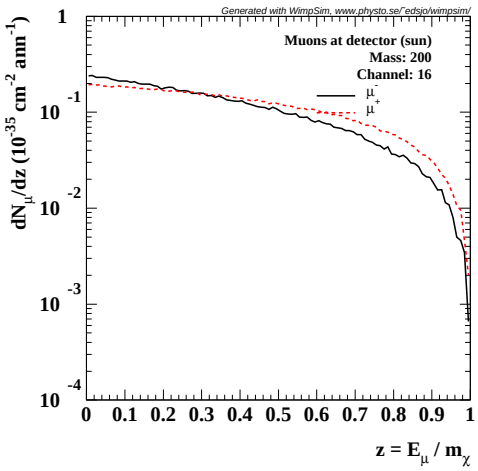
9.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

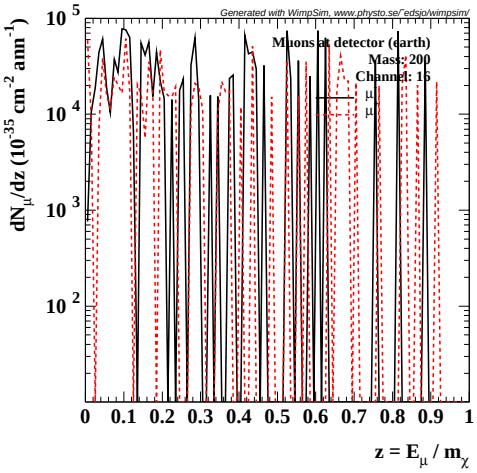




from $\bar{\nu}_\tau$

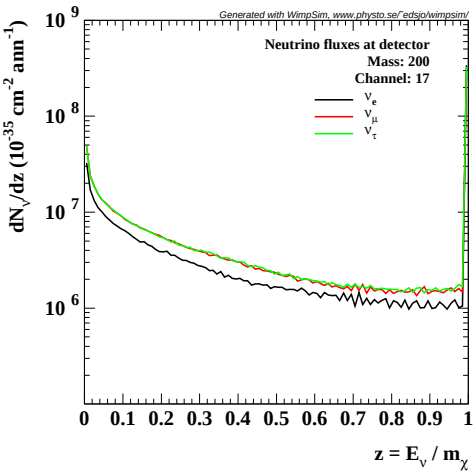
9.8.7 Muons at detector (Sun/Earth)

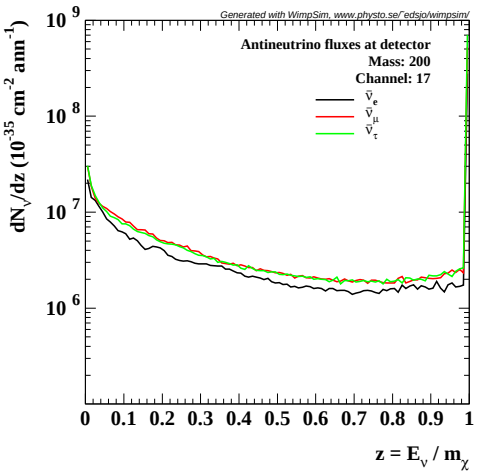




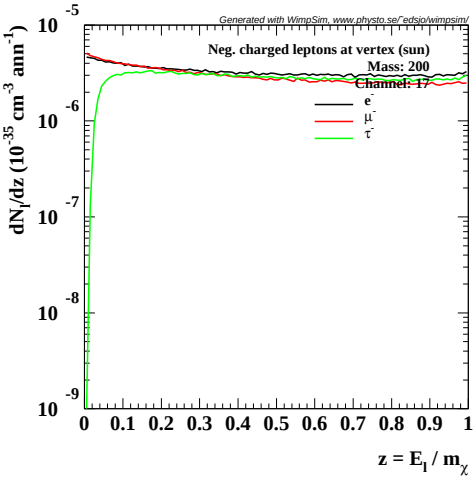
9.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

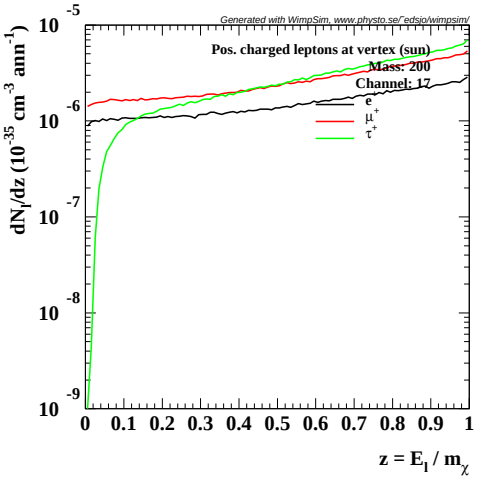
9.9.1 Neutrino fluxes at detector (Sun)



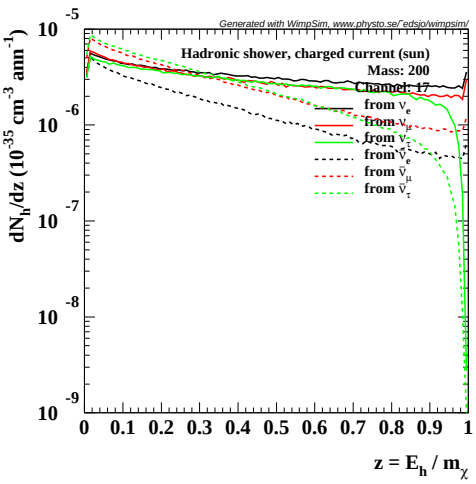


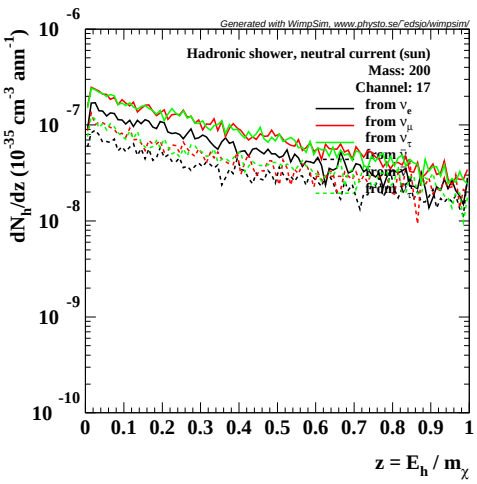
9.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



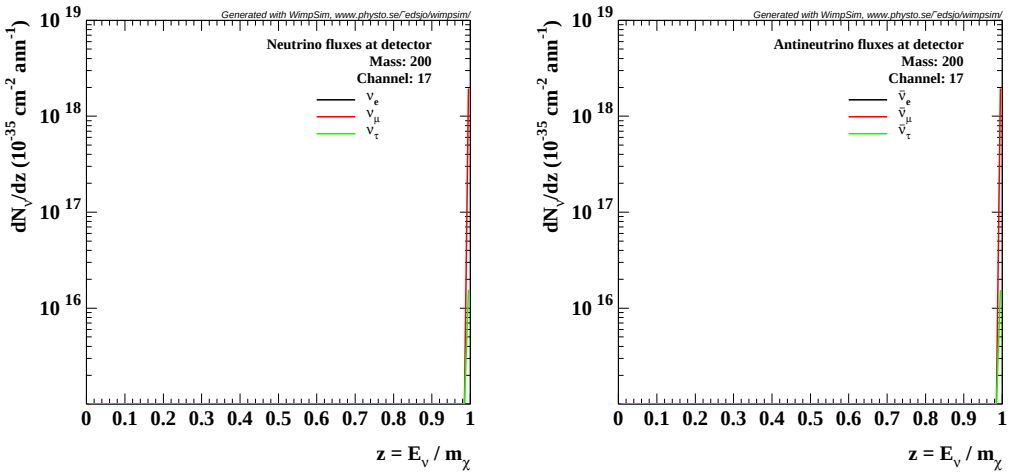


9.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)

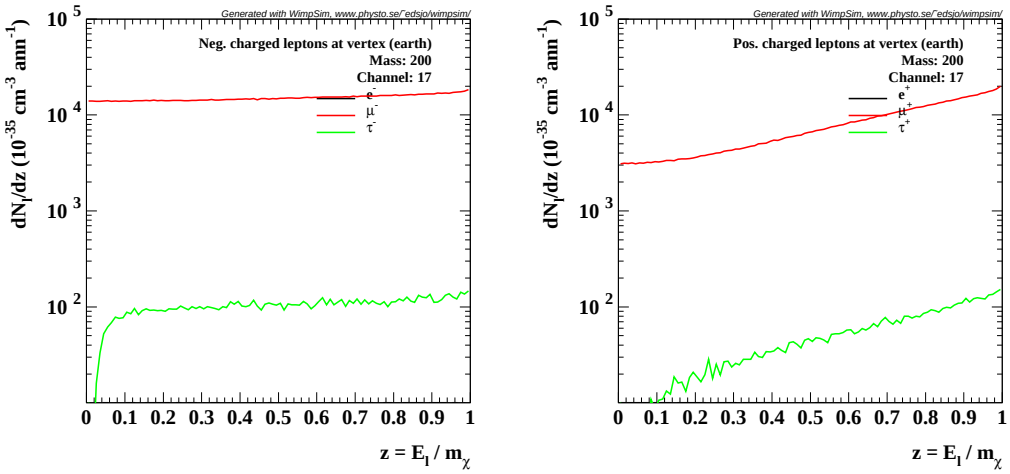




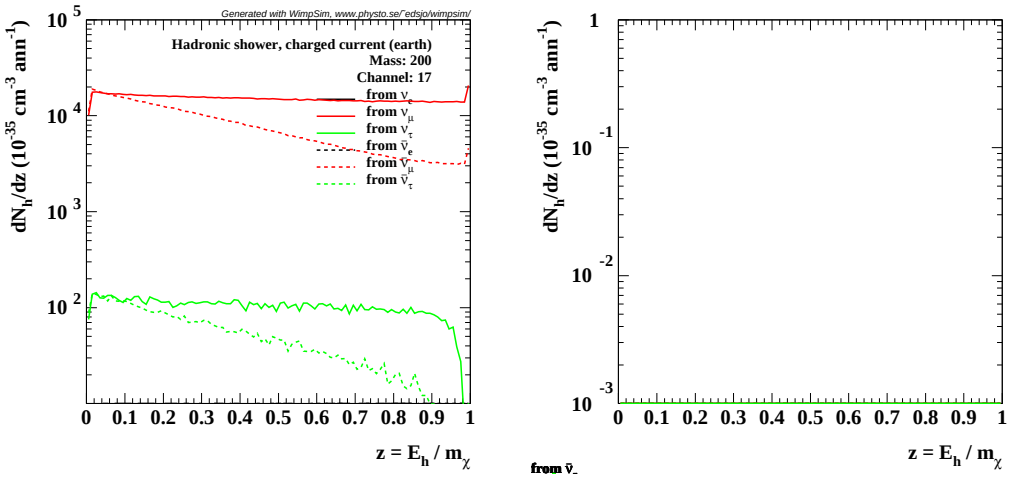
9.9.4 Neutrino fluxes at detector (Earth)



9.9.5 Charged leptons at neutrino-nucleon vertex (Earth)

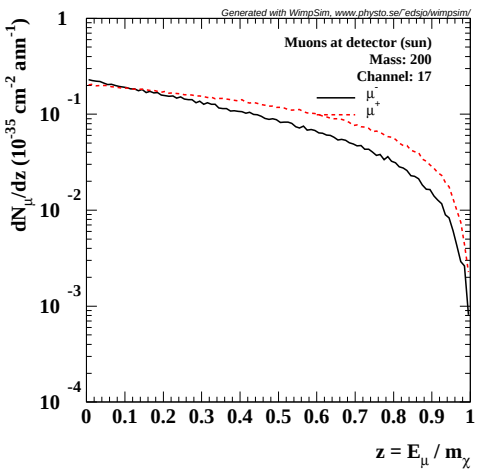


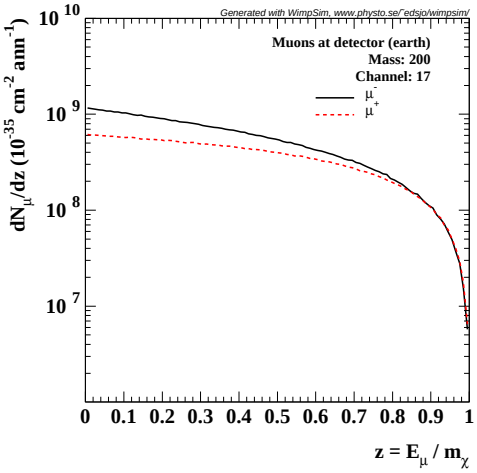
9.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

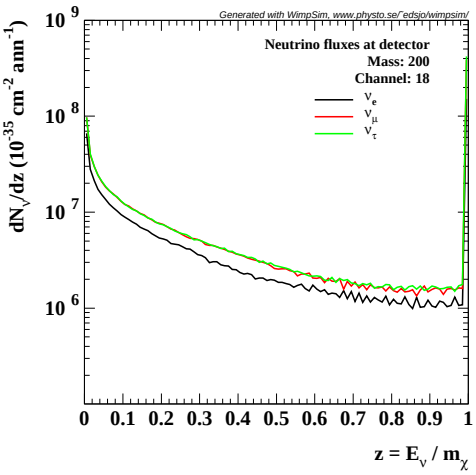
9.9.7 Muons at detector (Sun/Earth)

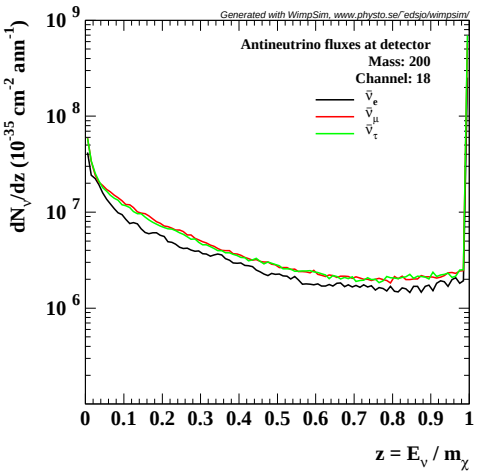




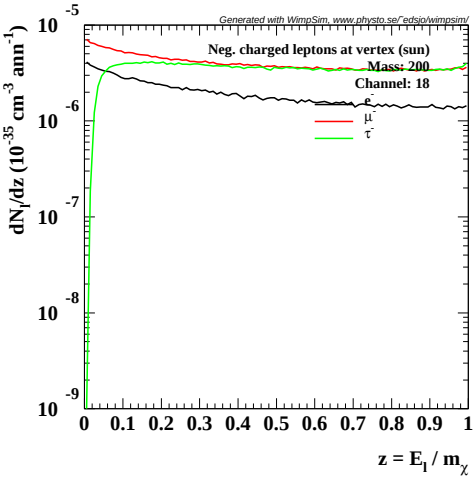
9.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

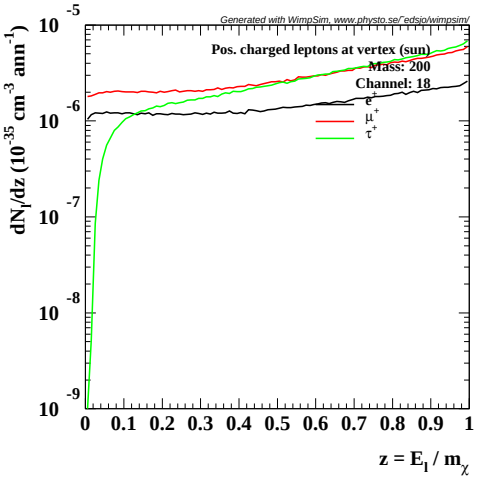
9.10.1 Neutrino fluxes at detector (Sun)



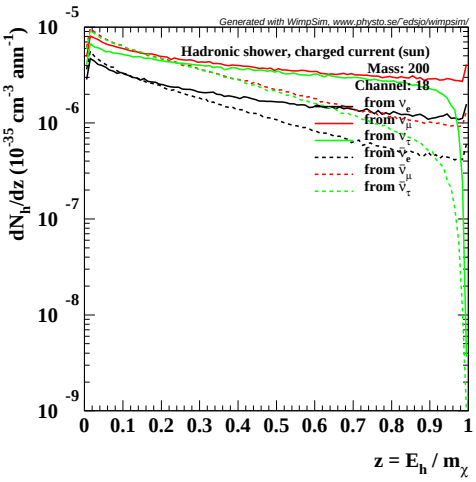


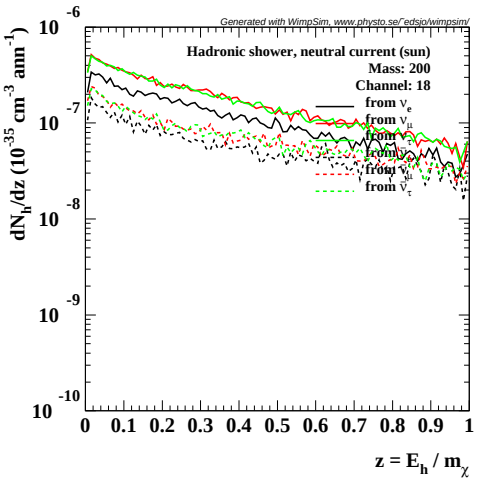
9.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



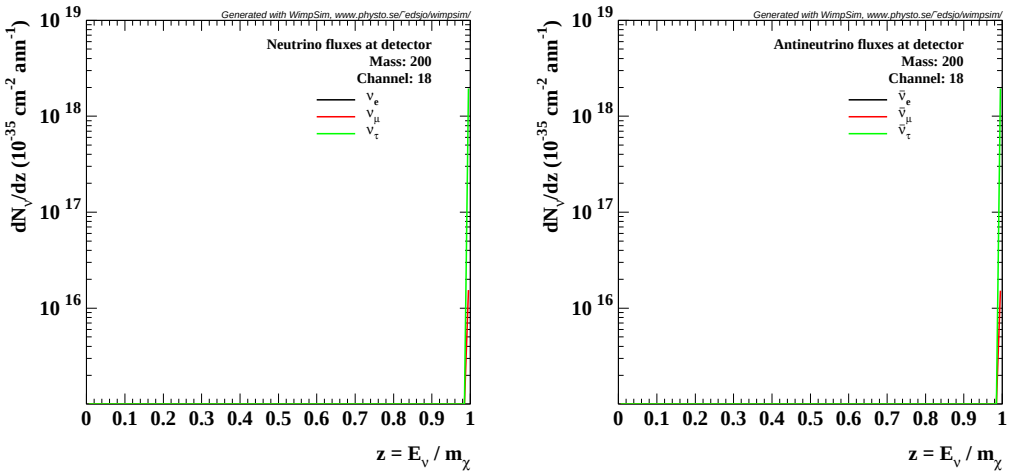


9.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)

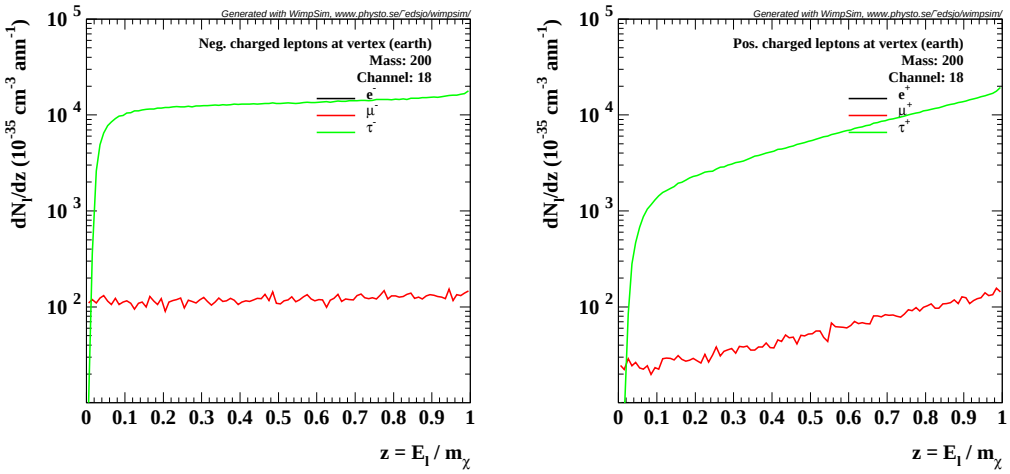




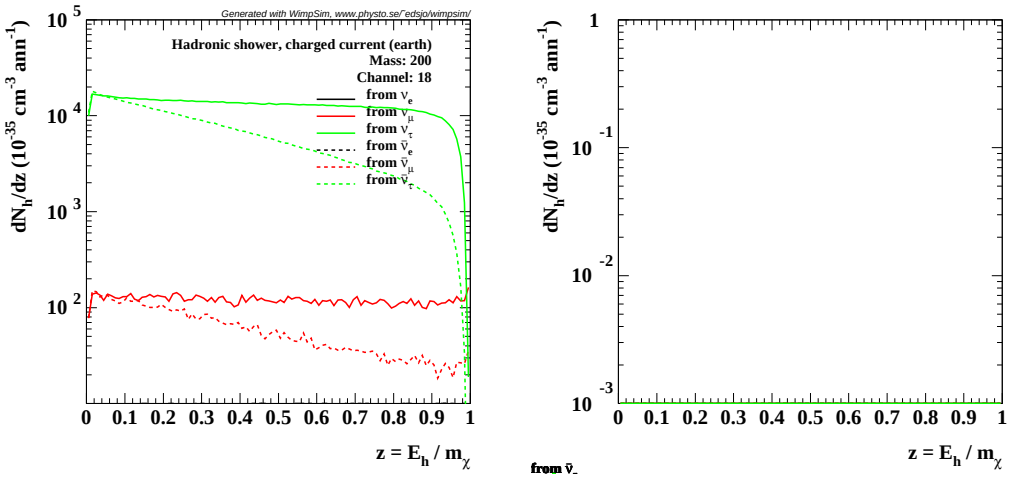
9.10.4 Neutrino fluxes at detector (Earth)



9.10.5 Charged leptons at neutrino-nucleon vertex (Earth)

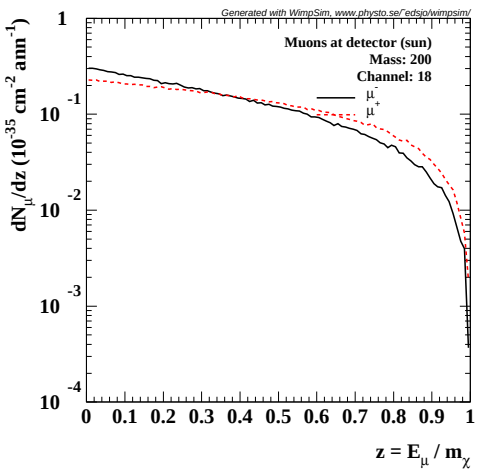


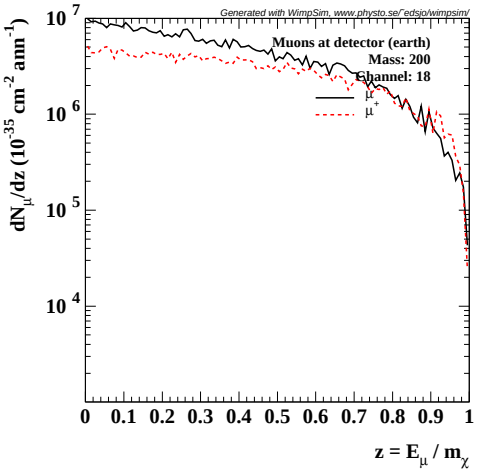
9.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)



from $\bar{\nu}_\tau$

9.10.7 Muons at detector (Sun/Earth)

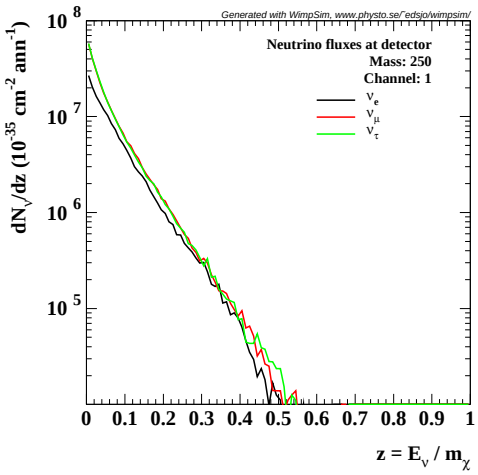


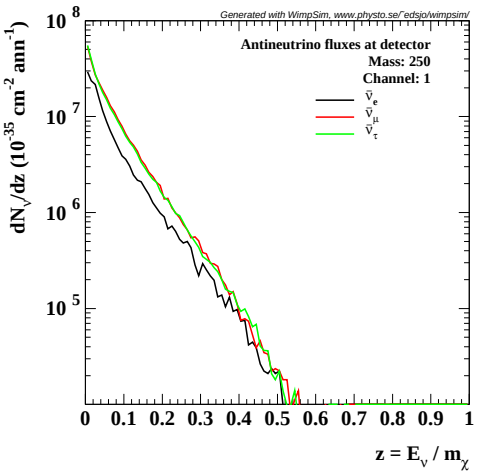


10 Mass 250

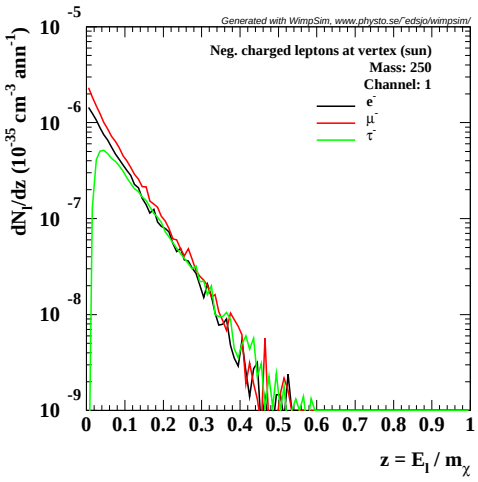
10.1 Channel 1 – $c\bar{c}$

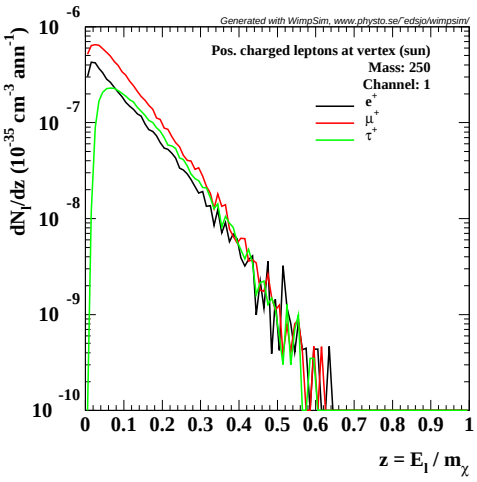
10.1.1 Neutrino fluxes at detector (Sun)



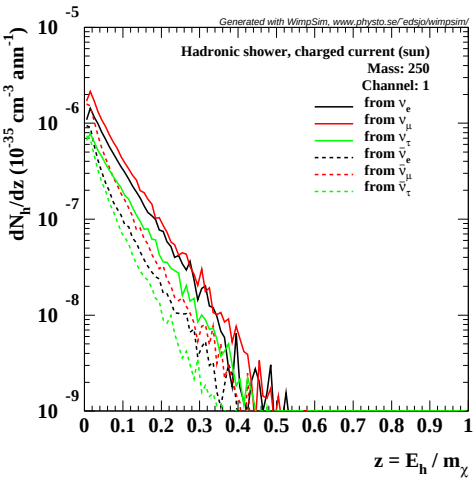


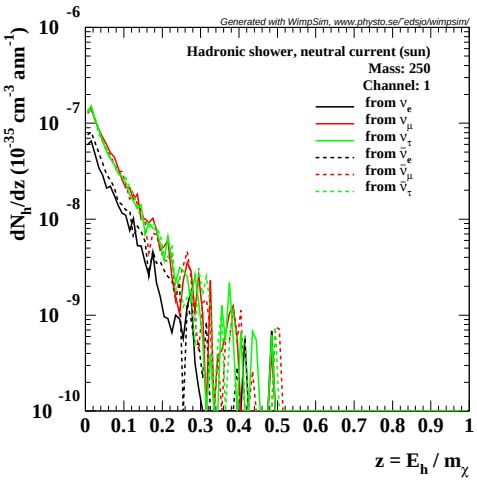
10.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



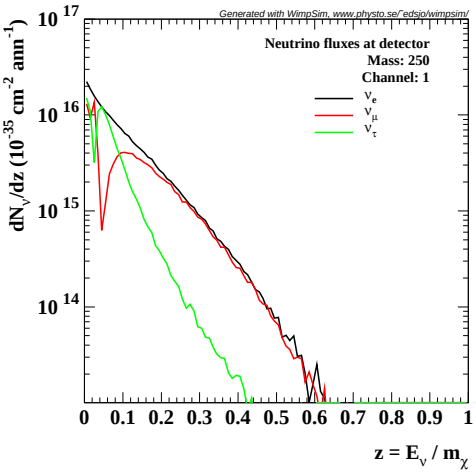


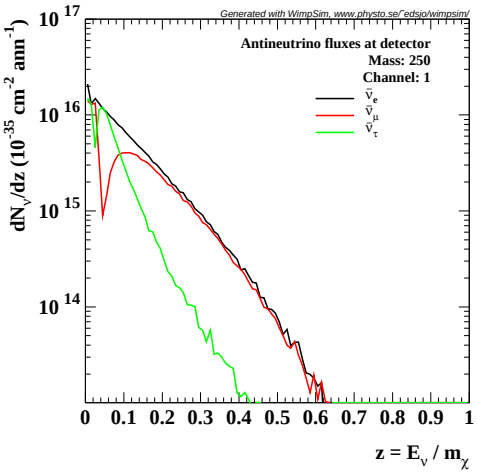
10.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



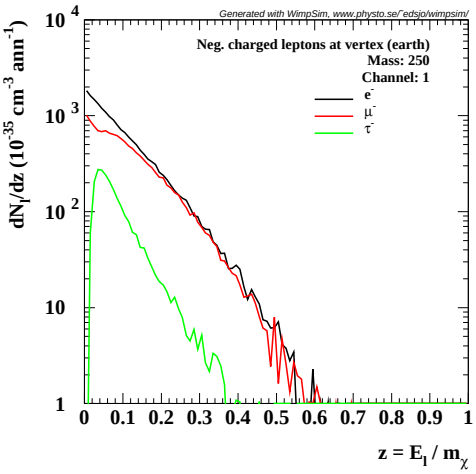


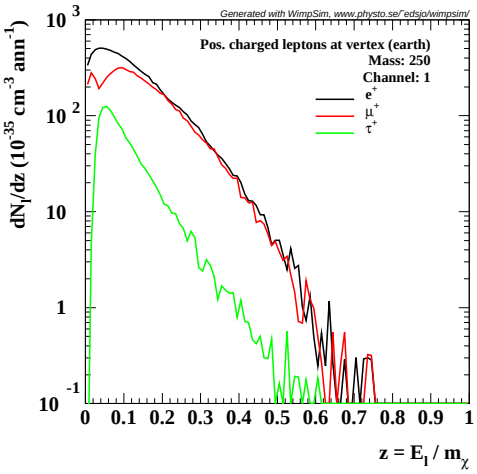
10.1.4 Neutrino fluxes at detector (Earth)



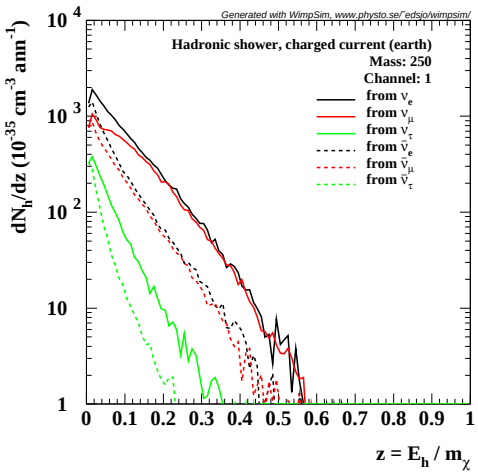


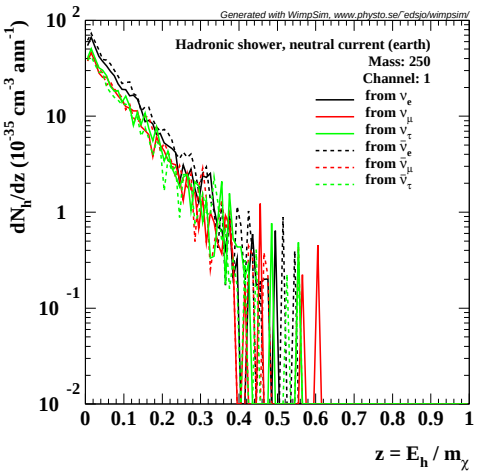
10.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



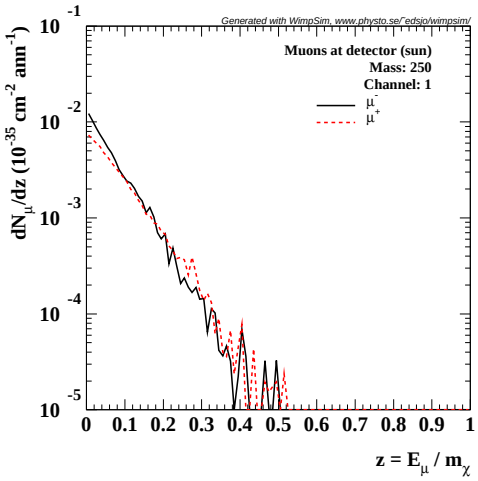


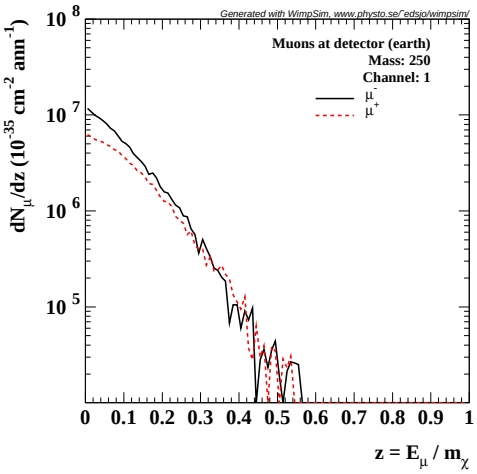
10.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





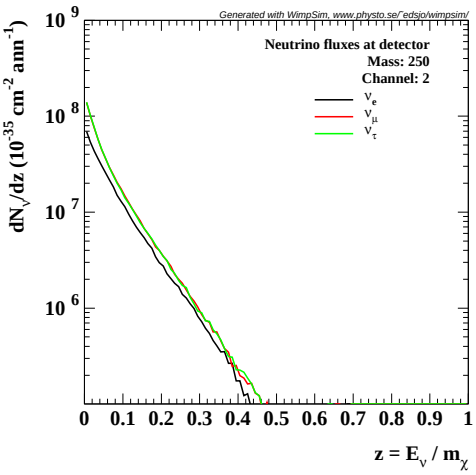
10.1.7 Muons at detector (Sun/Earth)

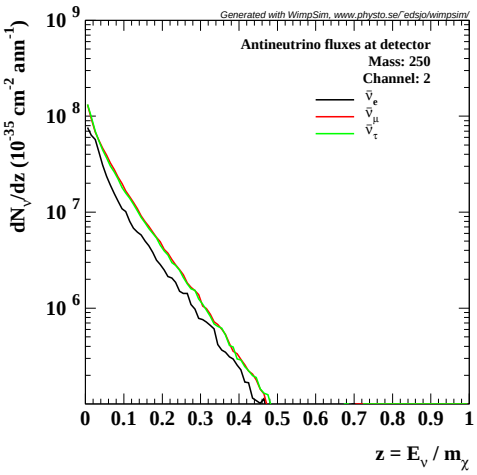




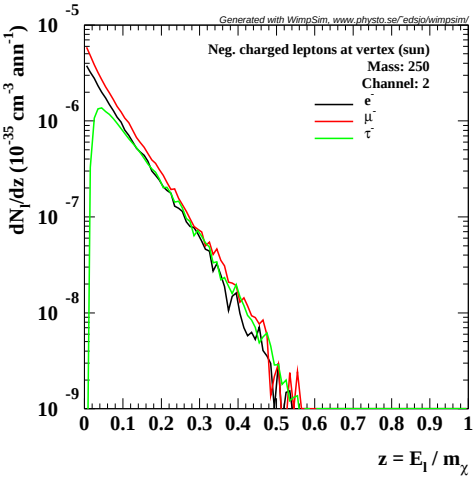
10.2 Channel 2 – $b\bar{b}$

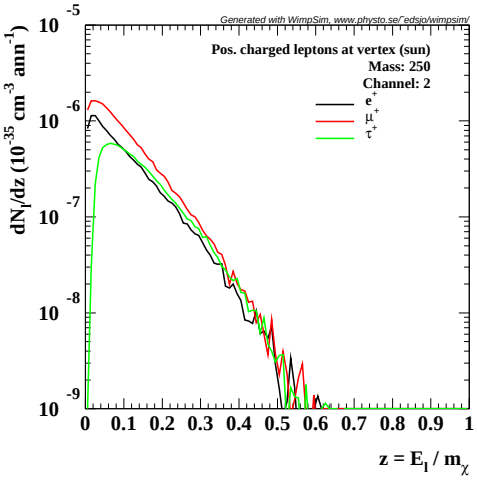
10.2.1 Neutrino fluxes at detector (Sun)



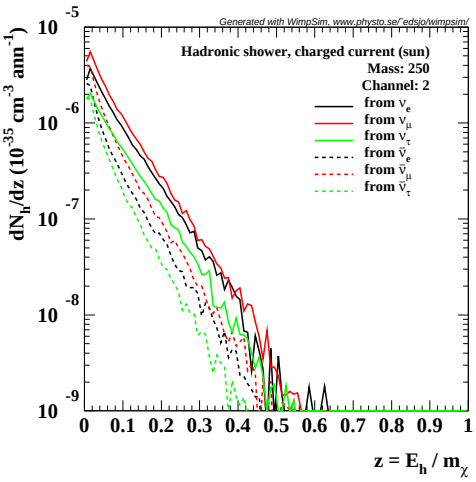


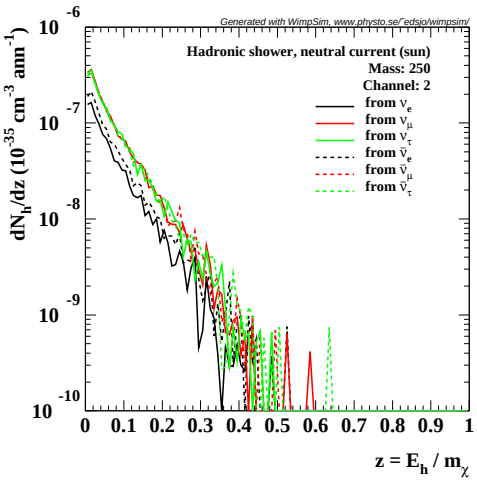
10.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



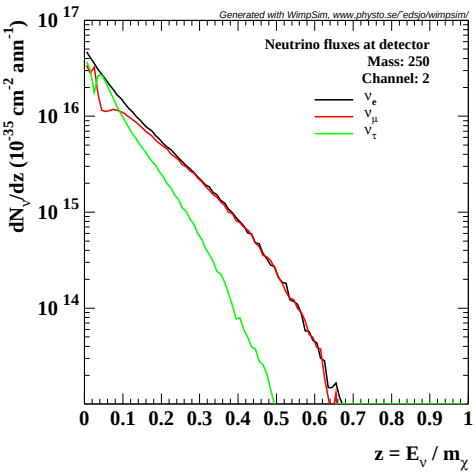


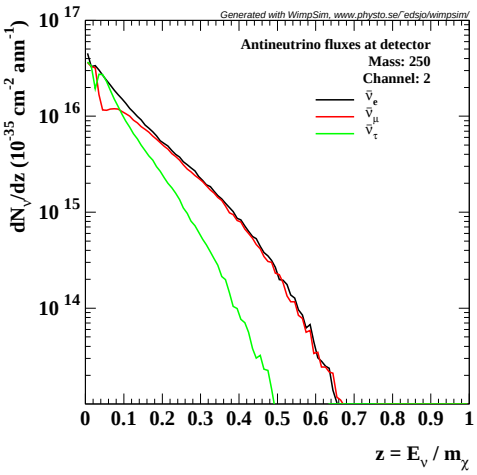
10.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



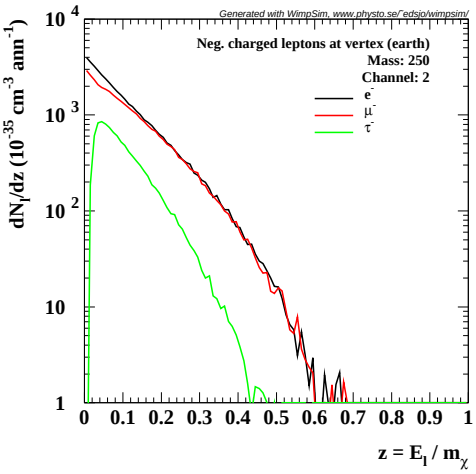


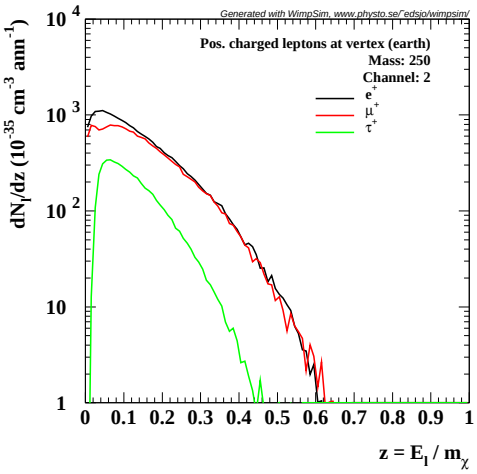
10.2.4 Neutrino fluxes at detector (Earth)



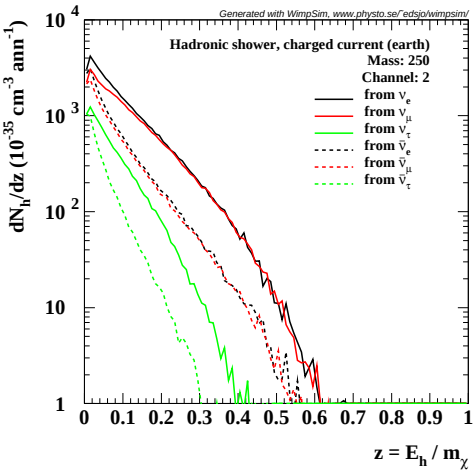


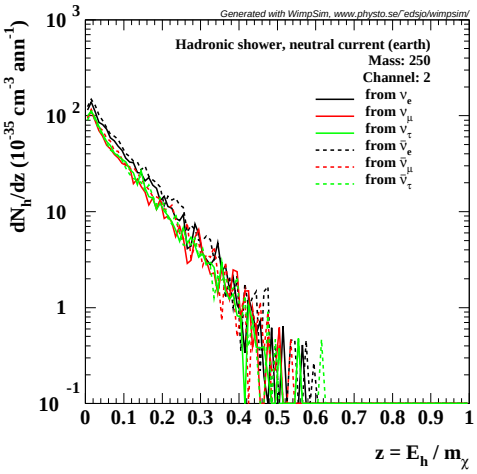
10.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



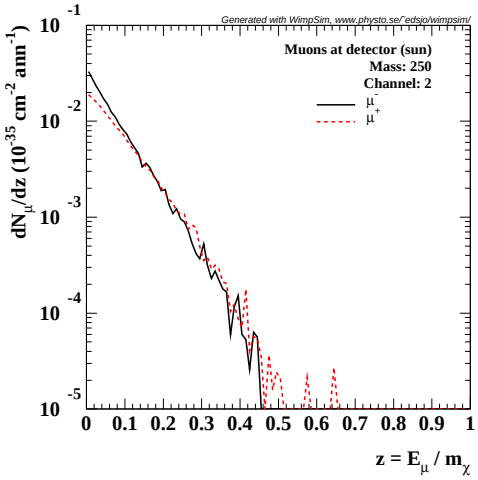


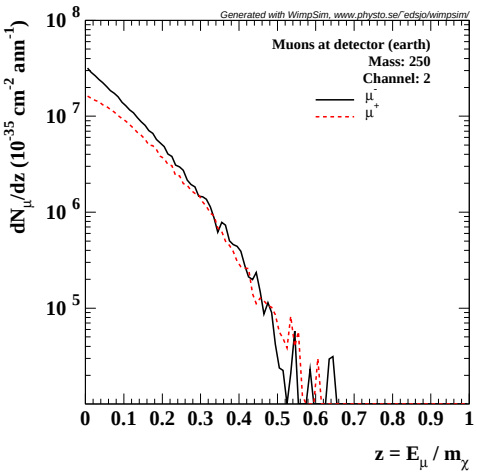
10.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





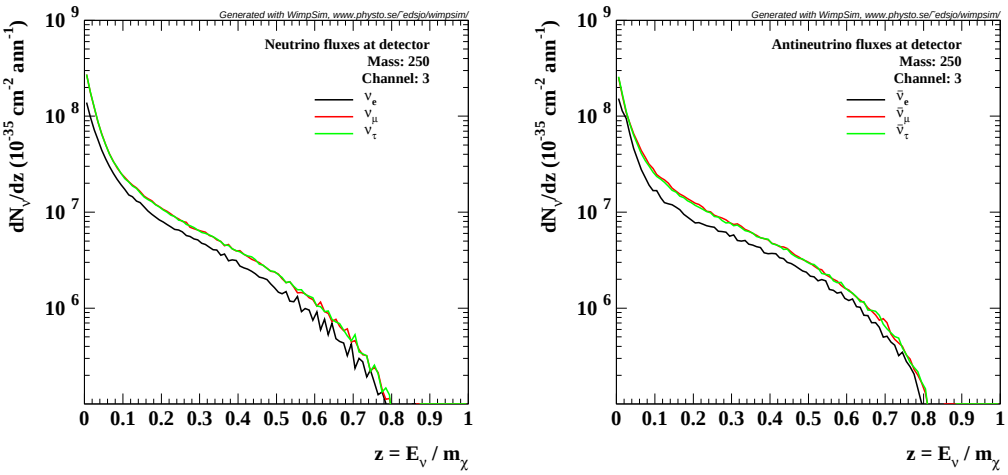
10.2.7 Muons at detector (Sun/Earth)



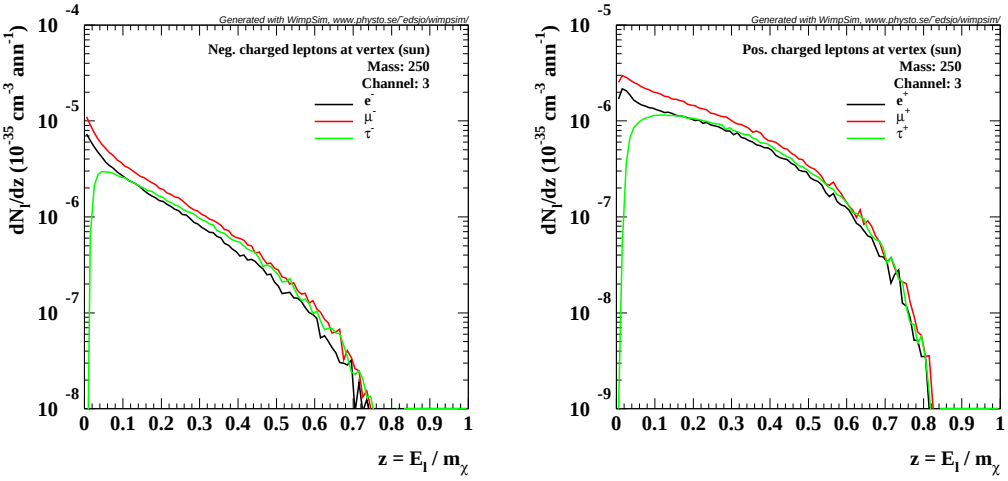


10.3 Channel 3 – $t\bar{t}$

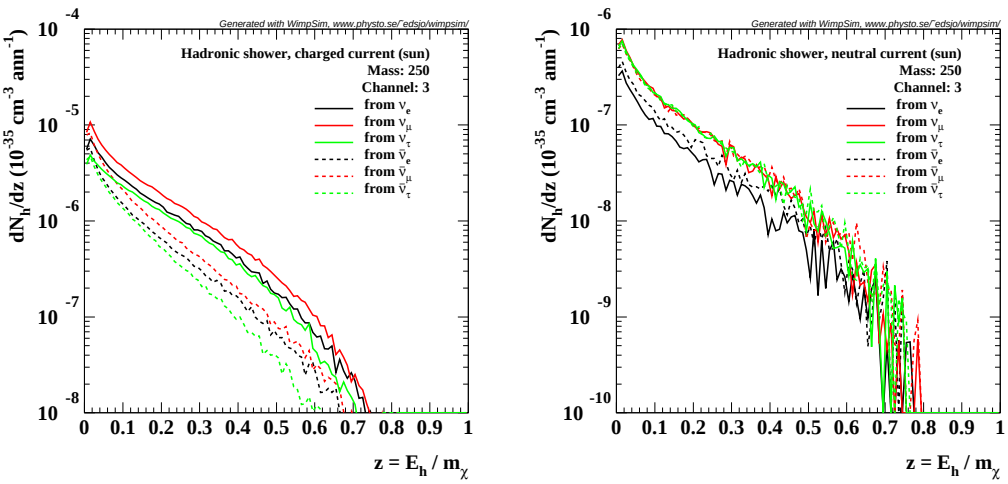
10.3.1 Neutrino fluxes at detector (Sun)



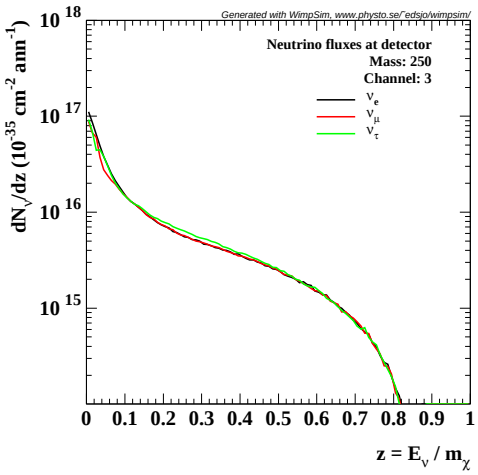
10.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

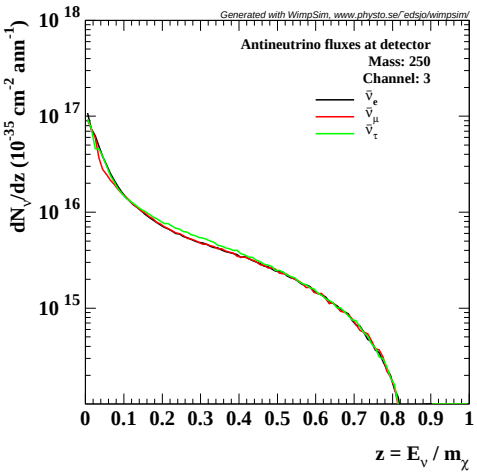


10.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

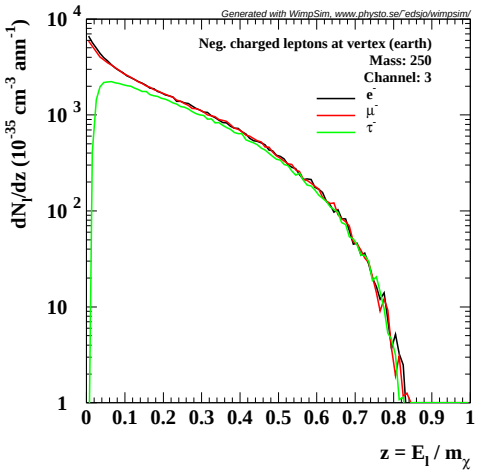


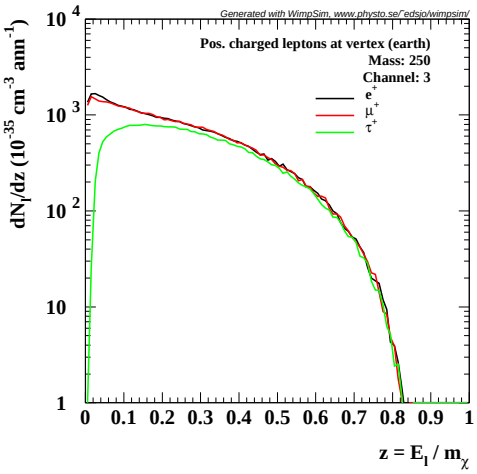
10.3.4 Neutrino fluxes at detector (Earth)



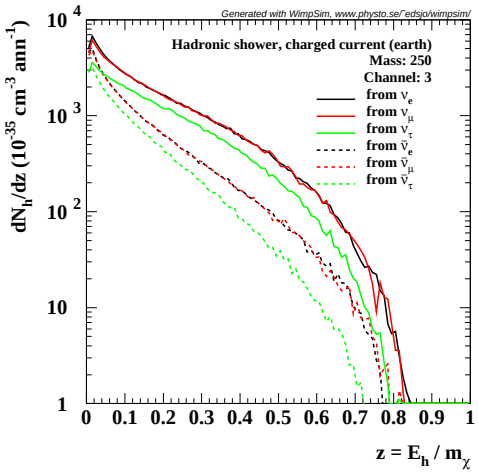


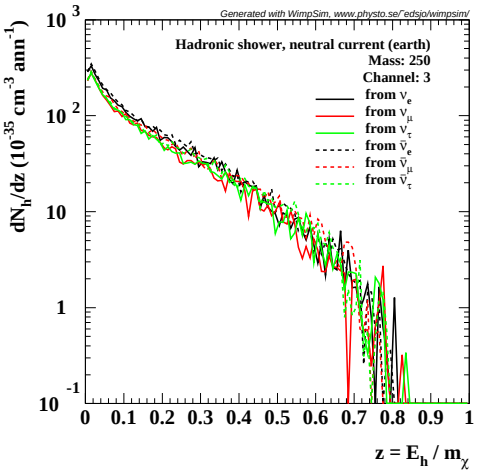
10.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



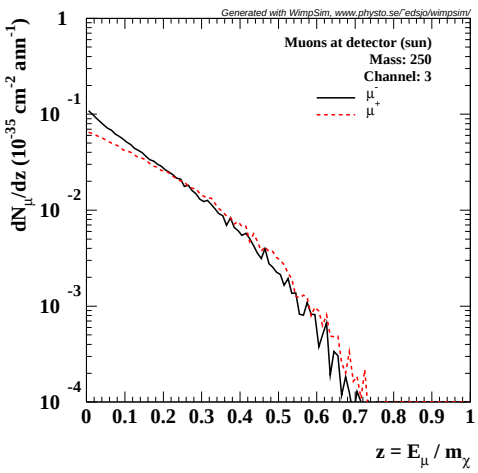


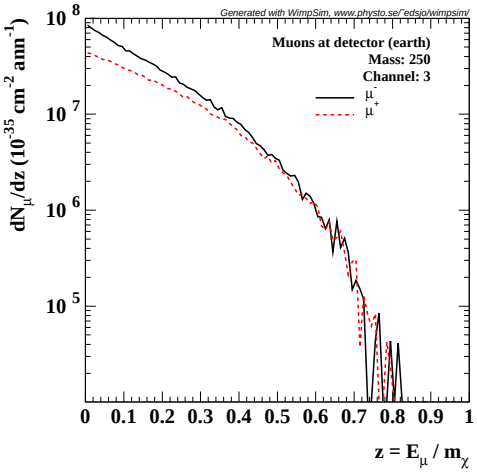
10.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





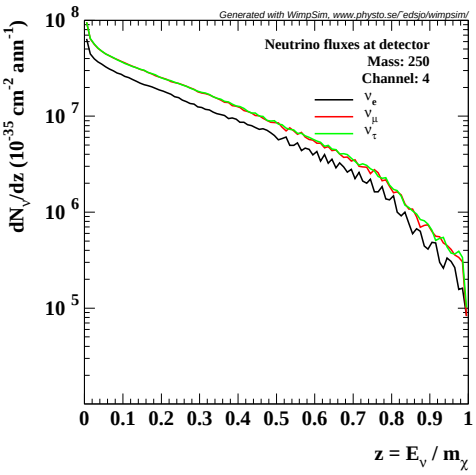
10.3.7 Muons at detector (Sun/Earth)

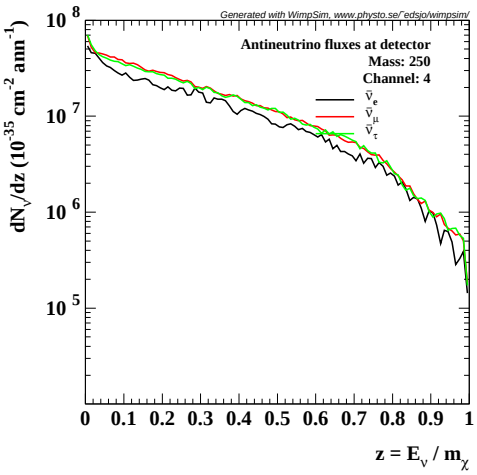




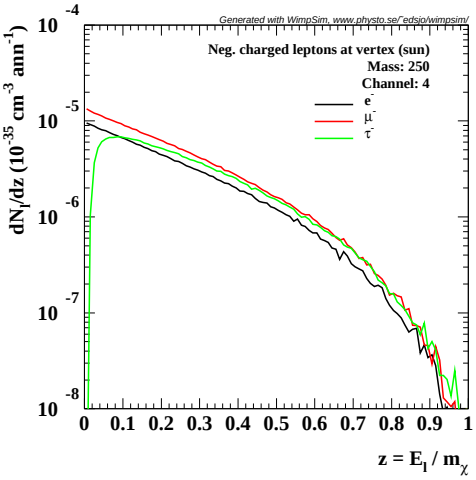
10.4 Channel 4 – $\tau^-\tau^+$

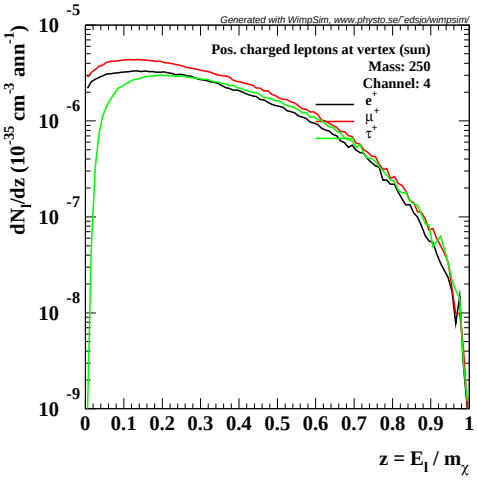
10.4.1 Neutrino fluxes at detector (Sun)



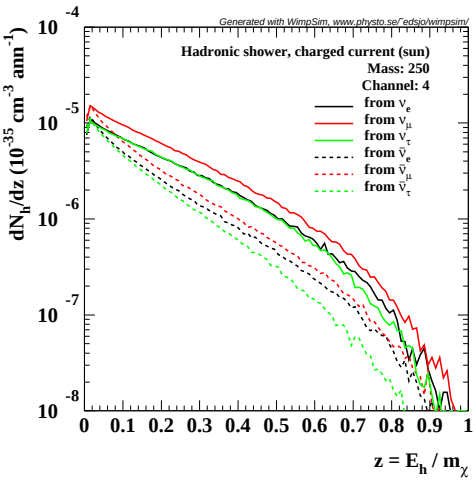


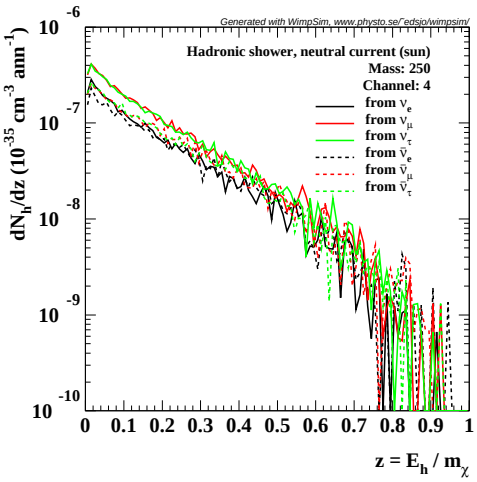
10.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



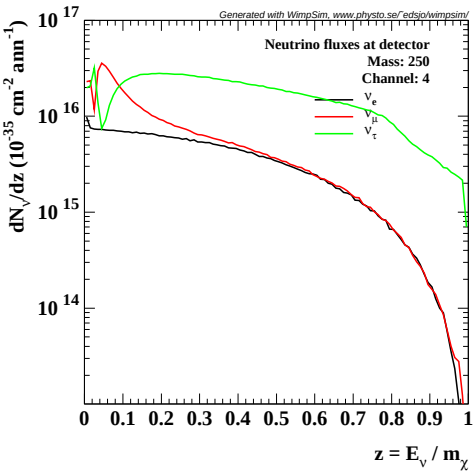


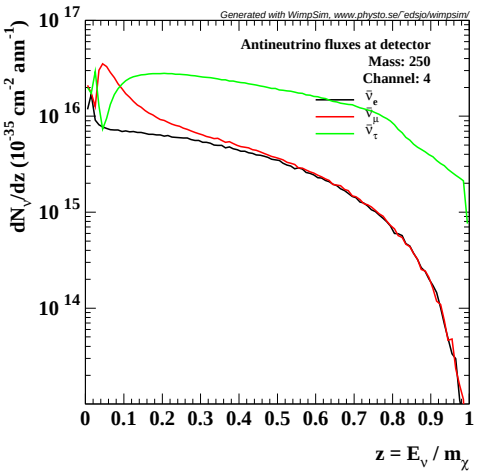
10.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



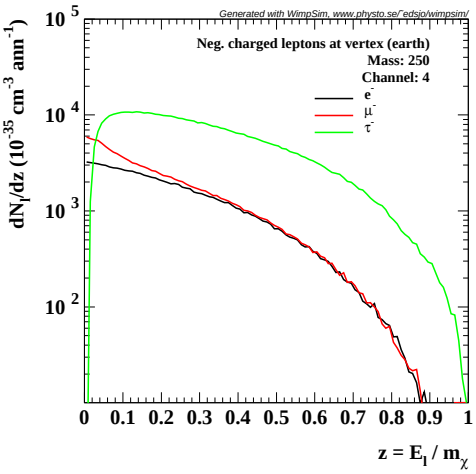


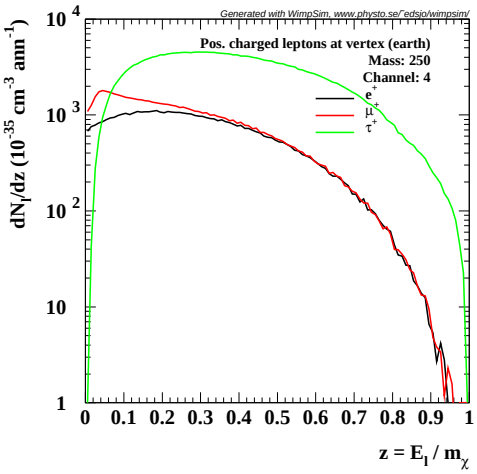
10.4.4 Neutrino fluxes at detector (Earth)



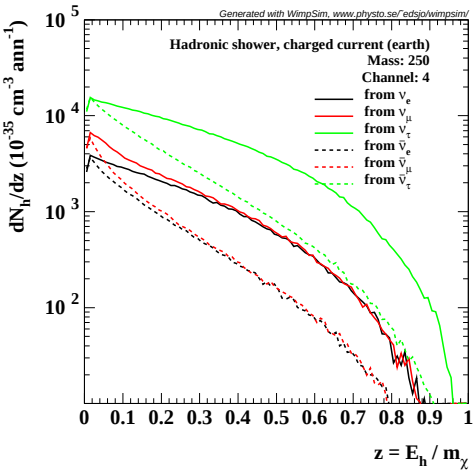


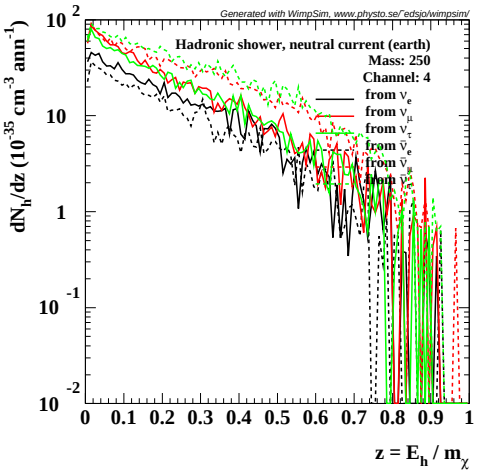
10.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



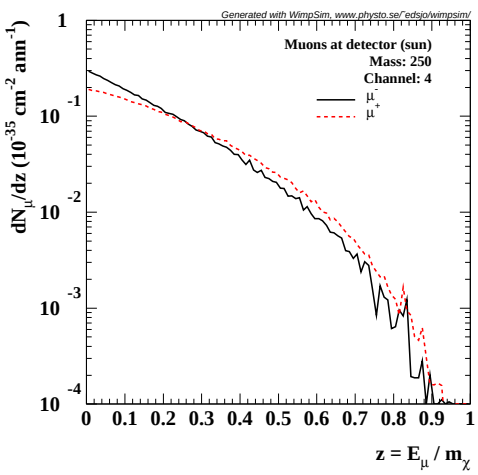


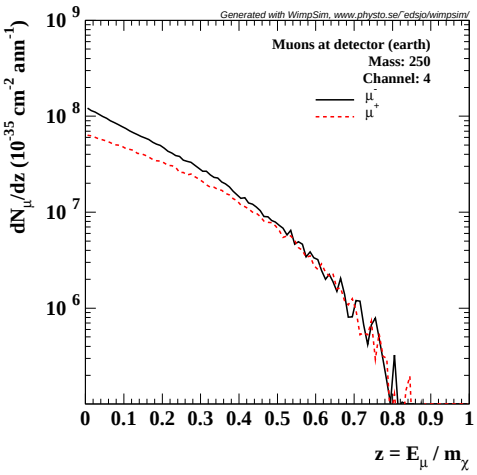
10.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





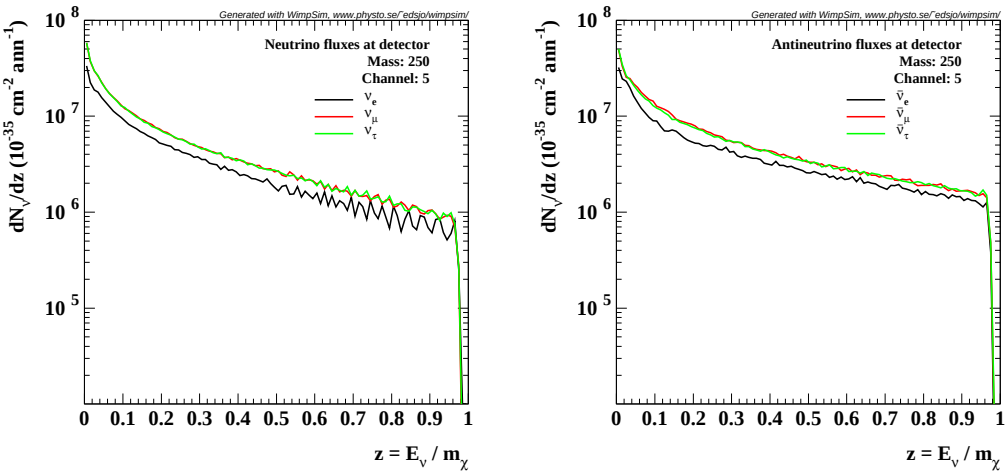
10.4.7 Muons at detector (Sun/Earth)



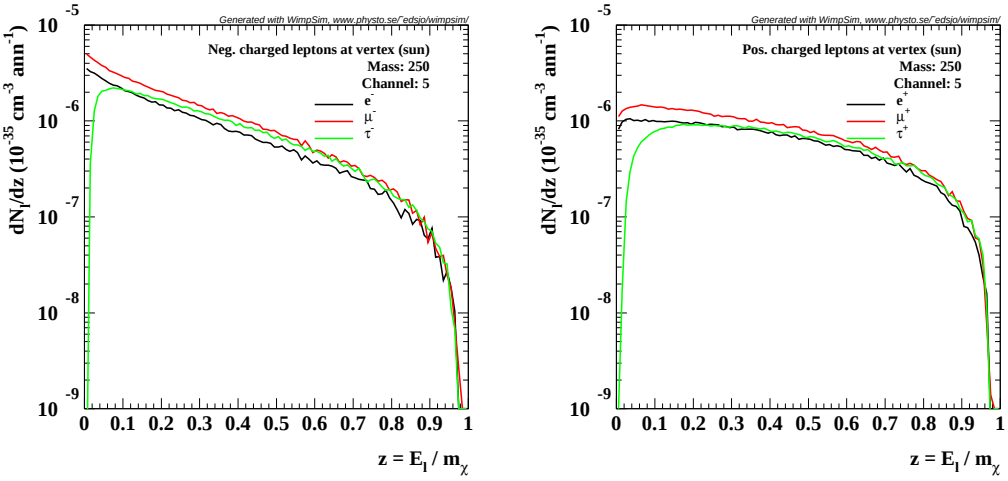


10.5 Channel 5 – W^-W^+

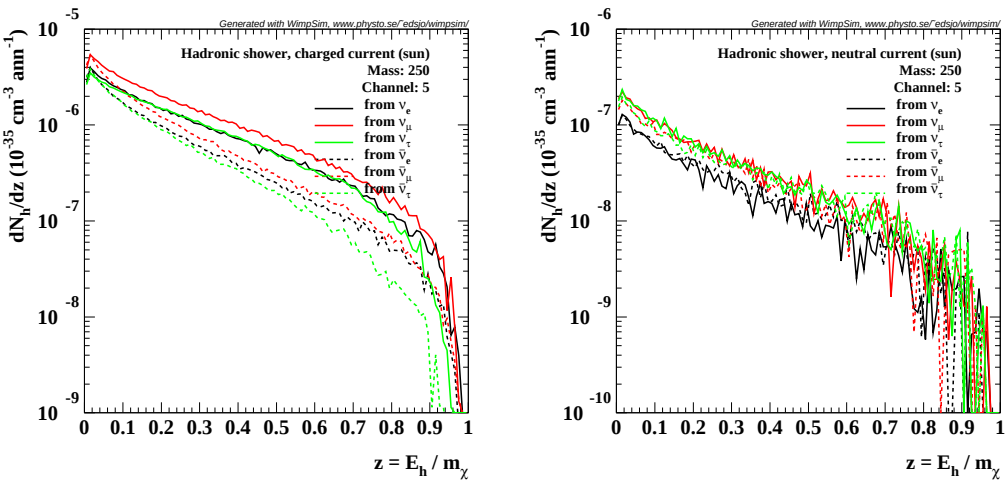
10.5.1 Neutrino fluxes at detector (Sun)



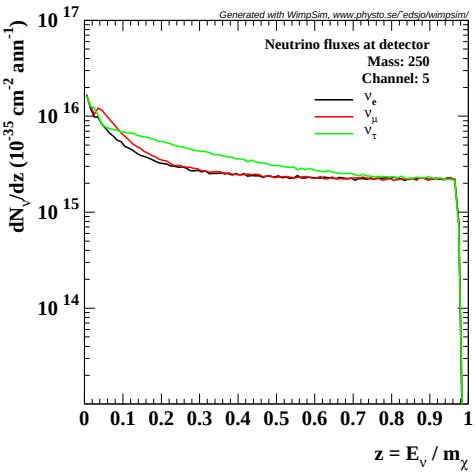
10.5.2 Charged leptons at neutrino-nucleon vertex (Sun)

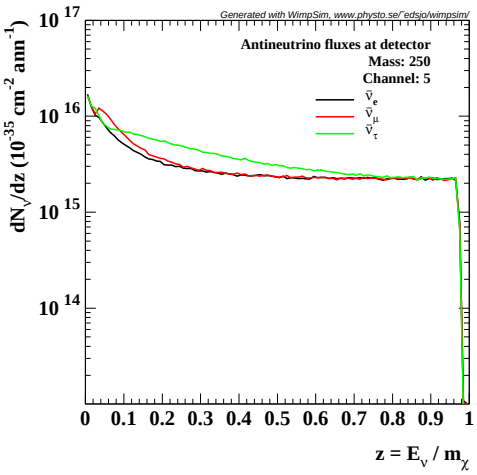


10.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

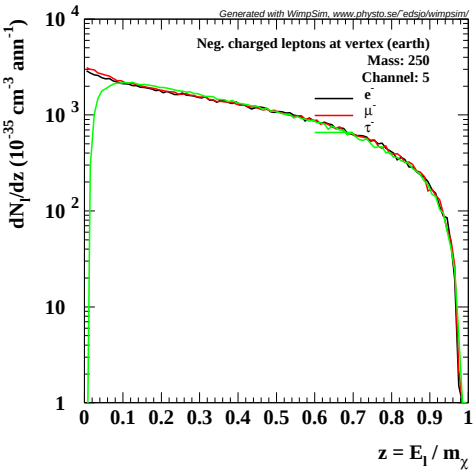


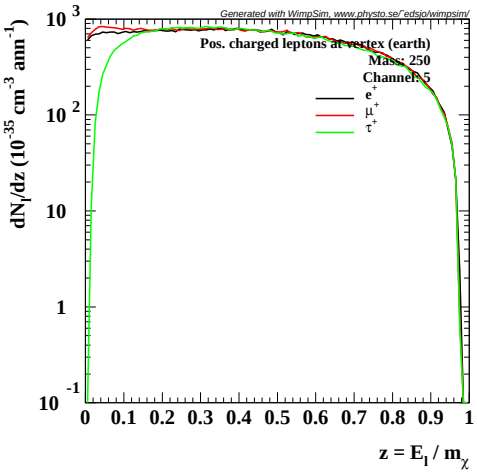
10.5.4 Neutrino fluxes at detector (Earth)



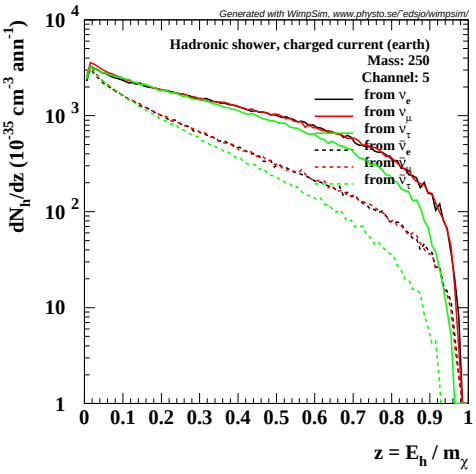


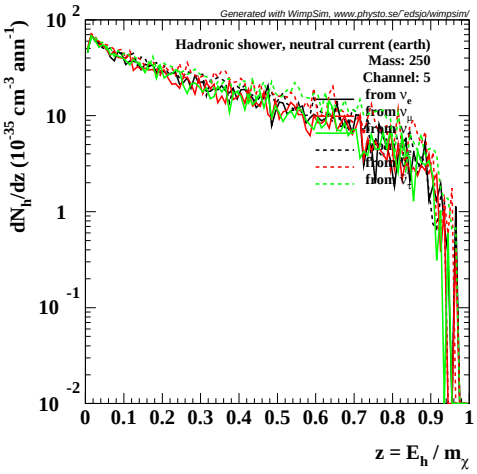
10.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



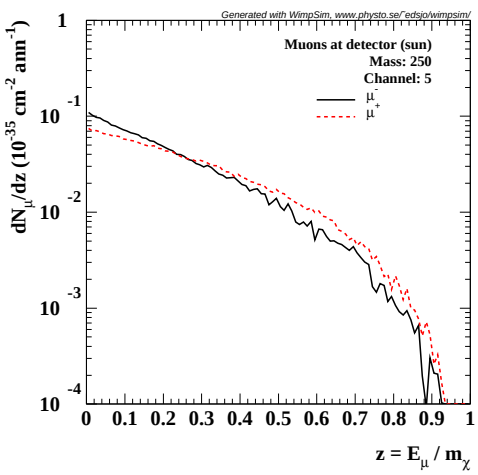


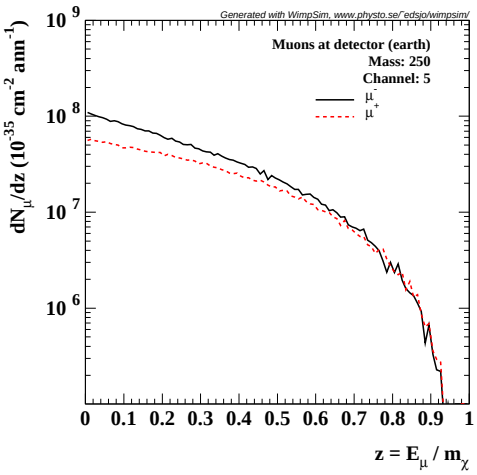
10.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





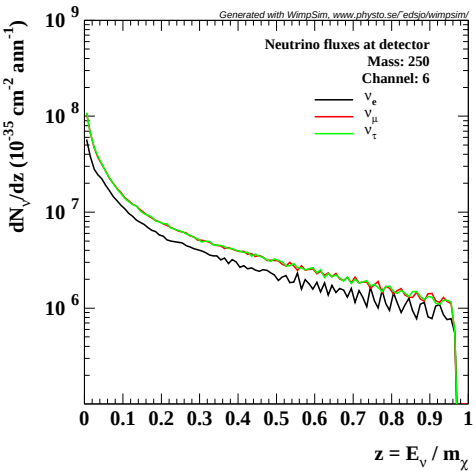
10.5.7 Muons at detector (Sun/Earth)

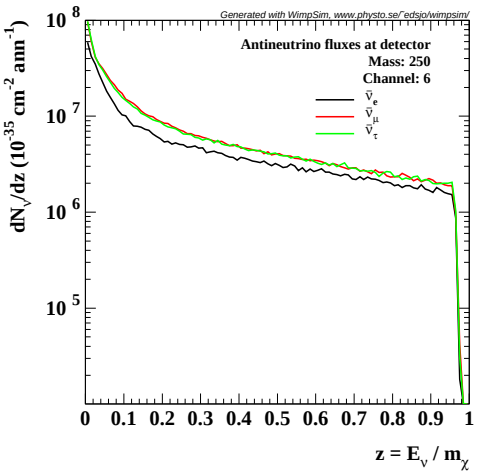




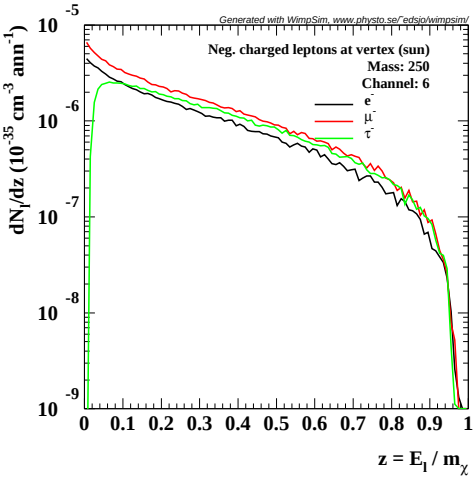
10.6 Channel 6 – $Z^0 Z^0$

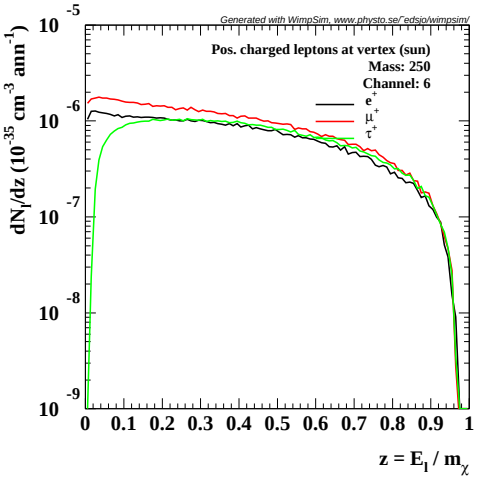
10.6.1 Neutrino fluxes at detector (Sun)



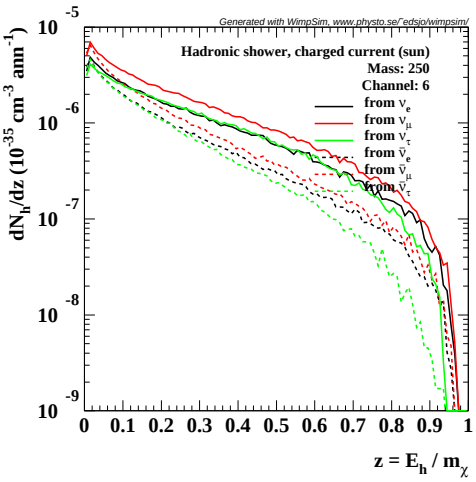


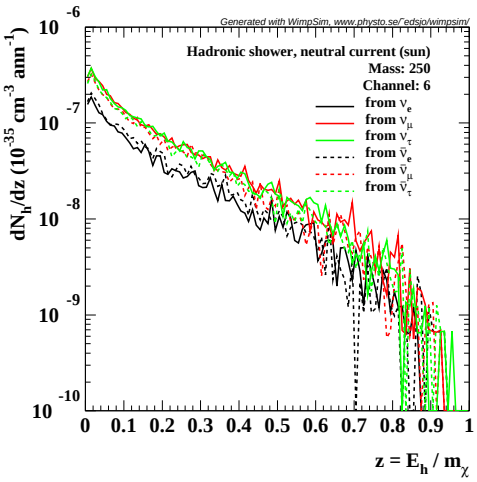
10.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



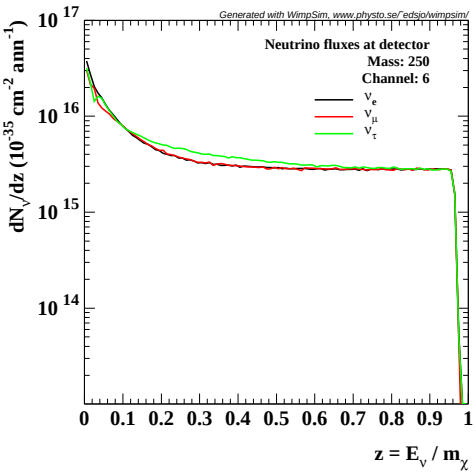


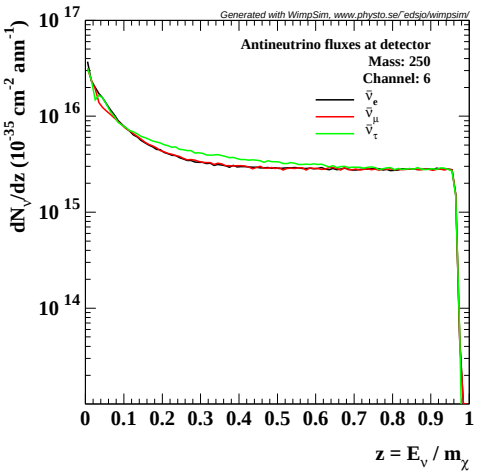
10.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



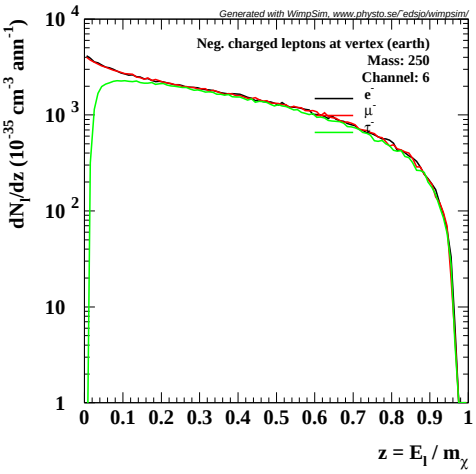


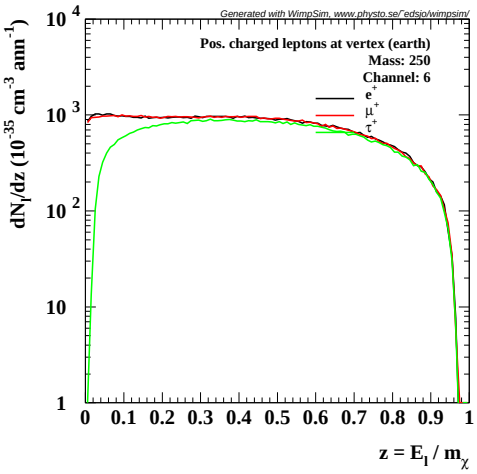
10.6.4 Neutrino fluxes at detector (Earth)



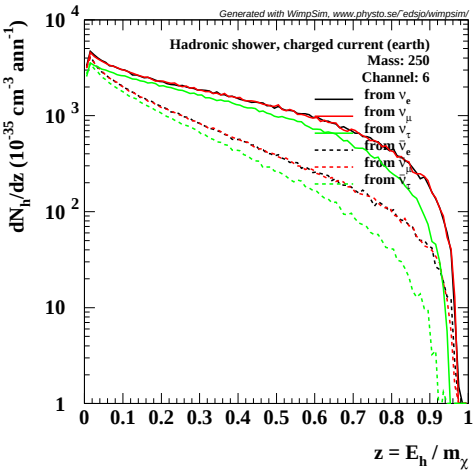


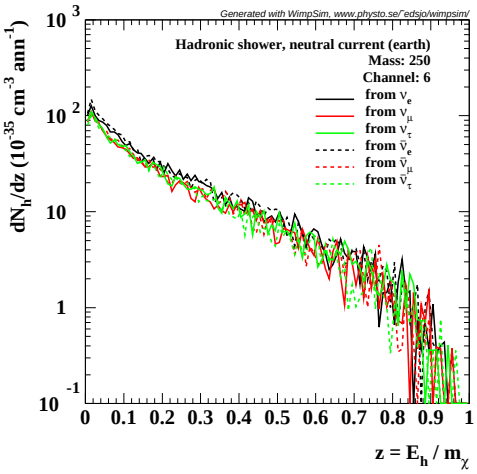
10.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



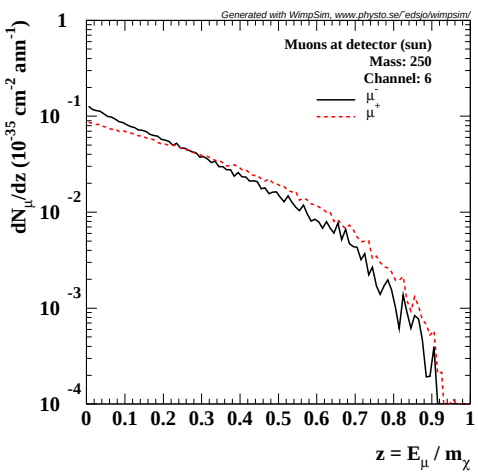


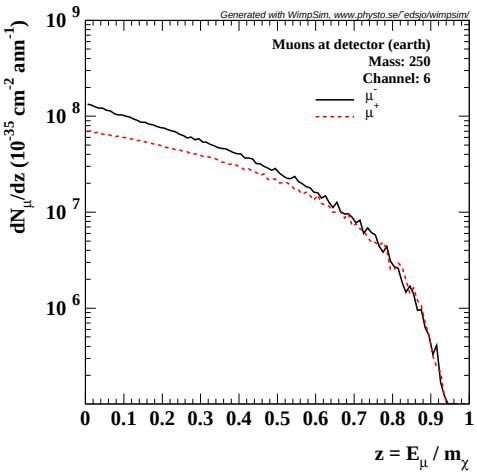
10.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





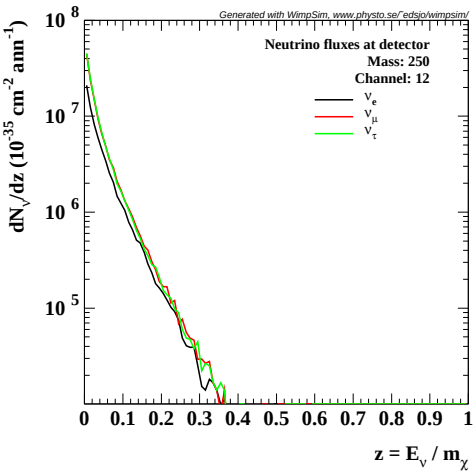
10.6.7 Muons at detector (Sun/Earth)

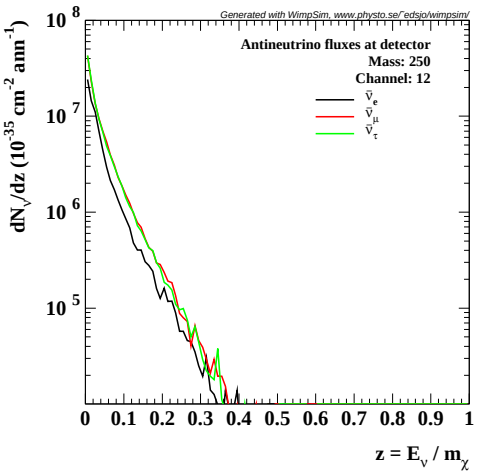




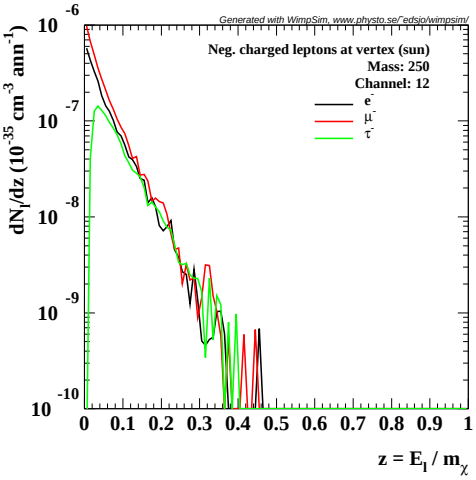
10.7 Channel 12 – gg

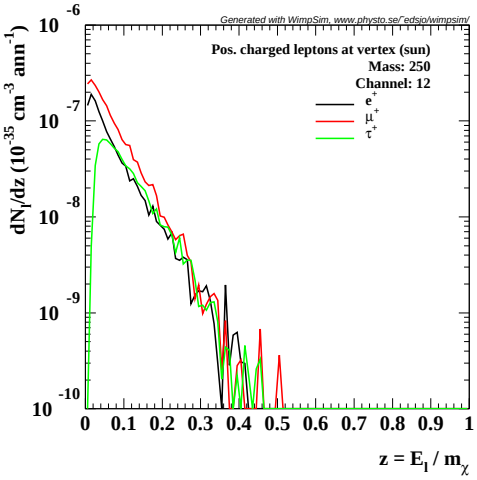
10.7.1 Neutrino fluxes at detector (Sun)



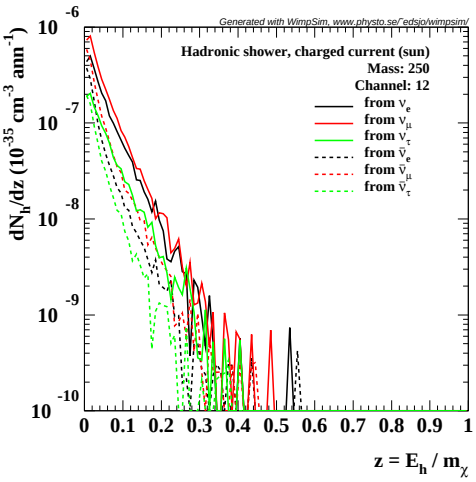


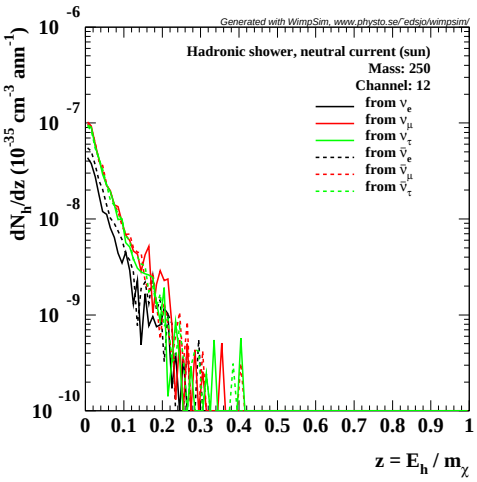
10.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



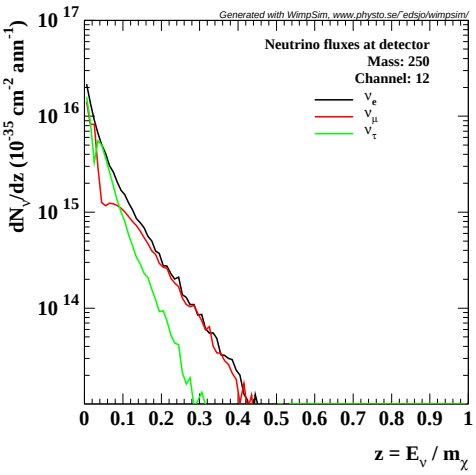


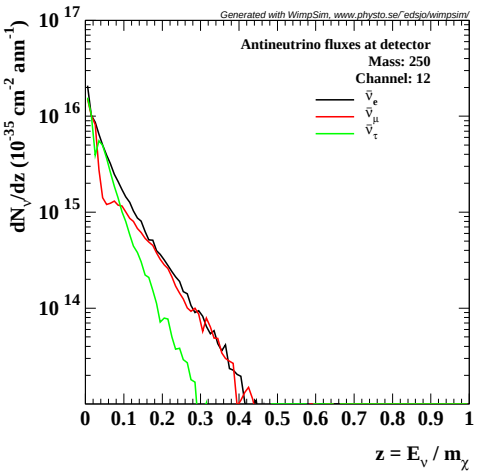
10.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



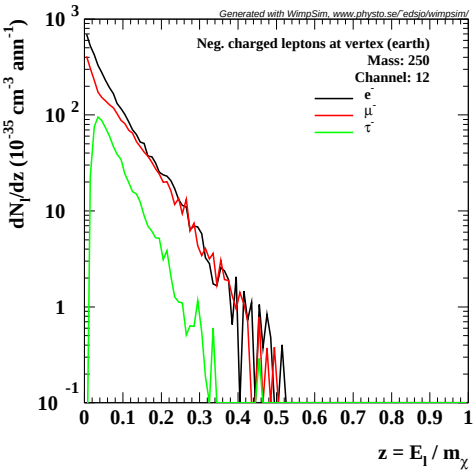


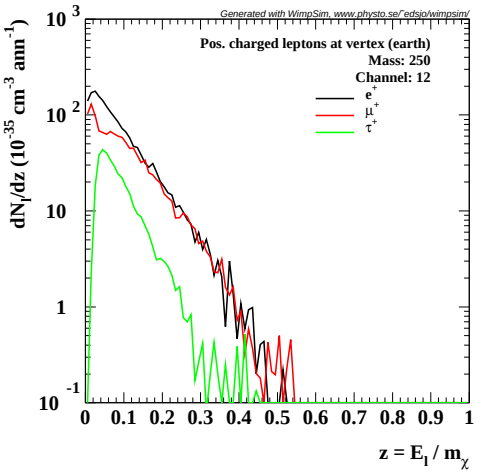
10.7.4 Neutrino fluxes at detector (Earth)



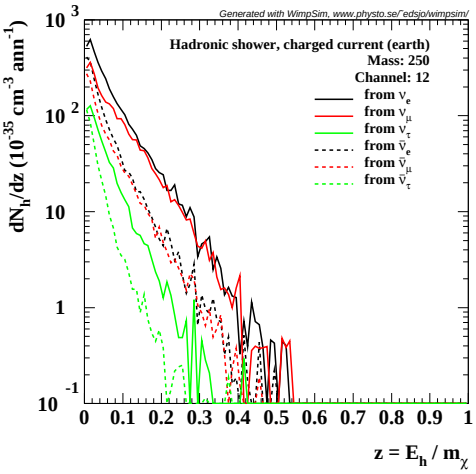


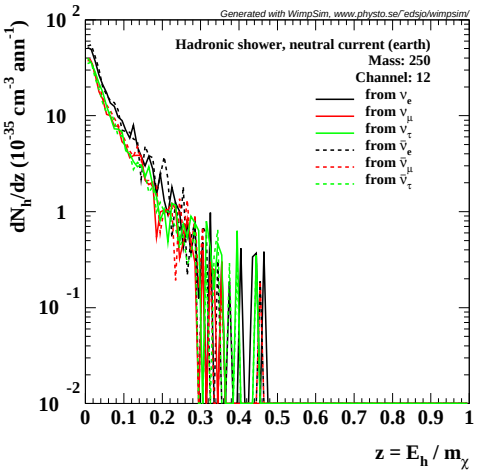
10.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



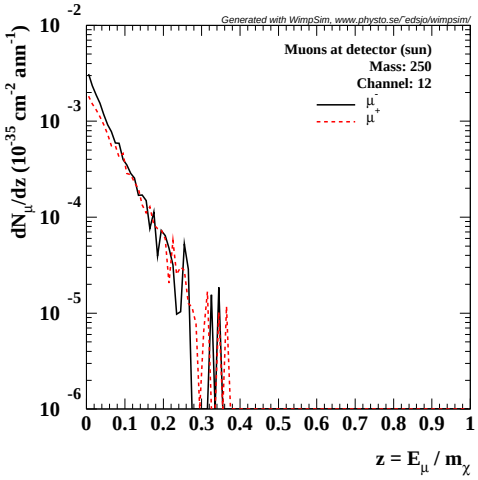


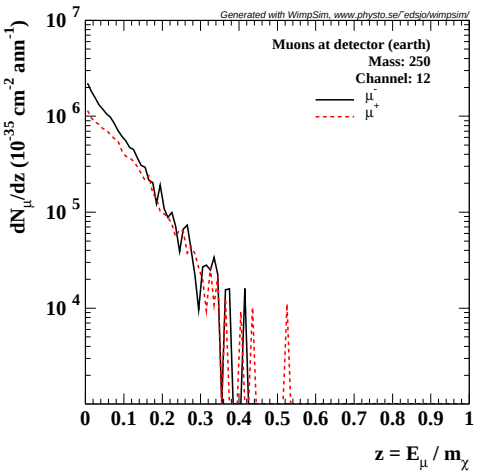
10.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





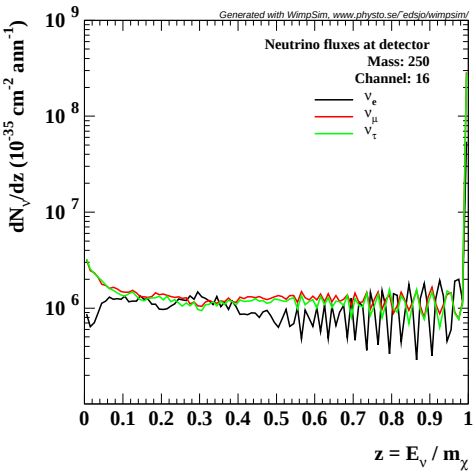
10.7.7 Muons at detector (Sun/Earth)

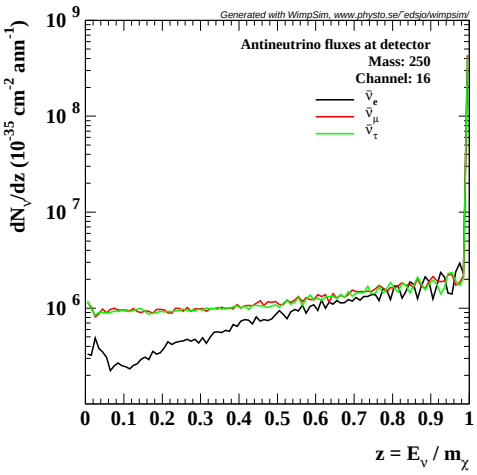




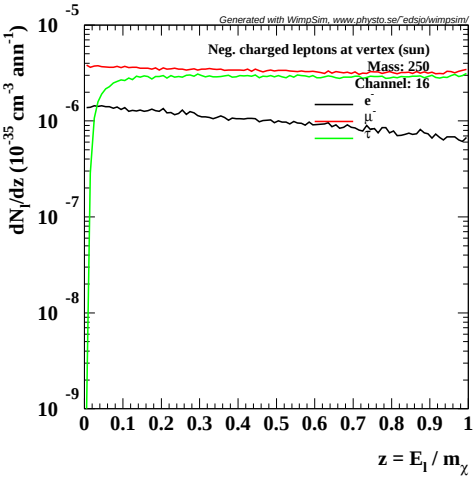
10.8 Channel 16 – $\nu_e\bar{\nu}_e$

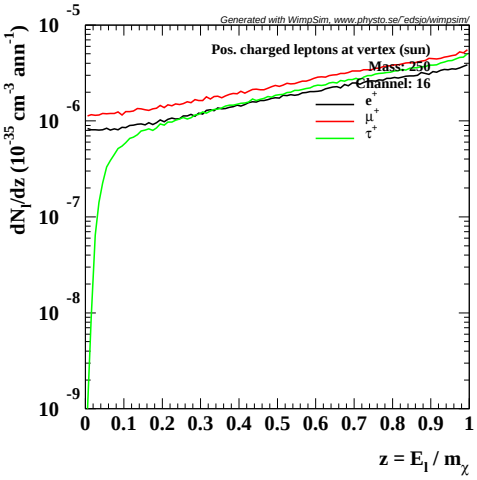
10.8.1 Neutrino fluxes at detector (Sun)



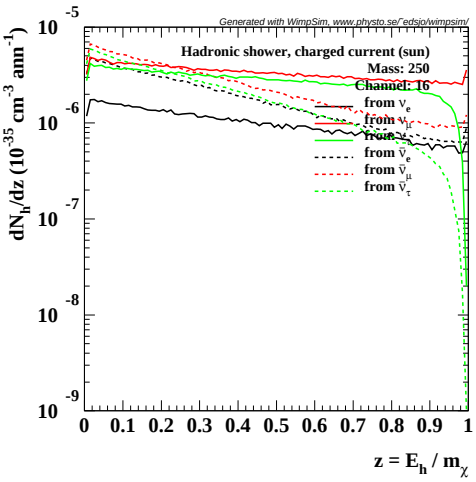


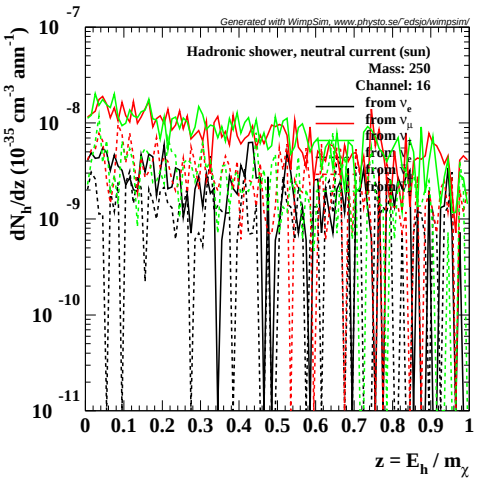
10.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



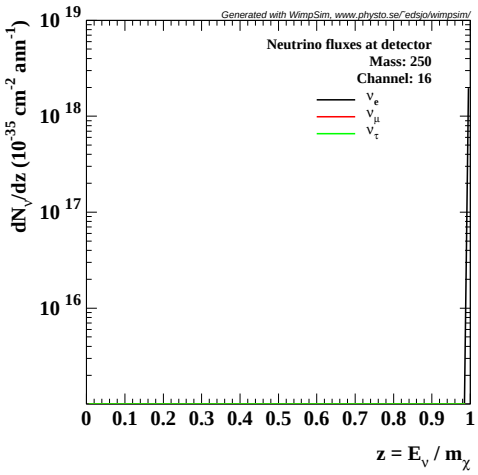


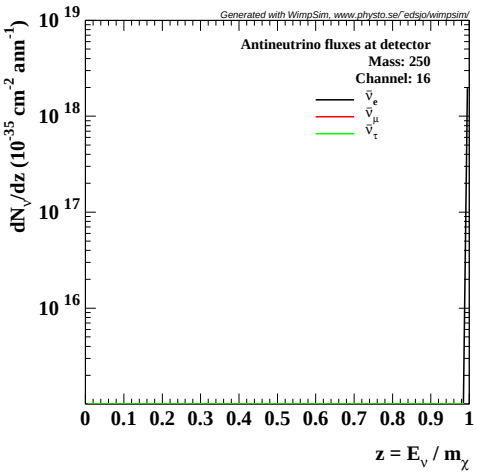
10.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



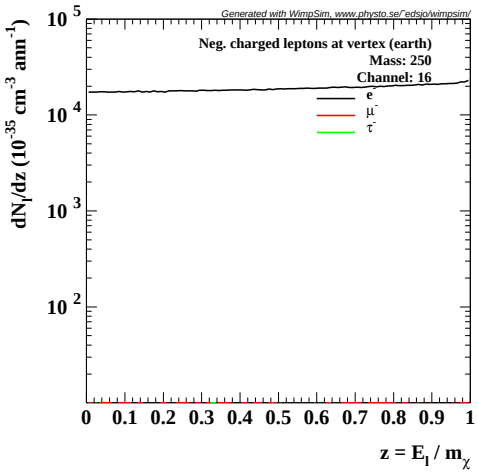


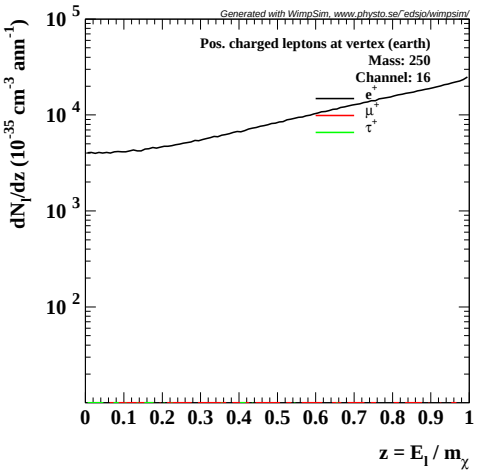
10.8.4 Neutrino fluxes at detector (Earth)



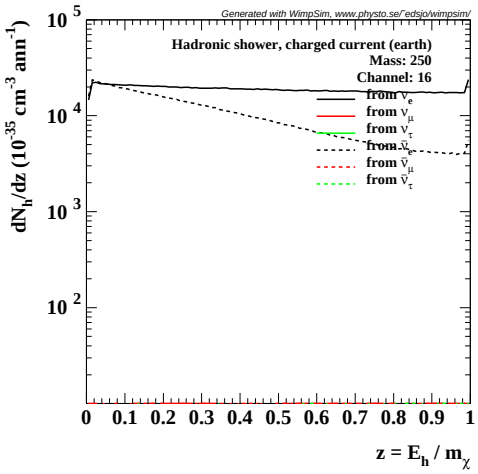


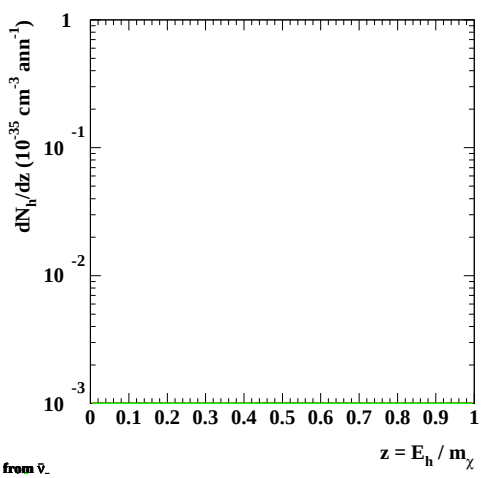
10.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





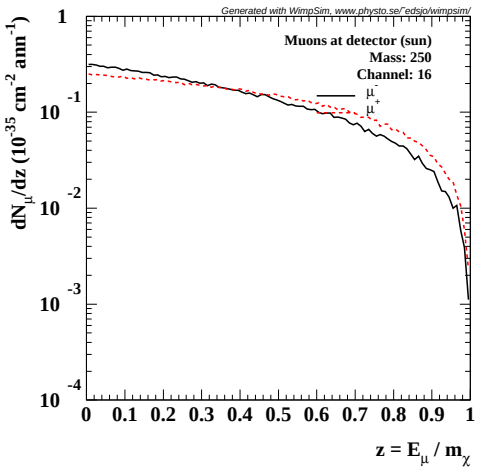
10.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

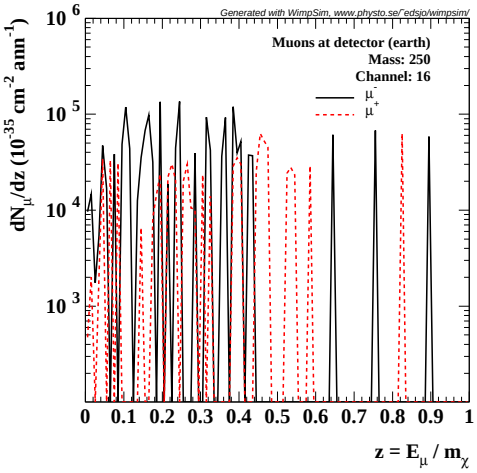




from $\bar{\nu}_\tau$

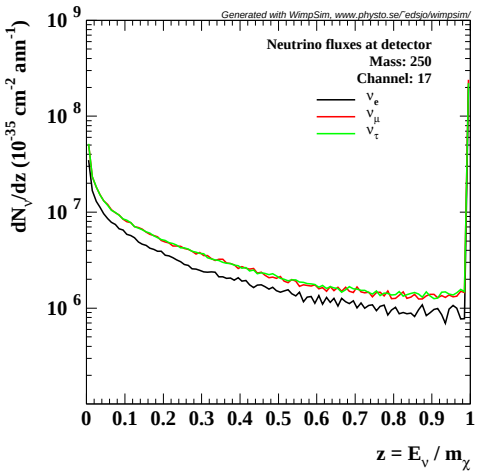
10.8.7 Muons at detector (Sun/Earth)

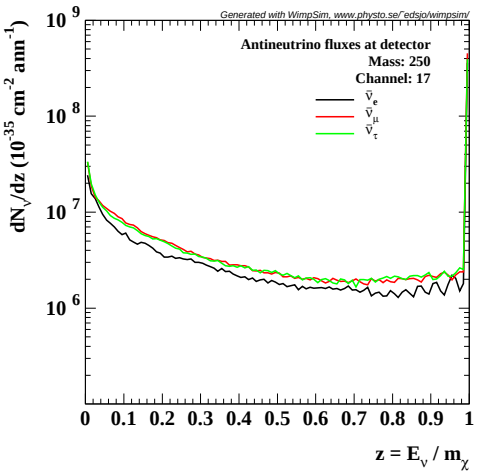




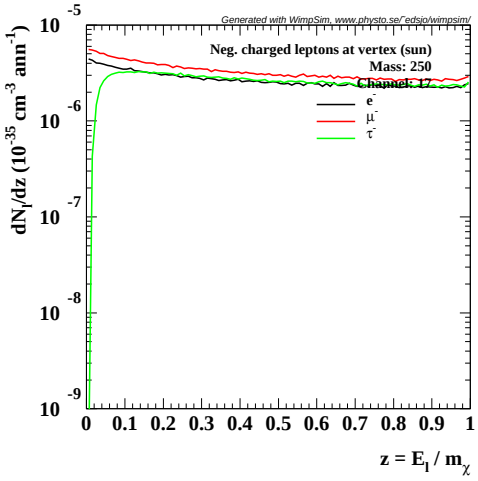
10.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

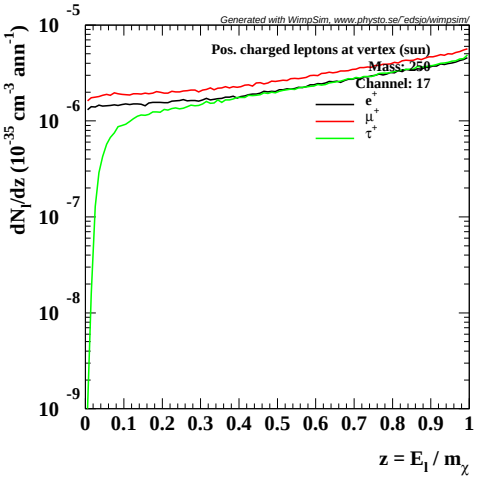
10.9.1 Neutrino fluxes at detector (Sun)



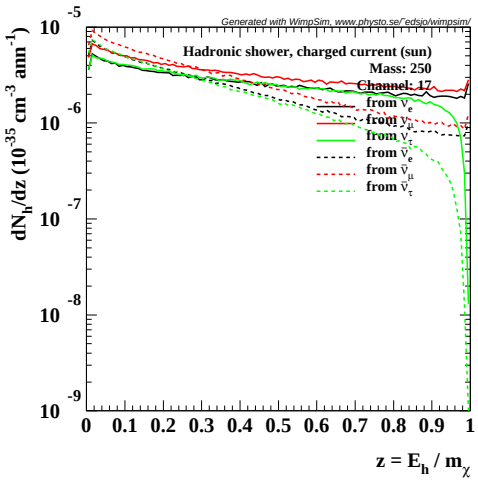


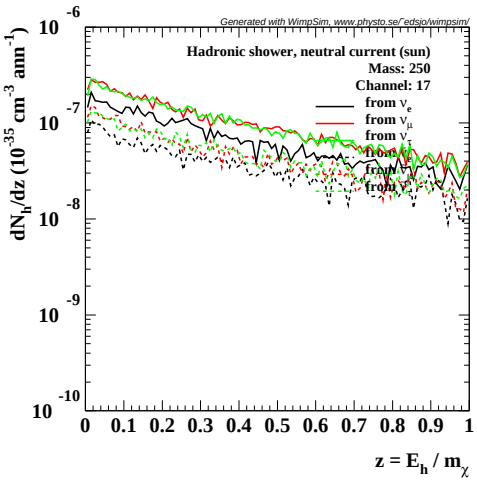
10.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



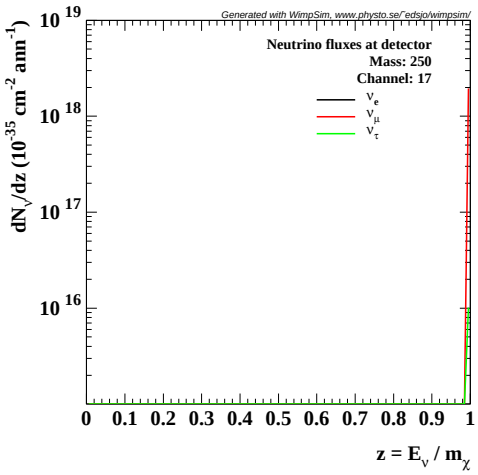


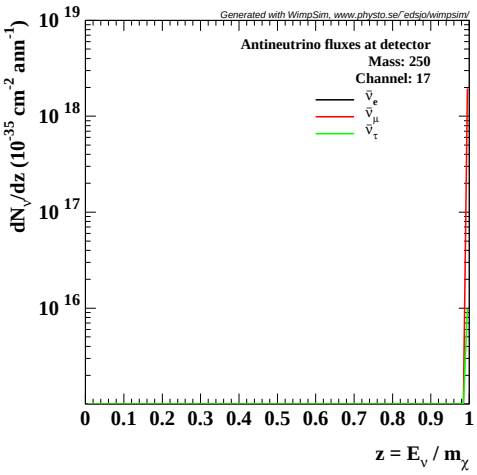
10.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



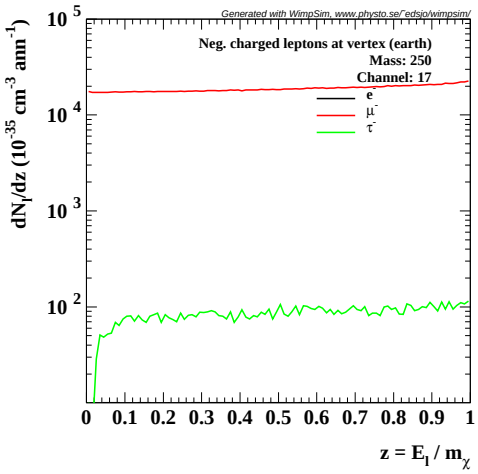


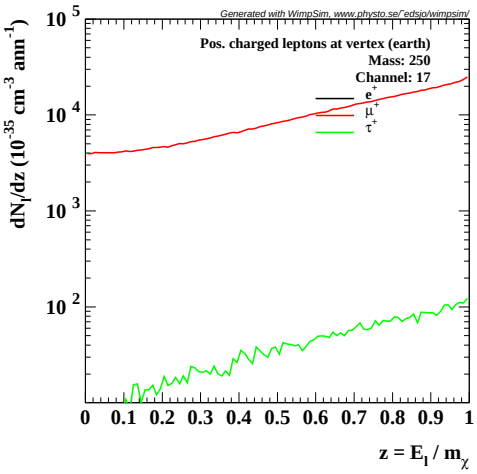
10.9.4 Neutrino fluxes at detector (Earth)



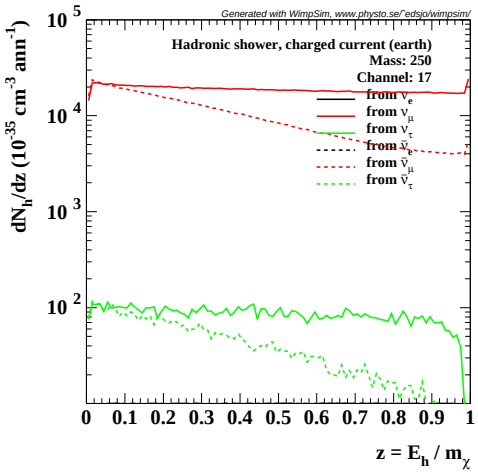


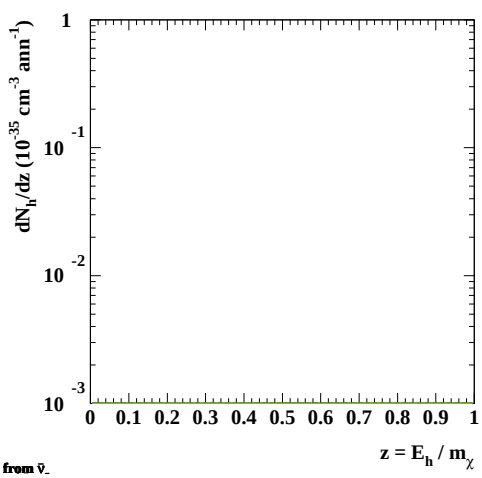
10.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



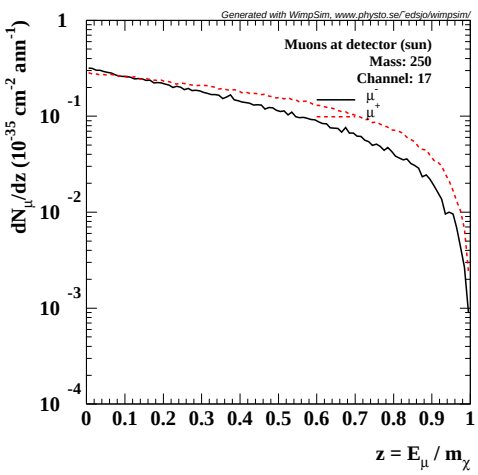


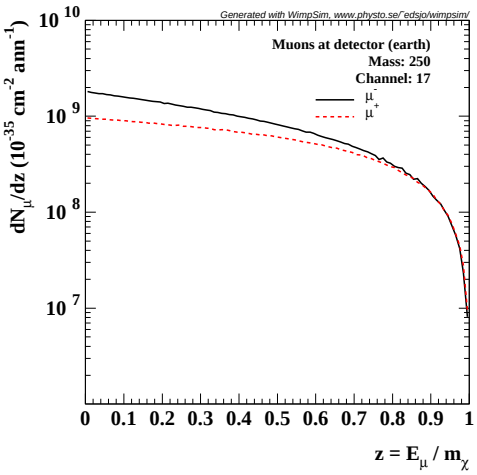
10.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





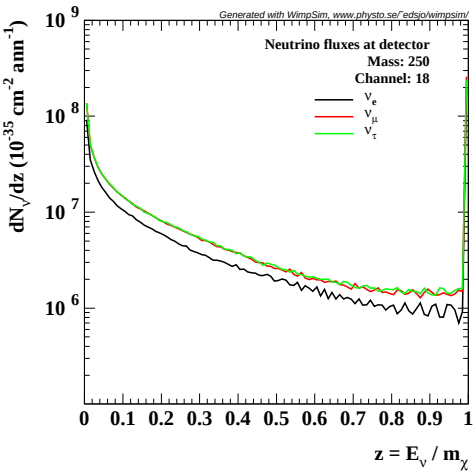
10.9.7 Muons at detector (Sun/Earth)

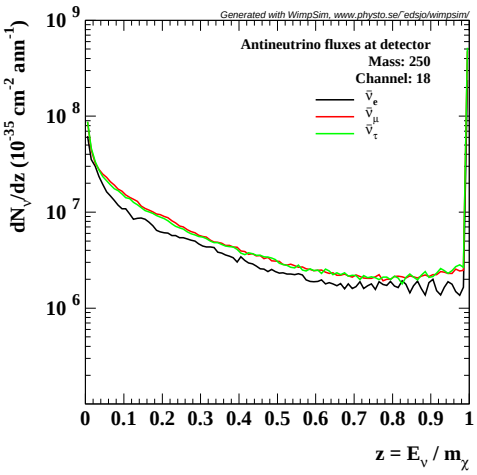




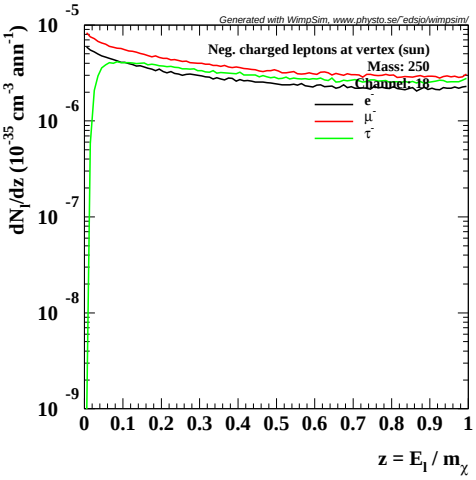
10.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

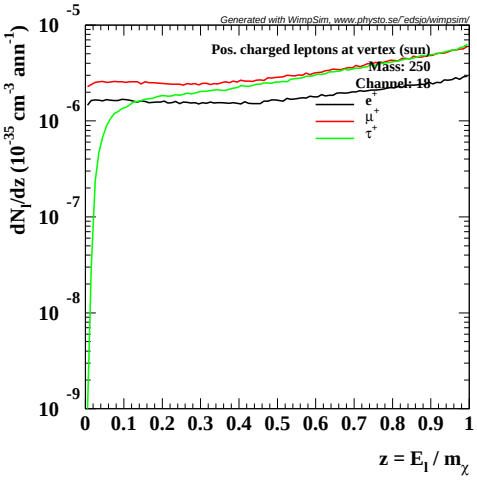
10.10.1 Neutrino fluxes at detector (Sun)



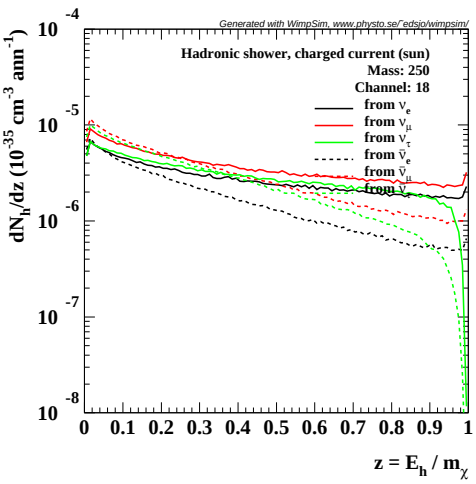


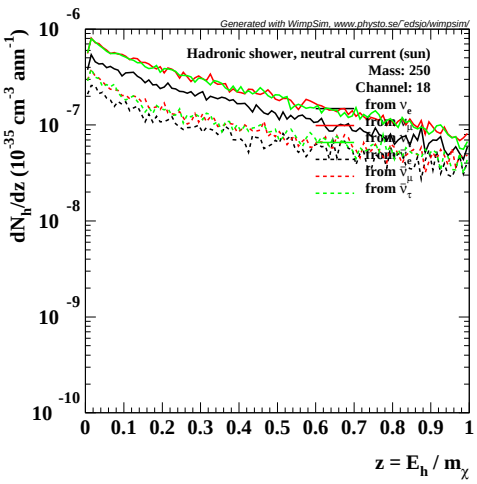
10.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



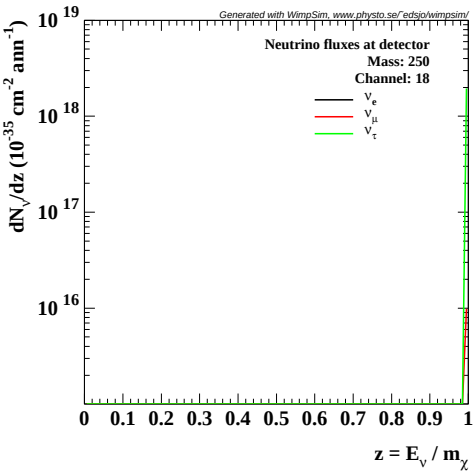


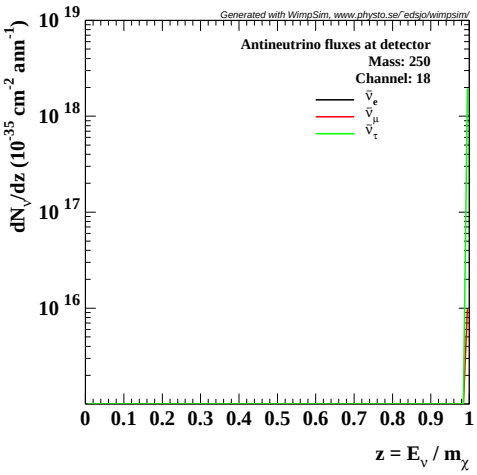
10.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



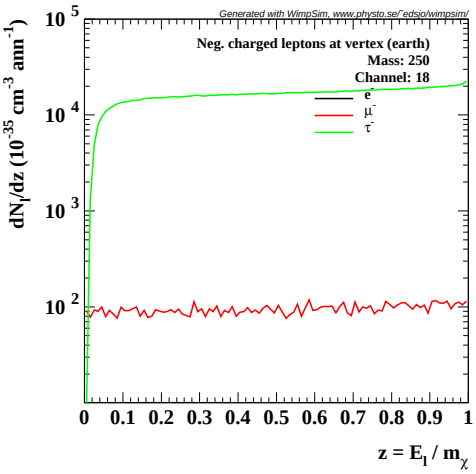


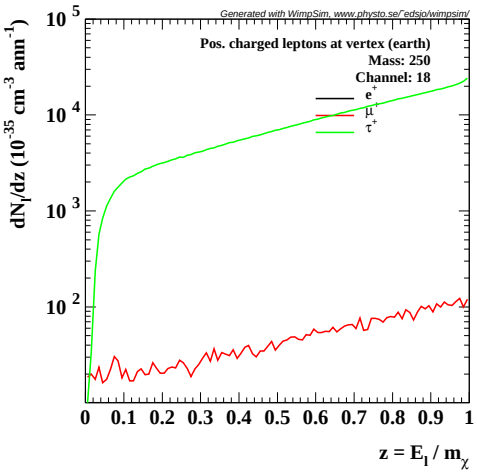
10.10.4 Neutrino fluxes at detector (Earth)



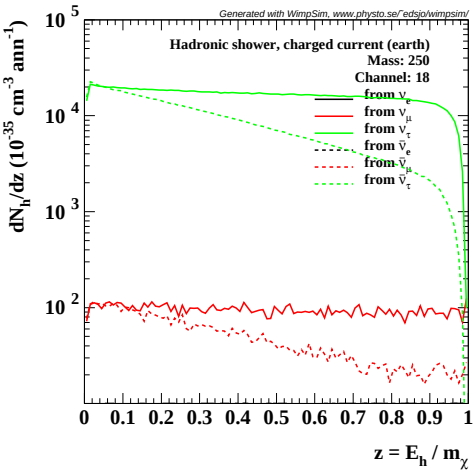


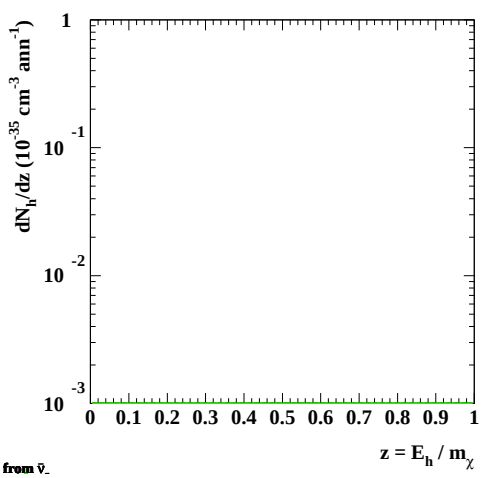
10.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





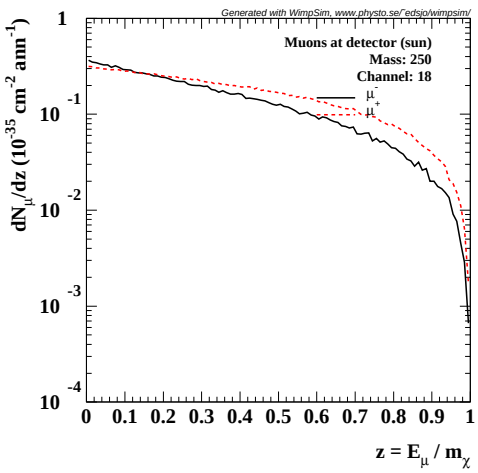
10.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

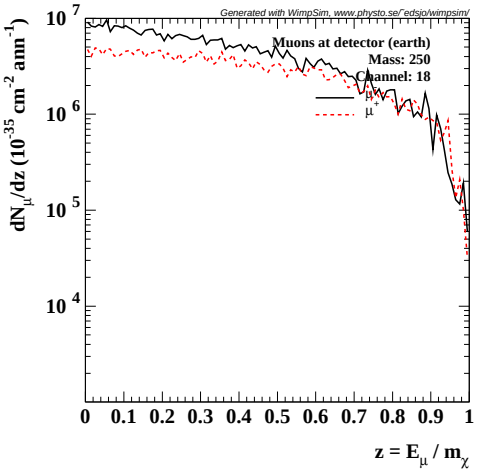




from $\bar{\nu}_\tau$

10.10.7 Muons at detector (Sun/Earth)

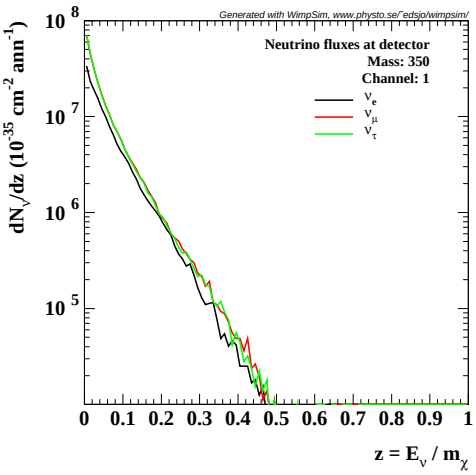


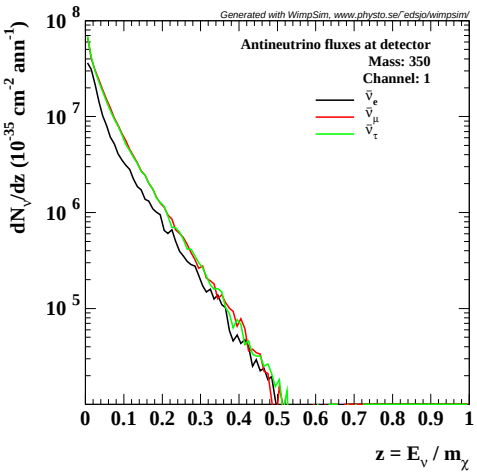


11 Mass 350

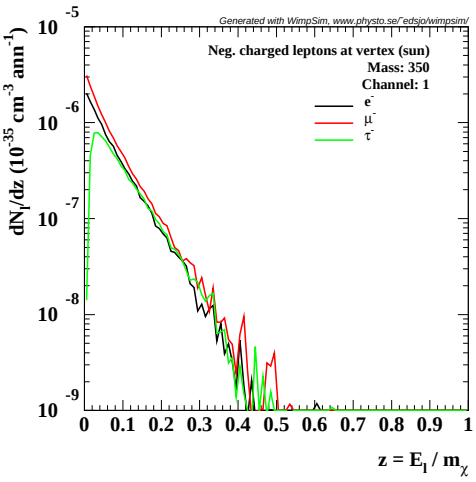
11.1 Channel 1 – $c\bar{c}$

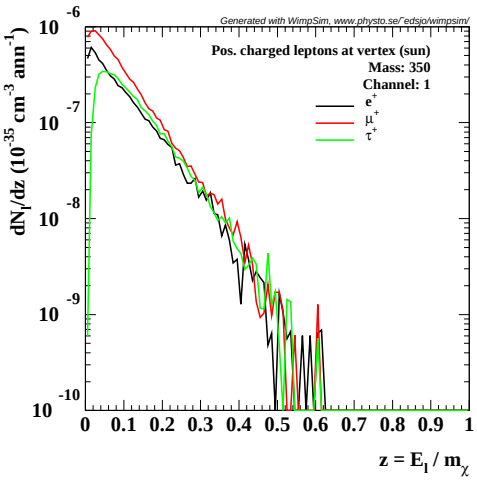
11.1.1 Neutrino fluxes at detector (Sun)



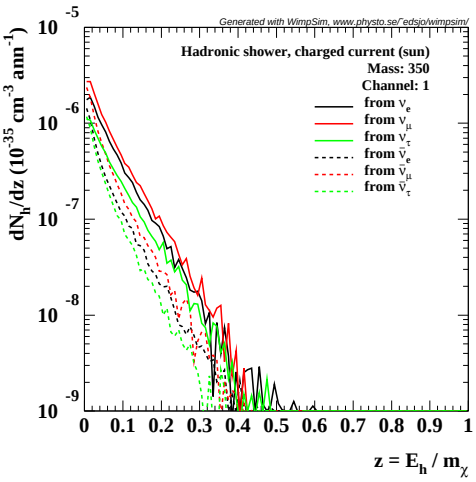


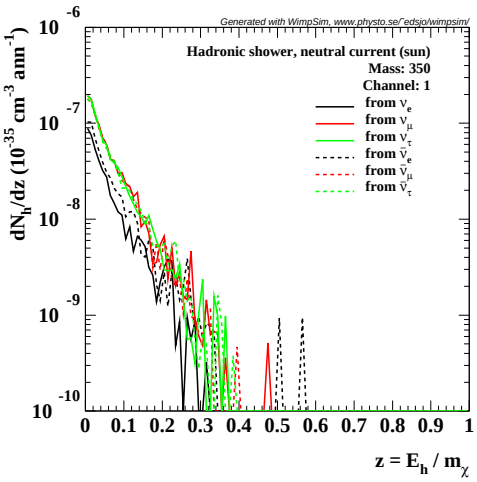
11.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



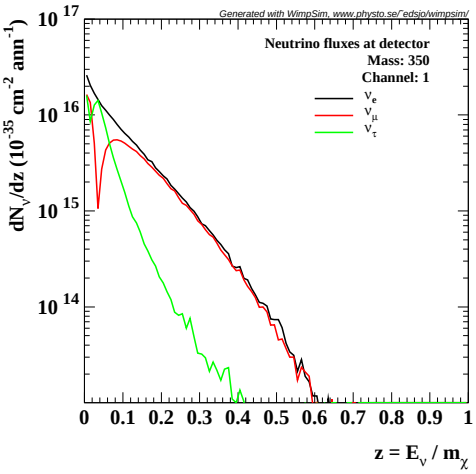


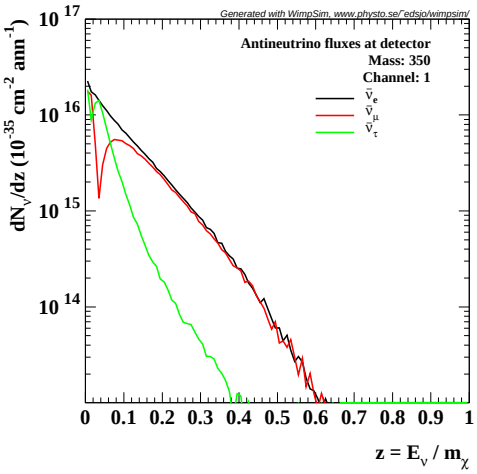
11.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



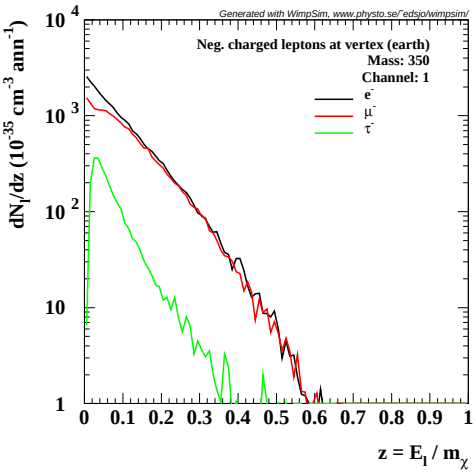


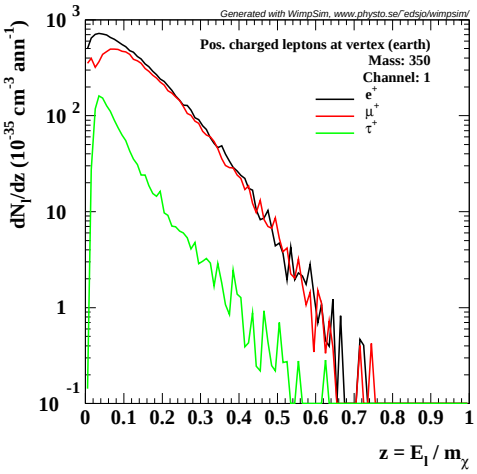
11.1.4 Neutrino fluxes at detector (Earth)



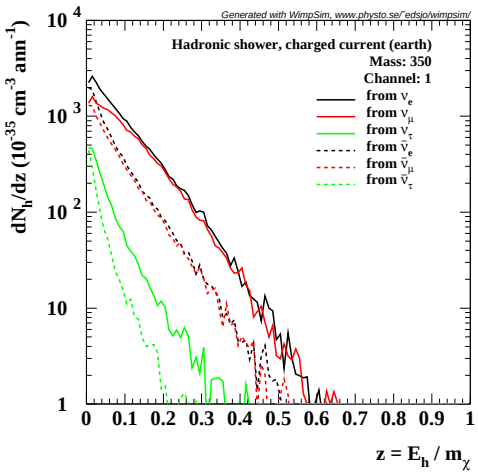


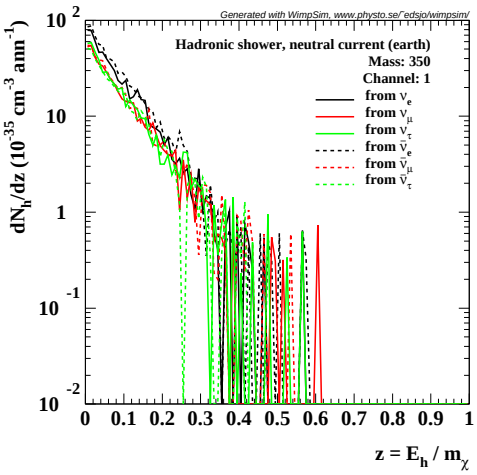
11.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



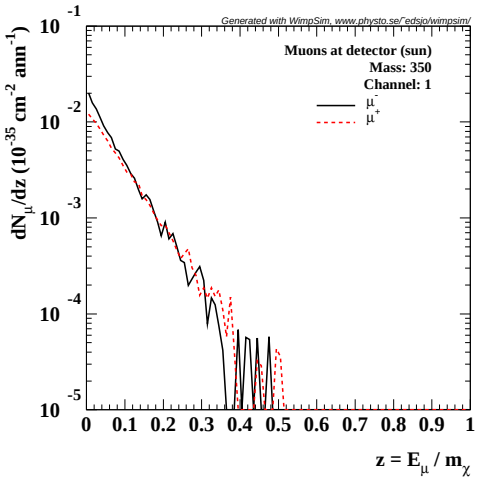


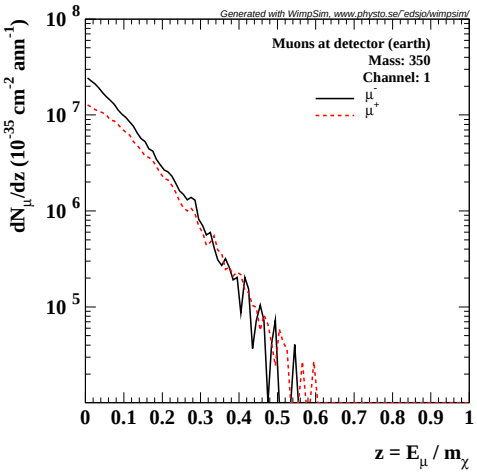
11.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





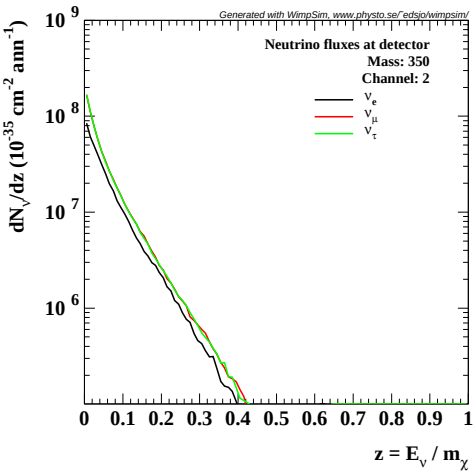
11.1.7 Muons at detector (Sun/Earth)

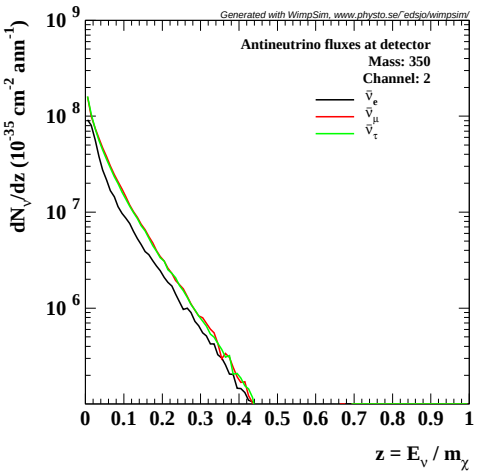




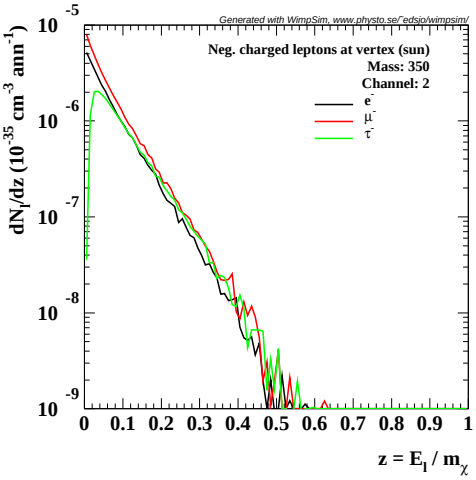
11.2 Channel 2 – $b\bar{b}$

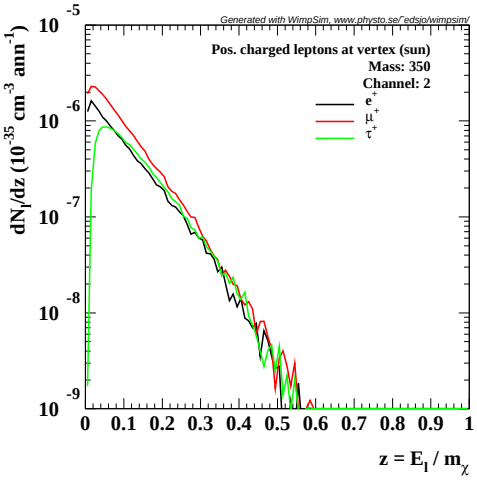
11.2.1 Neutrino fluxes at detector (Sun)



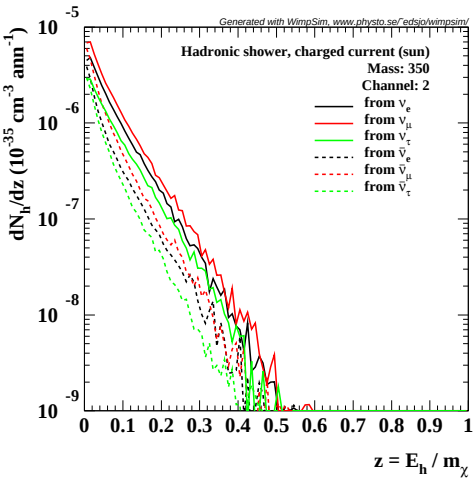


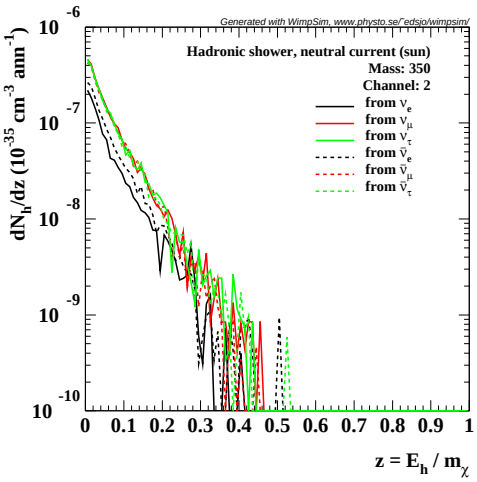
11.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



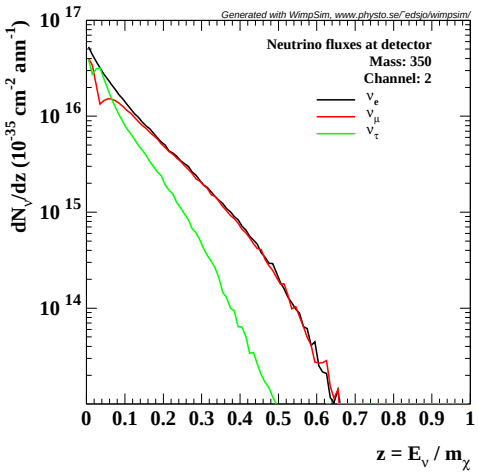


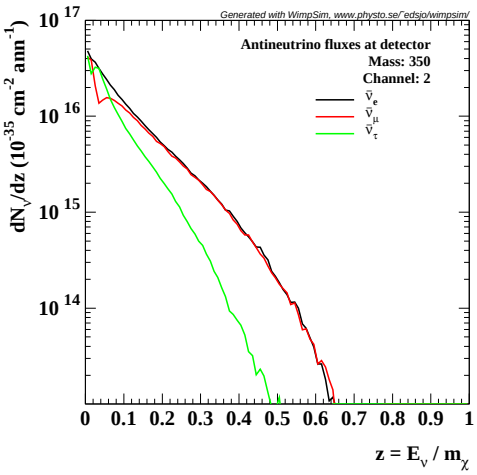
11.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



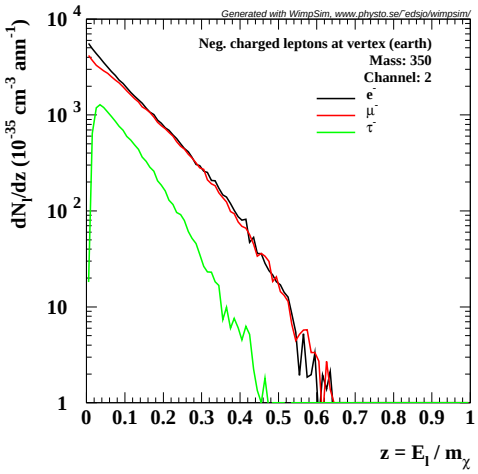


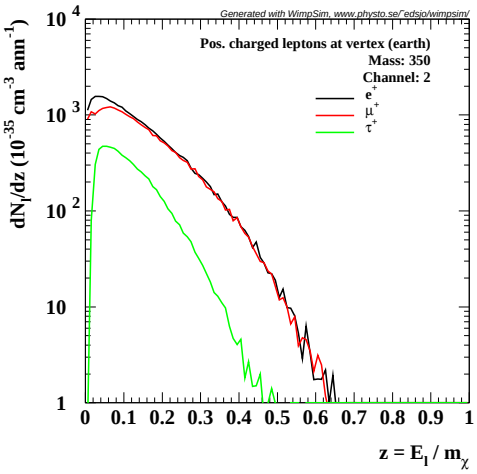
11.2.4 Neutrino fluxes at detector (Earth)



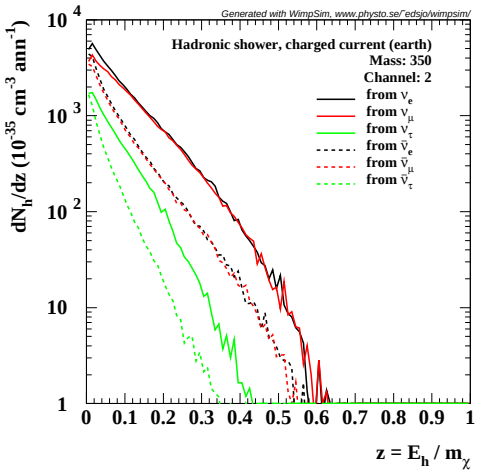


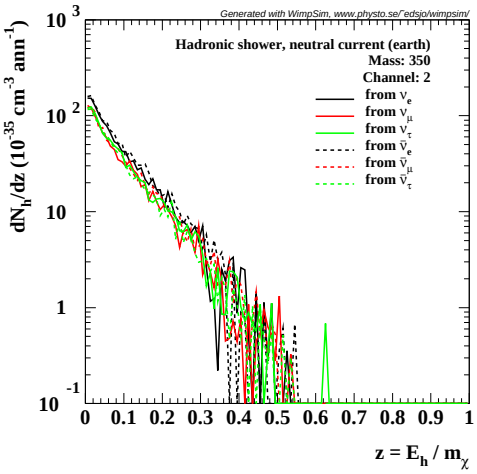
11.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



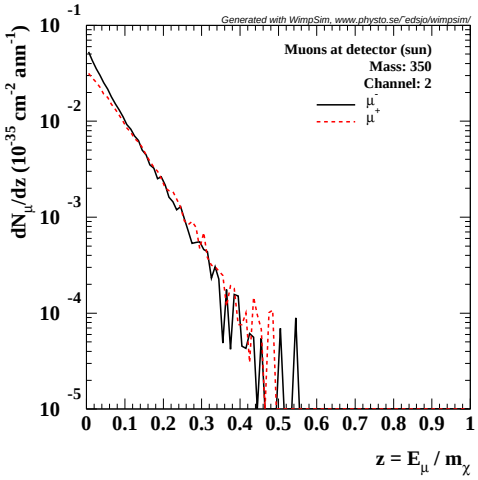


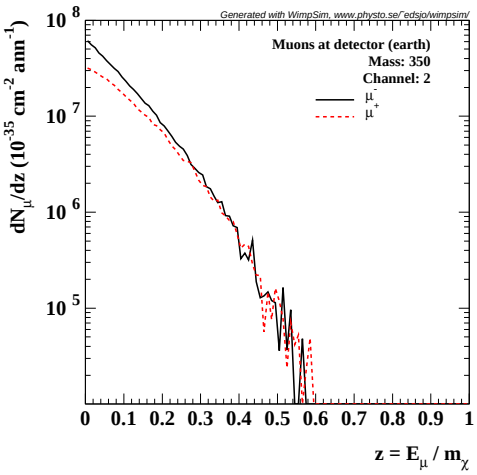
11.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





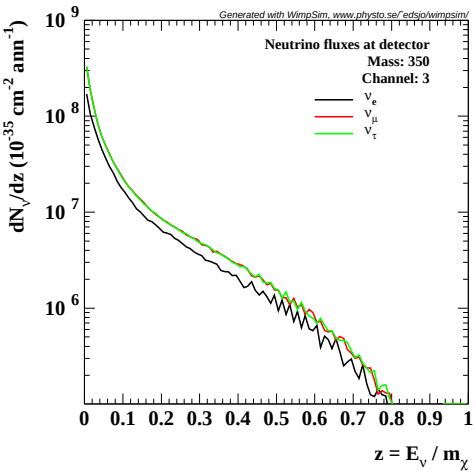
11.2.7 Muons at detector (Sun/Earth)

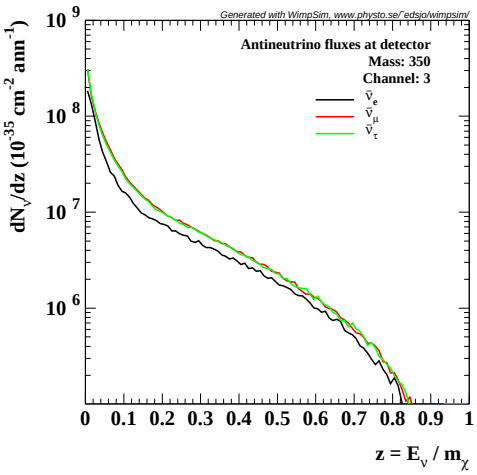




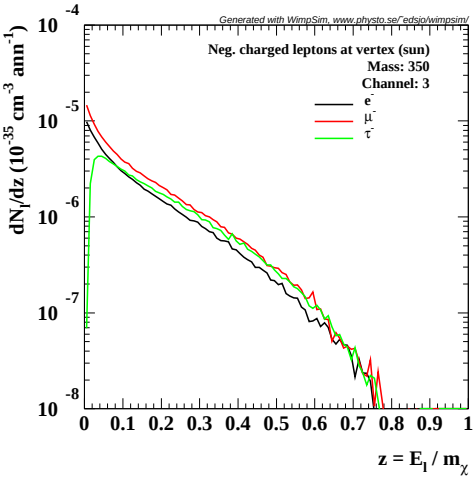
11.3 Channel 3 – $t\bar{t}$

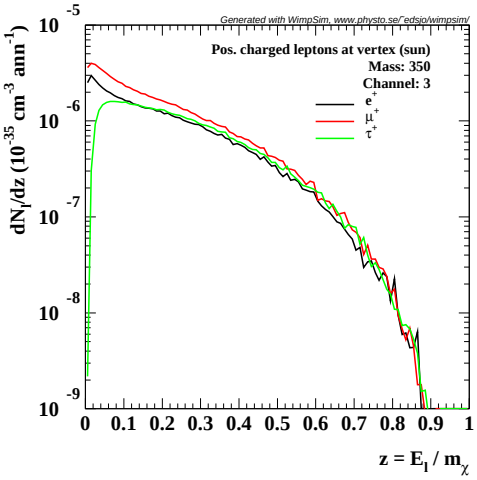
11.3.1 Neutrino fluxes at detector (Sun)



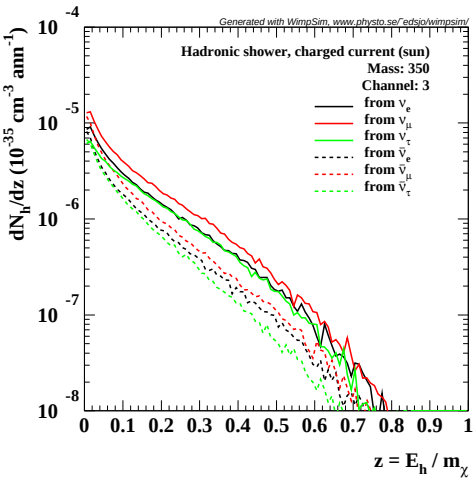


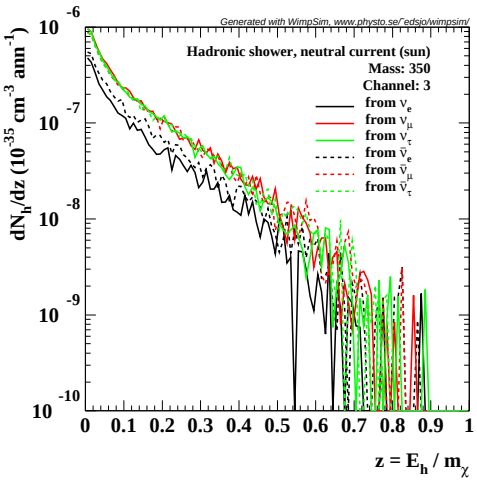
11.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



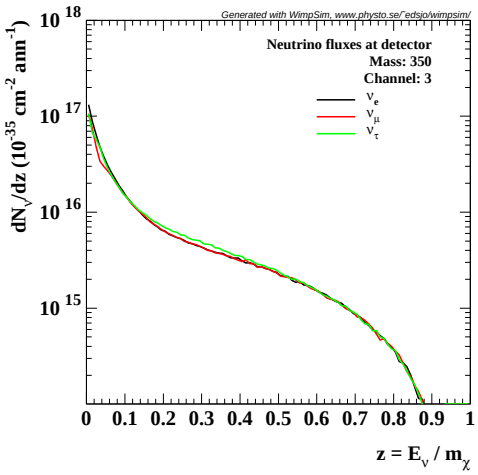


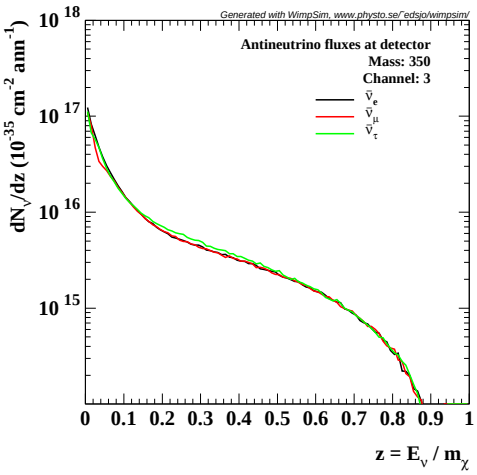
11.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



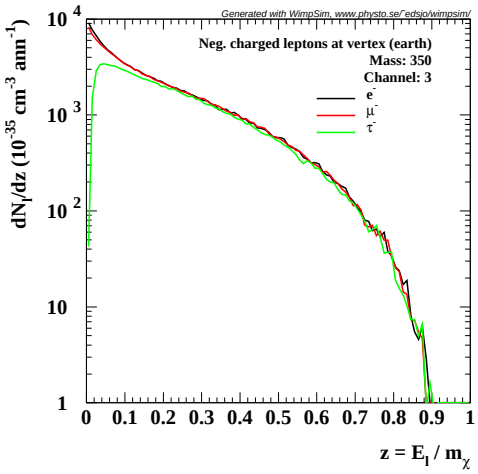


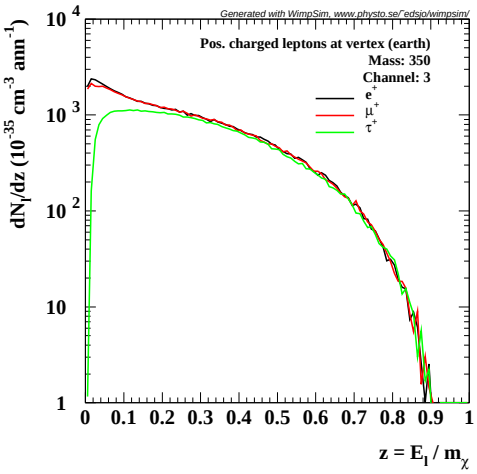
11.3.4 Neutrino fluxes at detector (Earth)



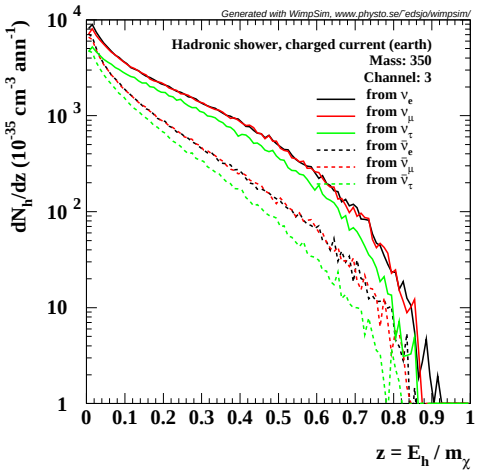


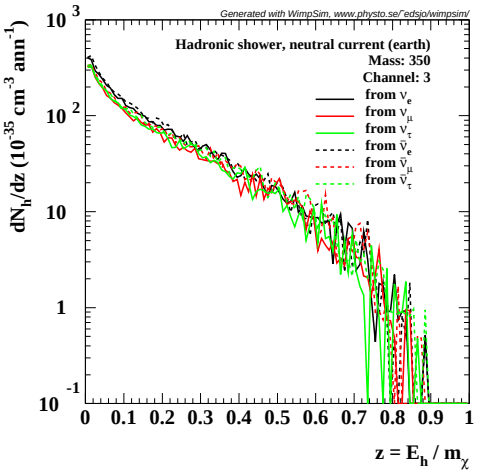
11.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



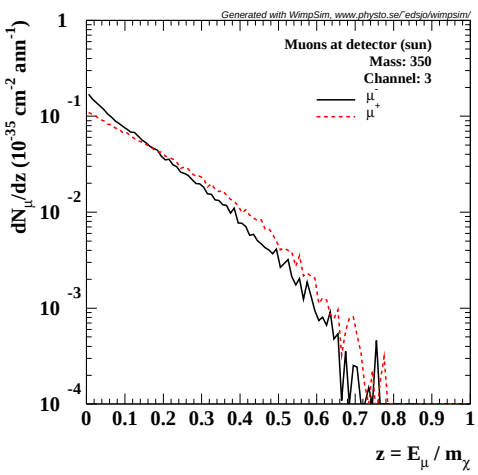


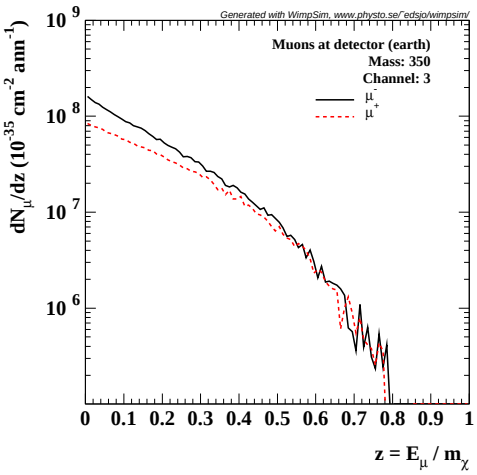
11.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





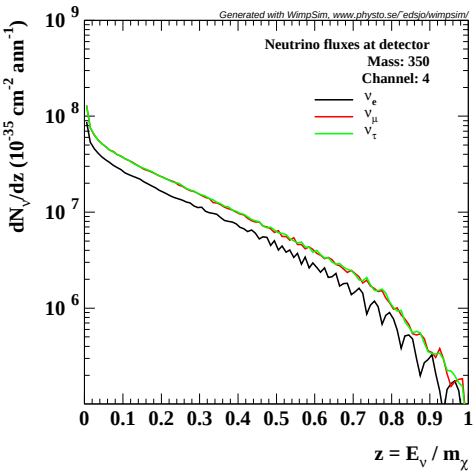
11.3.7 Muons at detector (Sun/Earth)

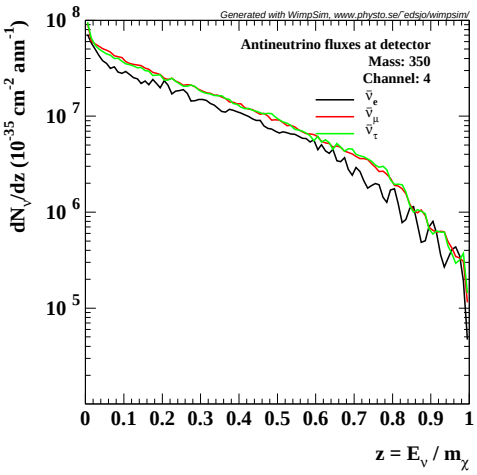




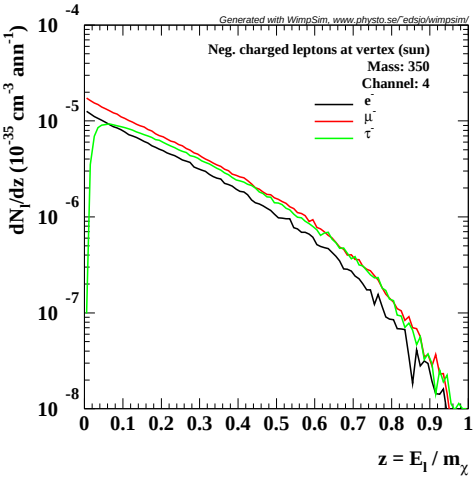
11.4 Channel 4 – $\tau^-\tau^+$

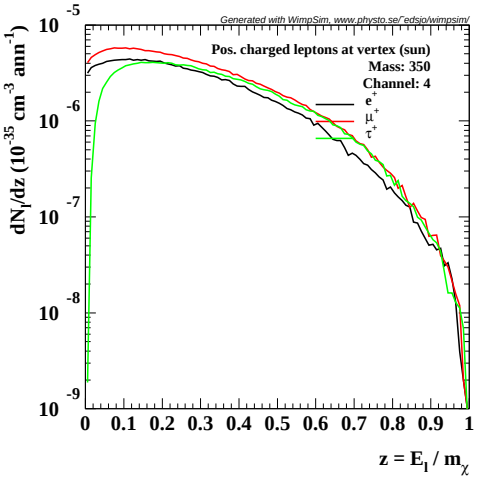
11.4.1 Neutrino fluxes at detector (Sun)



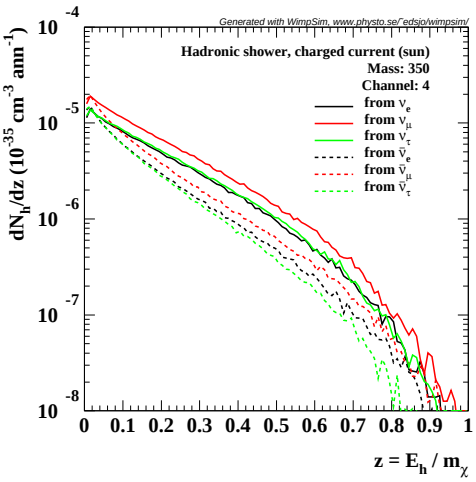


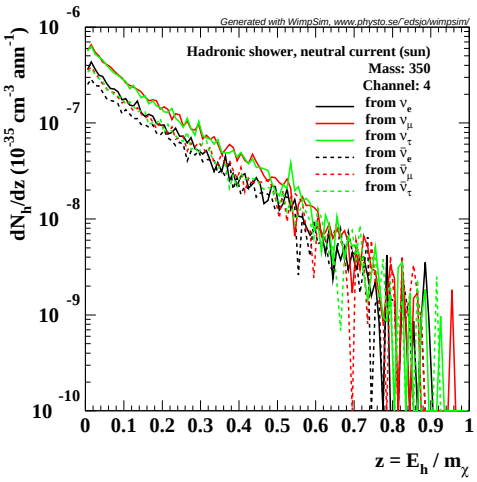
11.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



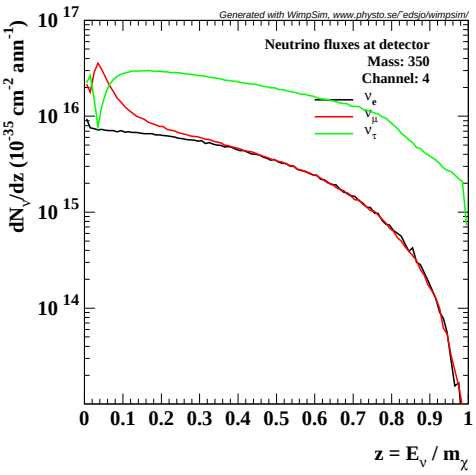


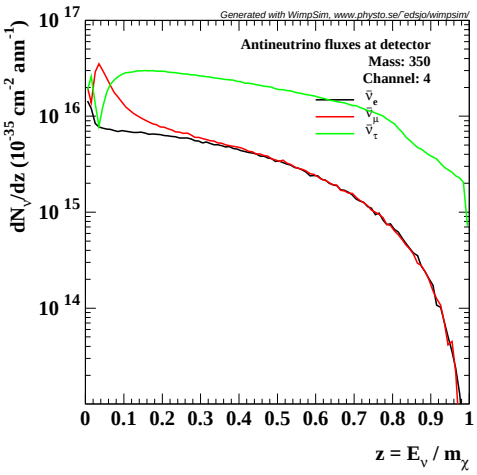
11.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



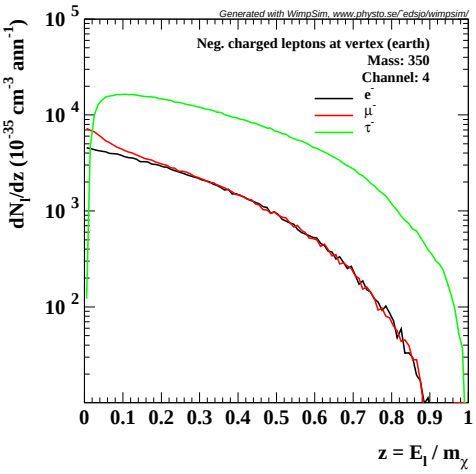


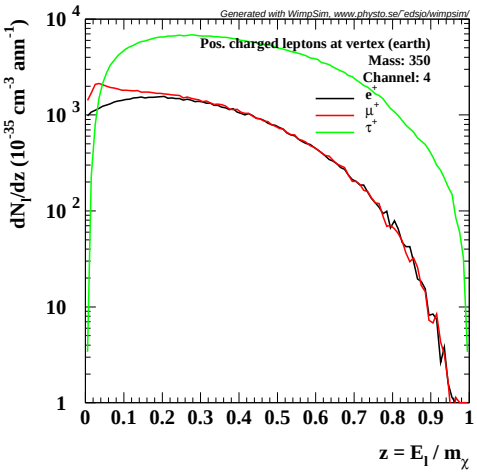
11.4.4 Neutrino fluxes at detector (Earth)



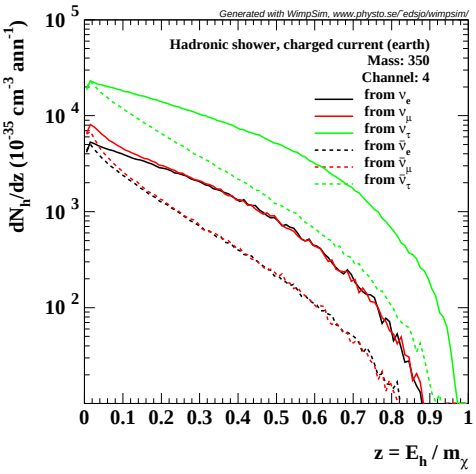


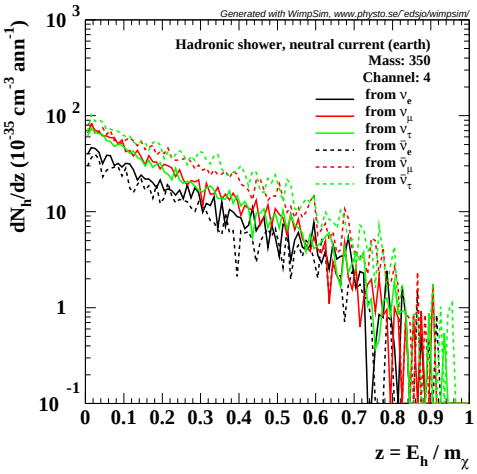
11.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



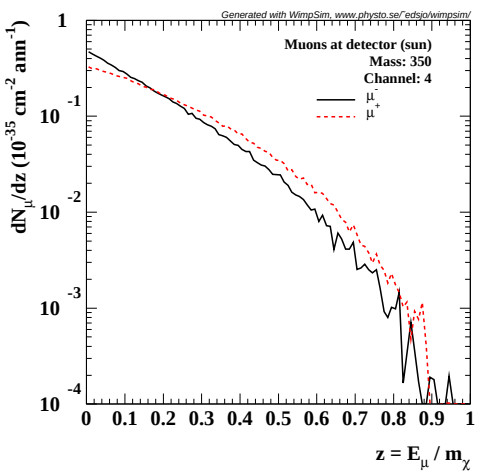


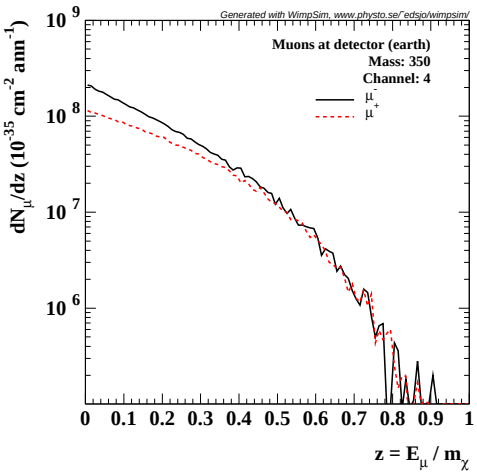
11.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





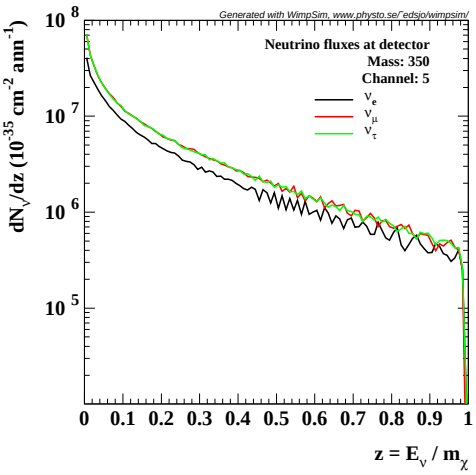
11.4.7 Muons at detector (Sun/Earth)

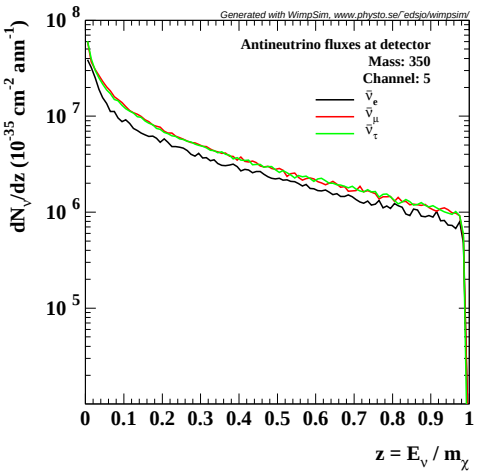




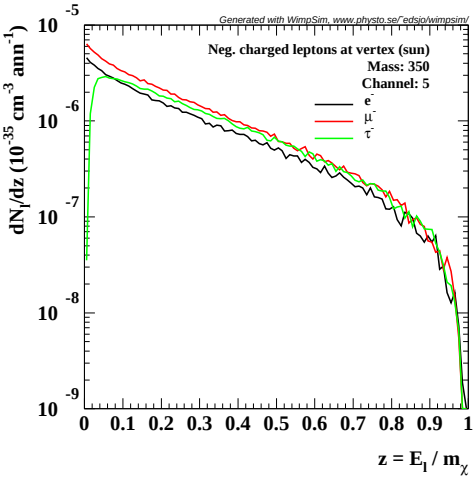
11.5 Channel 5 – W^-W^+

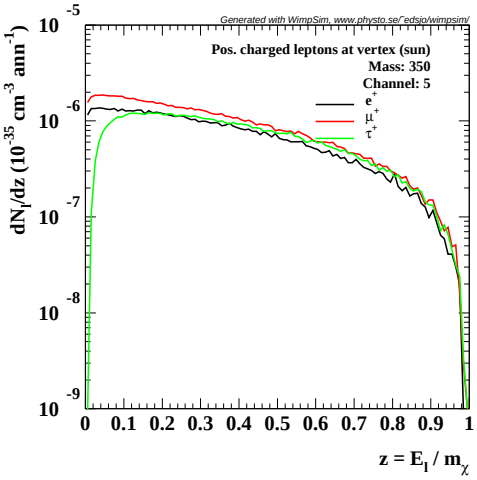
11.5.1 Neutrino fluxes at detector (Sun)



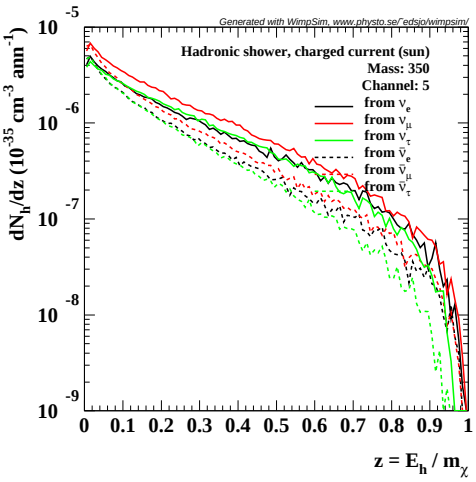


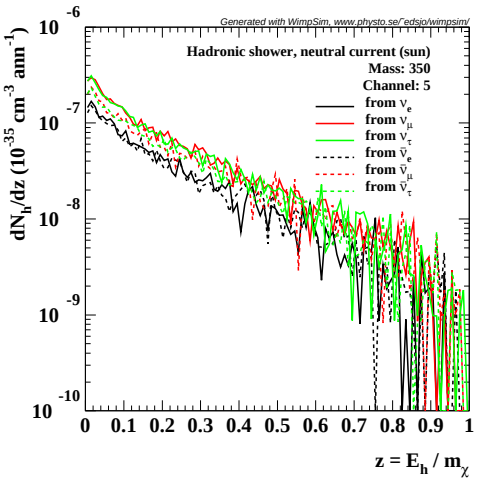
11.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



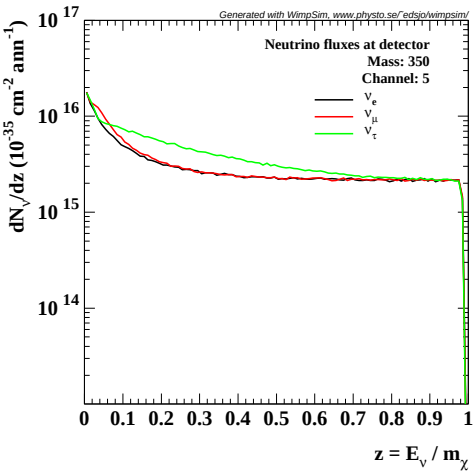


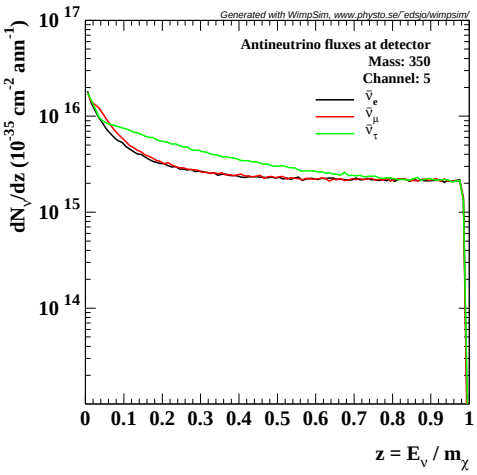
11.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



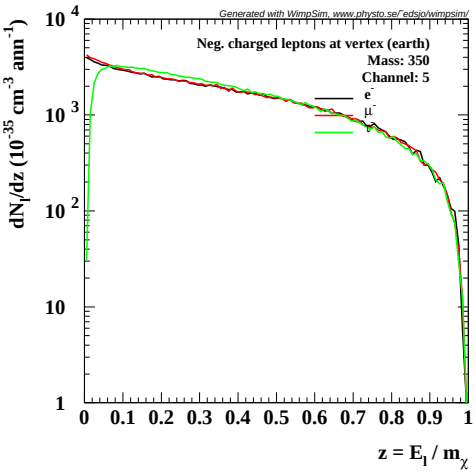


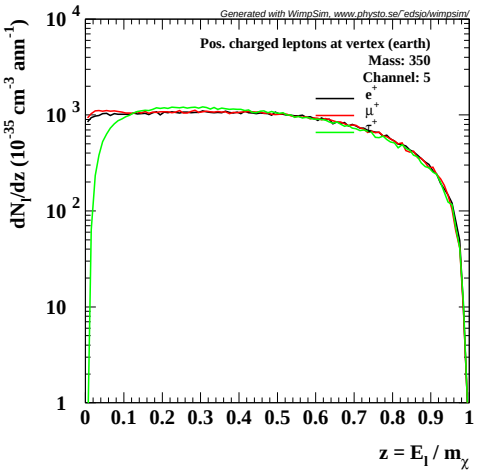
11.5.4 Neutrino fluxes at detector (Earth)



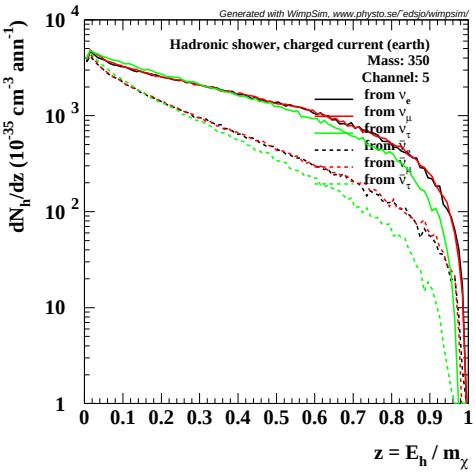


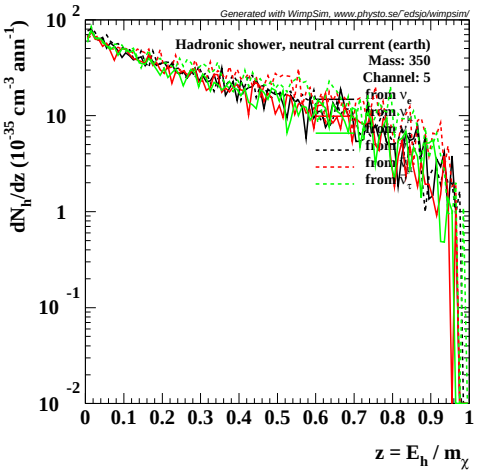
11.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



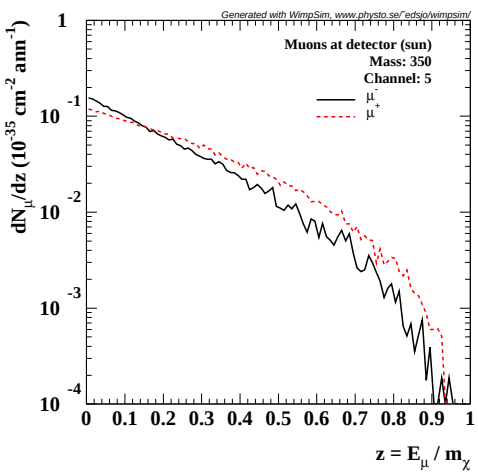


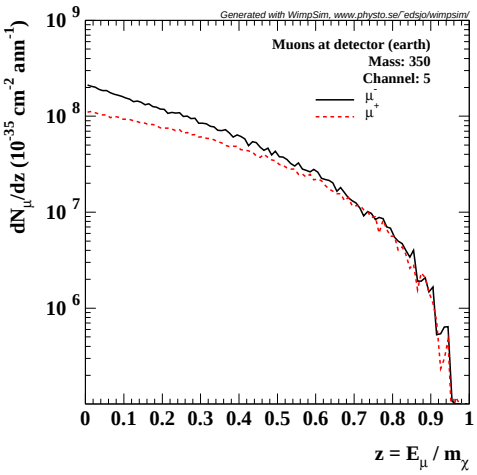
11.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





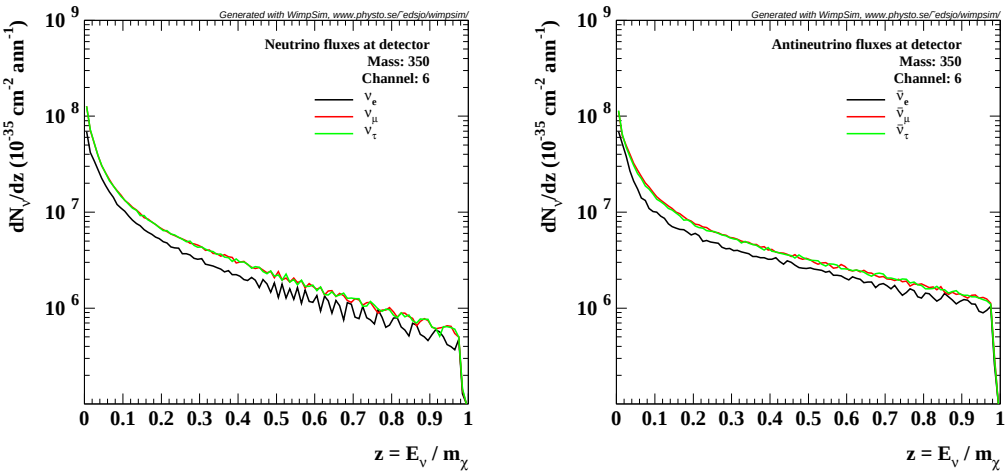
11.5.7 Muons at detector (Sun/Earth)



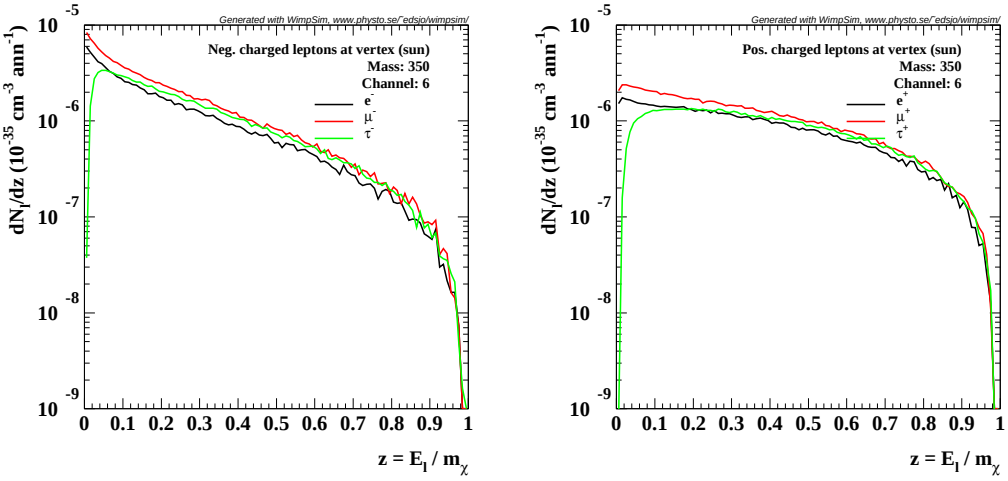


11.6 Channel 6 – $Z^0 Z^0$

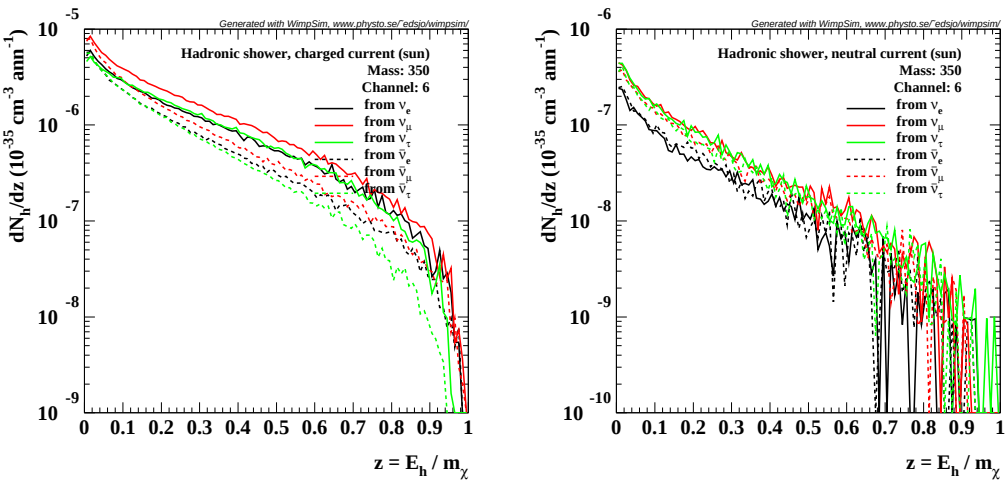
11.6.1 Neutrino fluxes at detector (Sun)



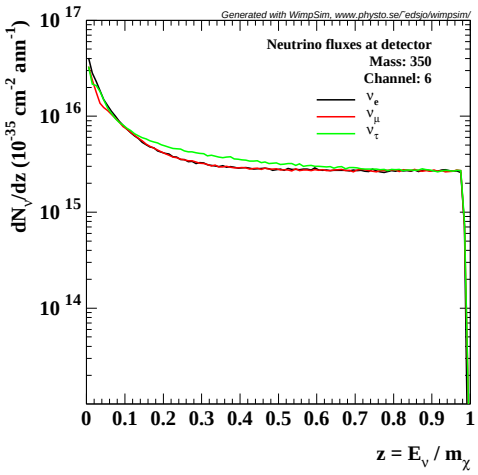
11.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

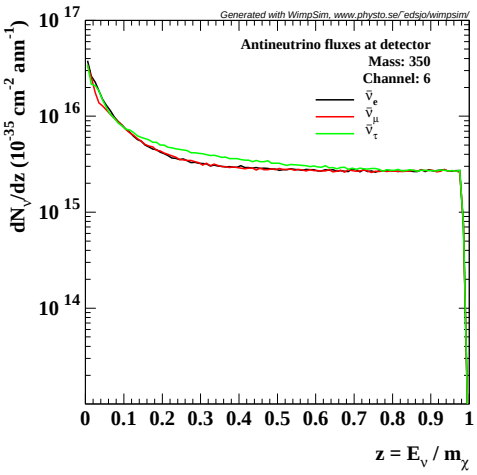


11.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

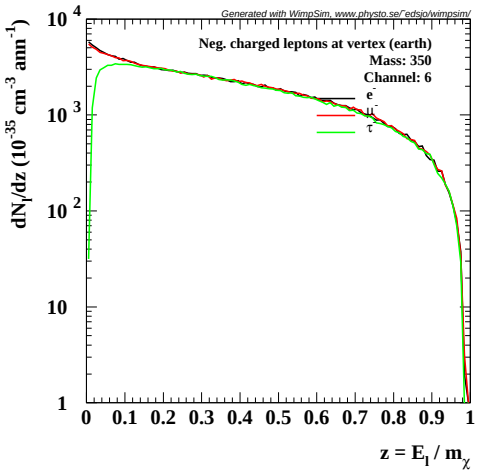


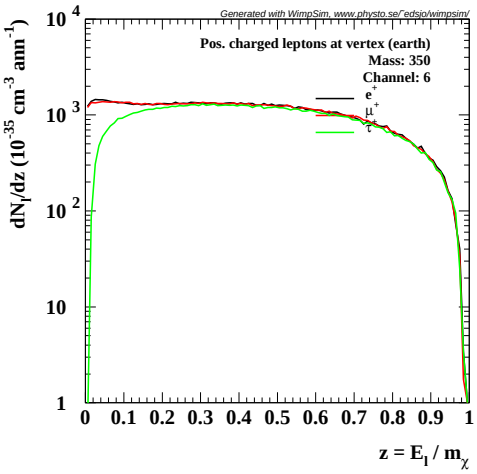
11.6.4 Neutrino fluxes at detector (Earth)



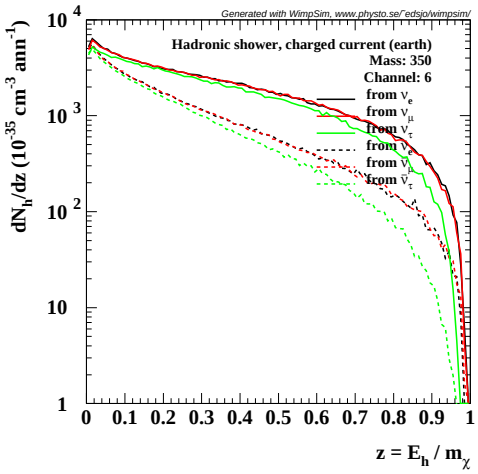


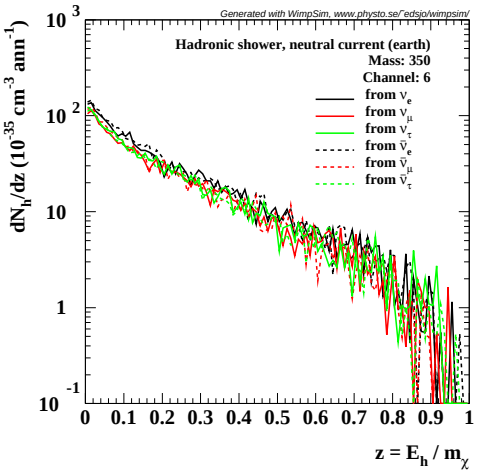
11.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



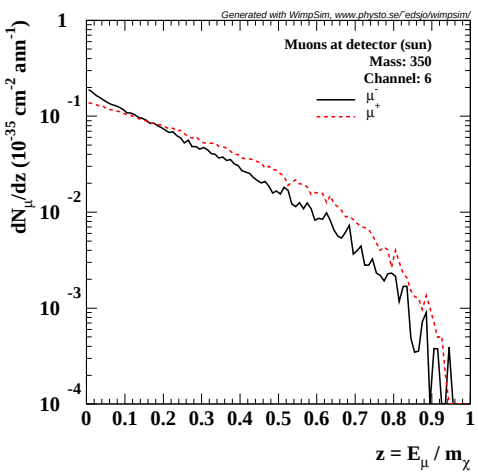


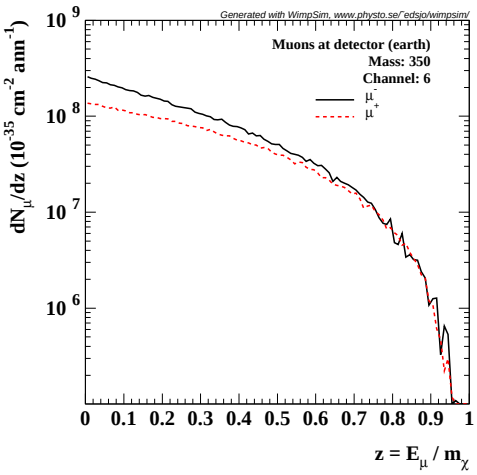
11.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





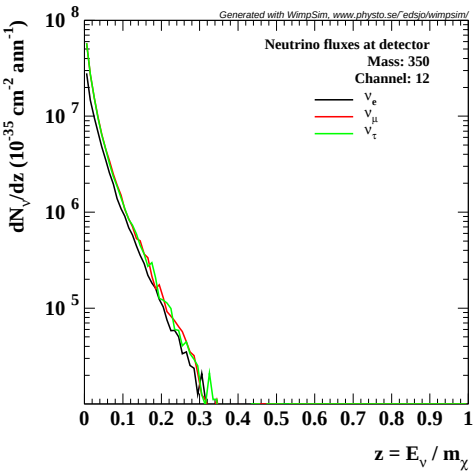
11.6.7 Muons at detector (Sun/Earth)

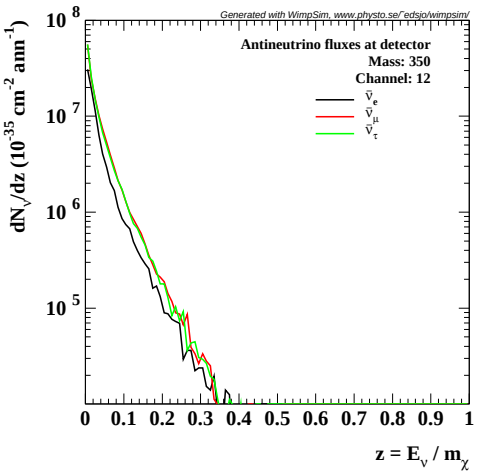




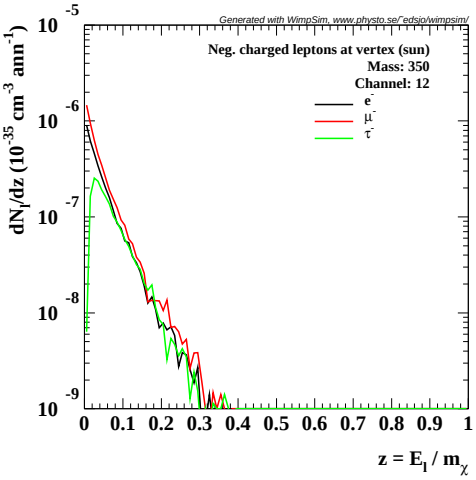
11.7 Channel 12 – gg

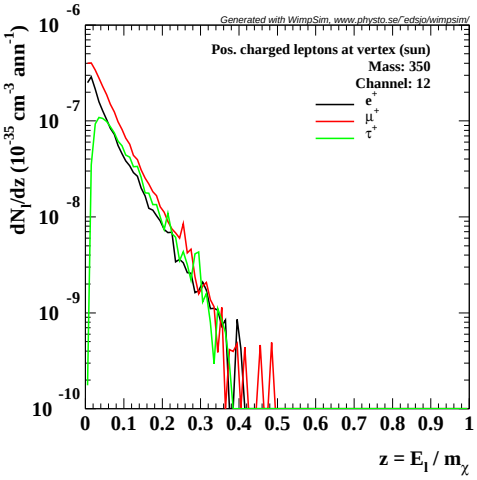
11.7.1 Neutrino fluxes at detector (Sun)



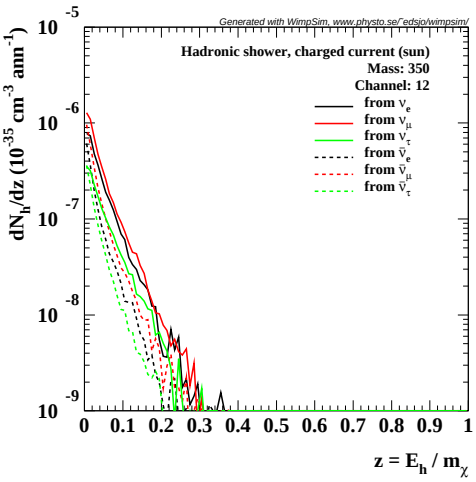


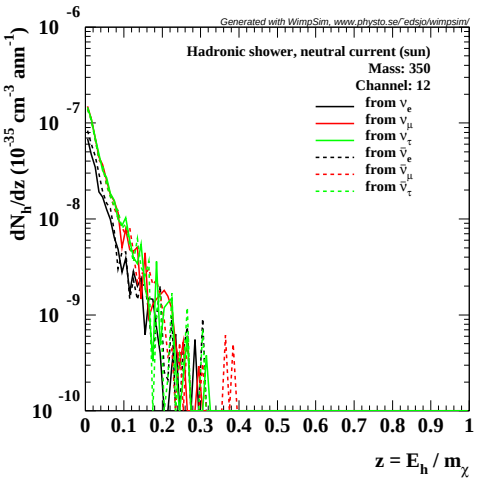
11.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



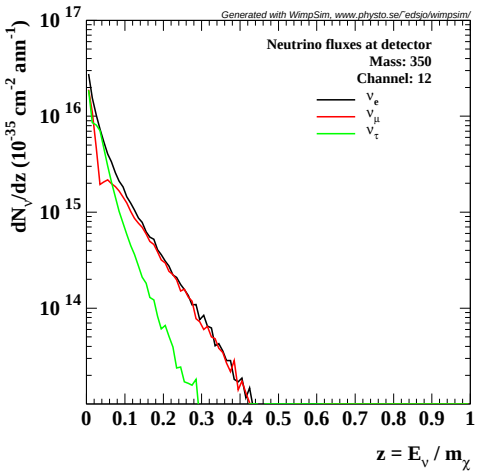


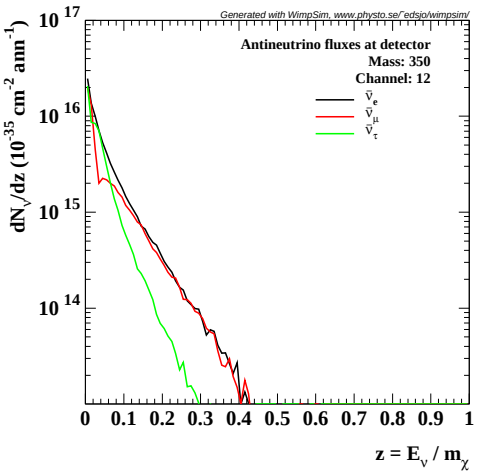
11.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



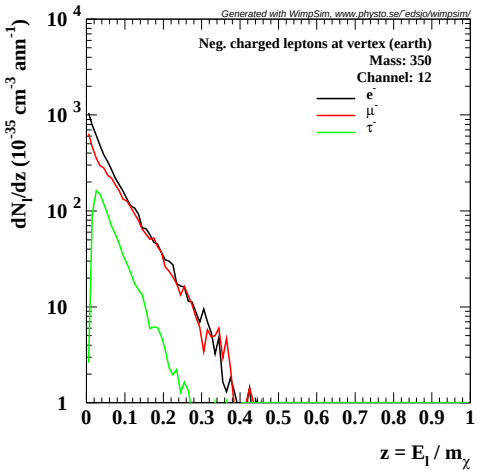


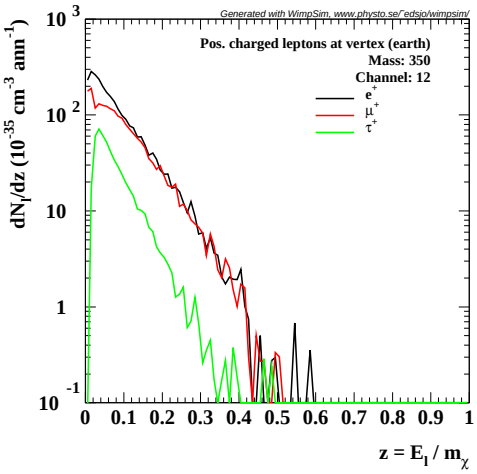
11.7.4 Neutrino fluxes at detector (Earth)



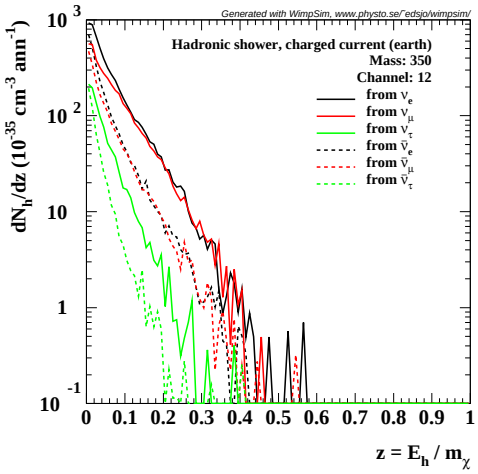


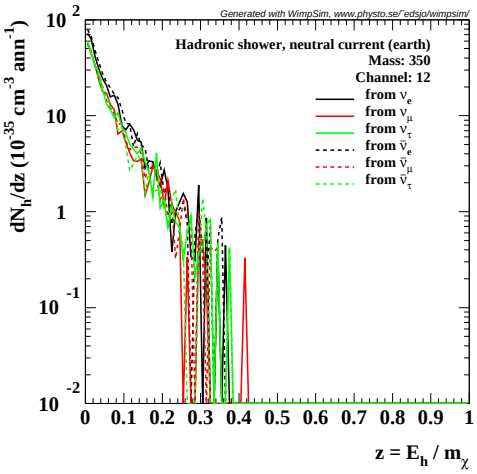
11.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



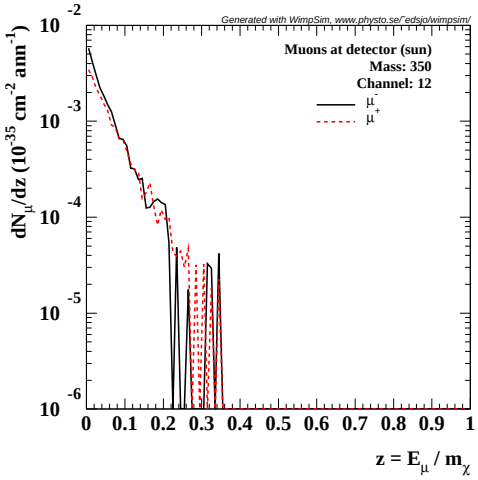


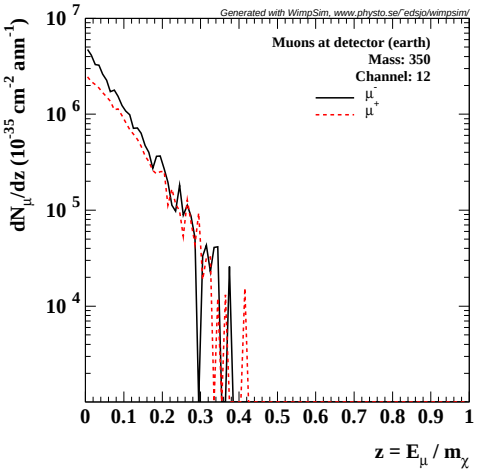
11.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





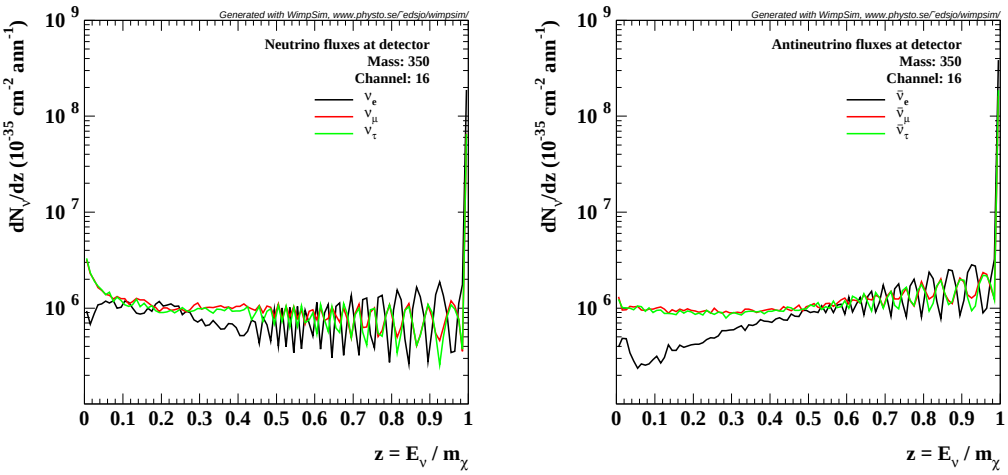
11.7.7 Muons at detector (Sun/Earth)



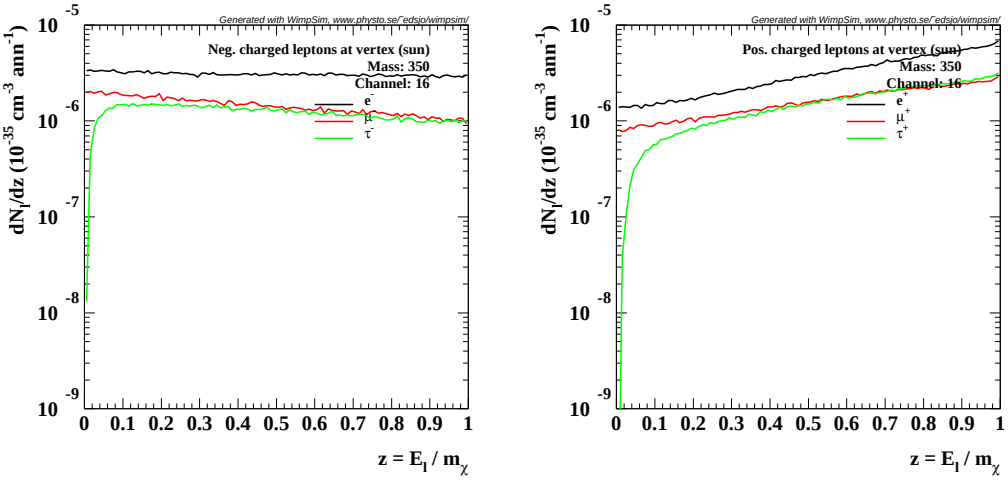


11.8 Channel 16 – $\nu_e\bar{\nu}_e$

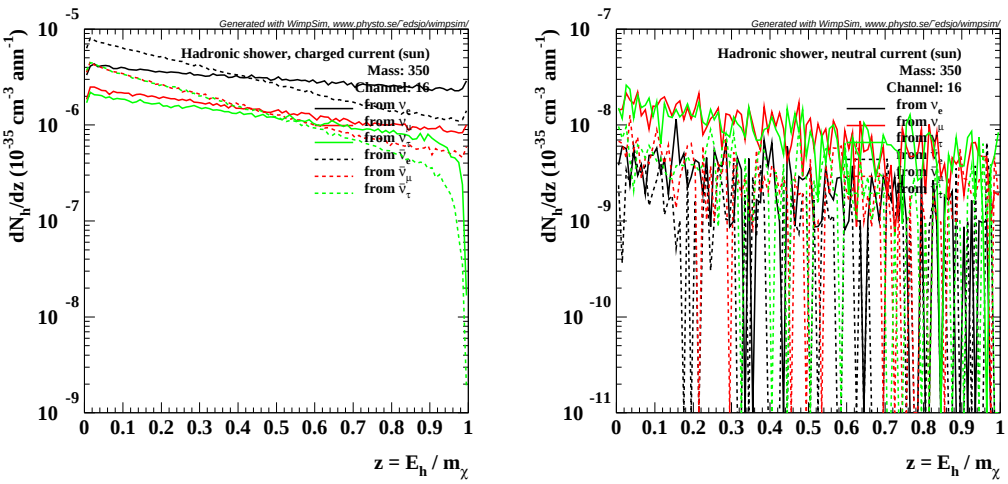
11.8.1 Neutrino fluxes at detector (Sun)



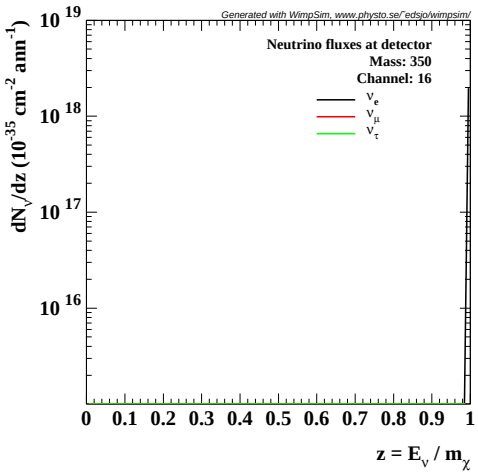
11.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

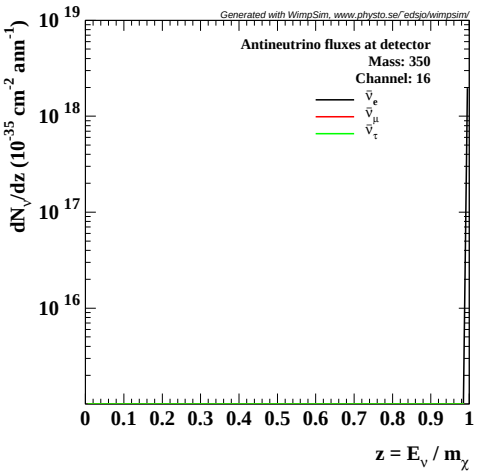


11.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

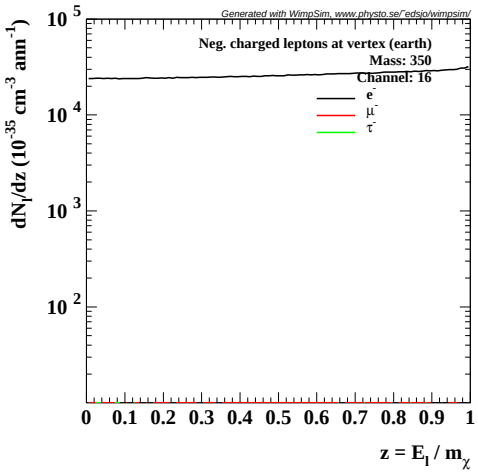


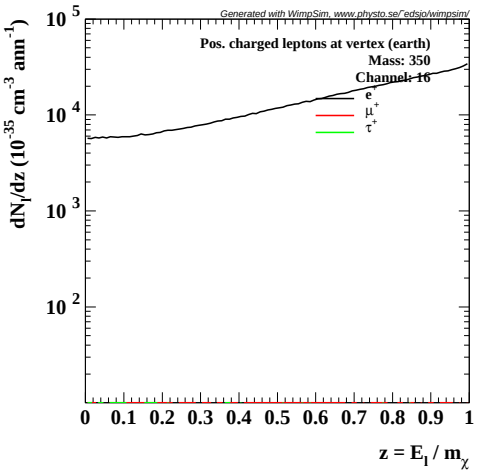
11.8.4 Neutrino fluxes at detector (Earth)



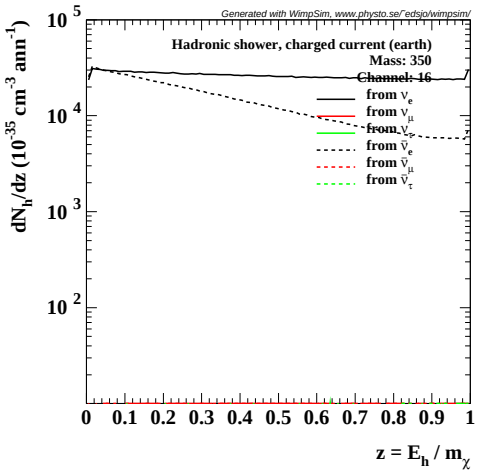


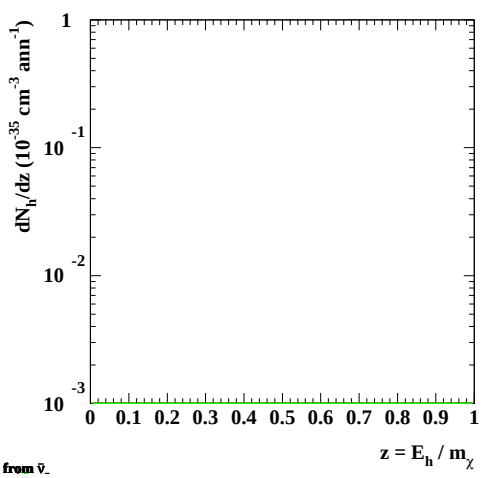
11.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





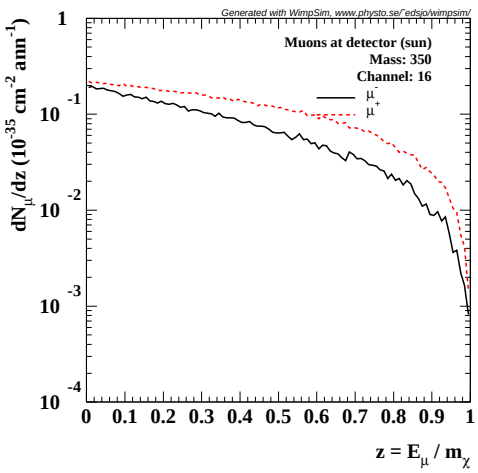
11.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

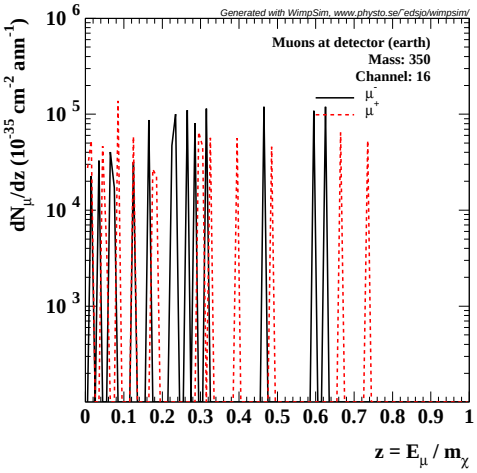




from $\bar{\nu}_\tau$

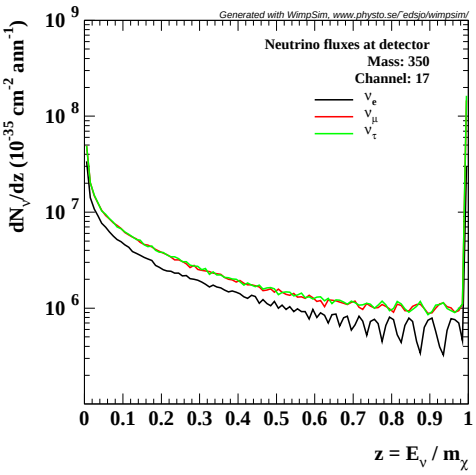
11.8.7 Muons at detector (Sun/Earth)

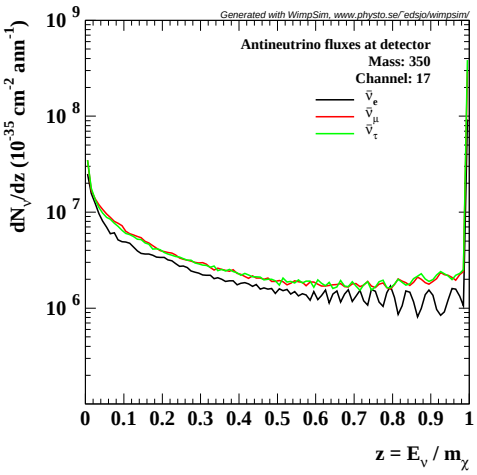




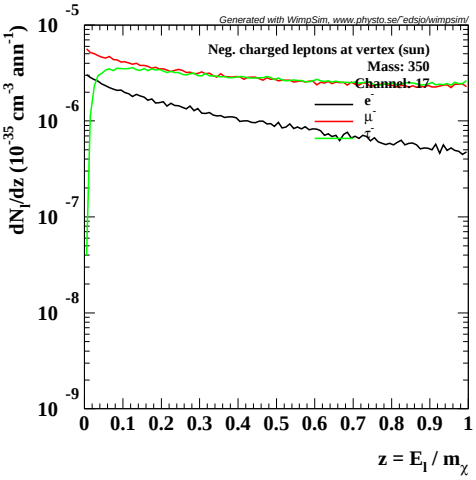
11.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

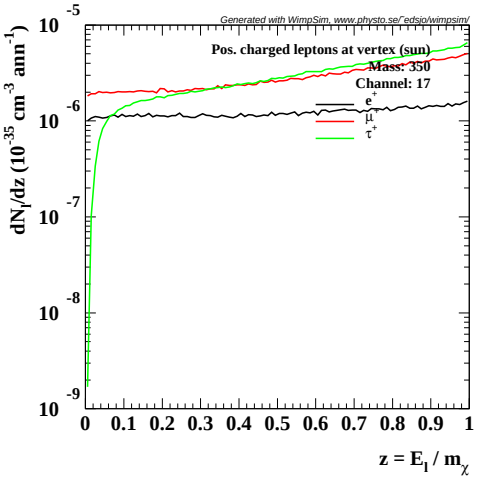
11.9.1 Neutrino fluxes at detector (Sun)



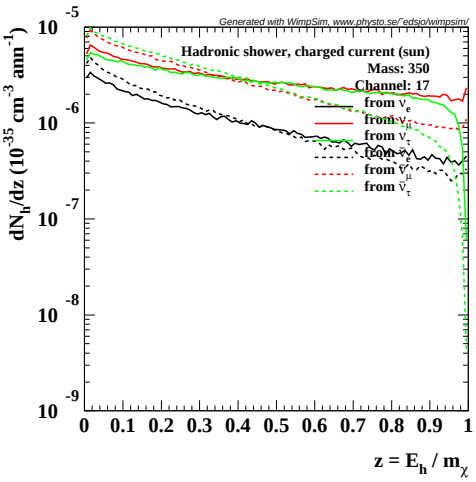


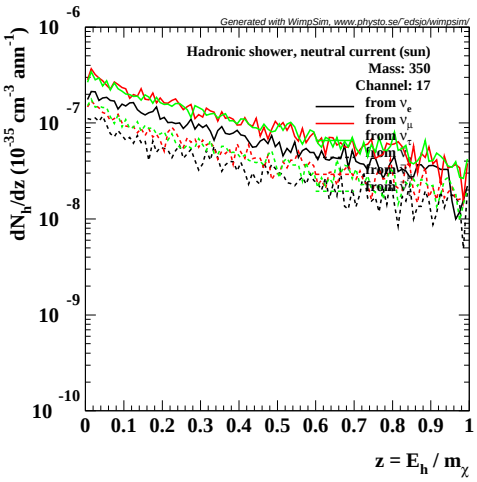
11.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



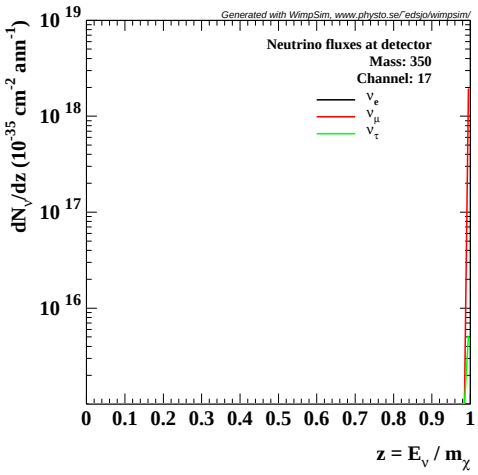


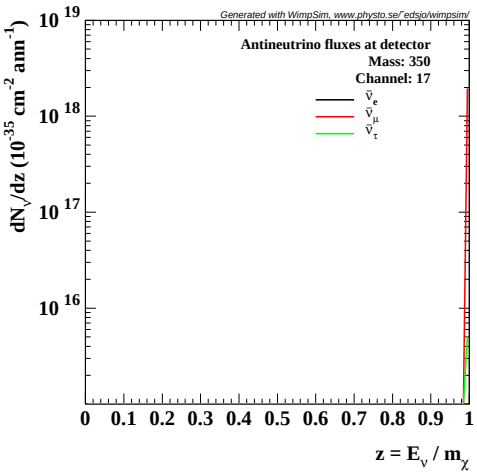
11.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



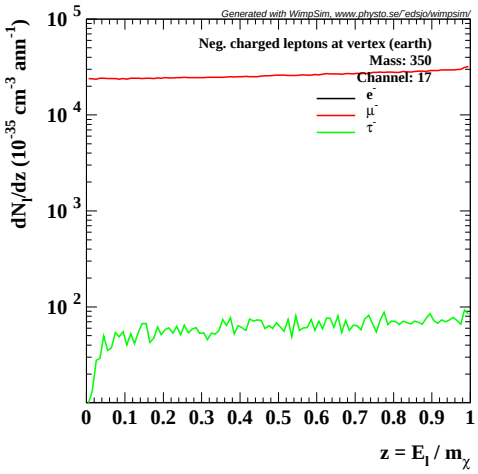


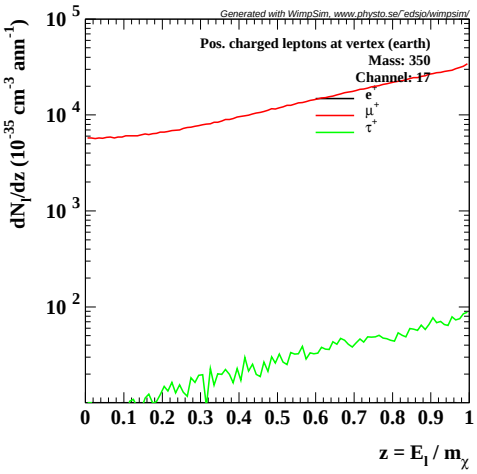
11.9.4 Neutrino fluxes at detector (Earth)



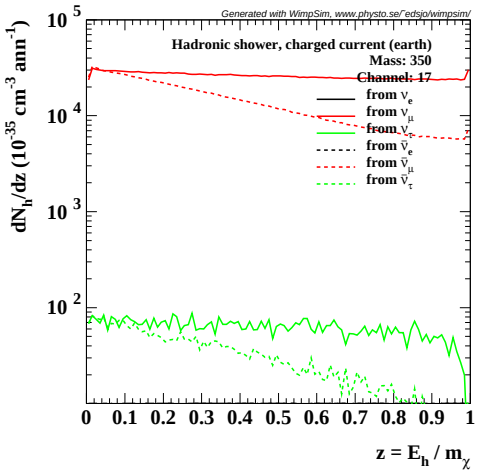


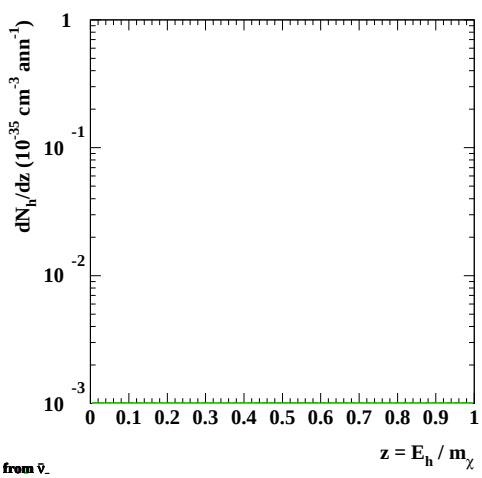
11.9.5 Charged leptons at neutrino-nucleon vertex (Earth)





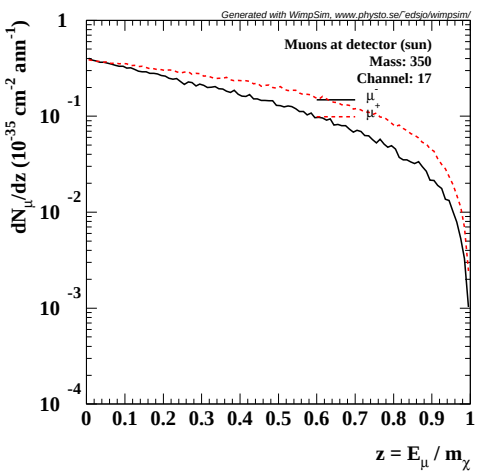
11.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)

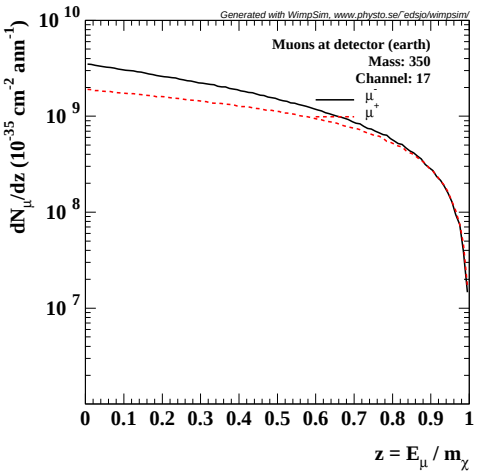




from $\bar{\nu}_\tau$

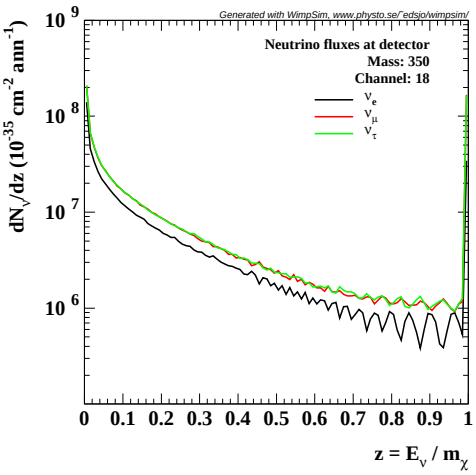
11.9.7 Muons at detector (Sun/Earth)

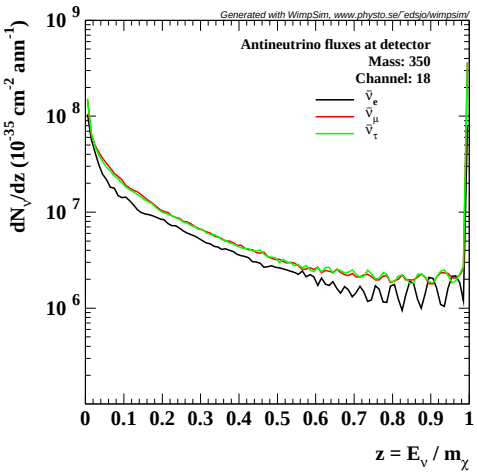




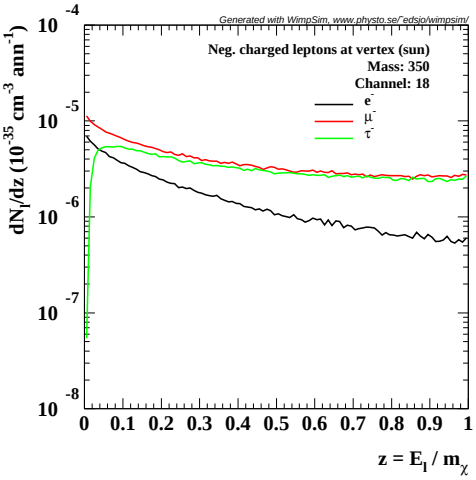
11.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

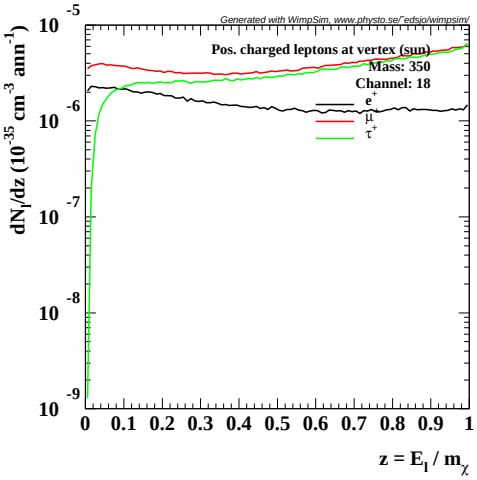
11.10.1 Neutrino fluxes at detector (Sun)



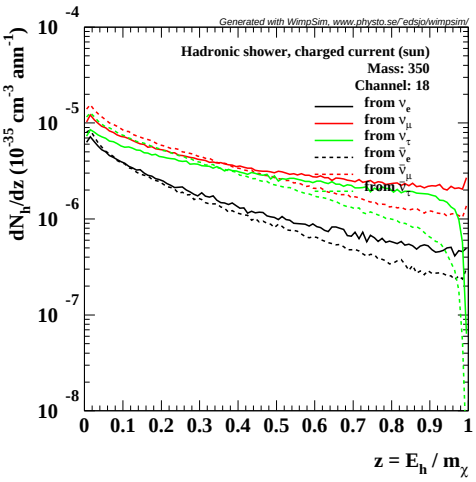


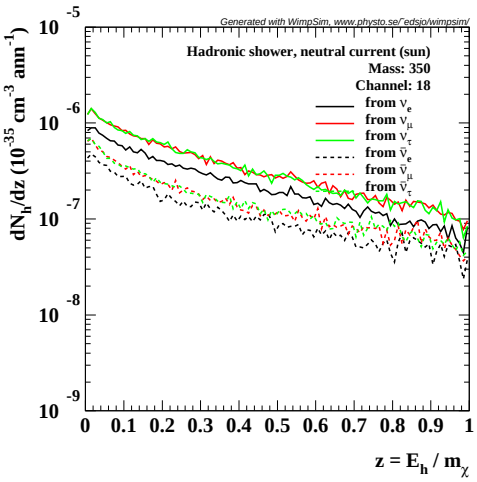
11.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



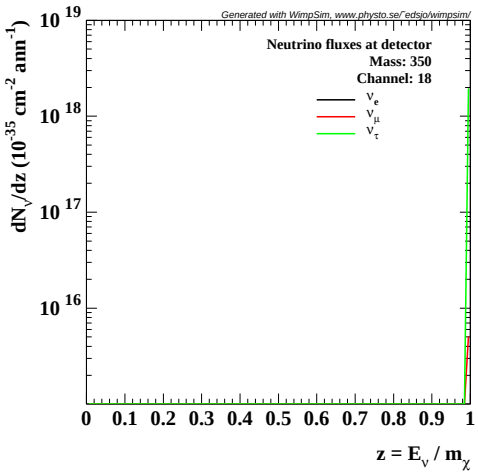


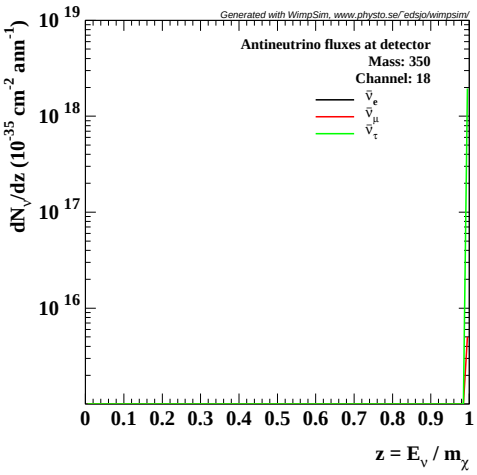
11.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



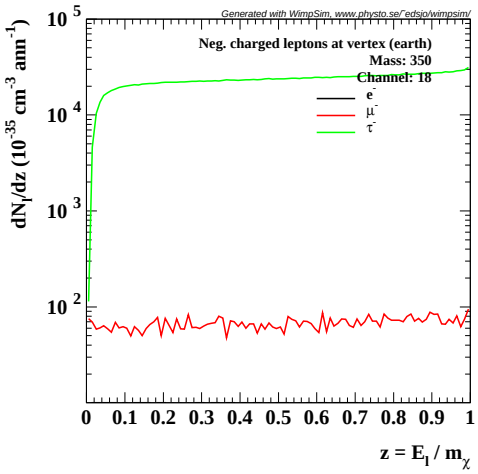


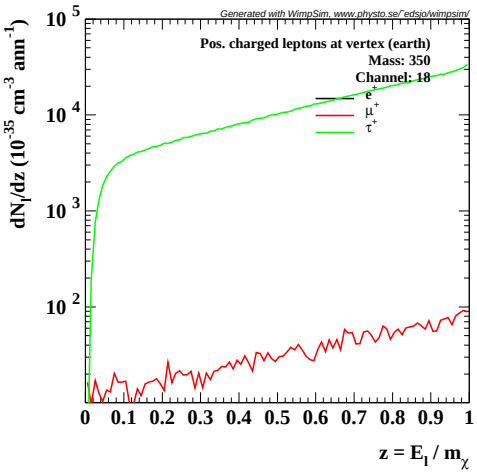
11.10.4 Neutrino fluxes at detector (Earth)



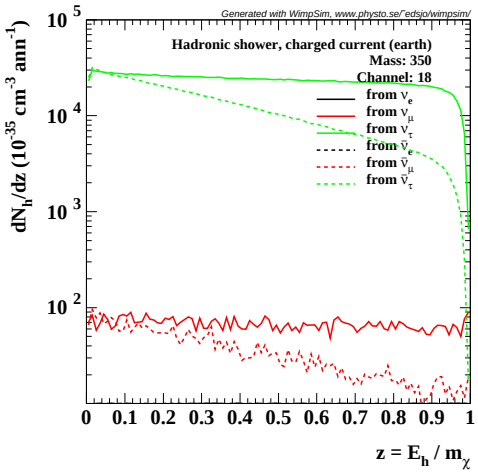


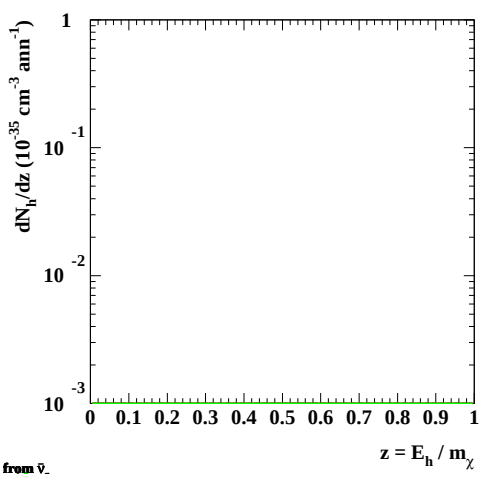
11.10.5 Charged leptons at neutrino-nucleon vertex (Earth)



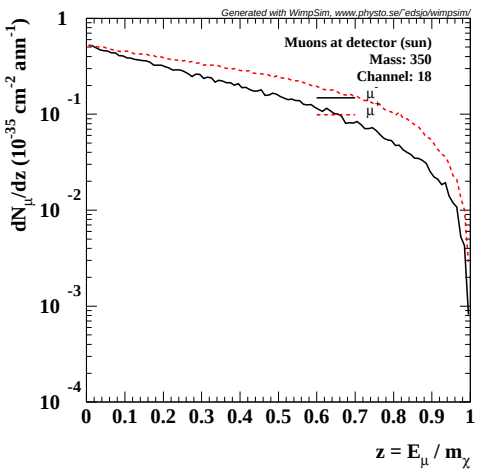


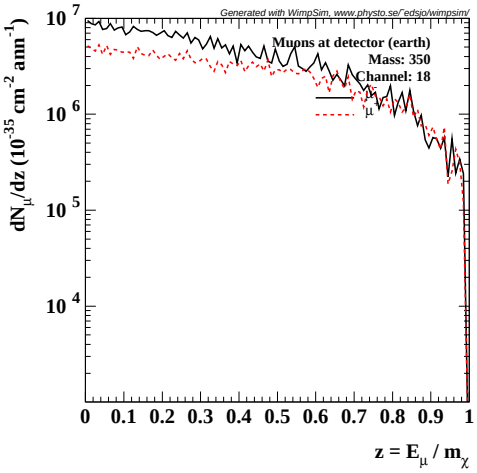
11.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)





11.10.7 Muons at detector (Sun/Earth)

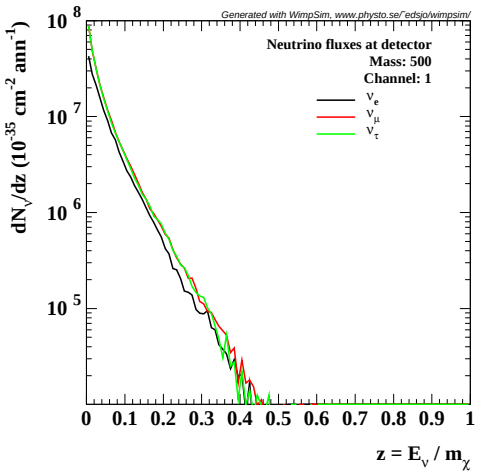


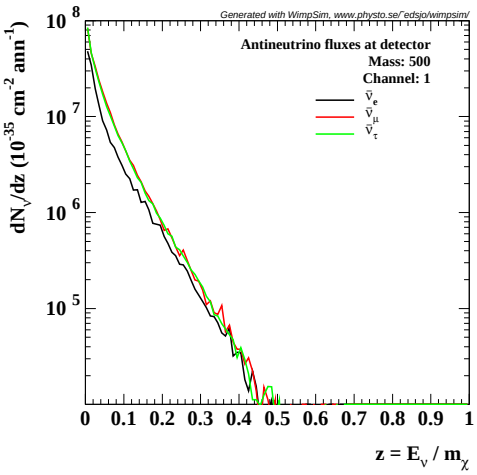


12 Mass 500

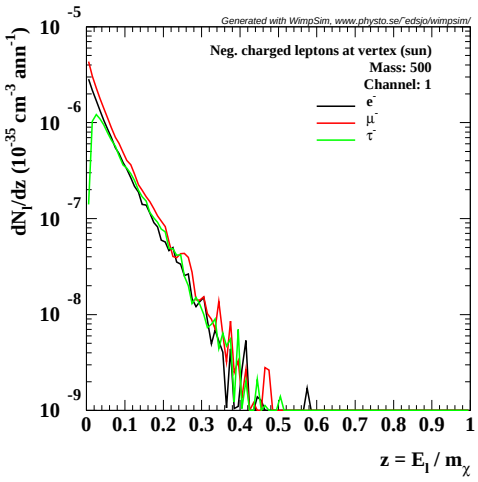
12.1 Channel 1 – $c\bar{c}$

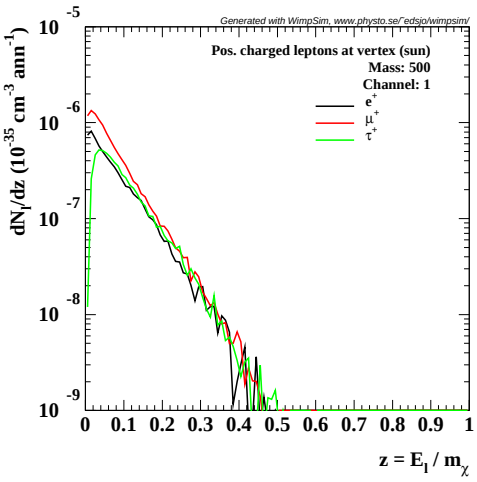
12.1.1 Neutrino fluxes at detector (Sun)



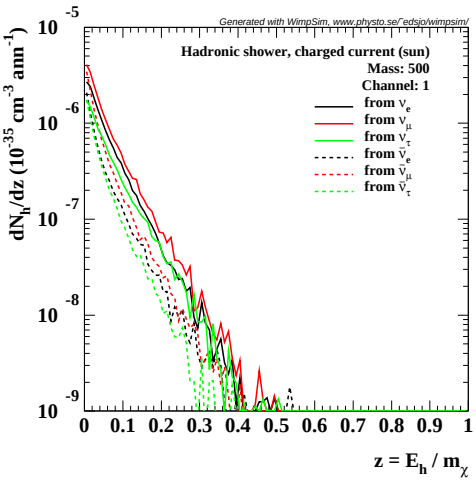


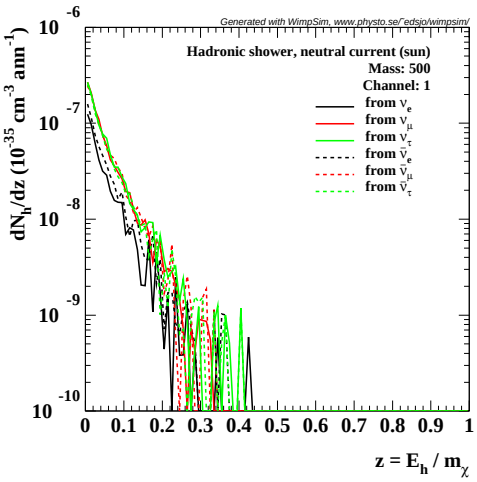
12.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



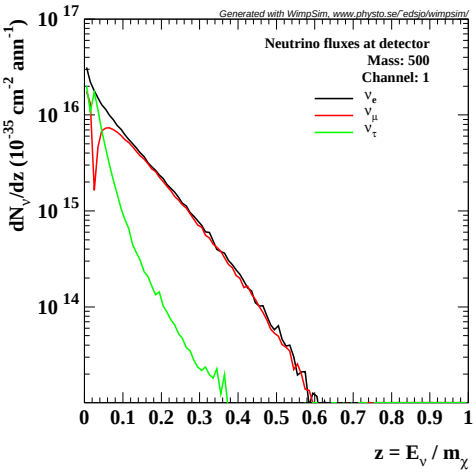


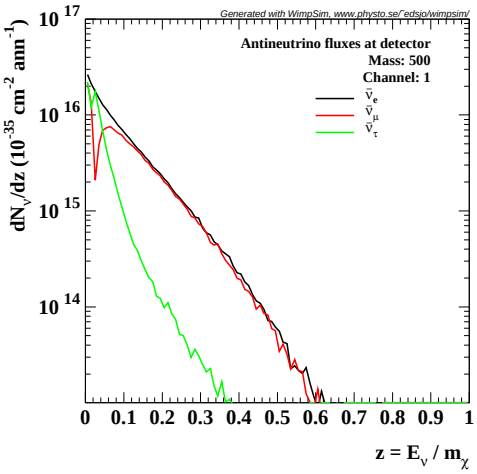
12.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



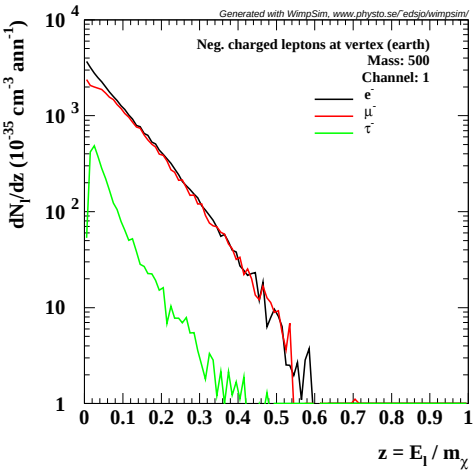


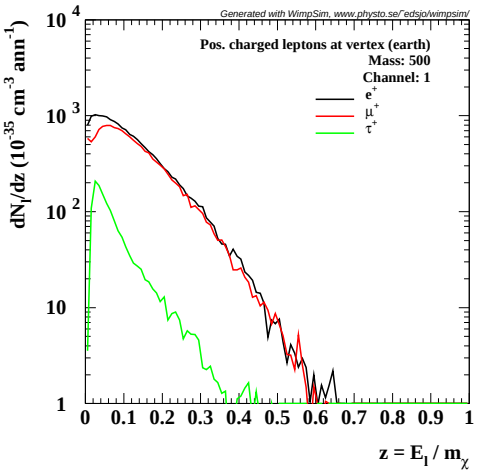
12.1.4 Neutrino fluxes at detector (Earth)



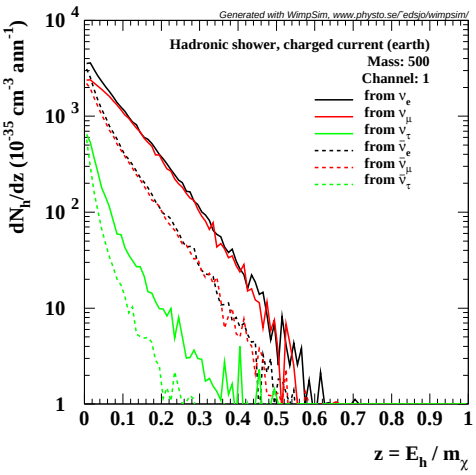


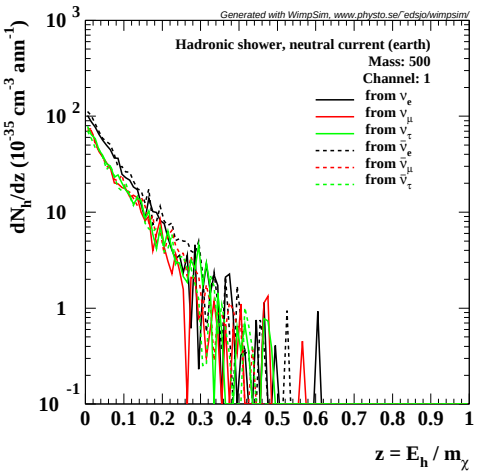
12.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



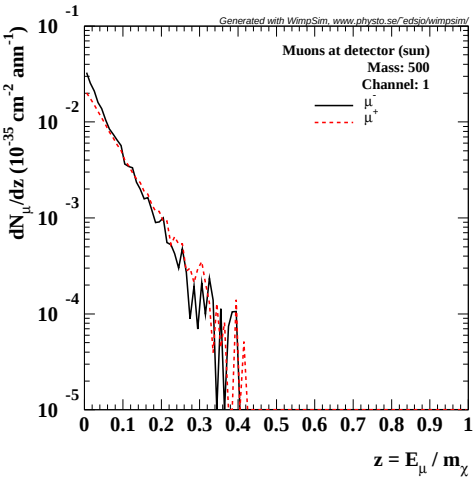


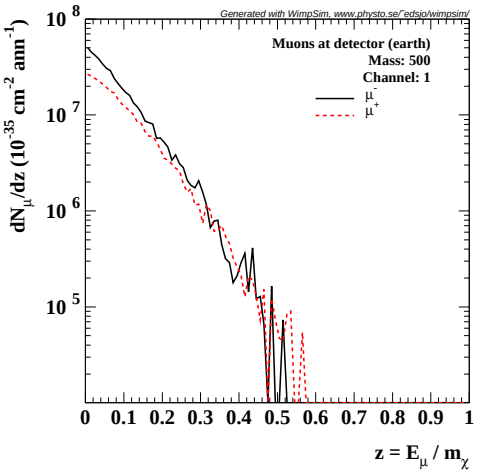
12.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





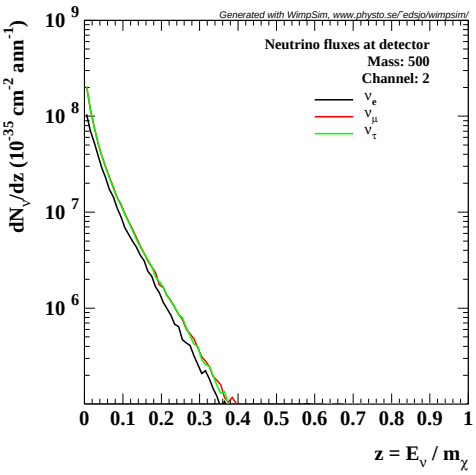
12.1.7 Muons at detector (Sun/Earth)

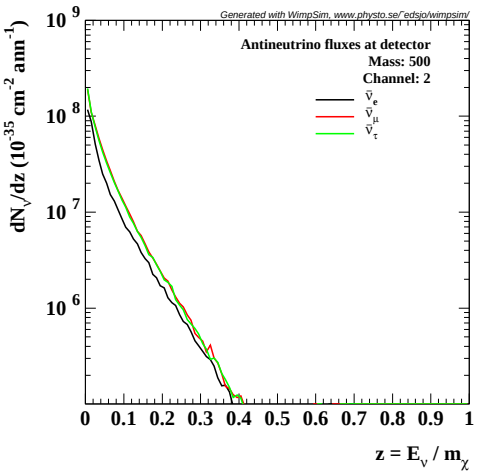




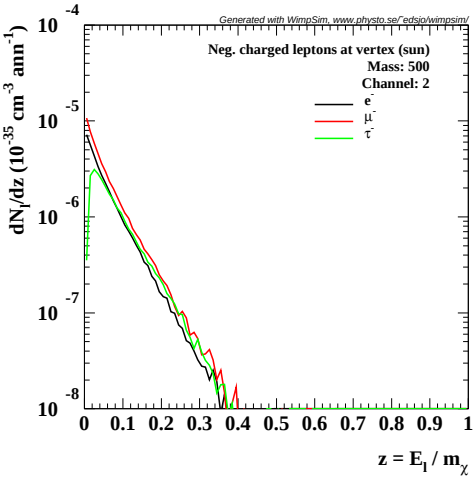
12.2 Channel 2 – $b\bar{b}$

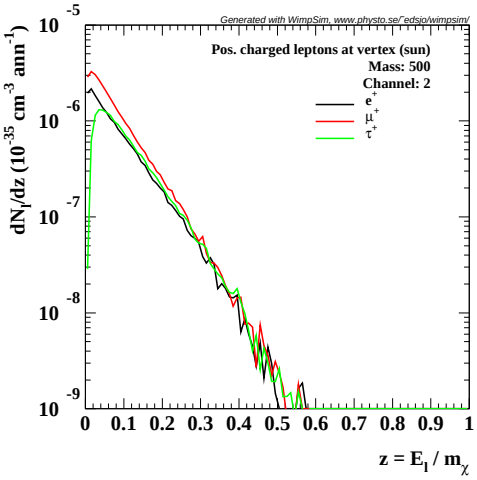
12.2.1 Neutrino fluxes at detector (Sun)



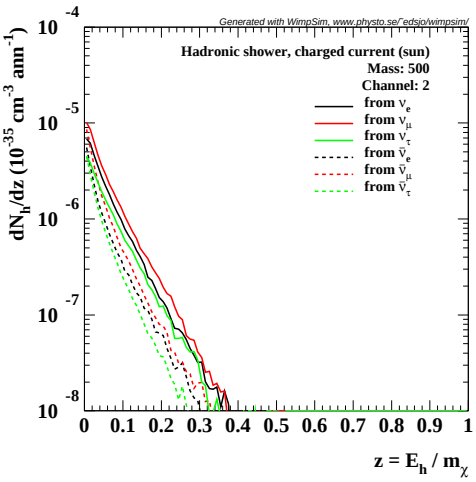


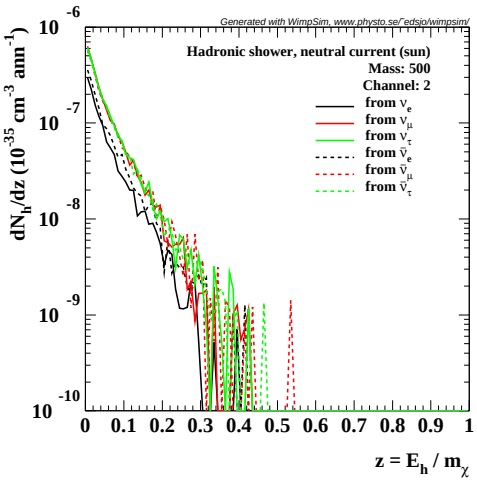
12.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



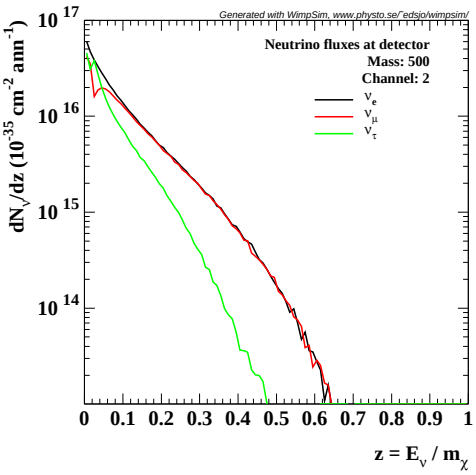


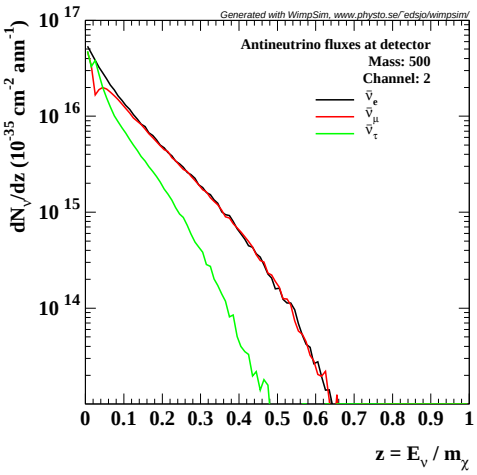
12.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



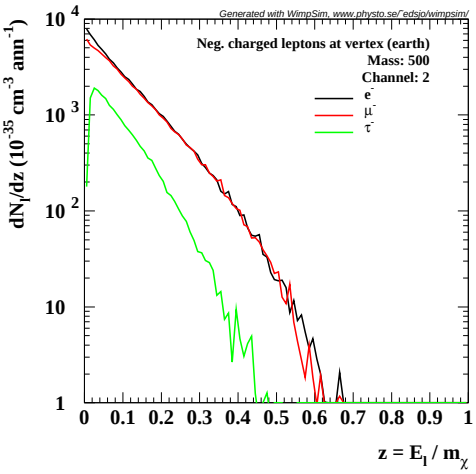


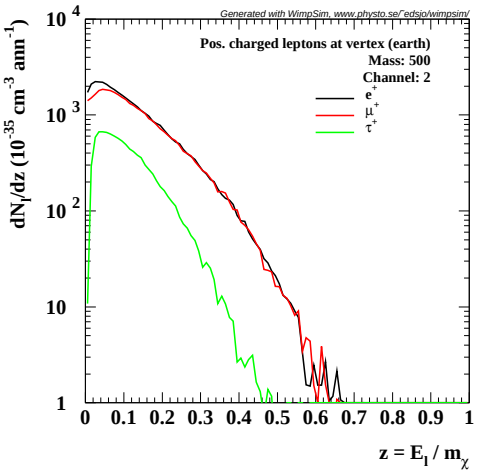
12.2.4 Neutrino fluxes at detector (Earth)



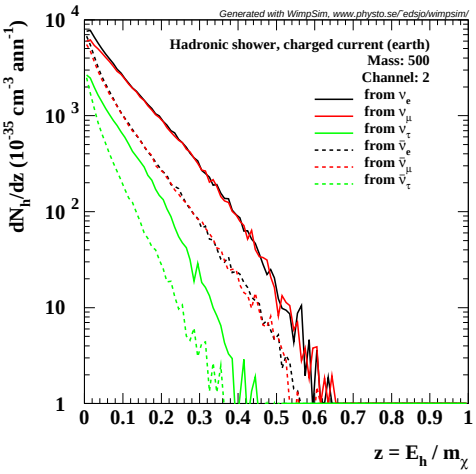


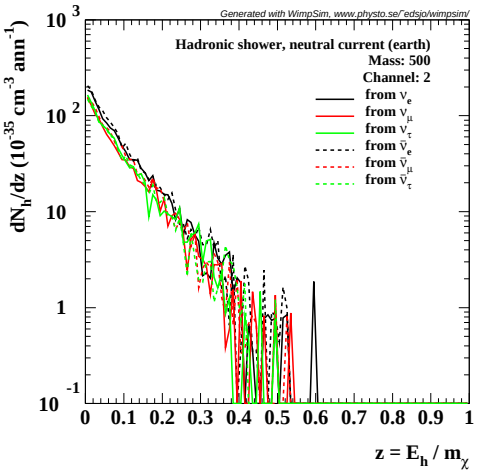
12.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



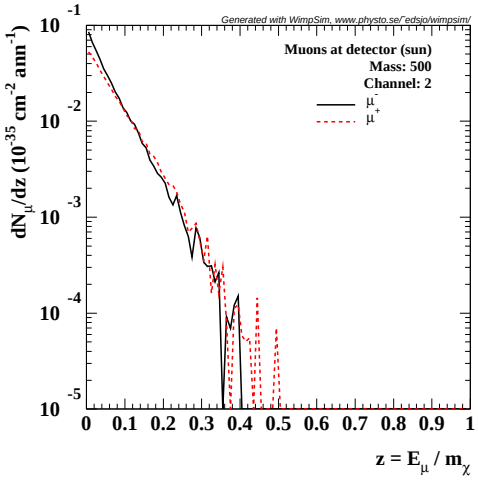


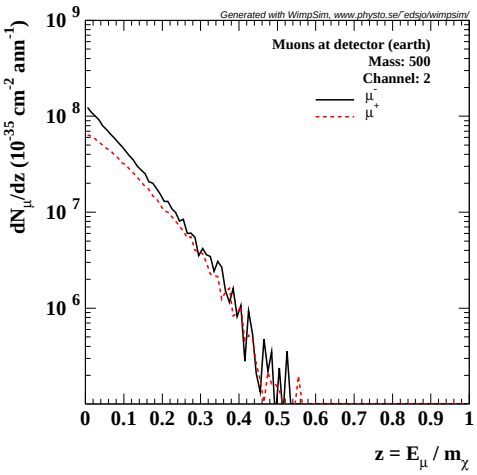
12.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





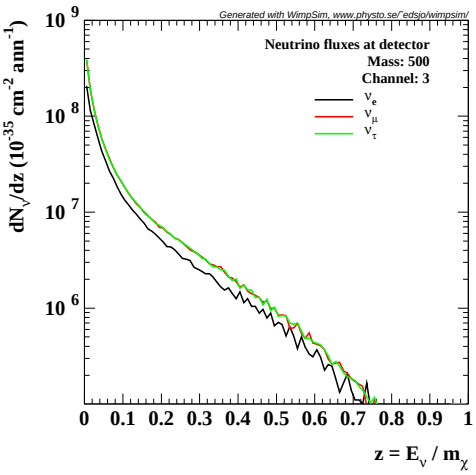
12.2.7 Muons at detector (Sun/Earth)

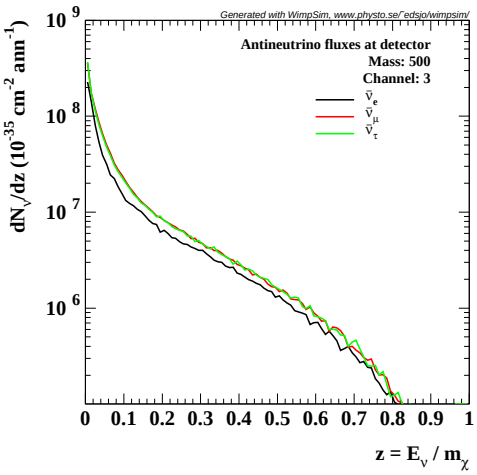




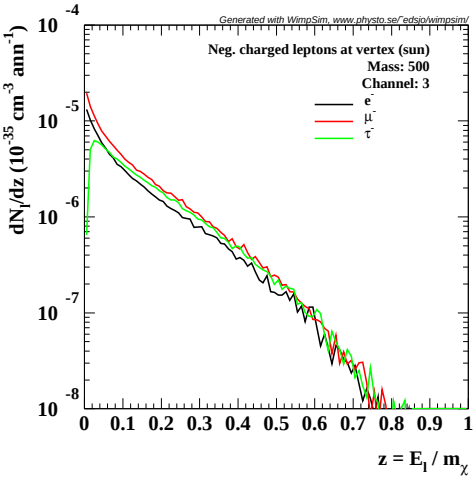
12.3 Channel 3 – $t\bar{t}$

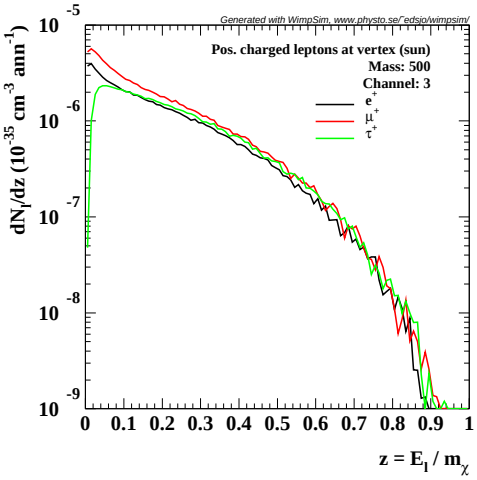
12.3.1 Neutrino fluxes at detector (Sun)



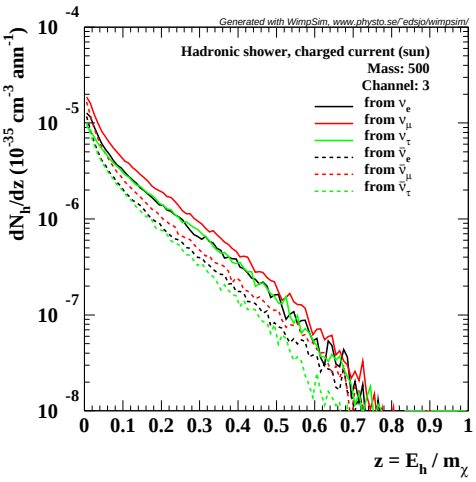


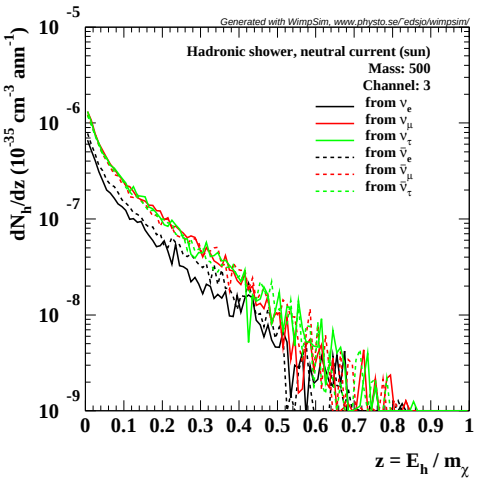
12.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



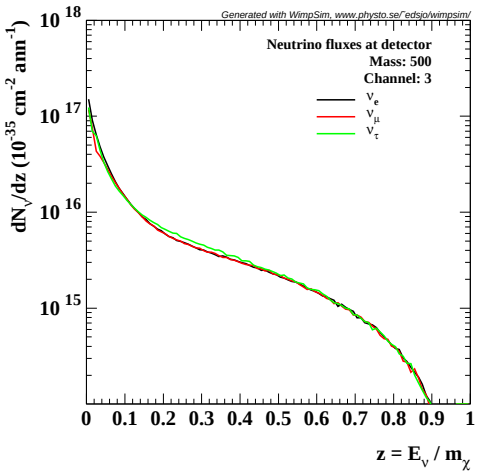


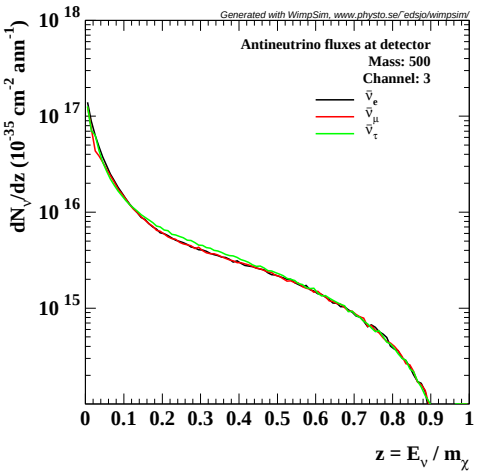
12.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



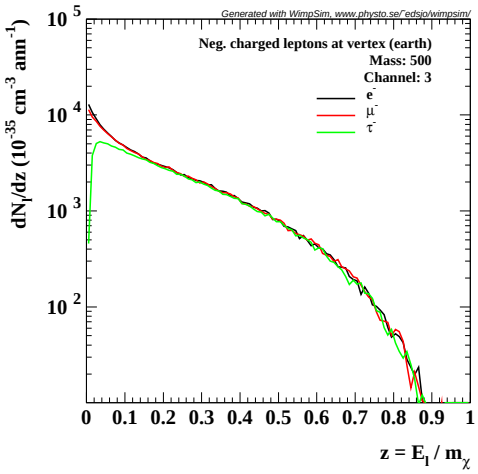


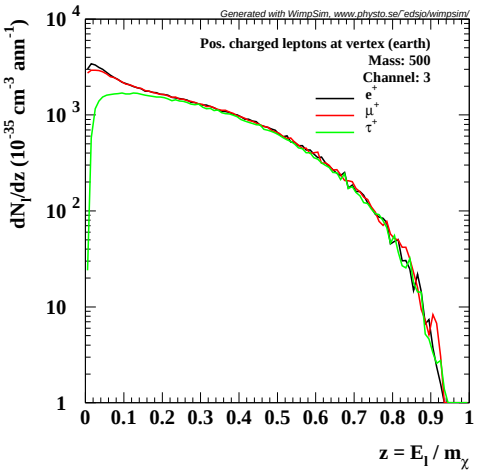
12.3.4 Neutrino fluxes at detector (Earth)



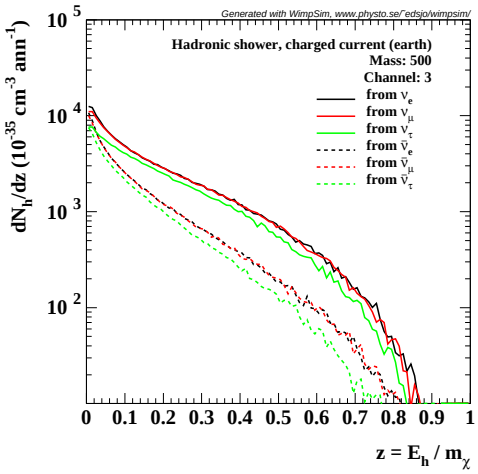


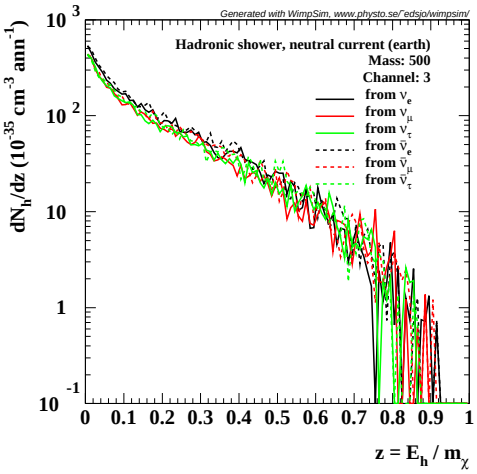
12.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



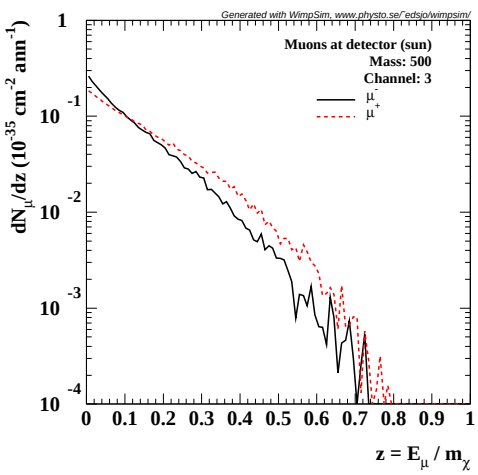


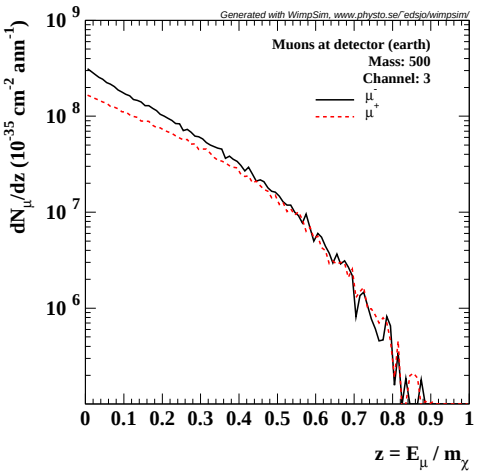
12.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





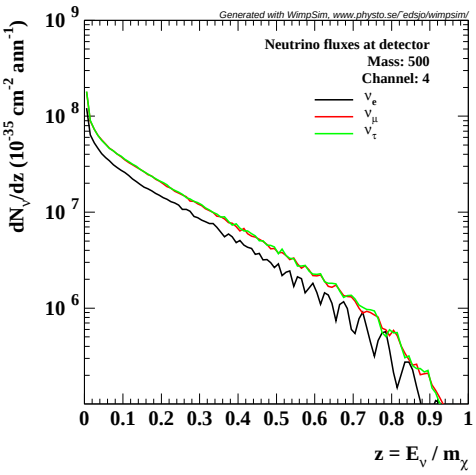
12.3.7 Muons at detector (Sun/Earth)

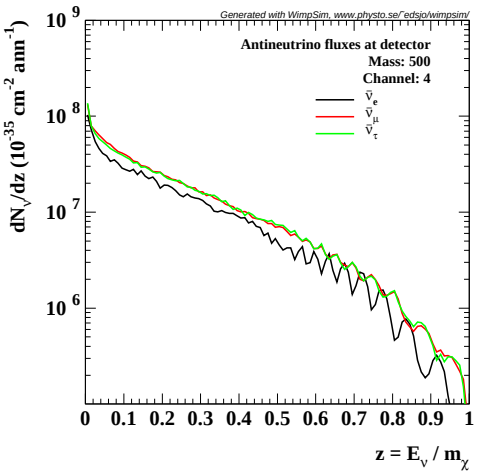




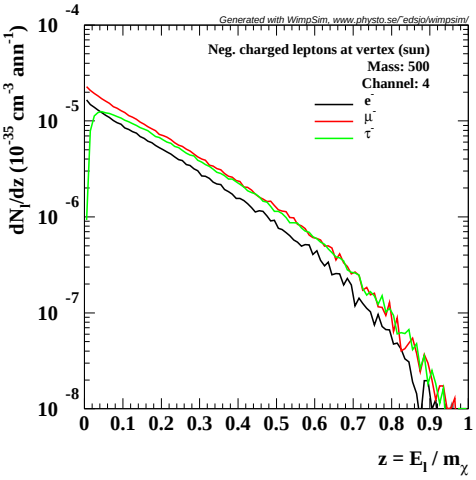
12.4 Channel 4 – $\tau^-\tau^+$

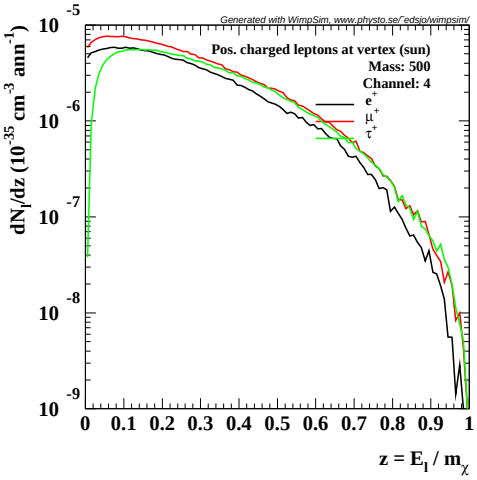
12.4.1 Neutrino fluxes at detector (Sun)



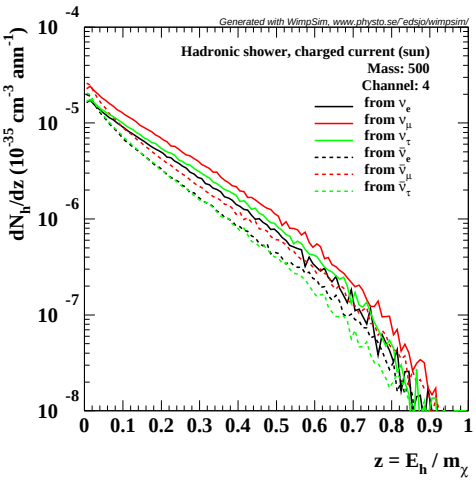


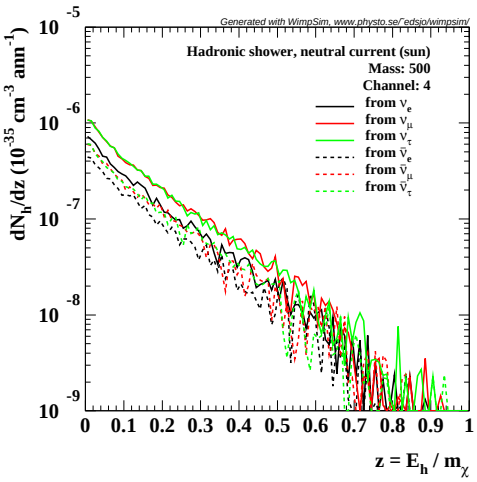
12.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



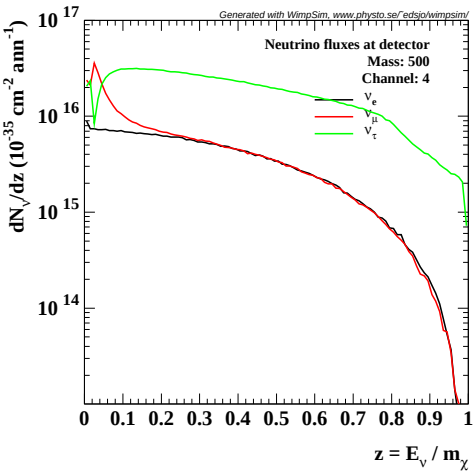


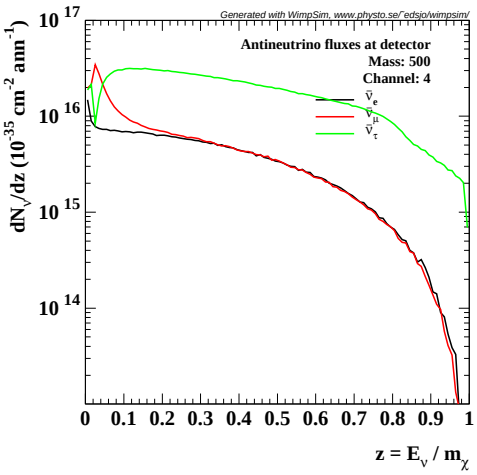
12.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



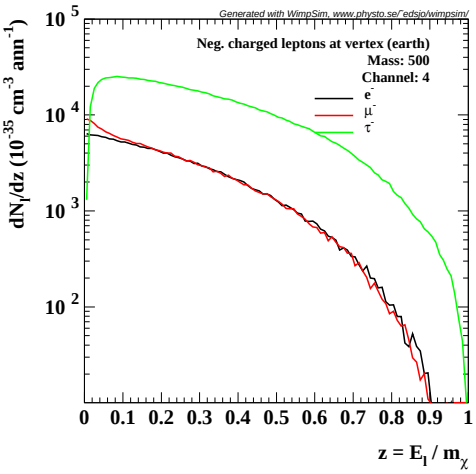


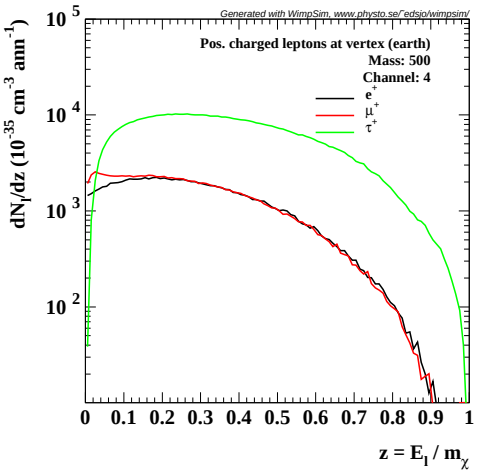
12.4.4 Neutrino fluxes at detector (Earth)



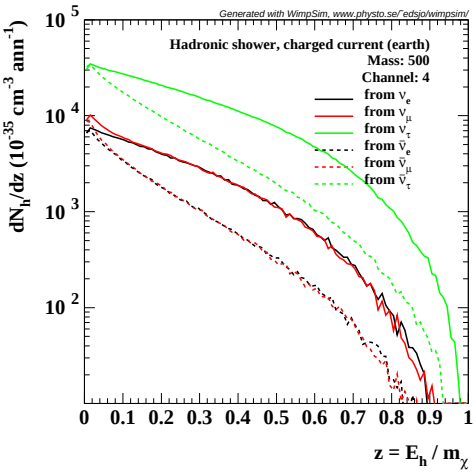


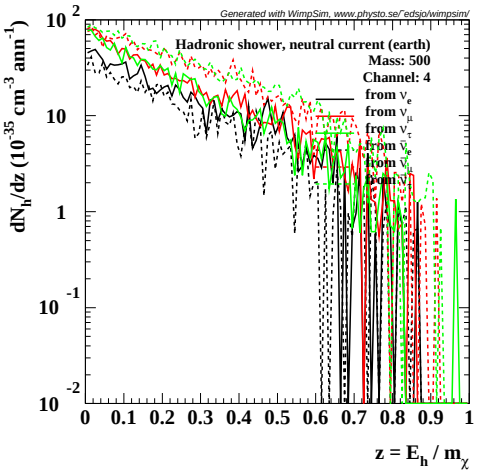
12.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



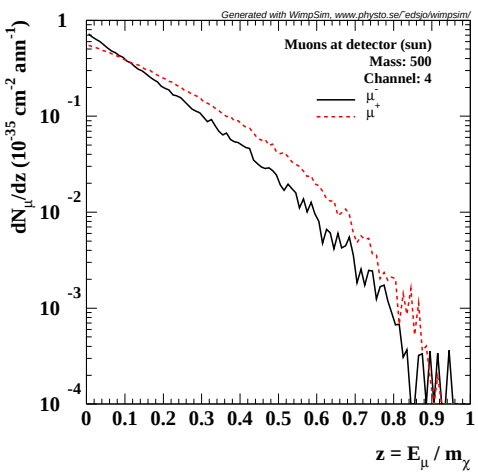


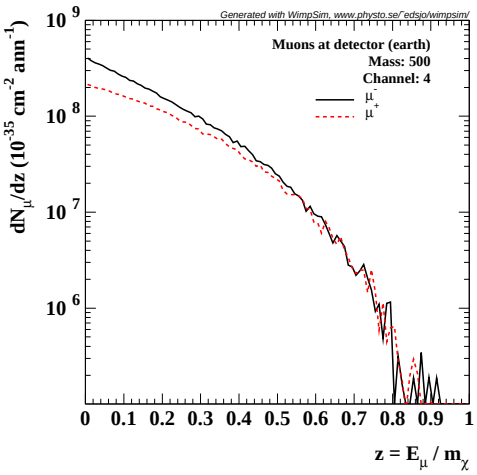
12.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





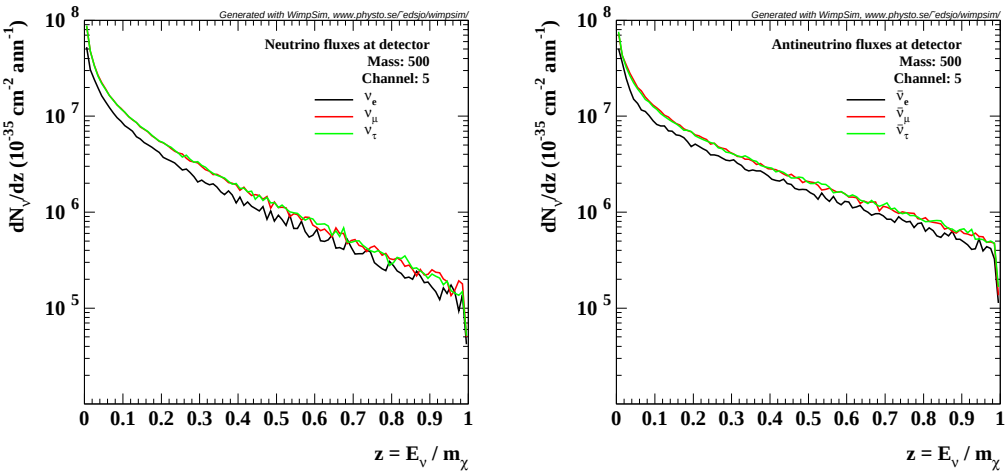
12.4.7 Muons at detector (Sun/Earth)



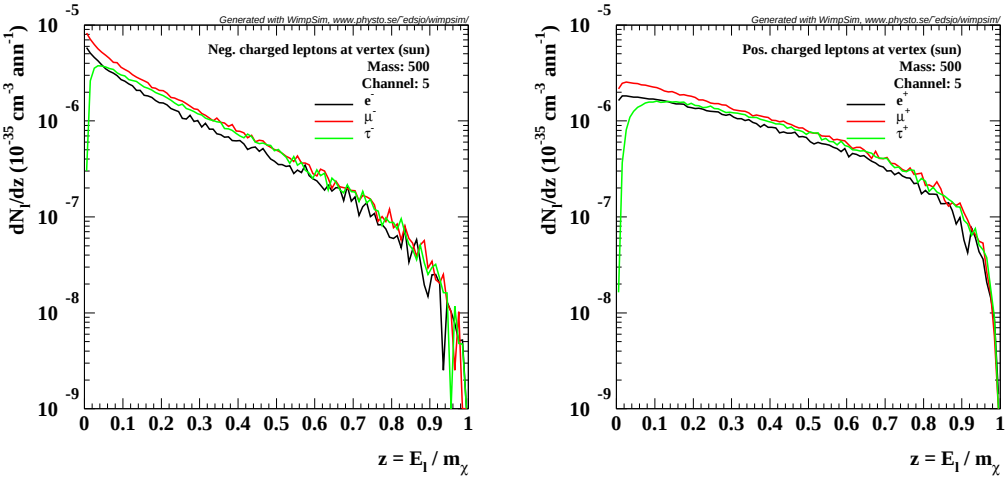


12.5 Channel 5 – W^-W^+

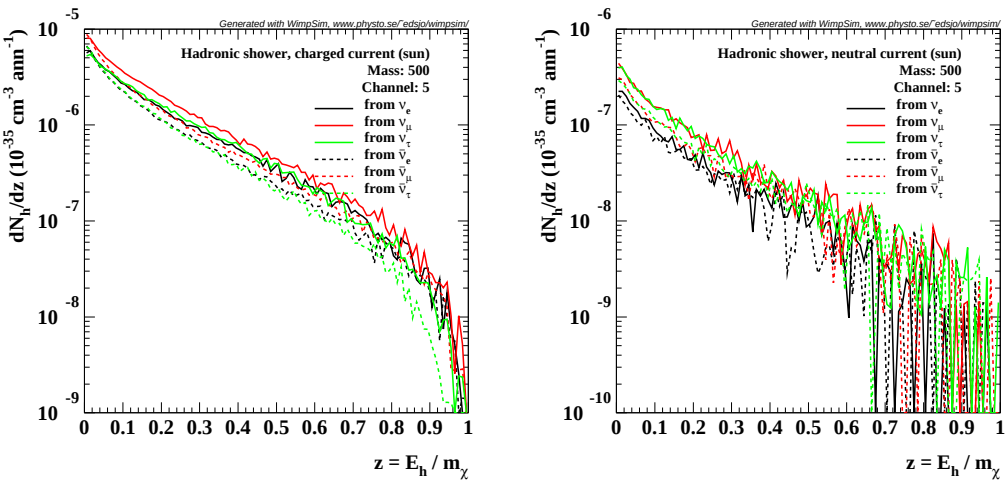
12.5.1 Neutrino fluxes at detector (Sun)



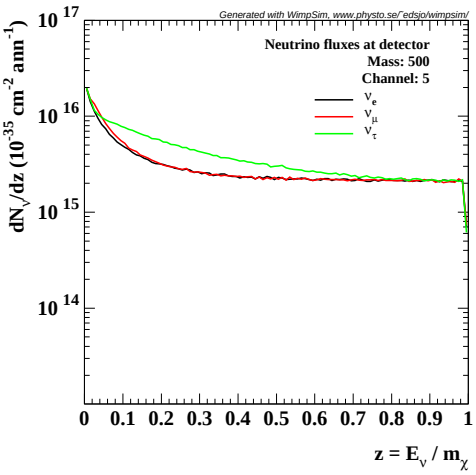
12.5.2 Charged leptons at neutrino-nucleon vertex (Sun)

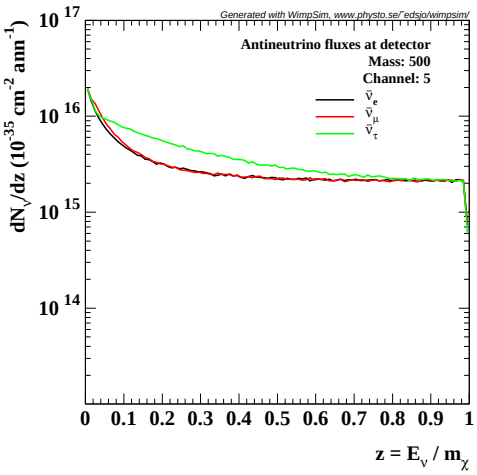


12.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

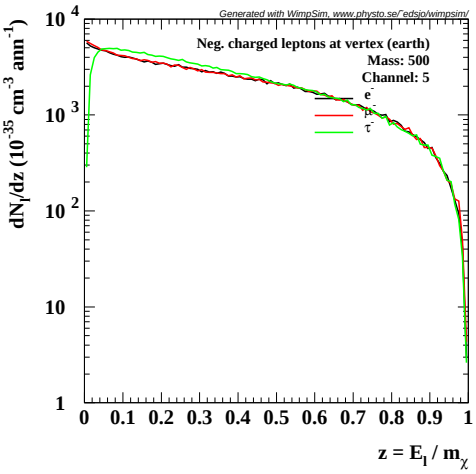


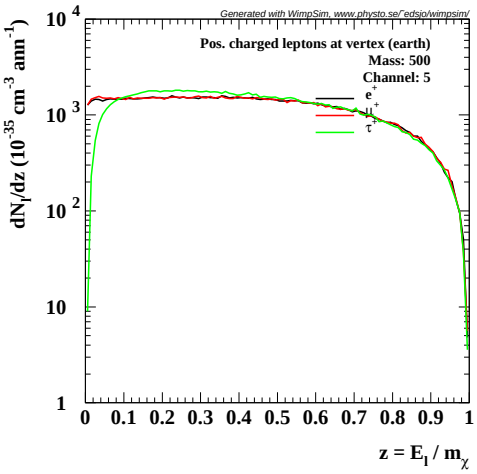
12.5.4 Neutrino fluxes at detector (Earth)



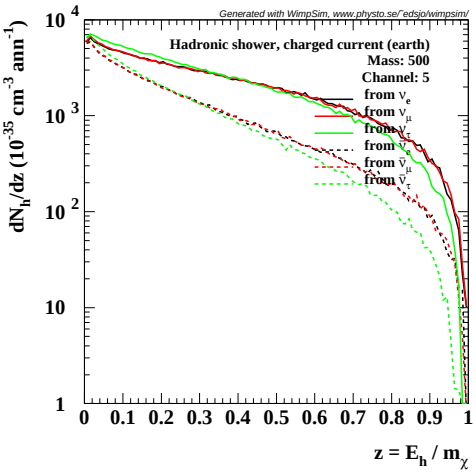


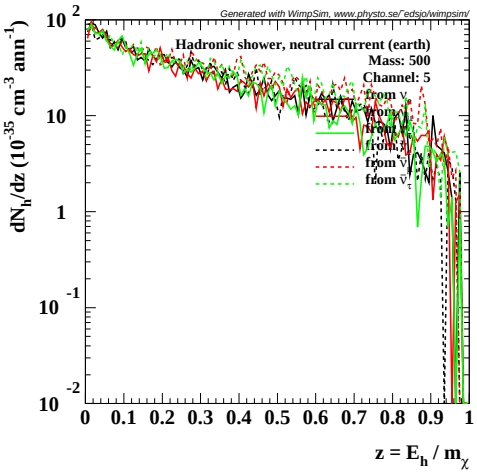
12.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



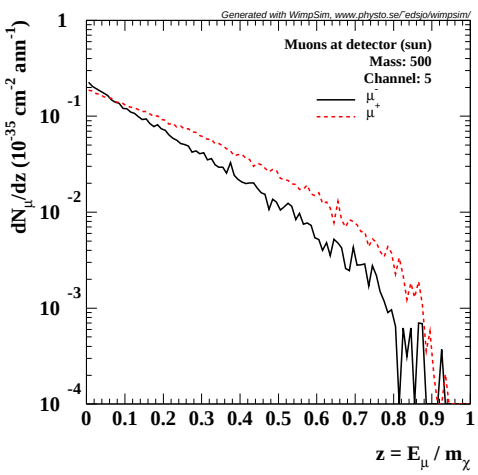


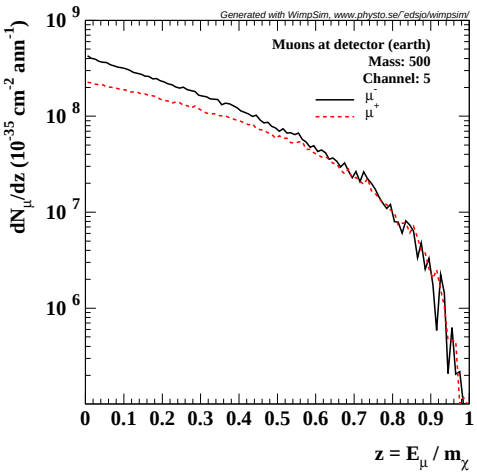
12.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





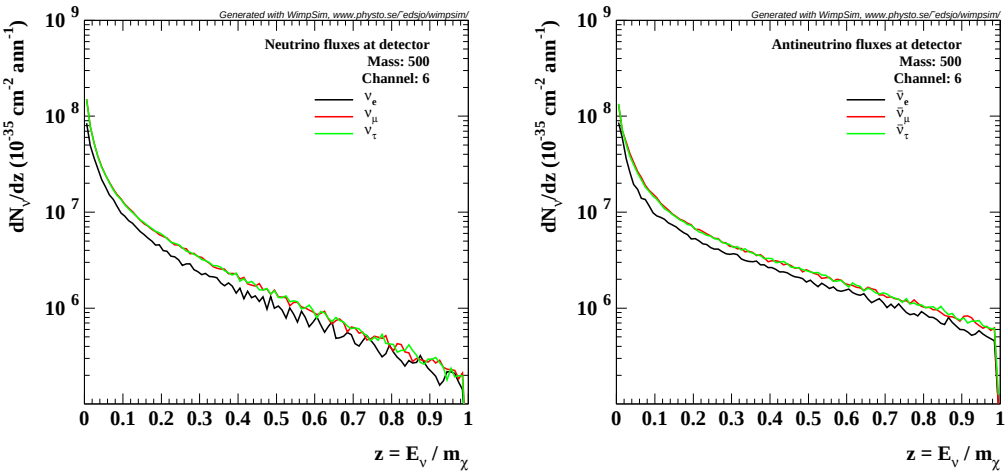
12.5.7 Muons at detector (Sun/Earth)



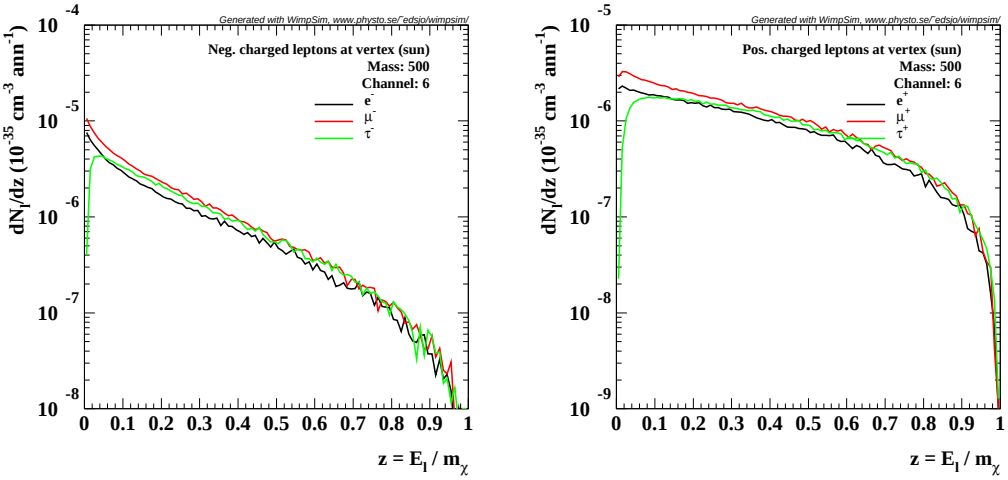


12.6 Channel 6 – $Z^0 Z^0$

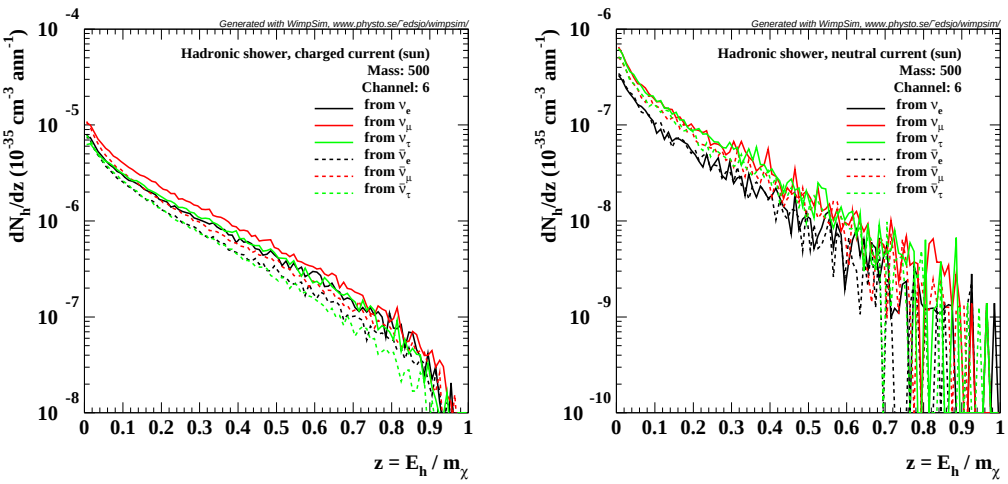
12.6.1 Neutrino fluxes at detector (Sun)



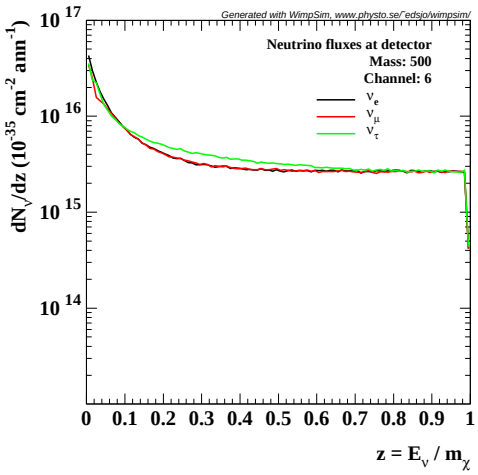
12.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

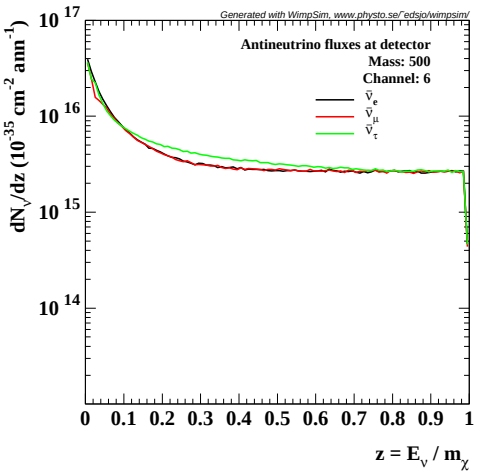


12.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

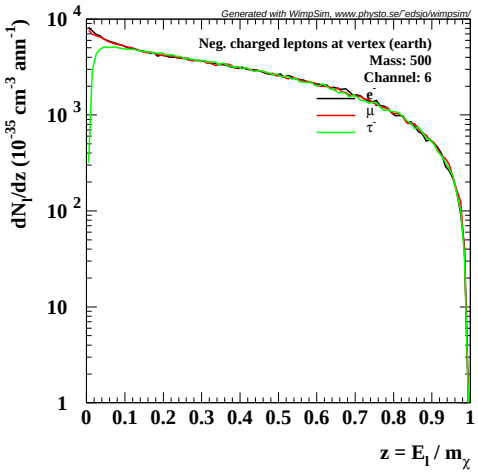


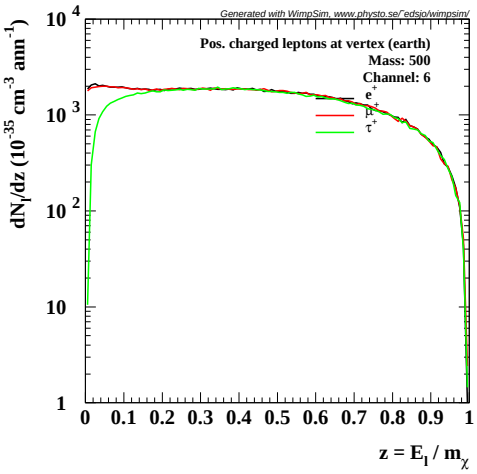
12.6.4 Neutrino fluxes at detector (Earth)



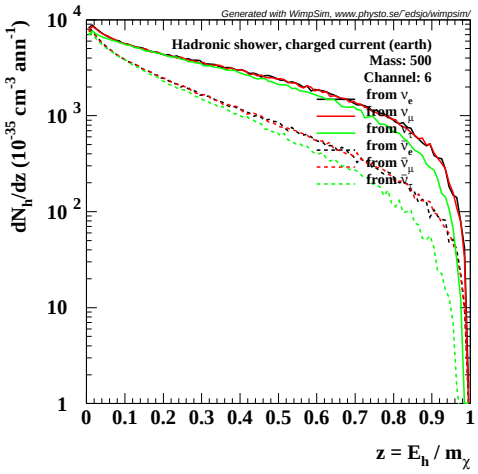


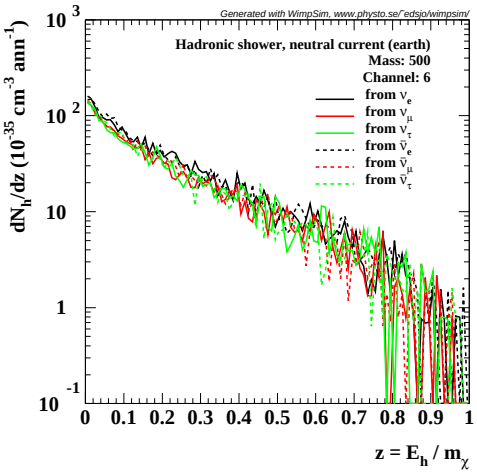
12.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



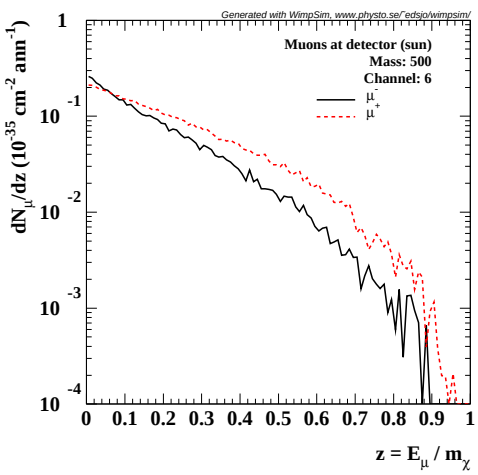


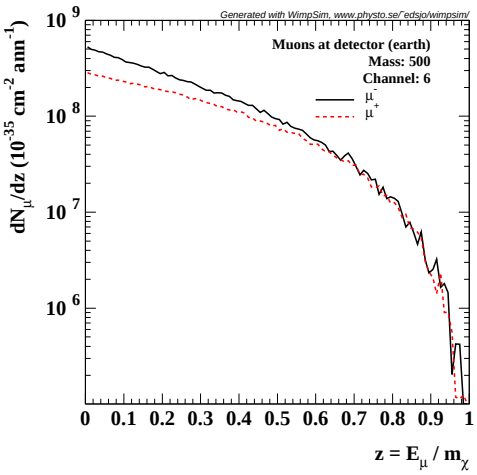
12.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





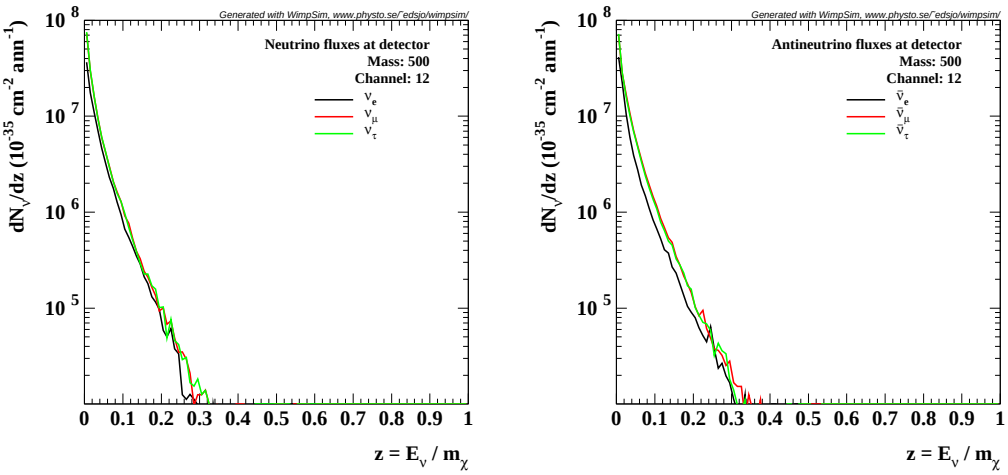
12.6.7 Muons at detector (Sun/Earth)



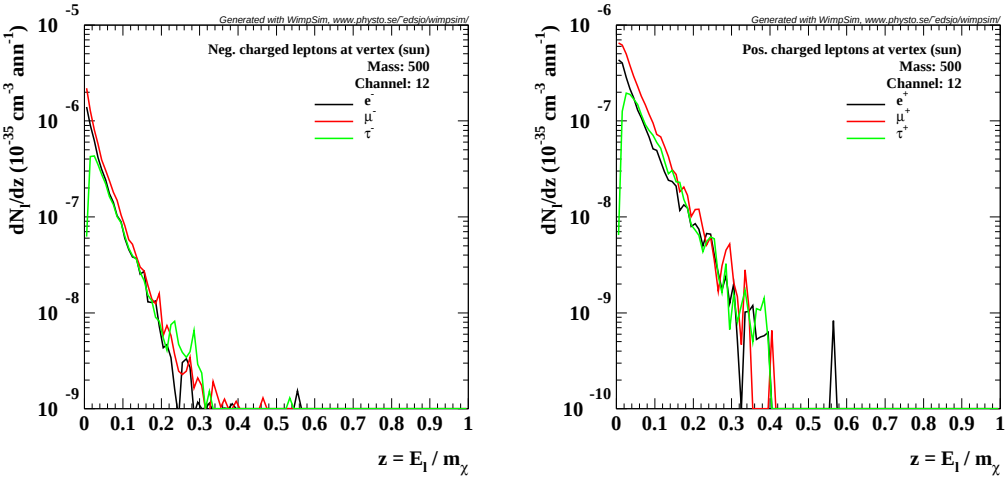


12.7 Channel 12 – gg

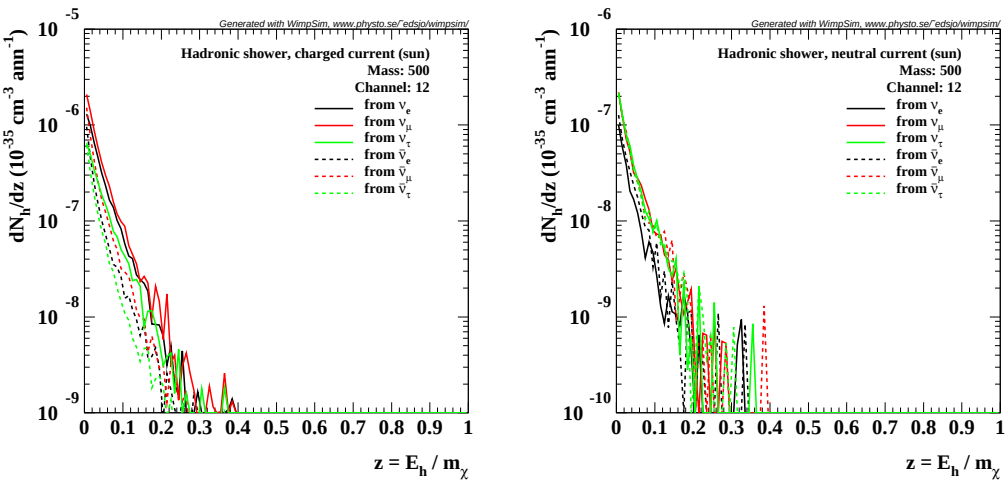
12.7.1 Neutrino fluxes at detector (Sun)



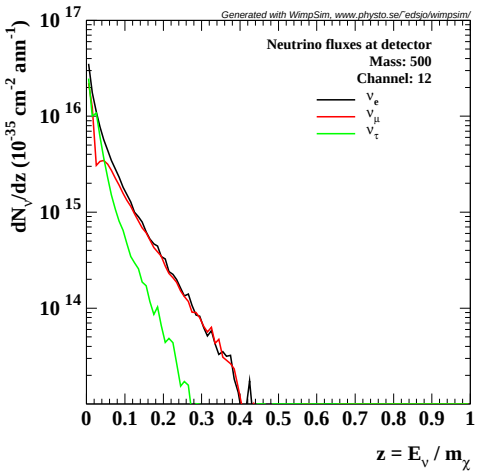
12.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

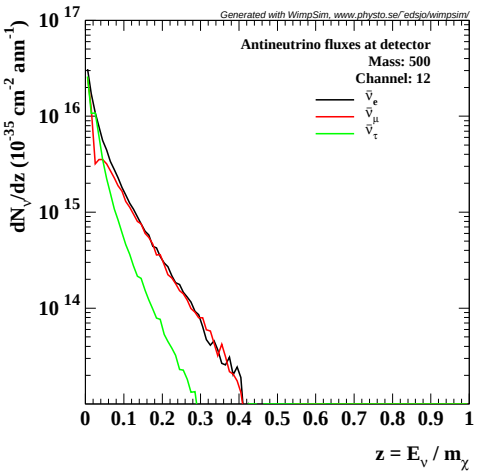


12.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

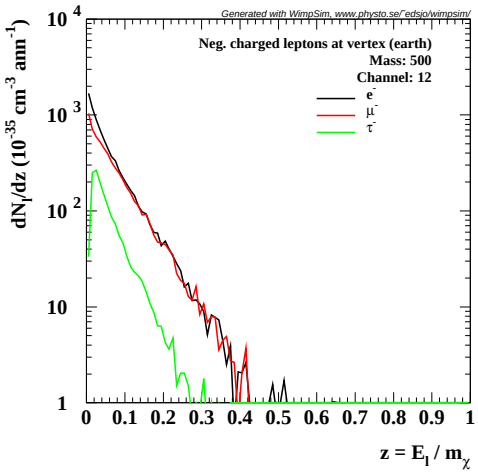


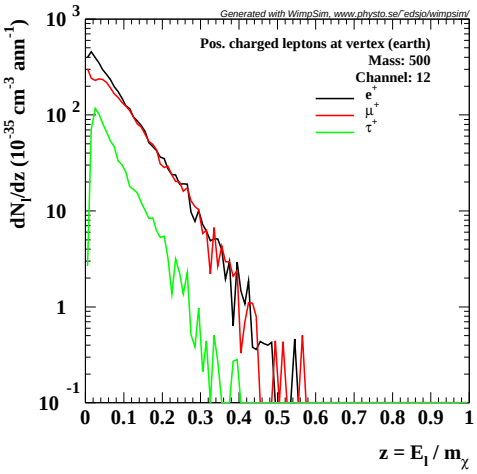
12.7.4 Neutrino fluxes at detector (Earth)



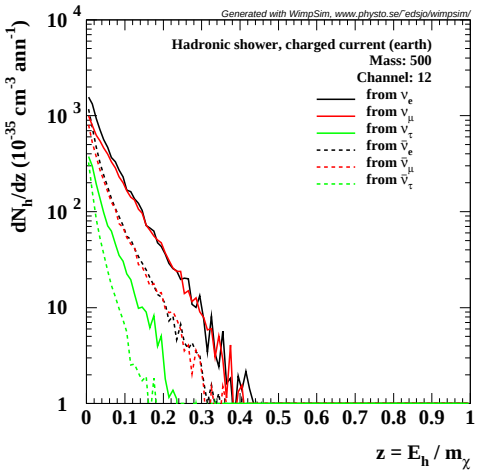


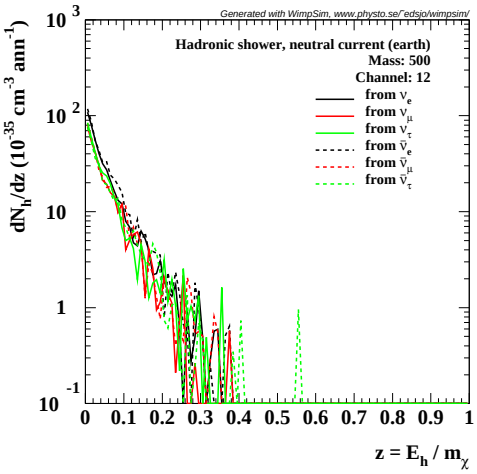
12.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



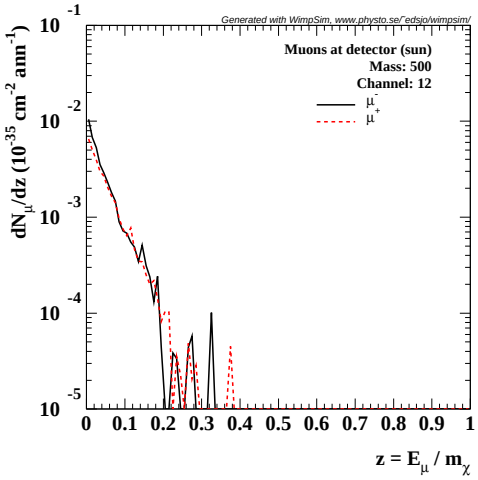


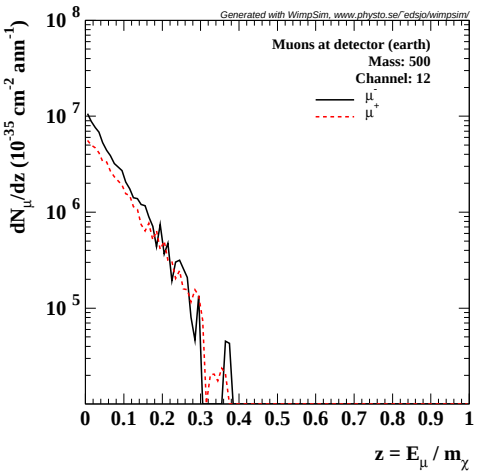
12.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





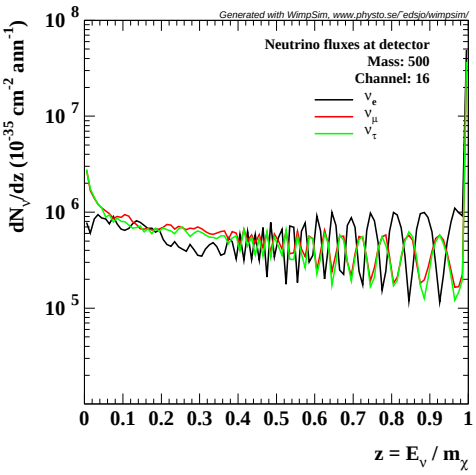
12.7.7 Muons at detector (Sun/Earth)

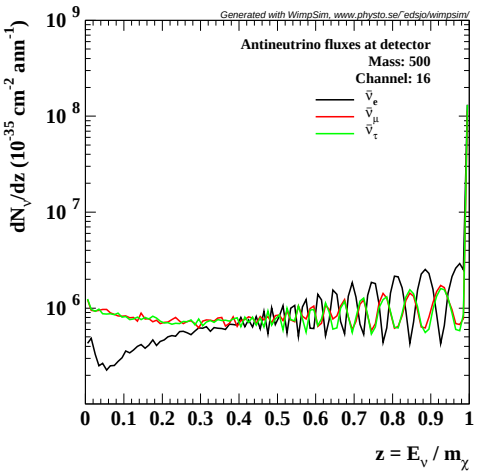




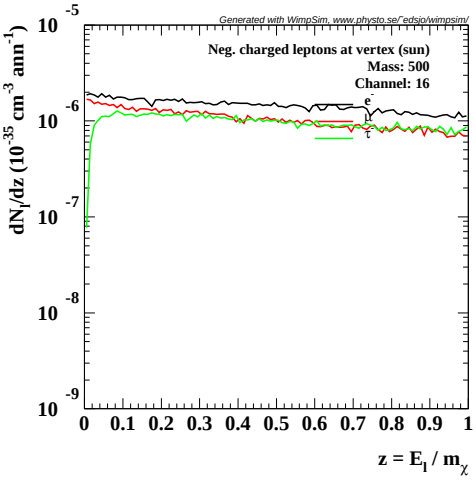
12.8 Channel 16 – $\nu_e\bar{\nu}_e$

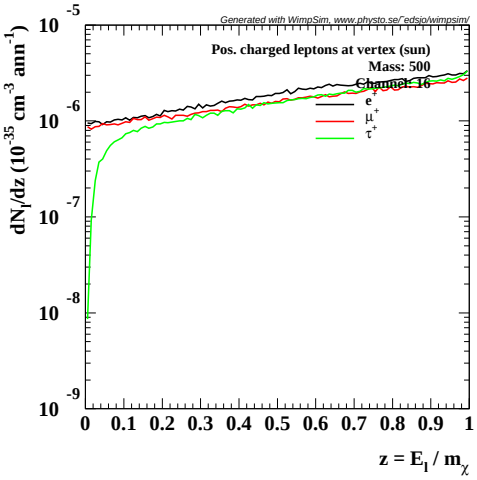
12.8.1 Neutrino fluxes at detector (Sun)



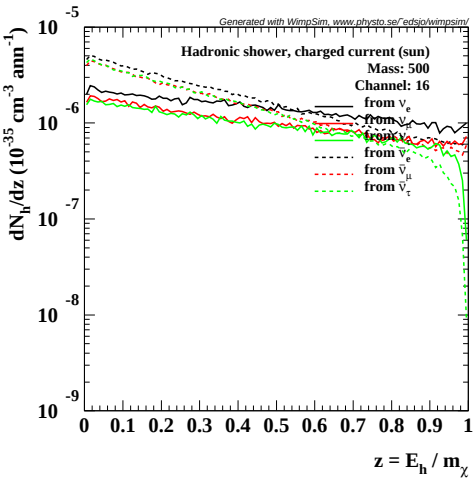


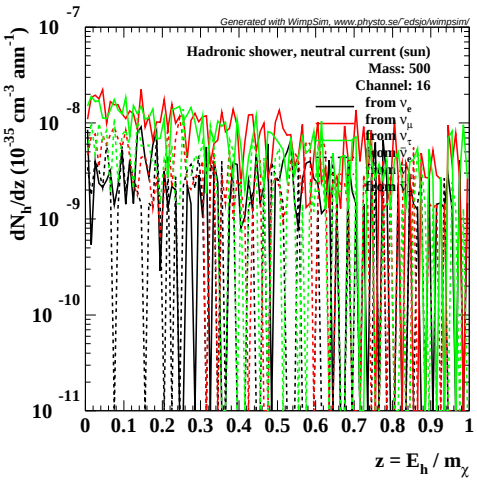
12.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



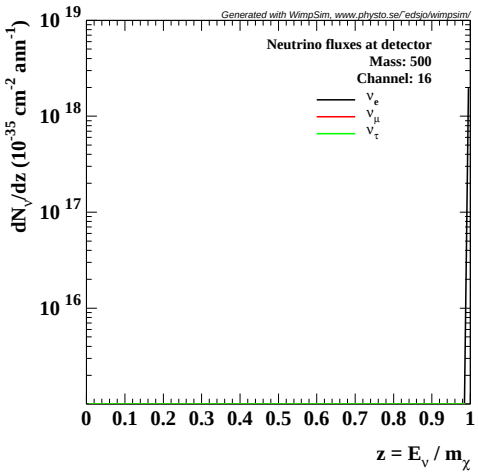


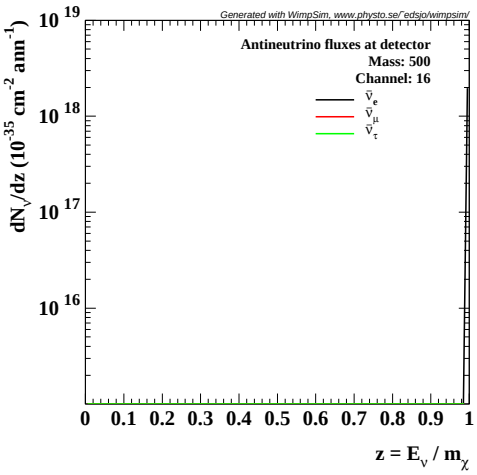
12.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



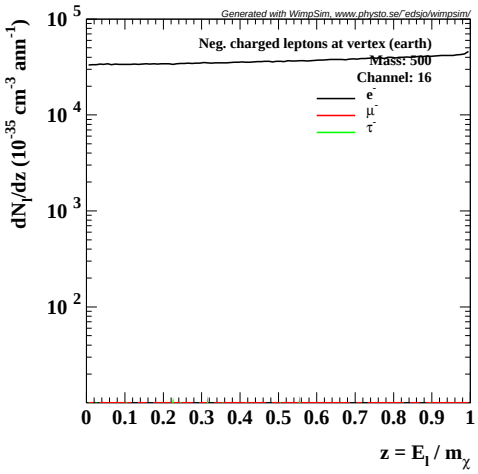


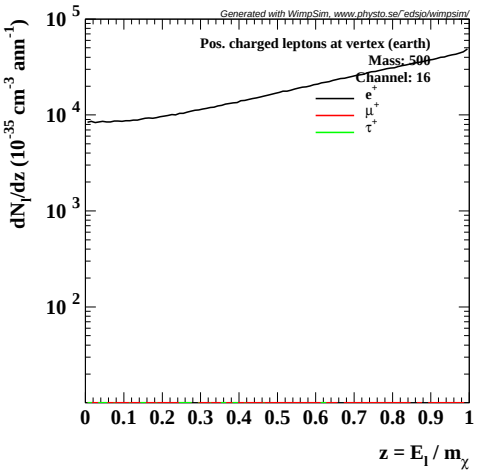
12.8.4 Neutrino fluxes at detector (Earth)



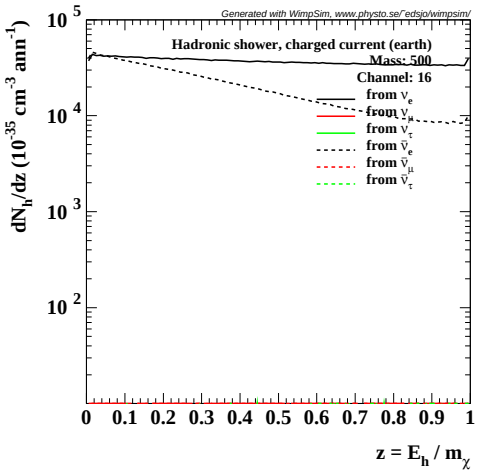


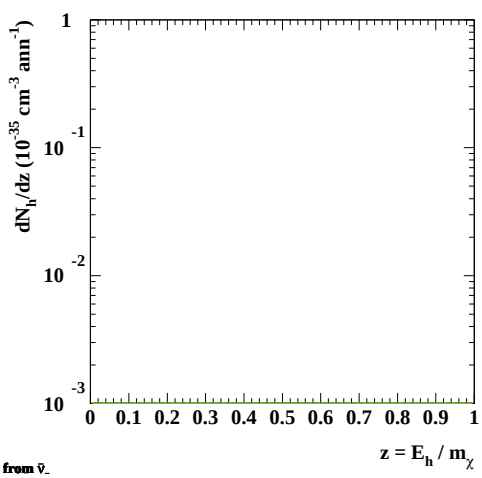
12.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





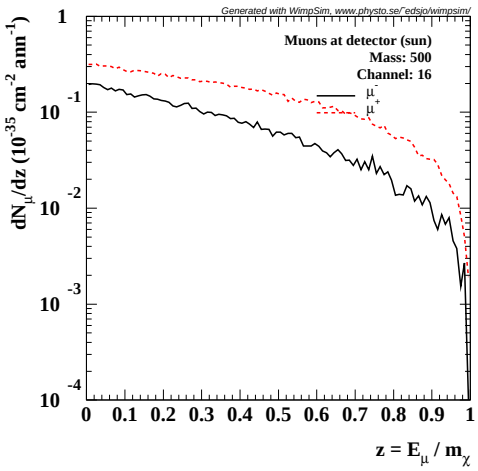
12.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

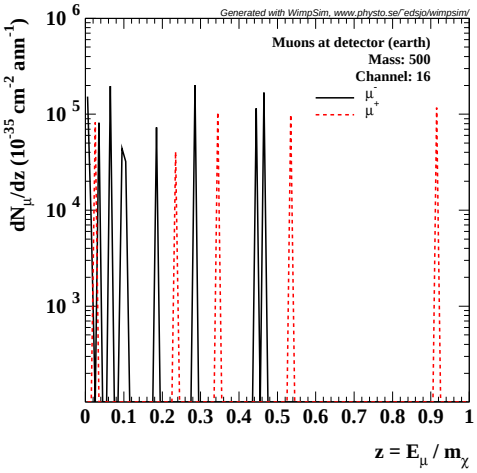




from $\bar{\nu}_\tau$

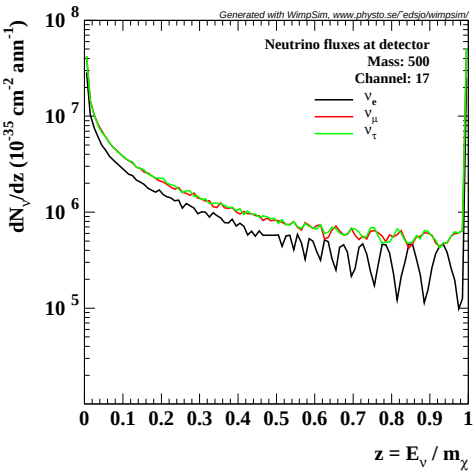
12.8.7 Muons at detector (Sun/Earth)

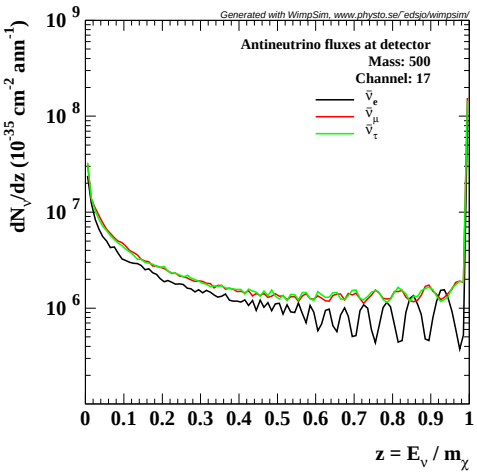




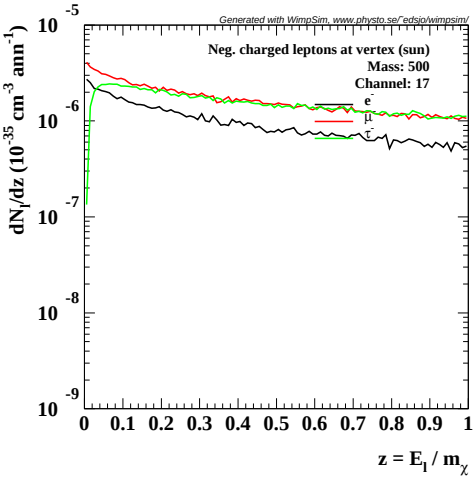
12.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

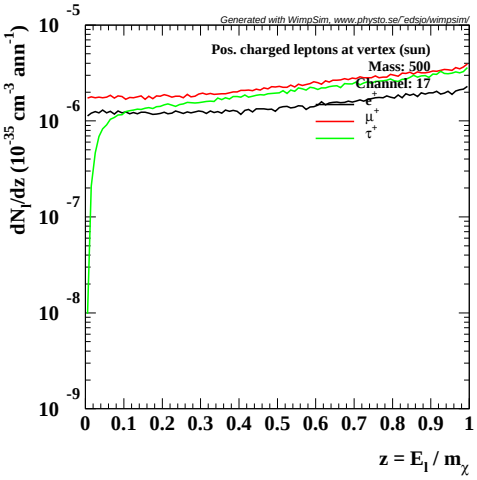
12.9.1 Neutrino fluxes at detector (Sun)



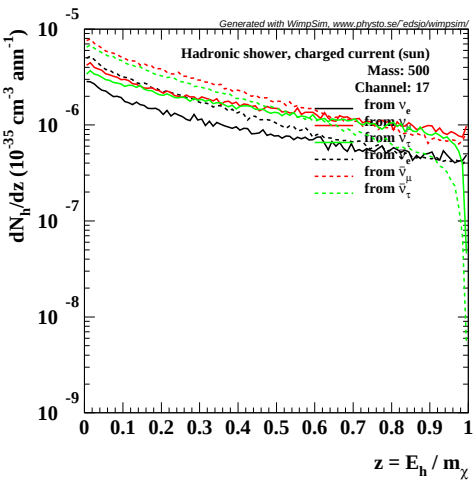


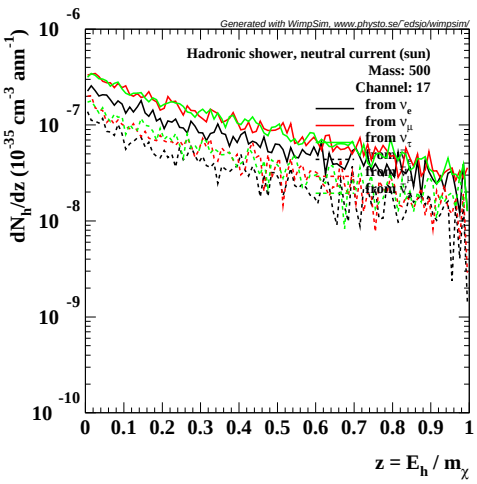
12.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



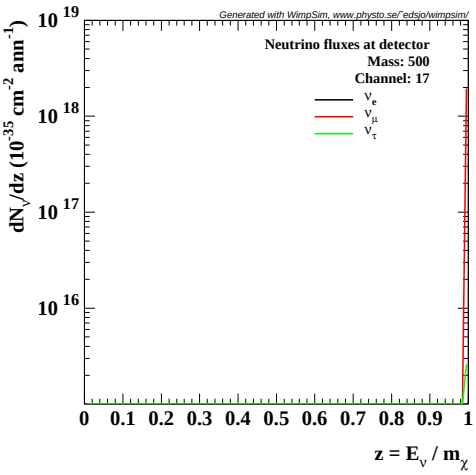


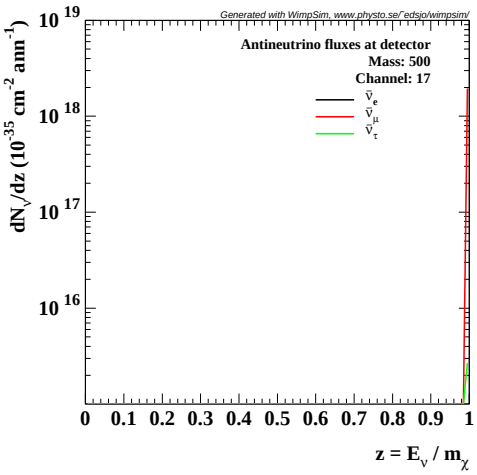
12.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



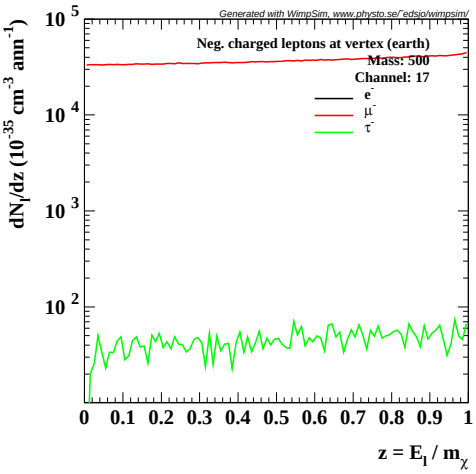


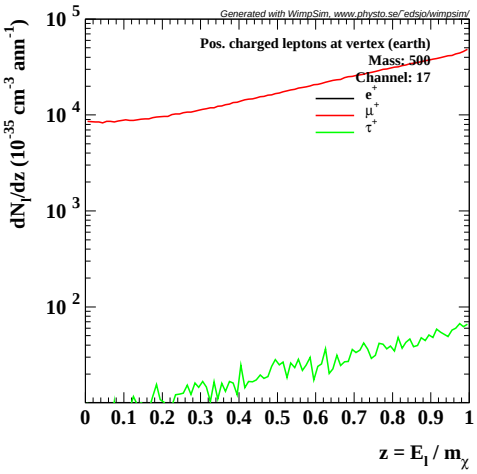
12.9.4 Neutrino fluxes at detector (Earth)



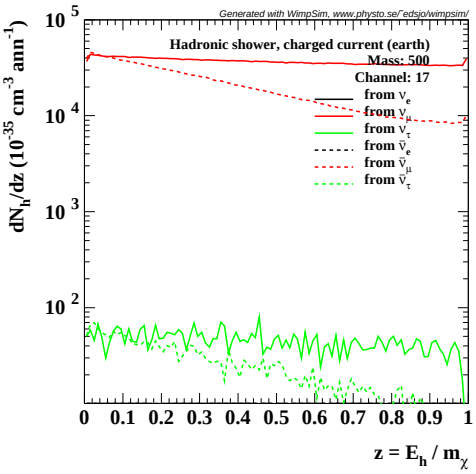


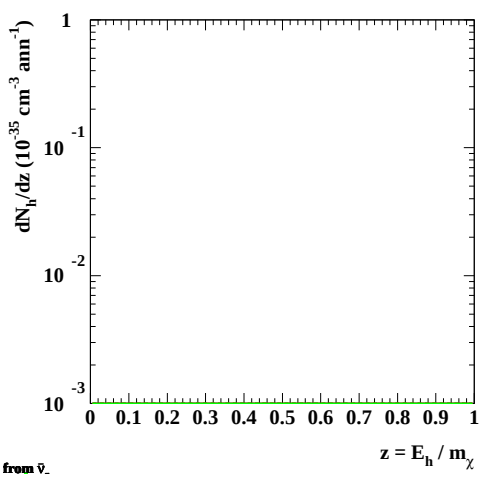
12.9.5 Charged leptons at neutrino-nucleon vertex (Earth)





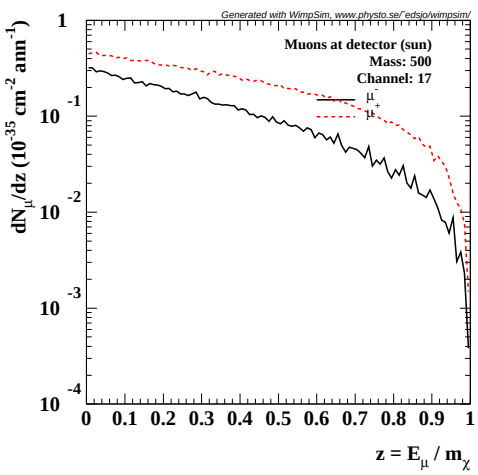
12.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)

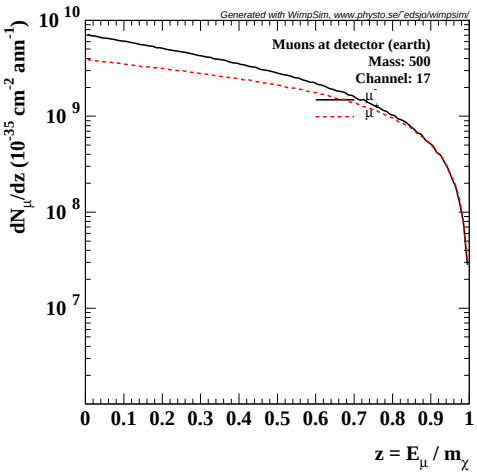




from $\bar{\nu}_\tau$

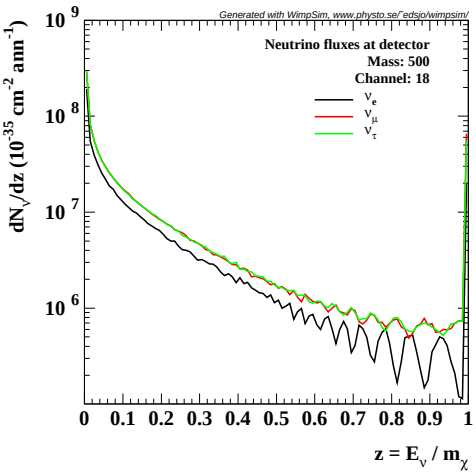
12.9.7 Muons at detector (Sun/Earth)

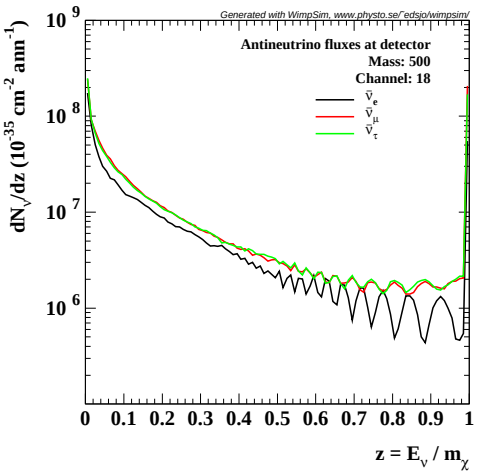




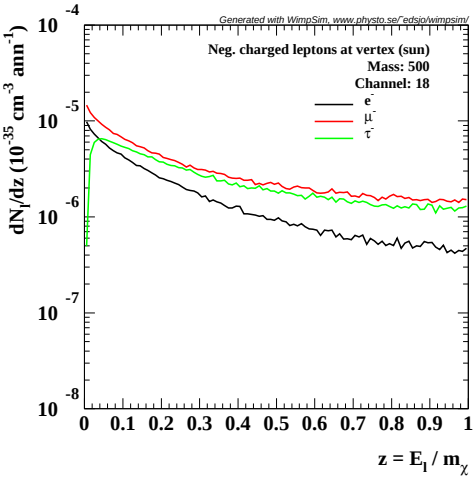
12.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

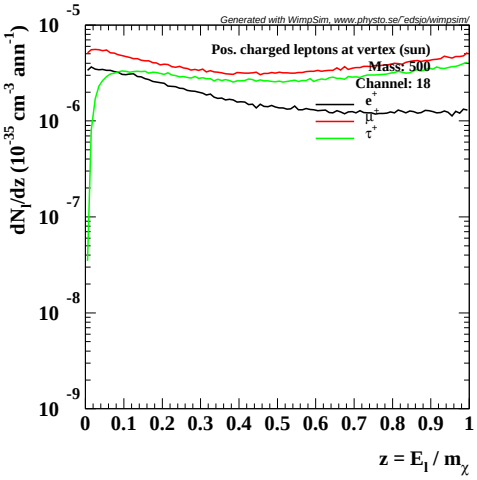
12.10.1 Neutrino fluxes at detector (Sun)



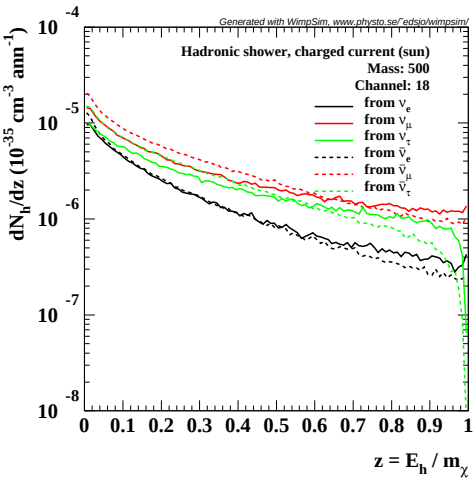


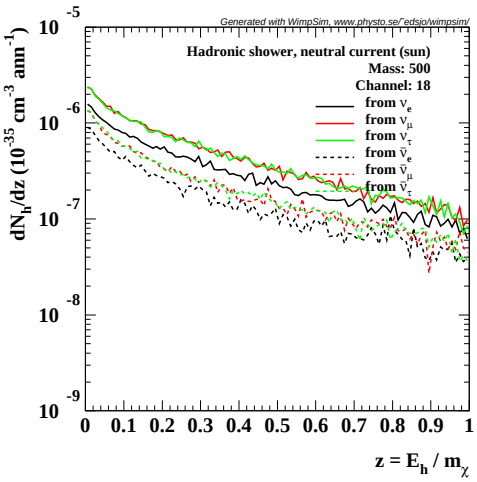
12.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



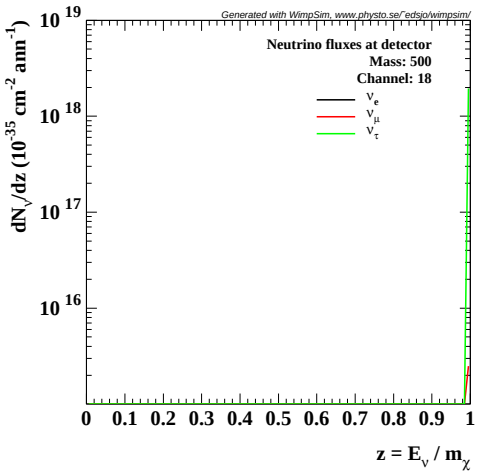


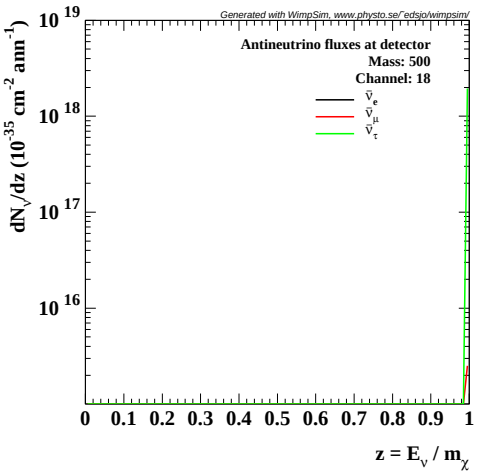
12.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



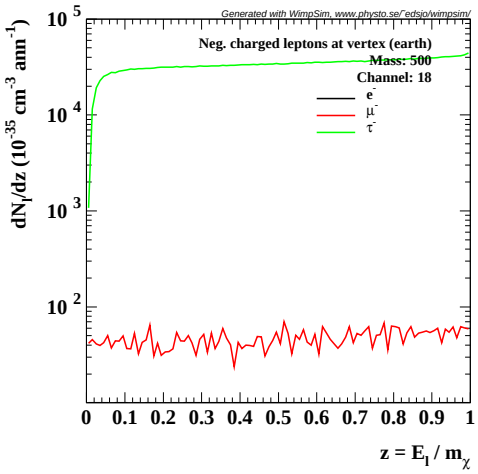


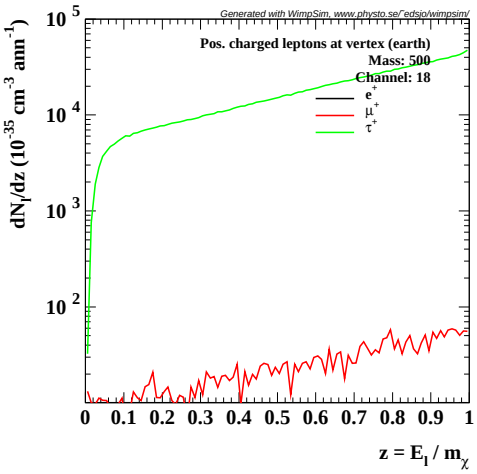
12.10.4 Neutrino fluxes at detector (Earth)



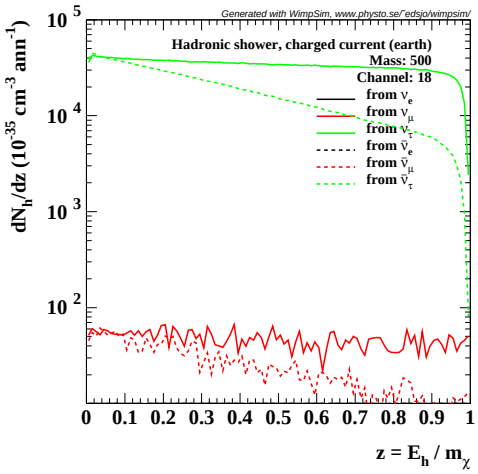


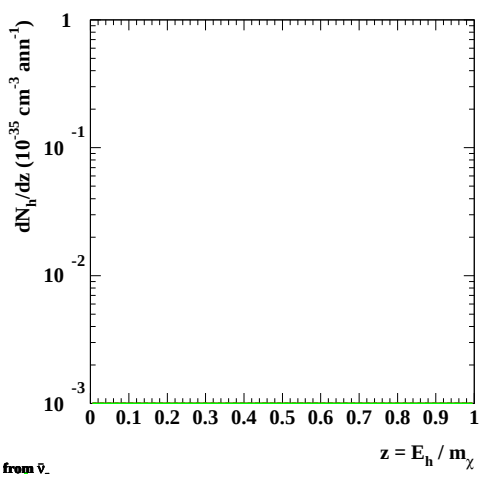
12.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





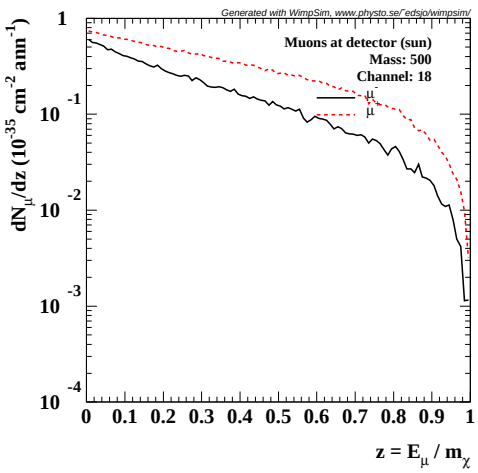
12.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

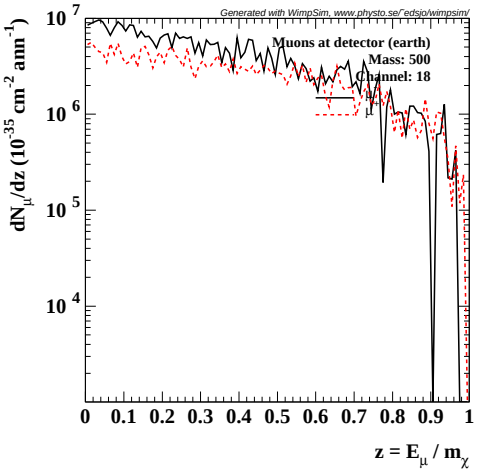




from $\bar{\nu}_\tau$

12.10.7 Muons at detector (Sun/Earth)

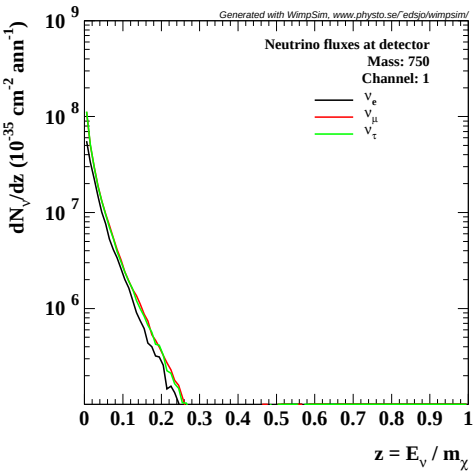


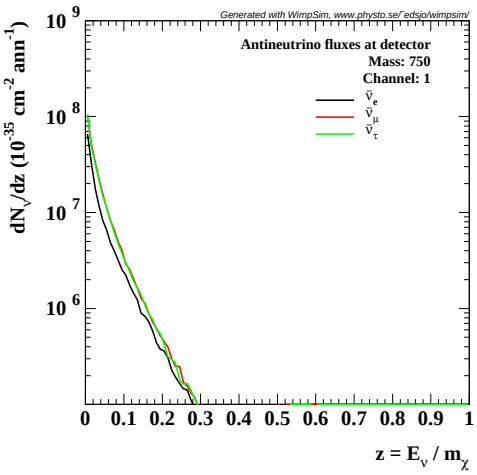


13 Mass 750

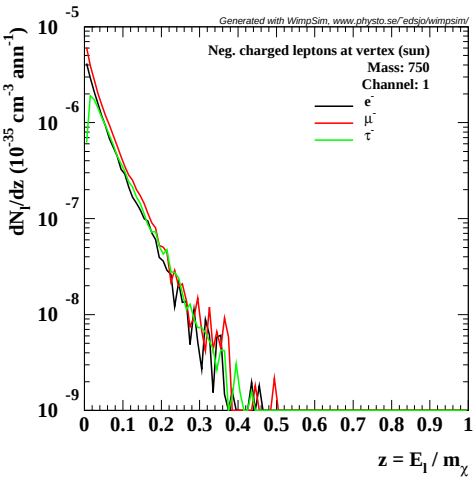
13.1 Channel 1 – $c\bar{c}$

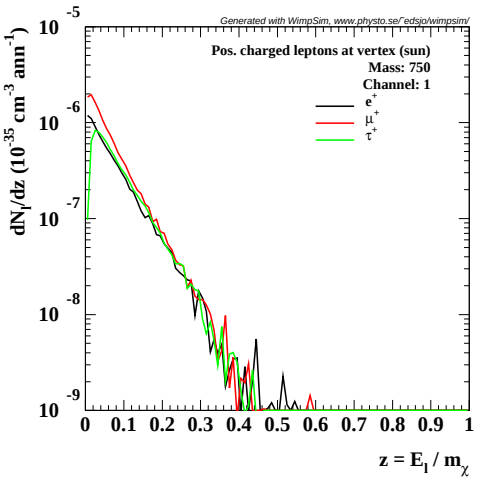
13.1.1 Neutrino fluxes at detector (Sun)



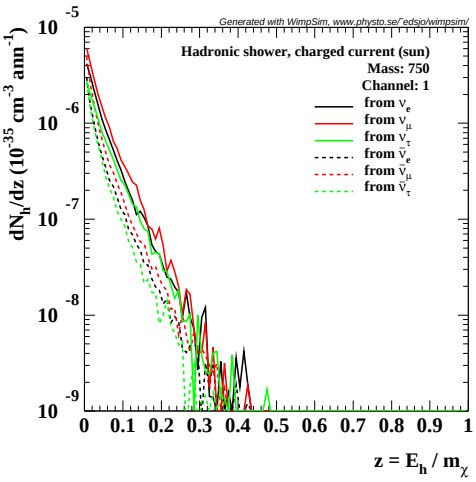


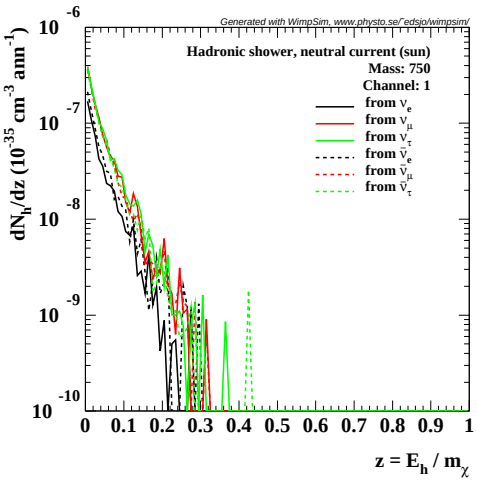
13.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



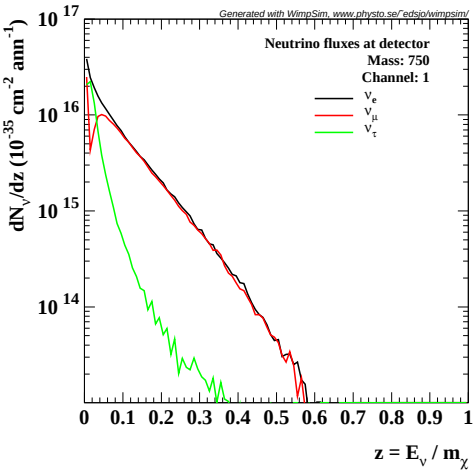


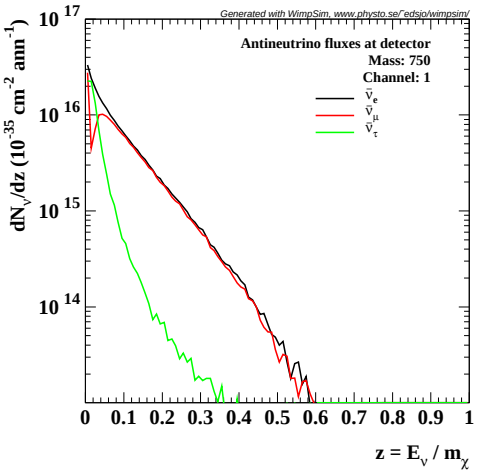
13.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



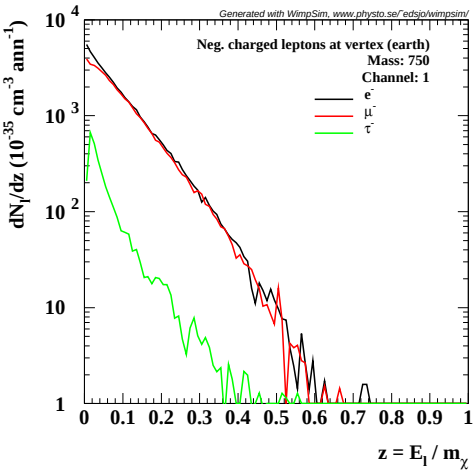


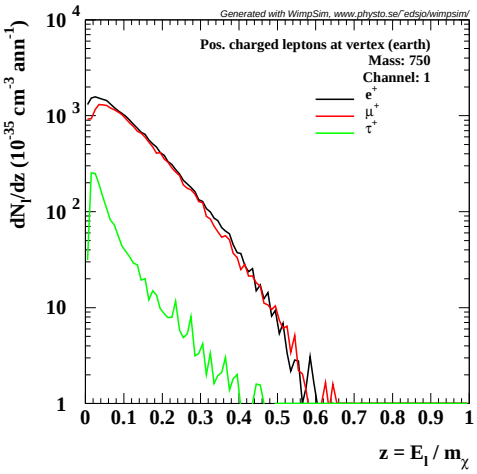
13.1.4 Neutrino fluxes at detector (Earth)



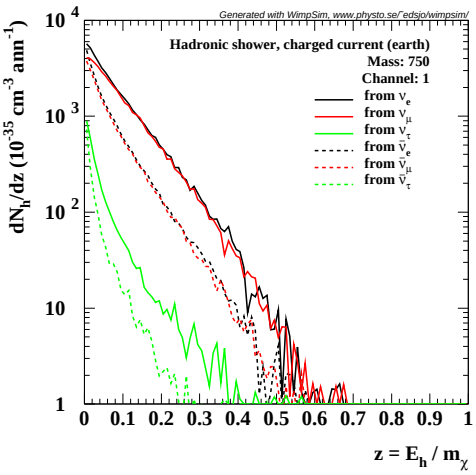


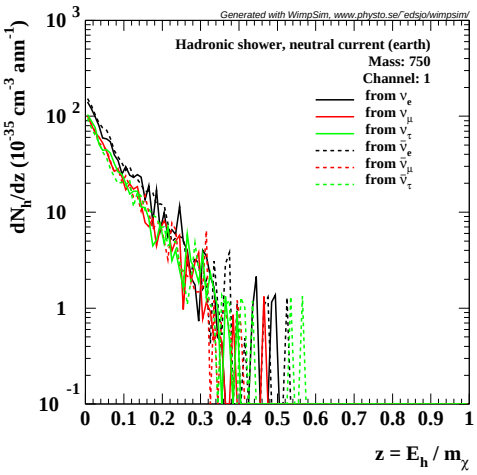
13.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



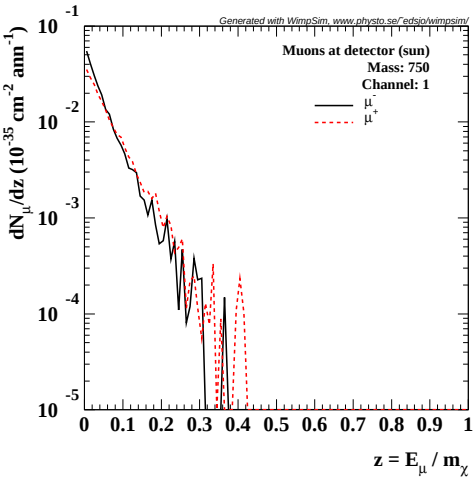


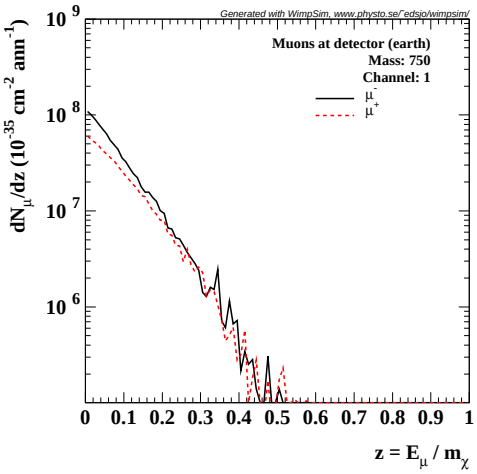
13.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





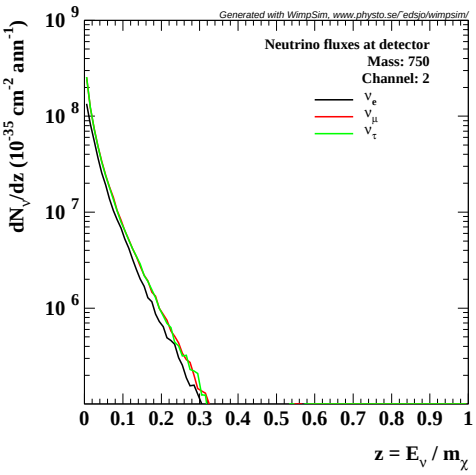
13.1.7 Muons at detector (Sun/Earth)

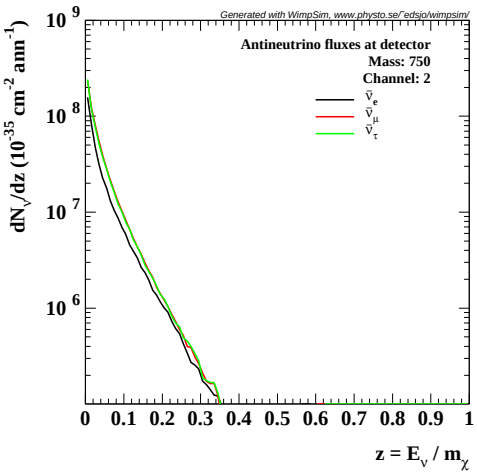




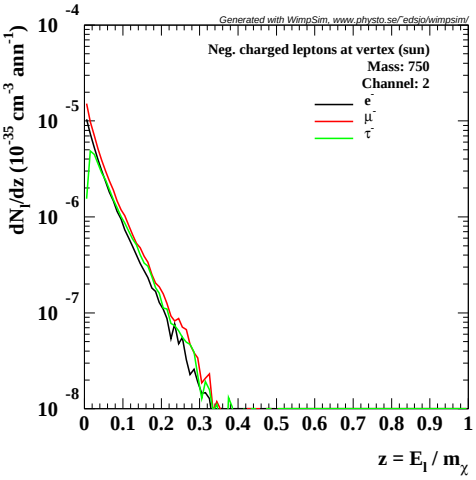
13.2 Channel 2 – $b\bar{b}$

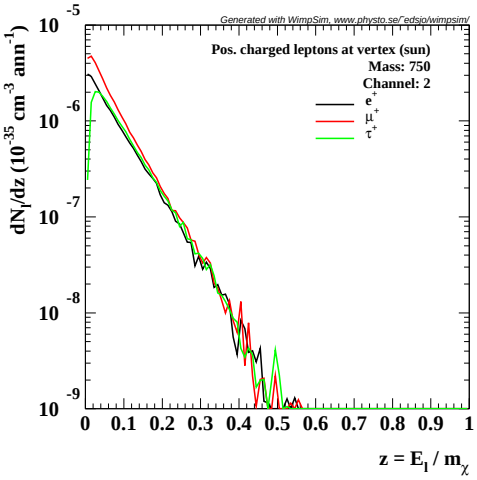
13.2.1 Neutrino fluxes at detector (Sun)



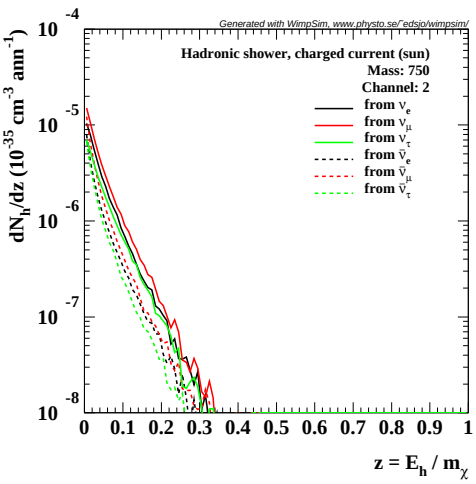


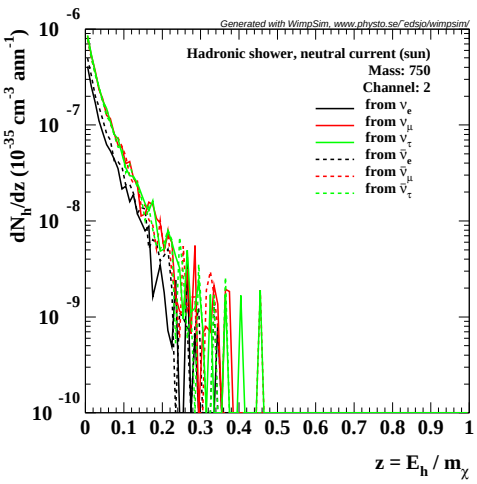
13.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



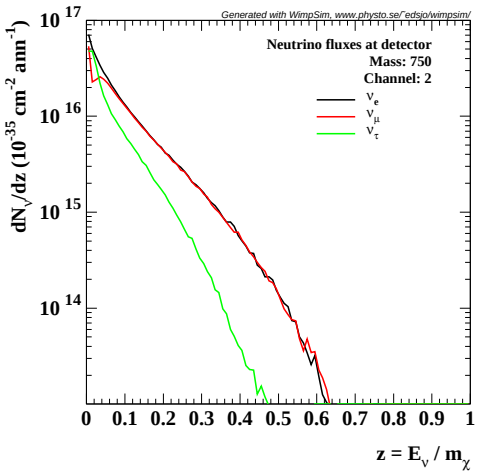


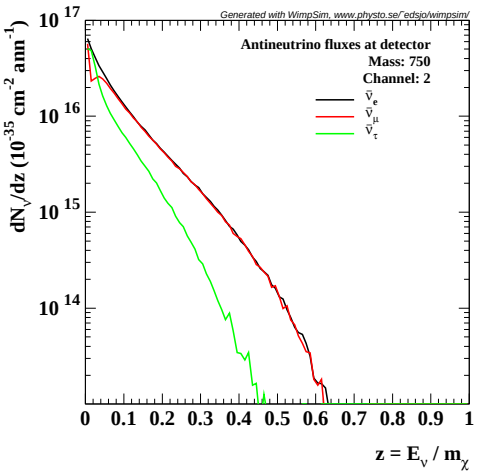
13.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



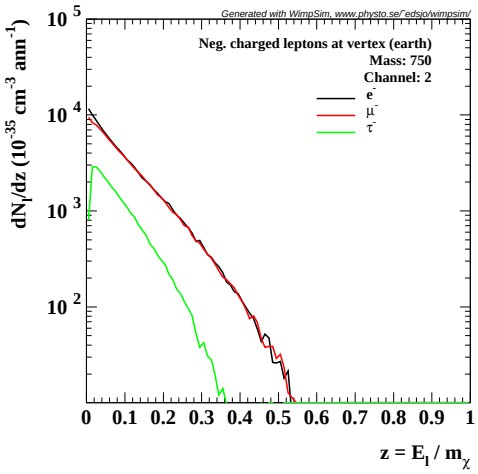


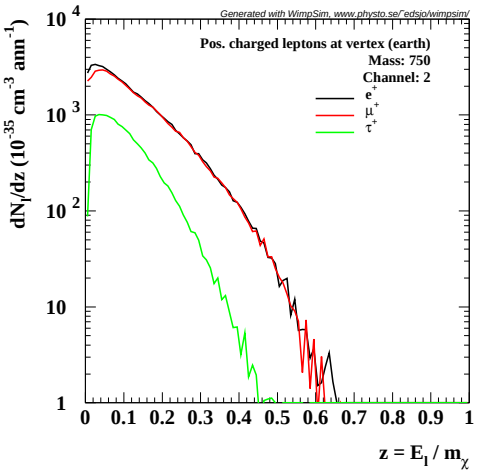
13.2.4 Neutrino fluxes at detector (Earth)



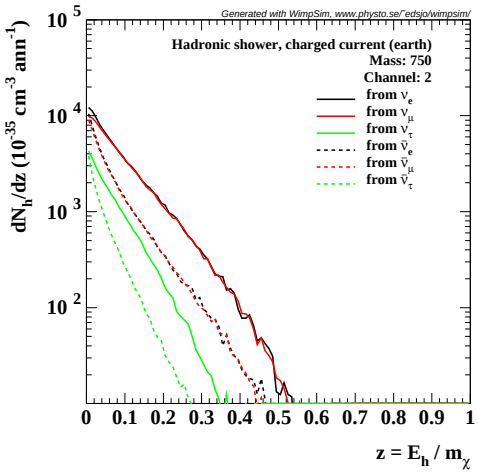


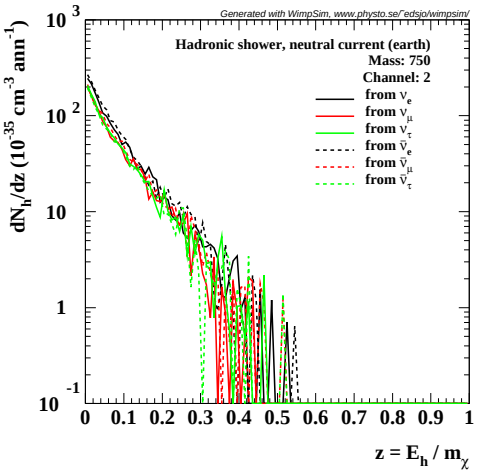
13.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



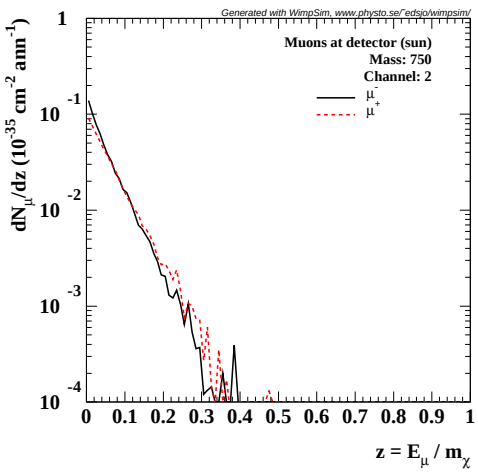


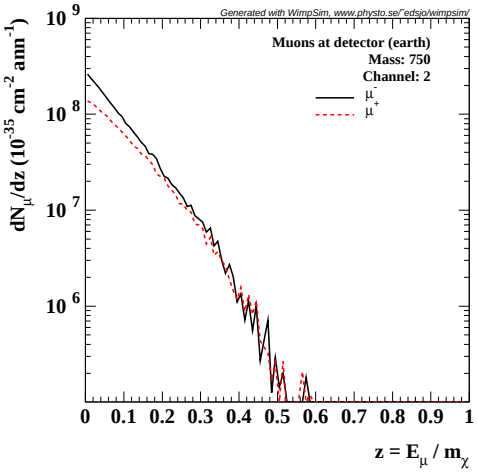
13.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





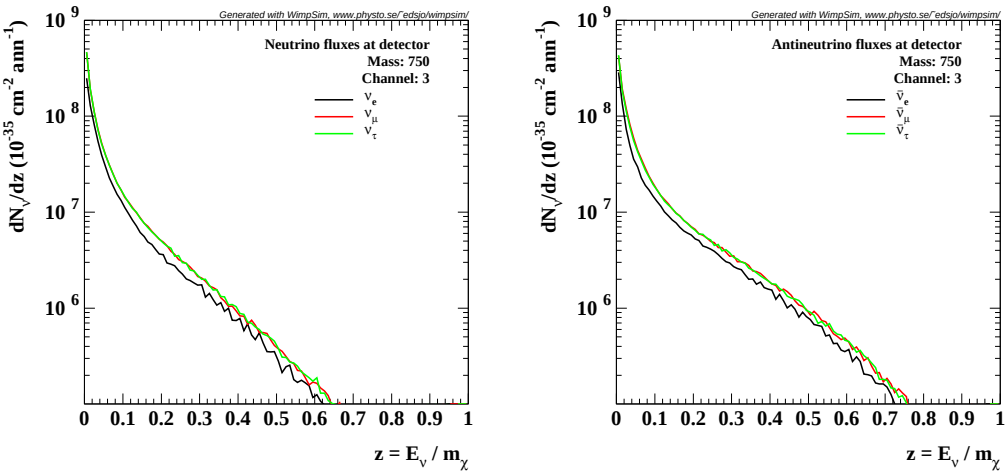
13.2.7 Muons at detector (Sun/Earth)



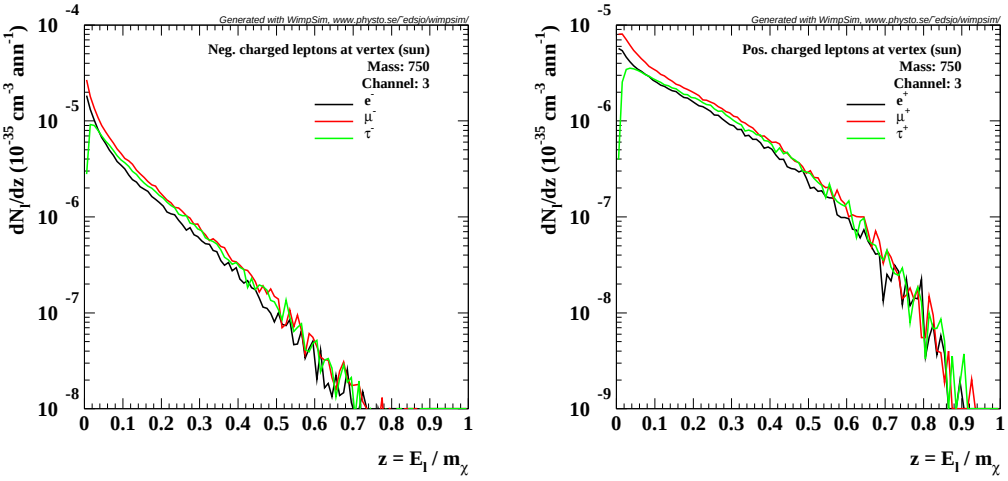


13.3 Channel 3 – $t\bar{t}$

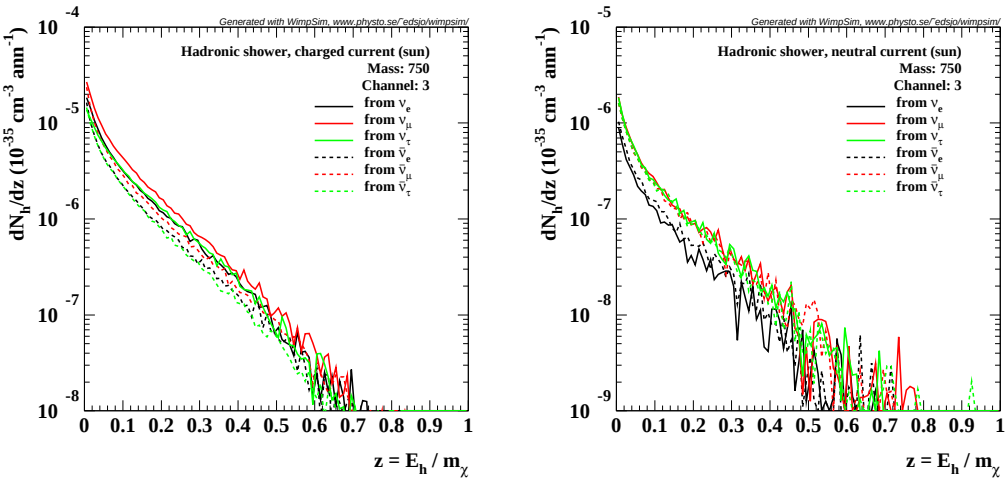
13.3.1 Neutrino fluxes at detector (Sun)



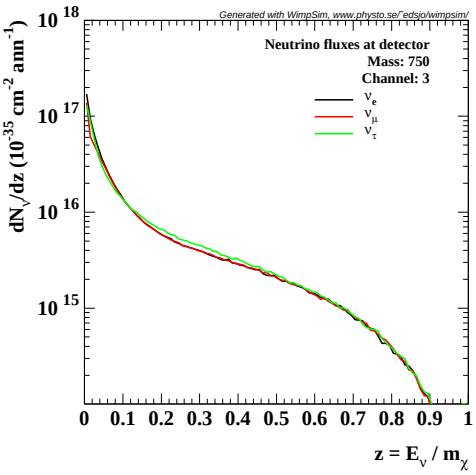
13.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

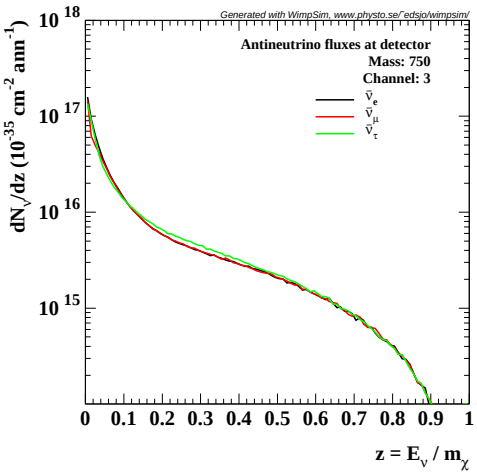


13.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

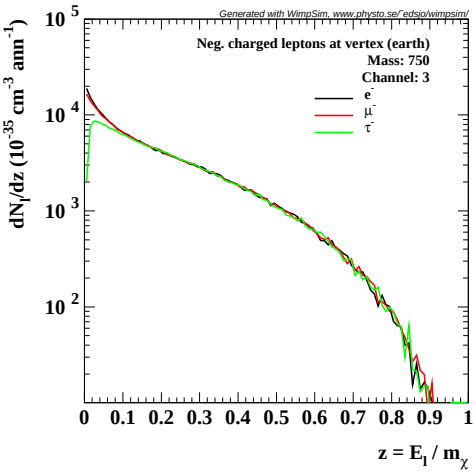


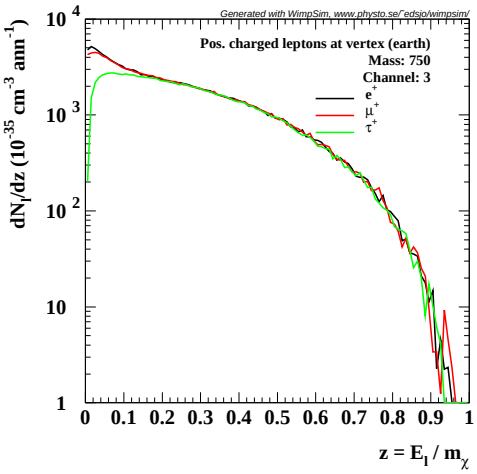
13.3.4 Neutrino fluxes at detector (Earth)



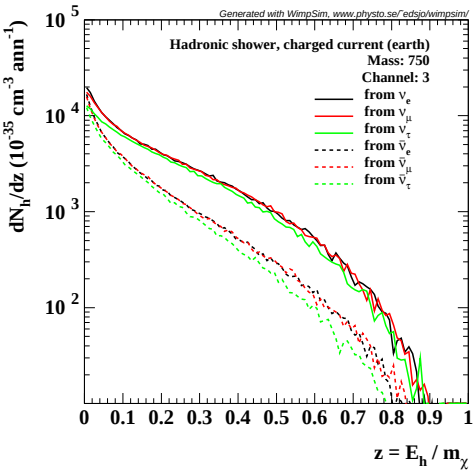


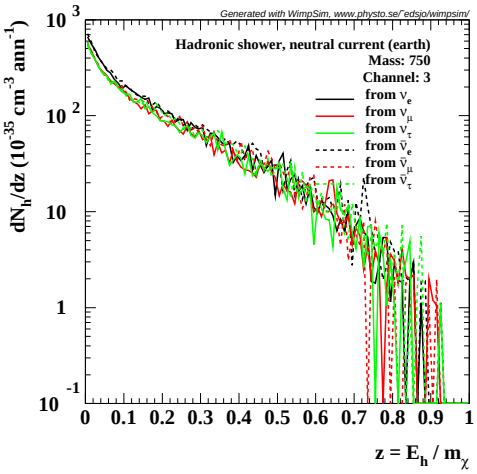
13.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



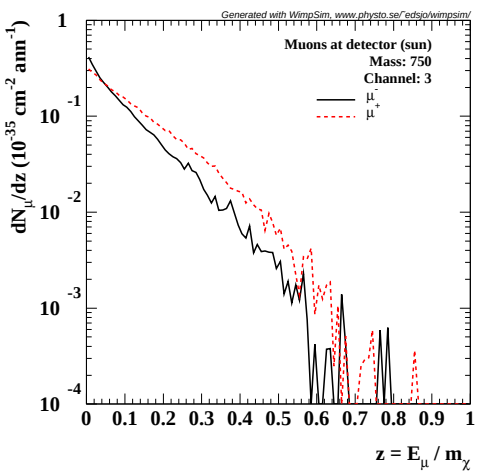


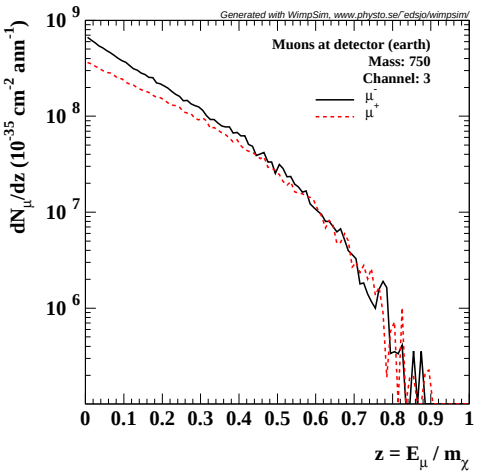
13.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





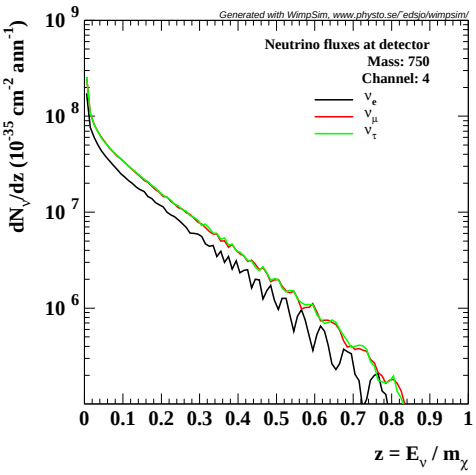
13.3.7 Muons at detector (Sun/Earth)

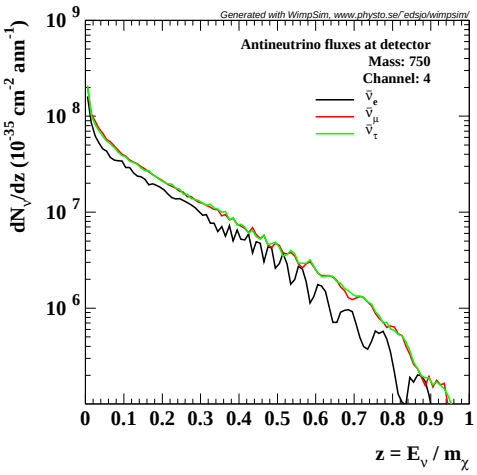




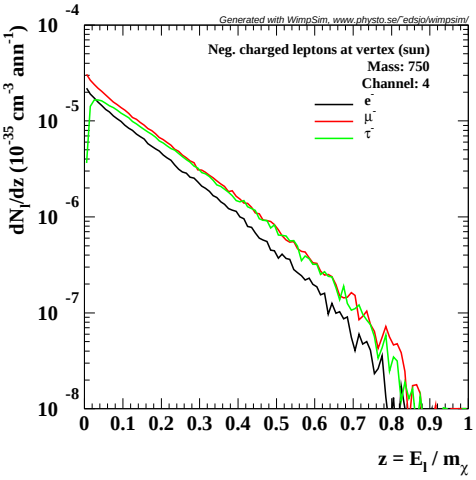
13.4 Channel 4 – $\tau^-\tau^+$

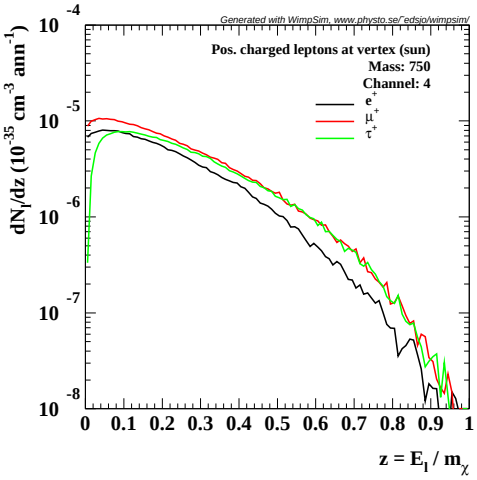
13.4.1 Neutrino fluxes at detector (Sun)



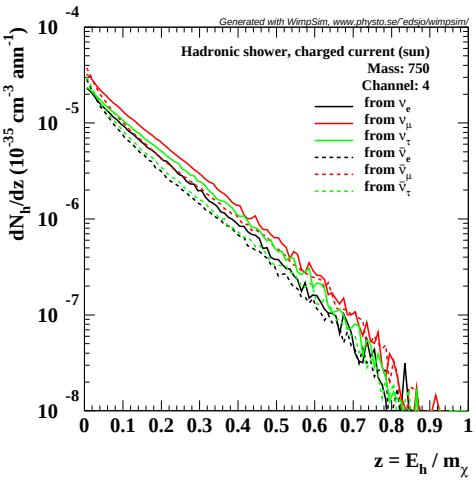


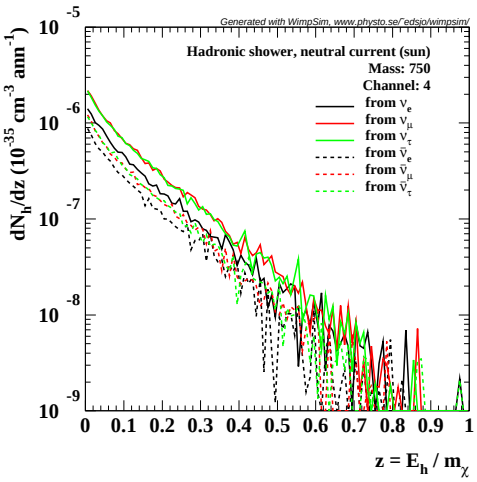
13.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



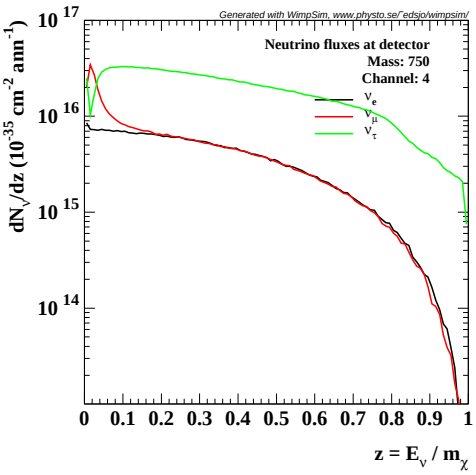


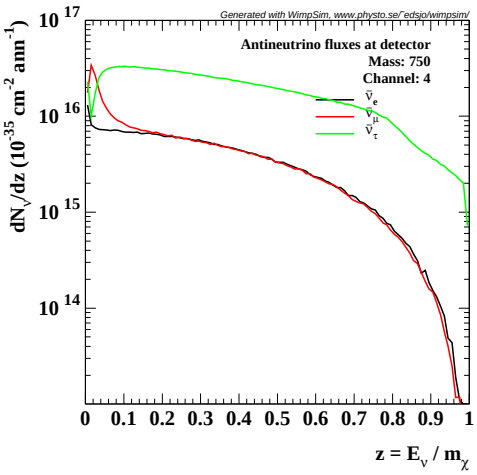
13.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



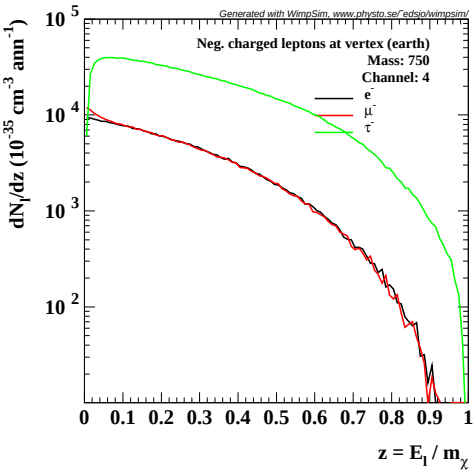


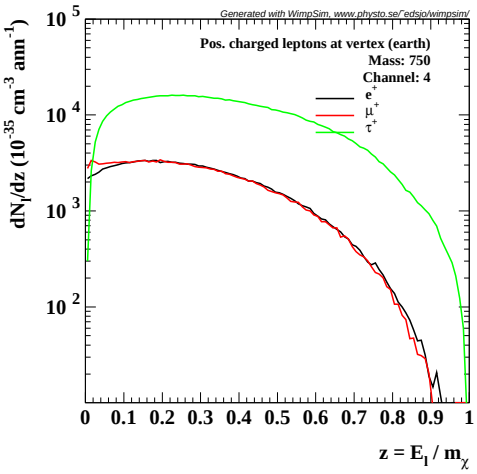
13.4.4 Neutrino fluxes at detector (Earth)



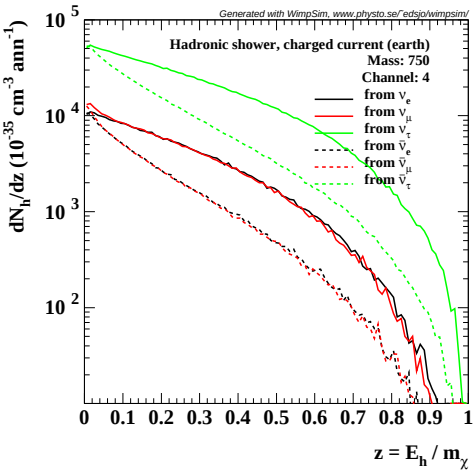


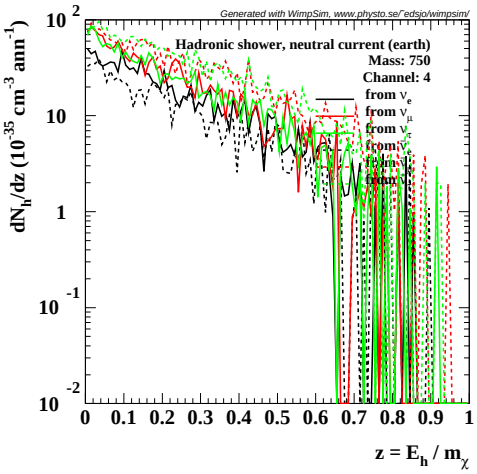
13.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



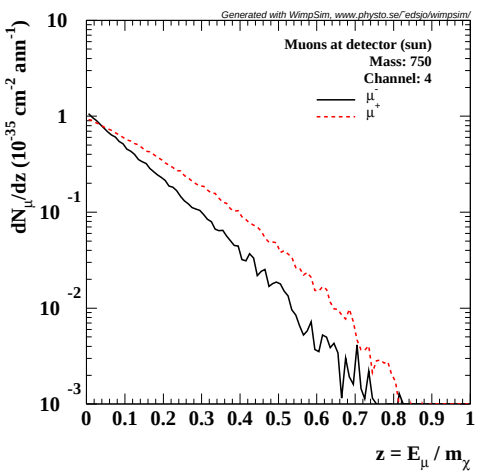


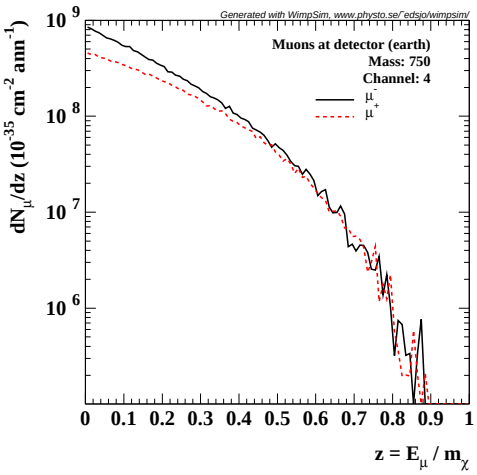
13.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





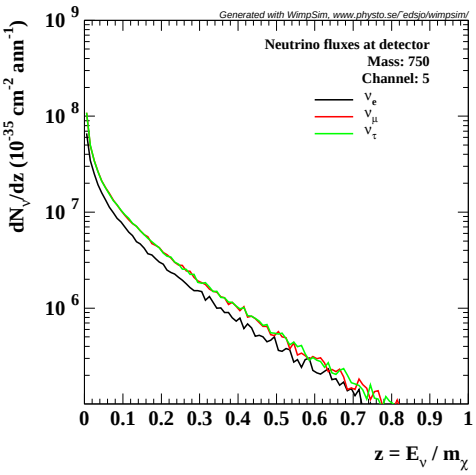
13.4.7 Muons at detector (Sun/Earth)

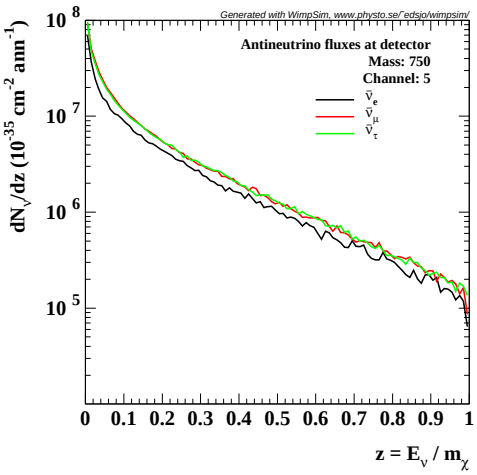




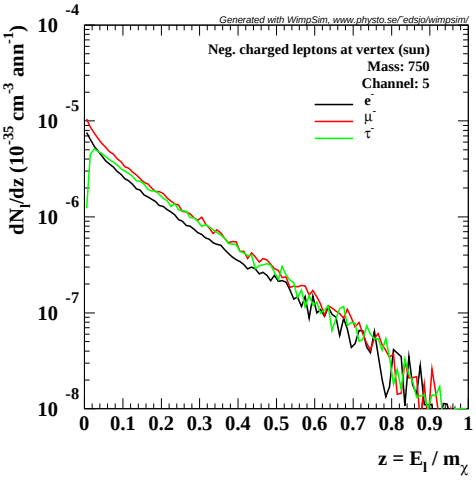
13.5 Channel 5 – W^-W^+

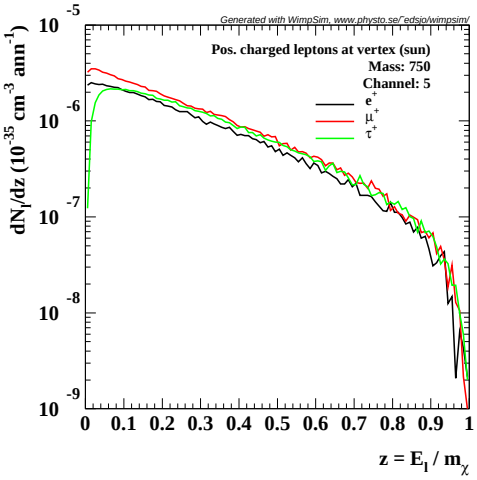
13.5.1 Neutrino fluxes at detector (Sun)



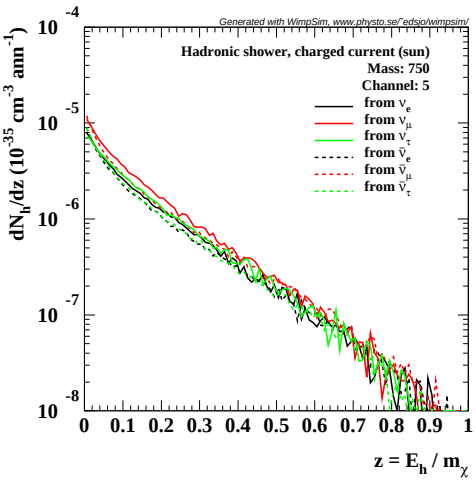


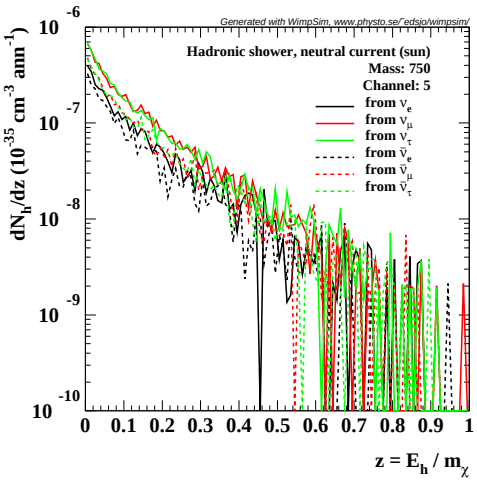
13.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



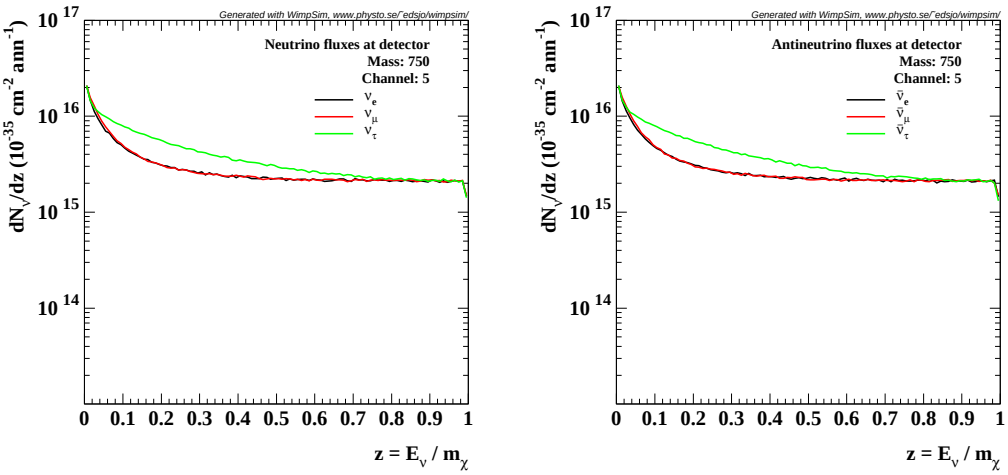


13.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

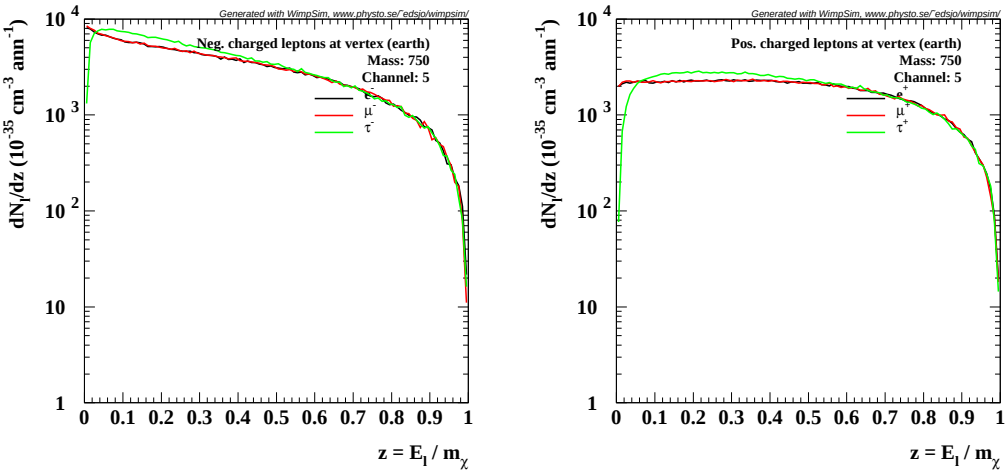




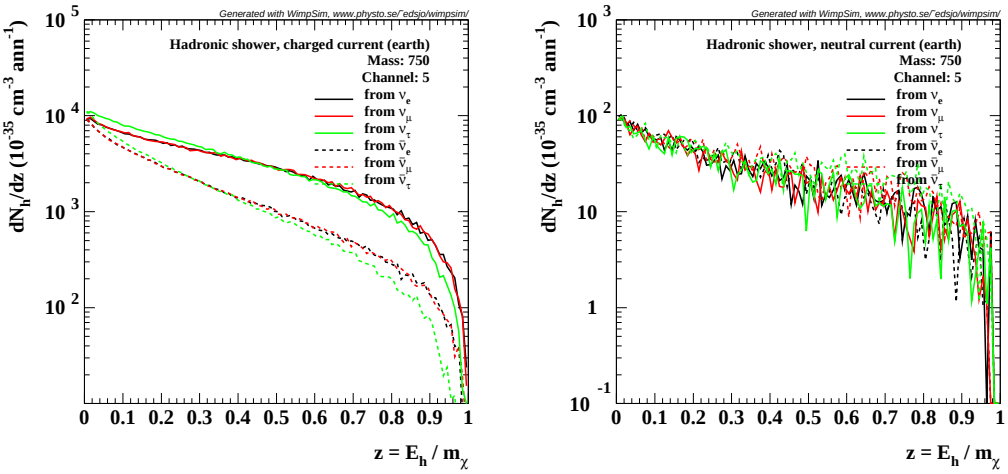
13.5.4 Neutrino fluxes at detector (Earth)



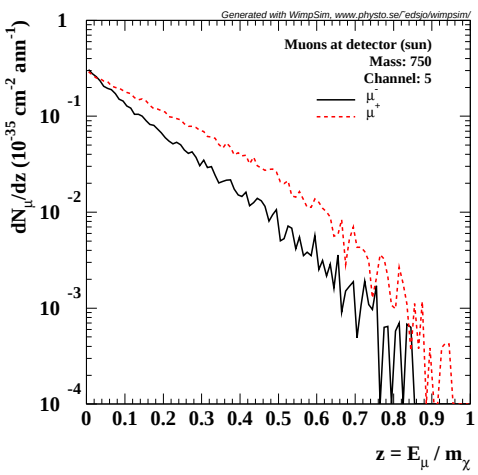
13.5.5 Charged leptons at neutrino-nucleon vertex (Earth)

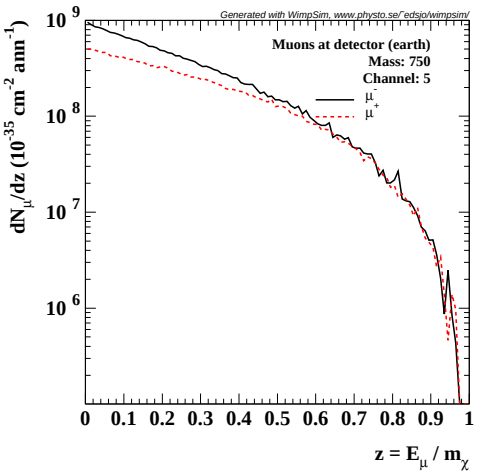


13.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)



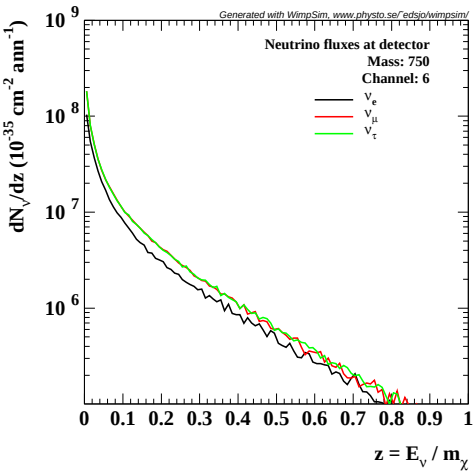
13.5.7 Muons at detector (Sun/Earth)

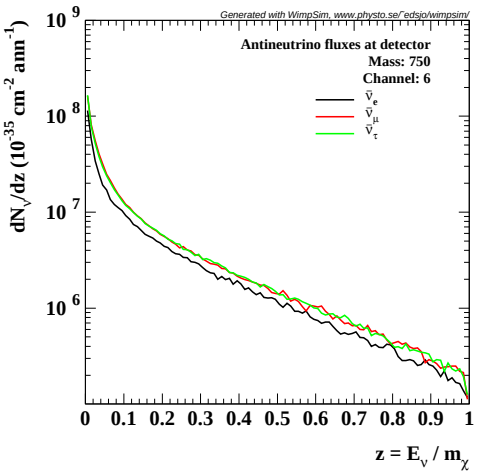




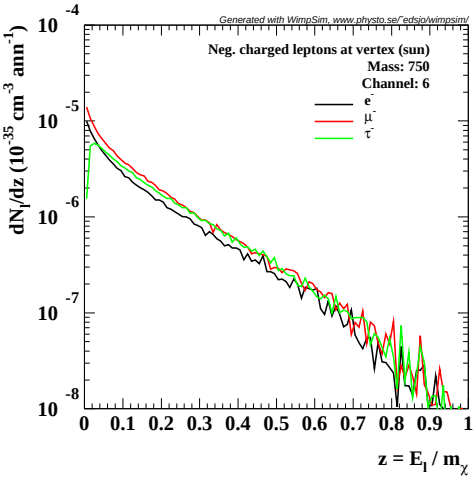
13.6 Channel 6 – $Z^0 Z^0$

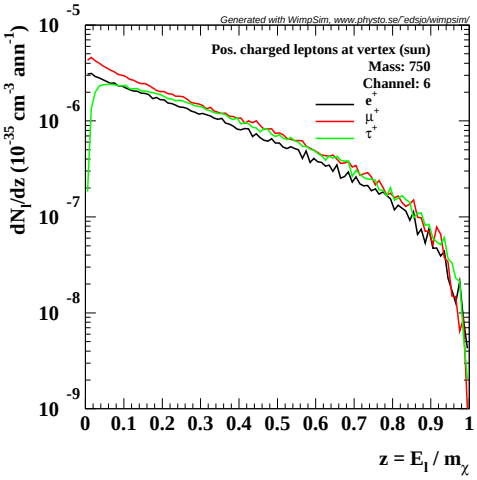
13.6.1 Neutrino fluxes at detector (Sun)



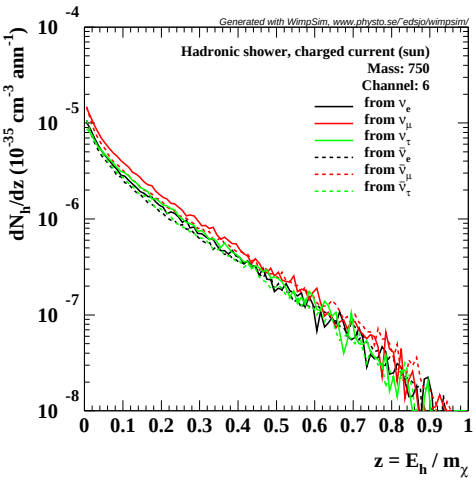


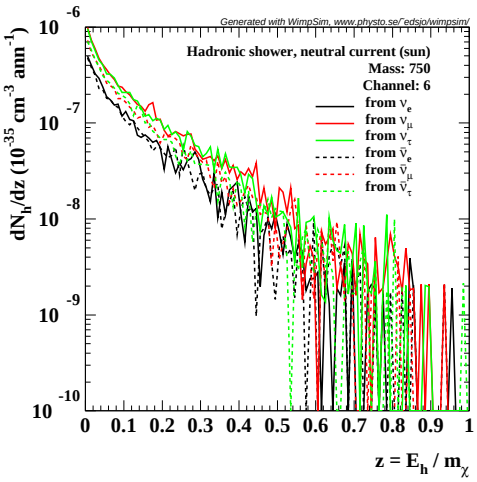
13.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



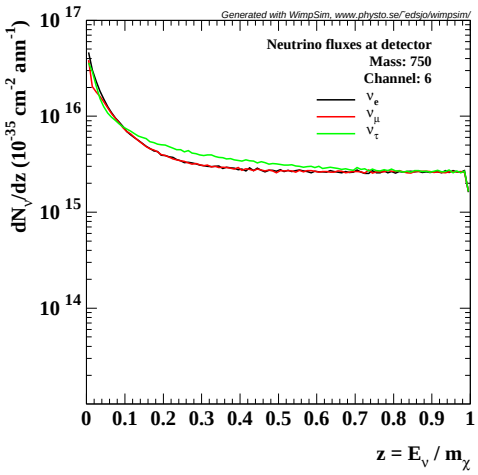


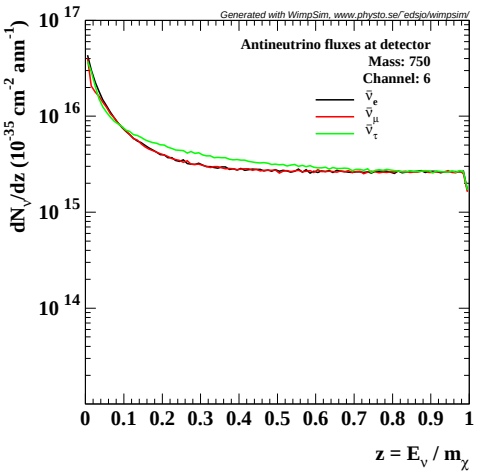
13.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



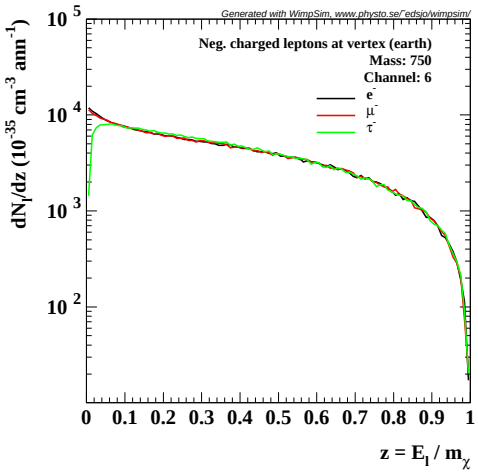


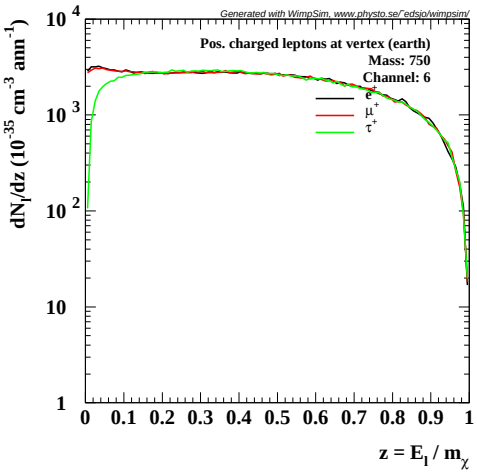
13.6.4 Neutrino fluxes at detector (Earth)



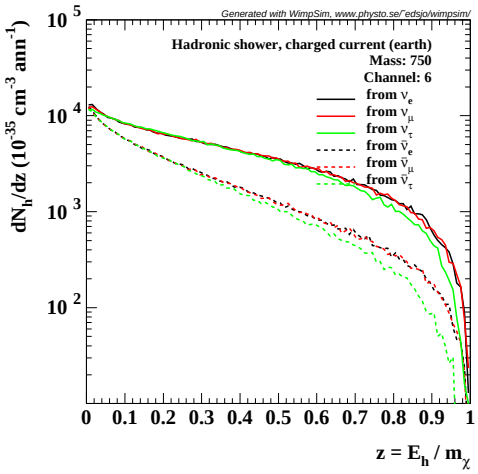


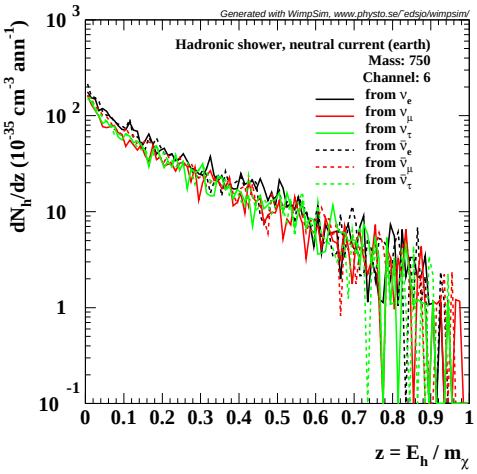
13.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



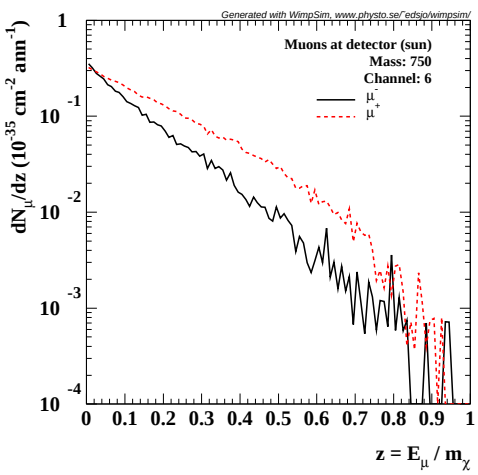


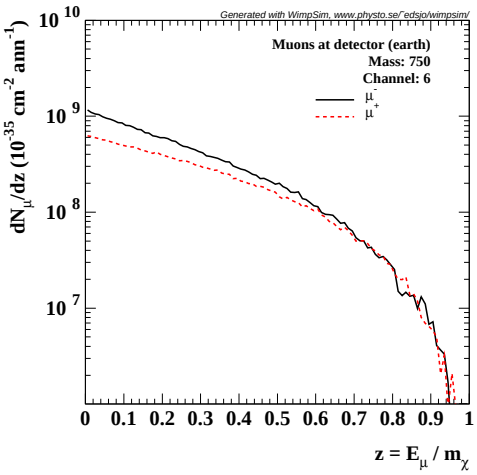
13.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





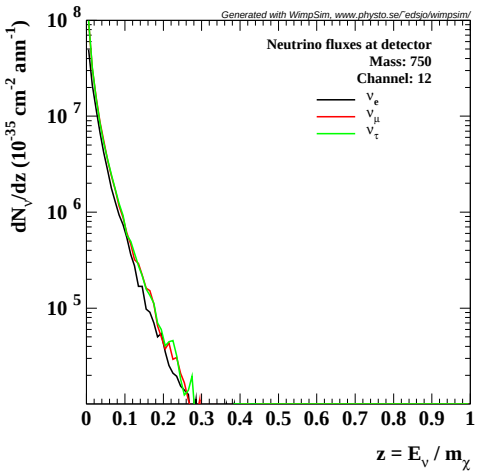
13.6.7 Muons at detector (Sun/Earth)

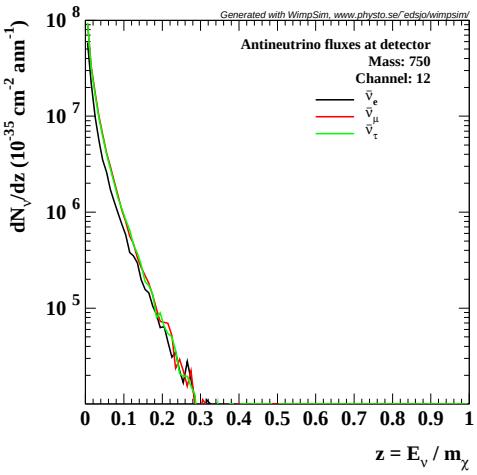




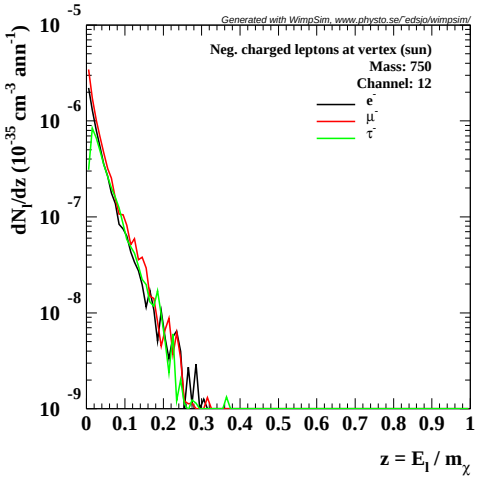
13.7 Channel 12 – gg

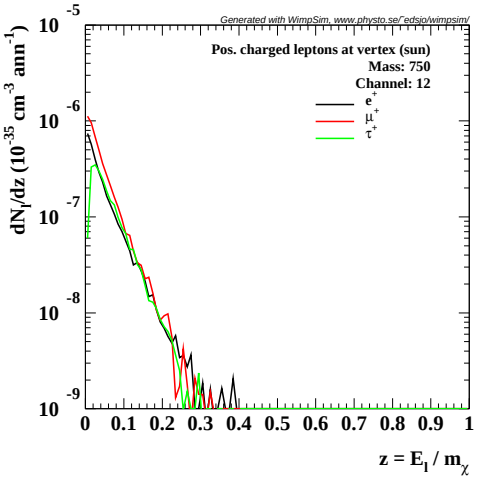
13.7.1 Neutrino fluxes at detector (Sun)



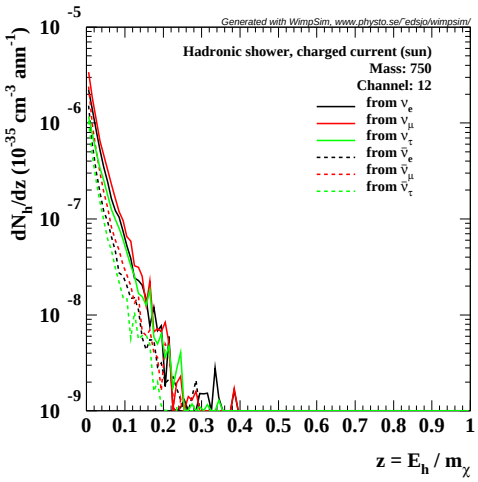


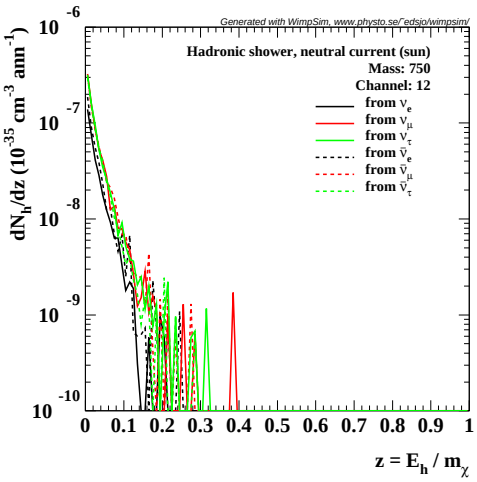
13.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



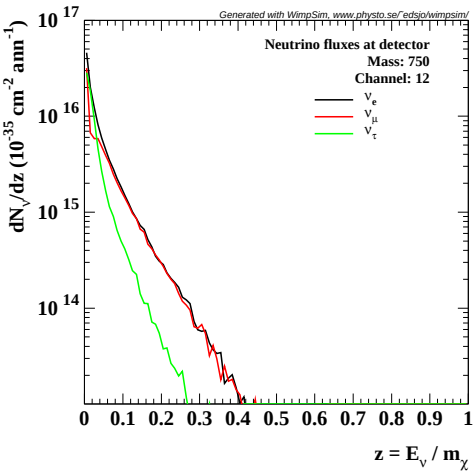


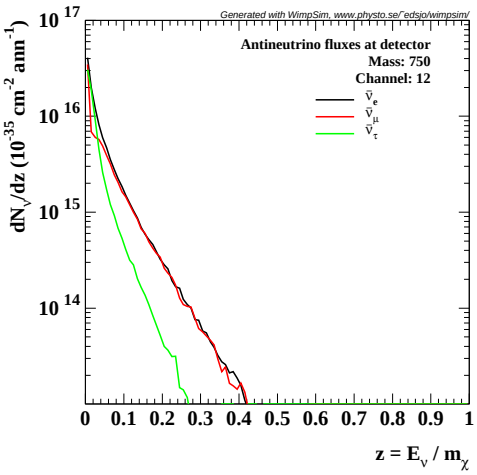
13.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



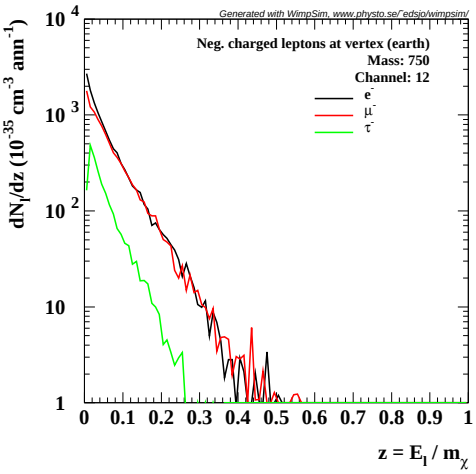


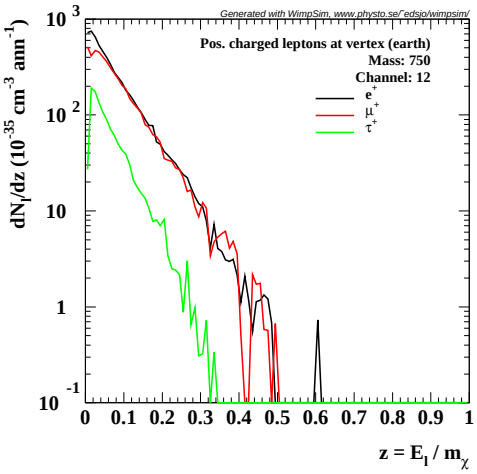
13.7.4 Neutrino fluxes at detector (Earth)



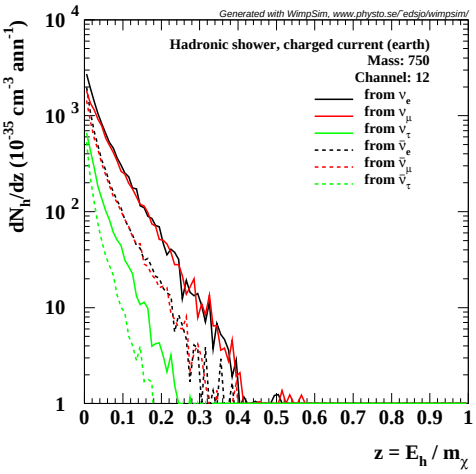


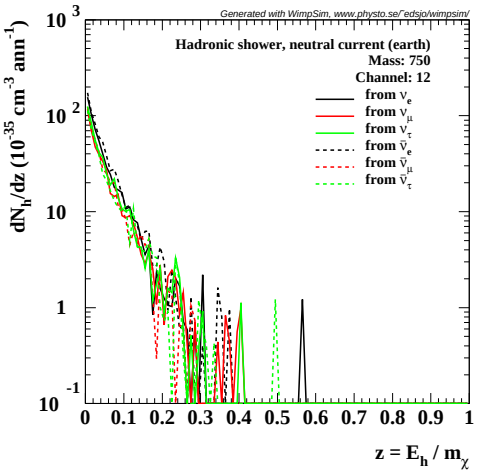
13.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



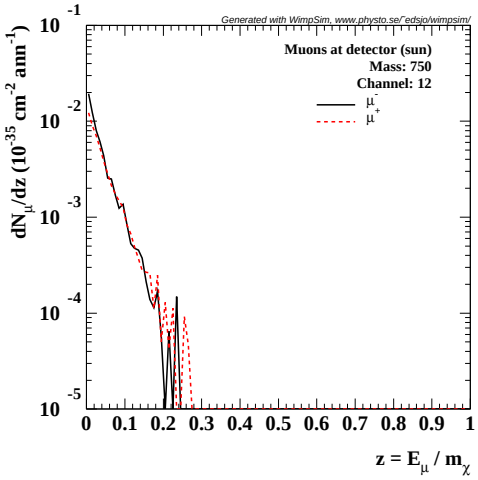


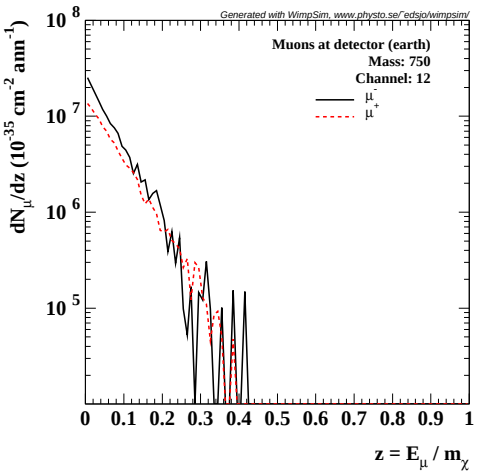
13.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





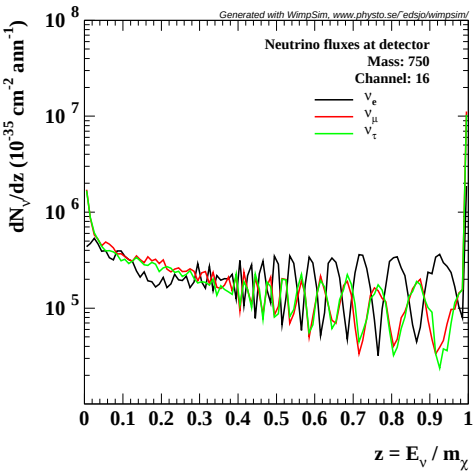
13.7.7 Muons at detector (Sun/Earth)

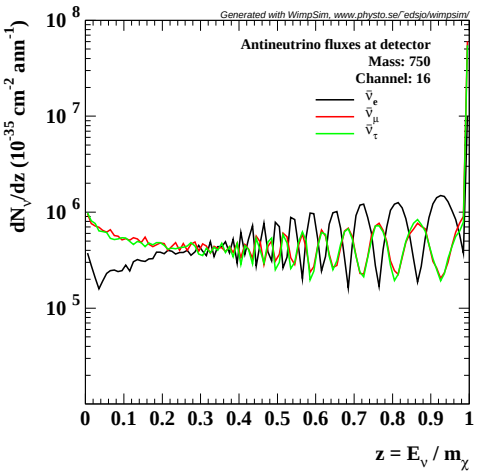




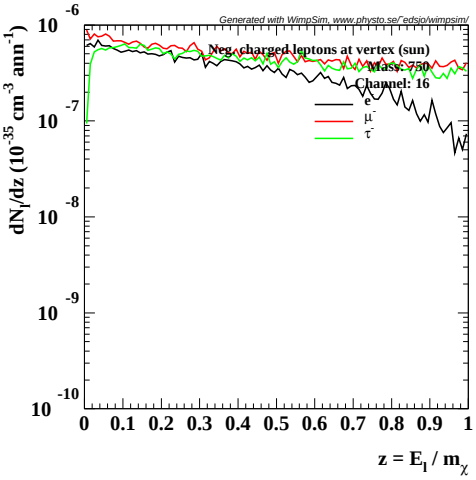
13.8 Channel 16 – $\nu_e\bar{\nu}_e$

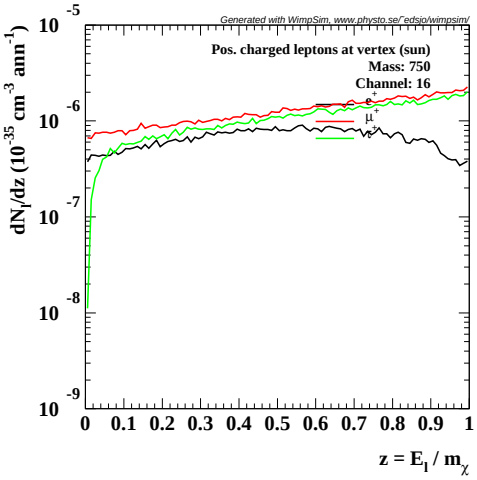
13.8.1 Neutrino fluxes at detector (Sun)



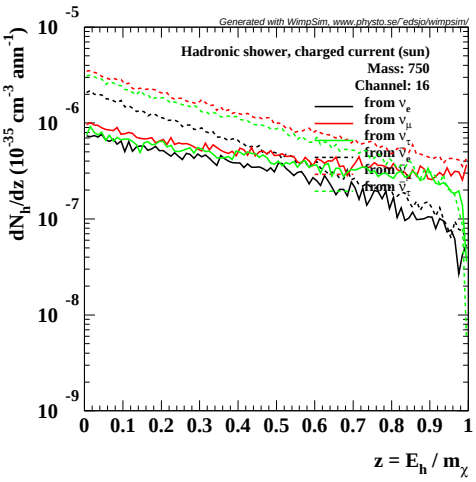


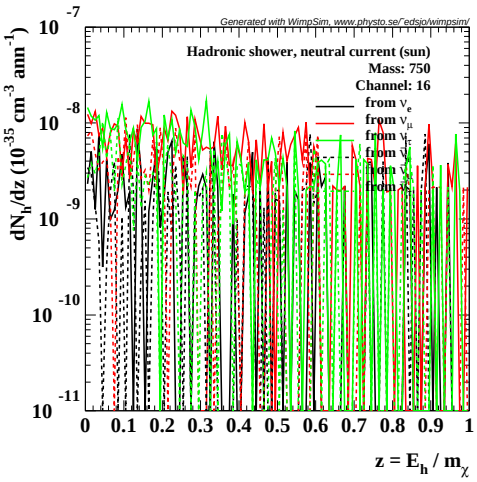
13.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



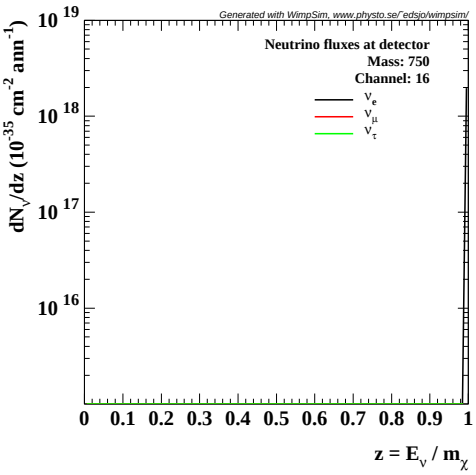


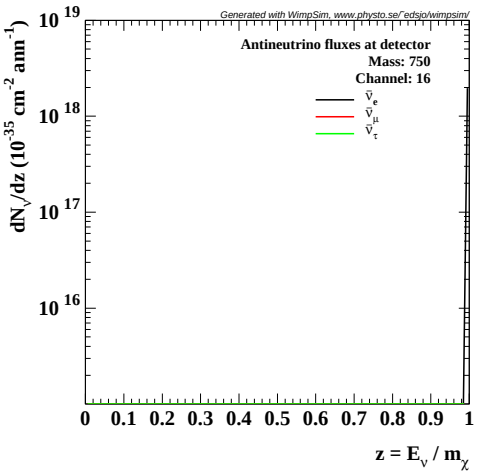
13.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



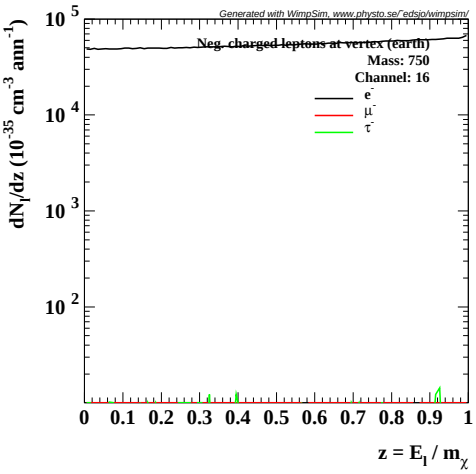


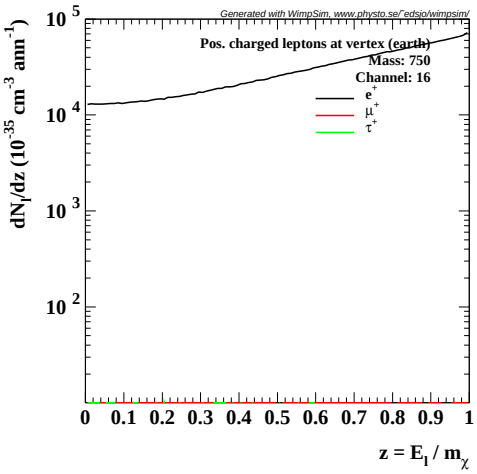
13.8.4 Neutrino fluxes at detector (Earth)



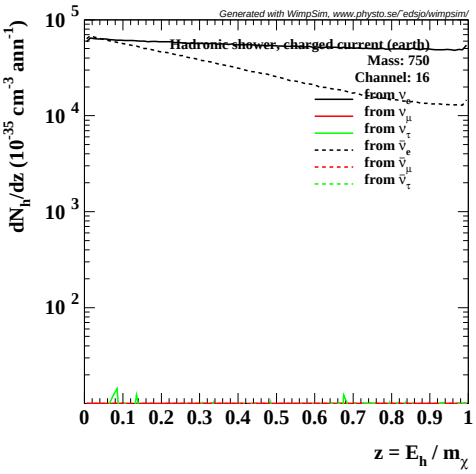


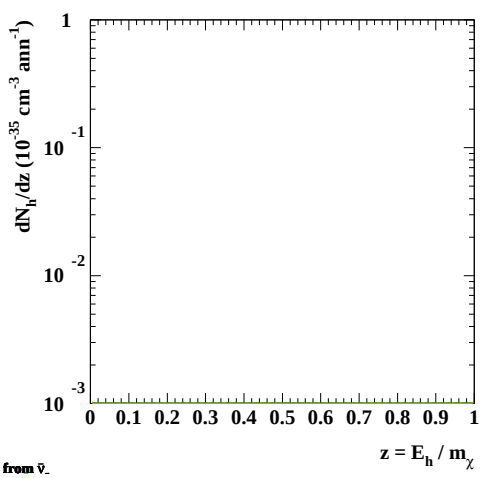
13.8.5 Charged leptons at neutrino-nucleon vertex (Earth)



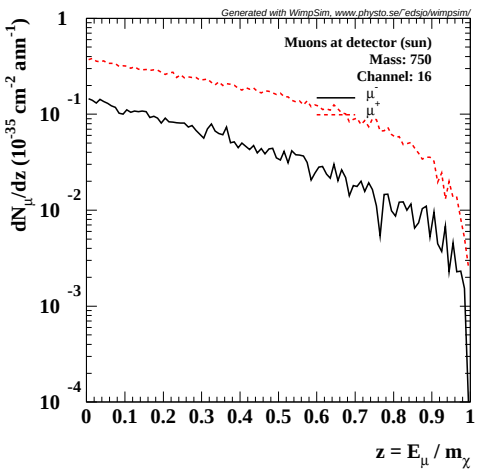


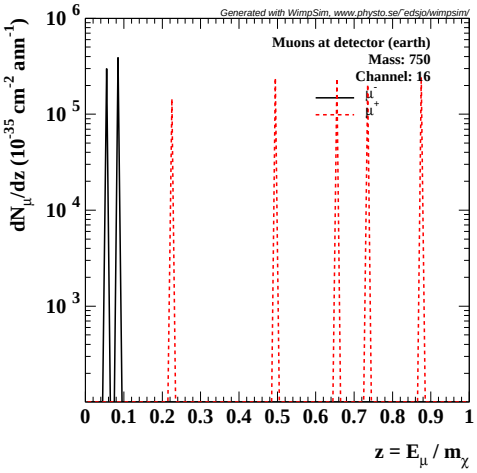
13.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)





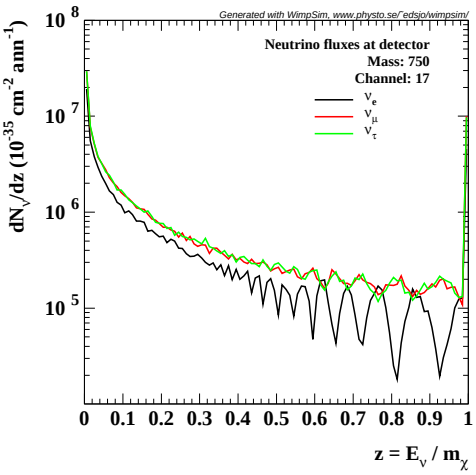
13.8.7 Muons at detector (Sun/Earth)

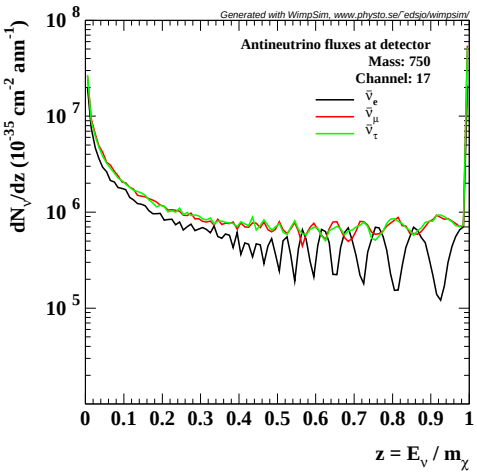




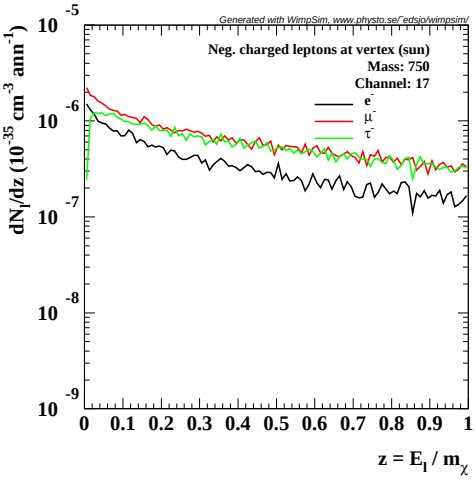
13.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

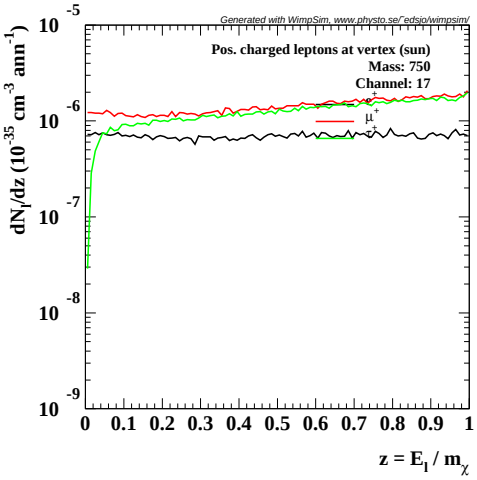
13.9.1 Neutrino fluxes at detector (Sun)



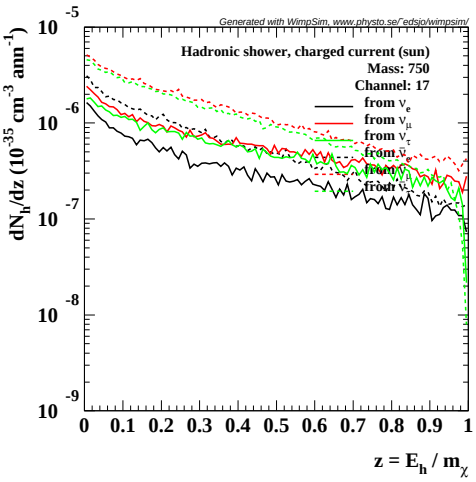


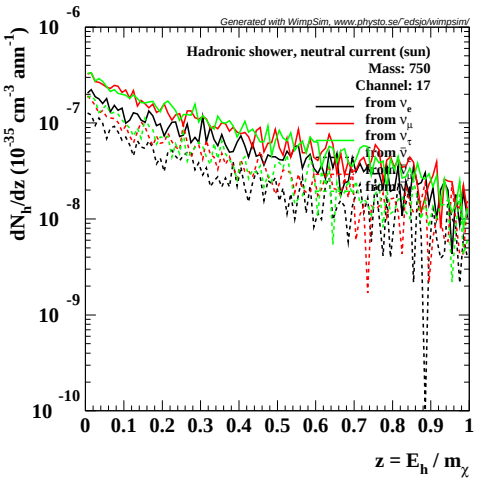
13.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



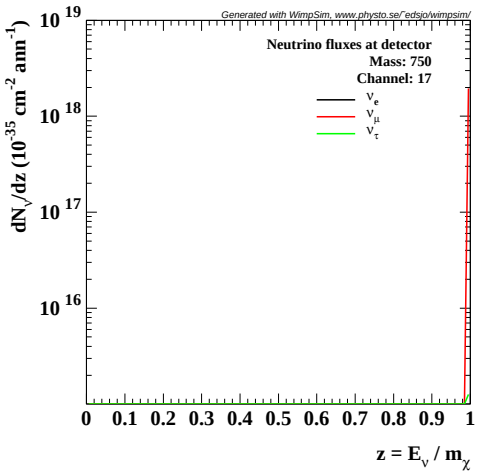


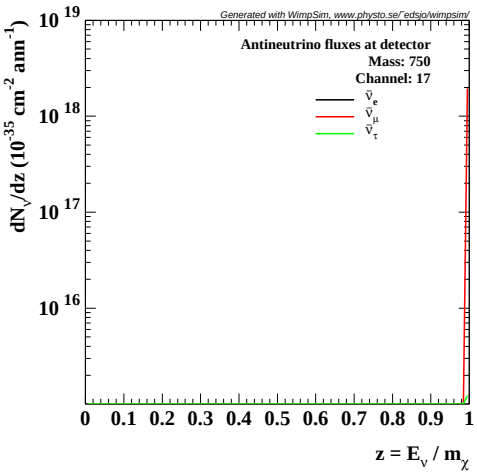
13.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



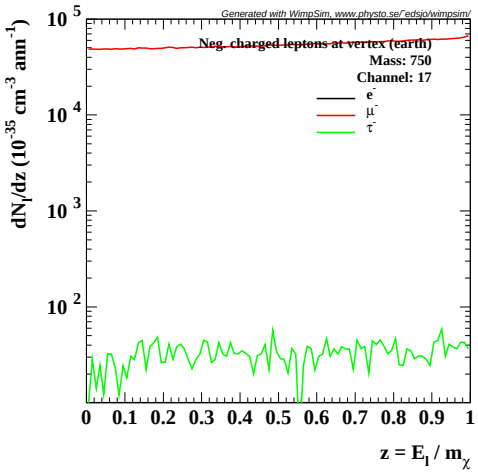


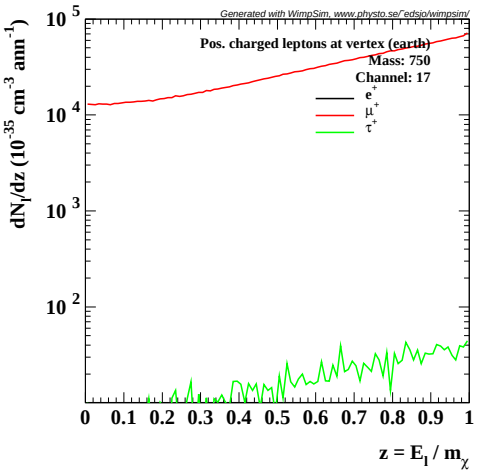
13.9.4 Neutrino fluxes at detector (Earth)



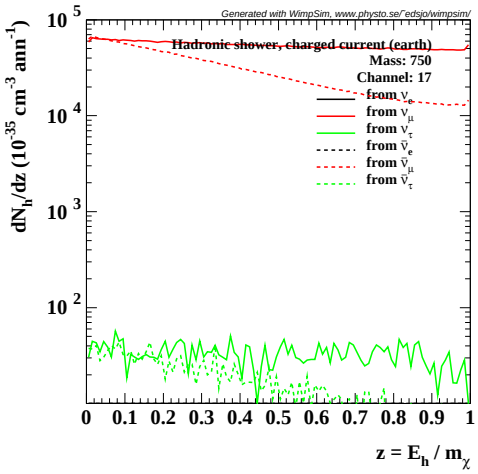


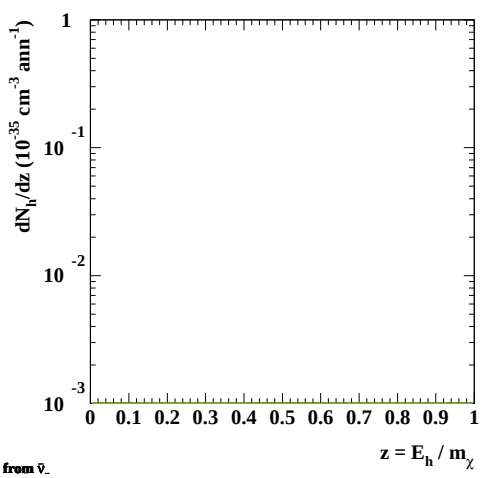
13.9.5 Charged leptons at neutrino-nucleon vertex (Earth)





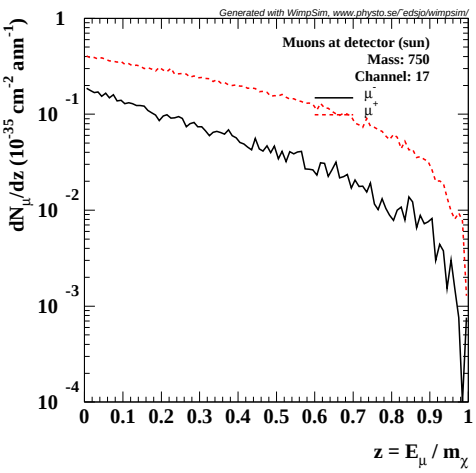
13.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)

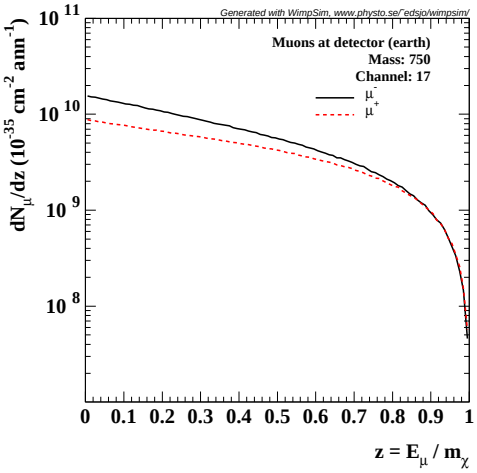




from $\bar{\nu}_\tau$

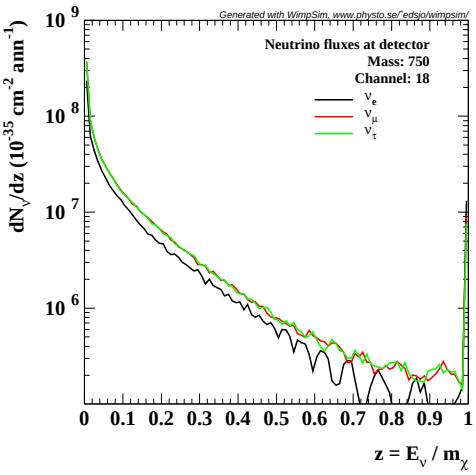
13.9.7 Muons at detector (Sun/Earth)

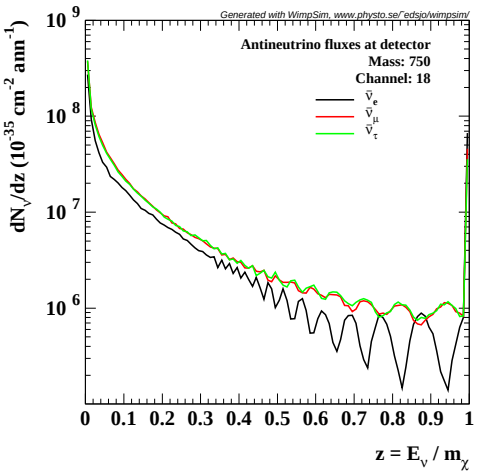




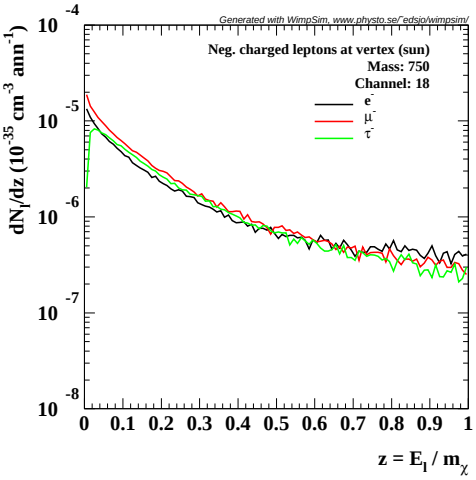
13.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

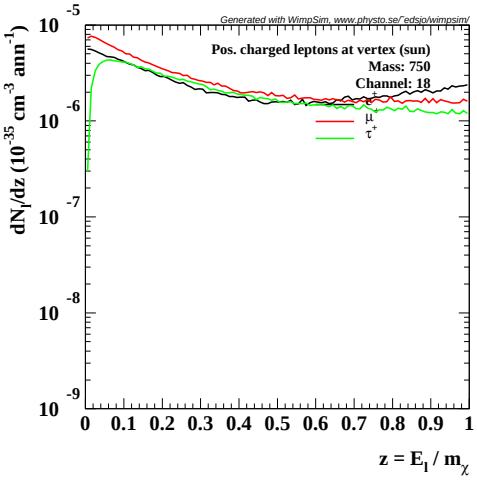
13.10.1 Neutrino fluxes at detector (Sun)



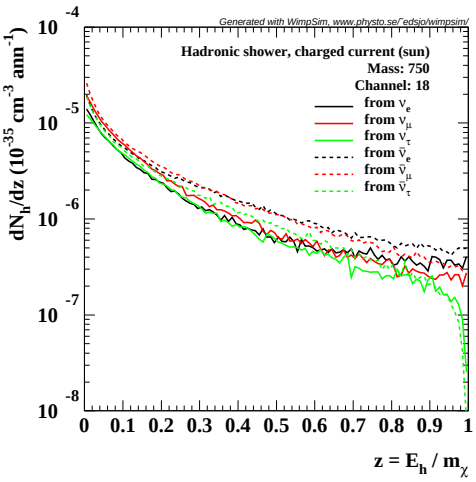


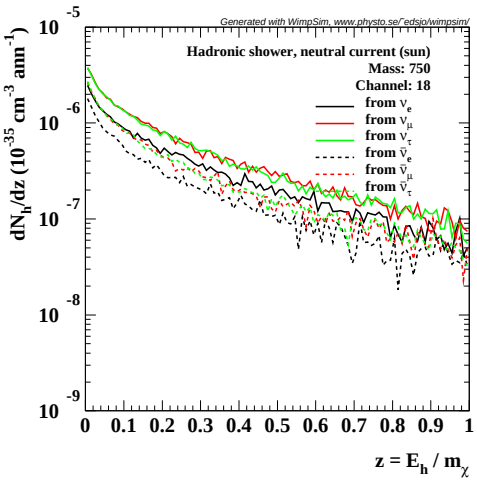
13.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



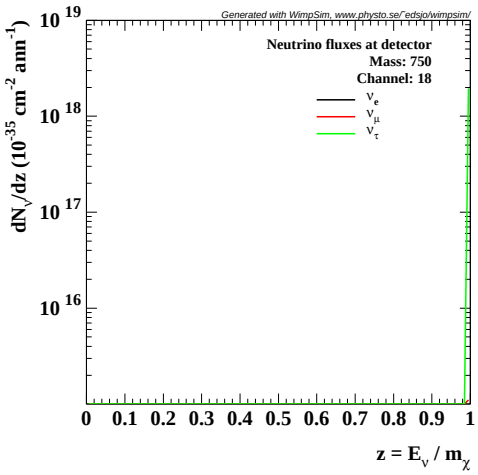


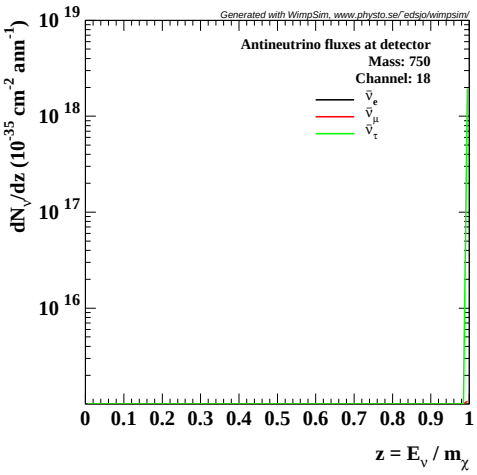
13.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



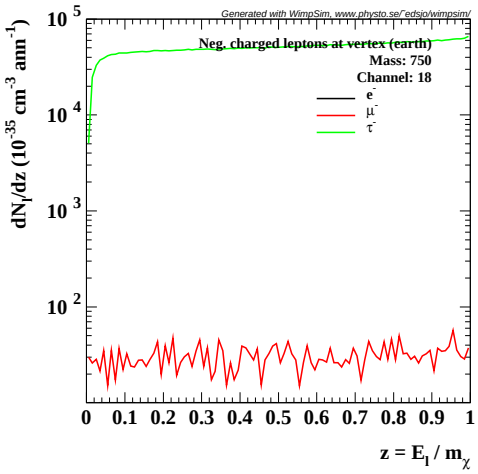


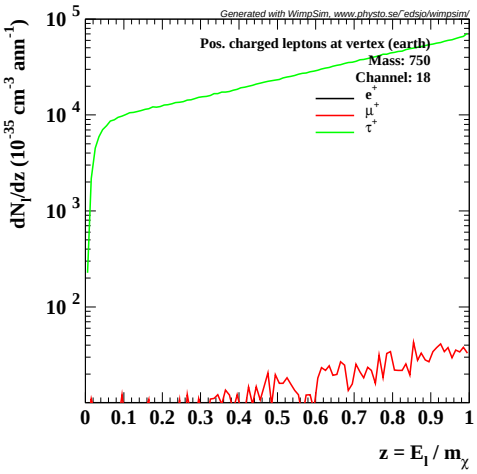
13.10.4 Neutrino fluxes at detector (Earth)



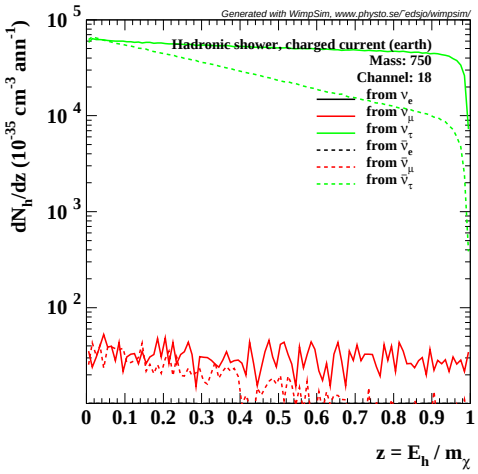


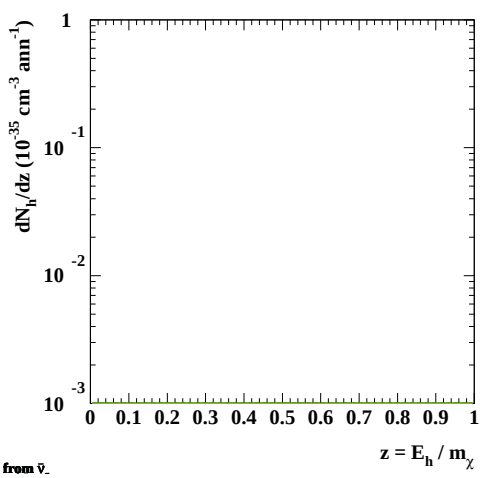
13.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





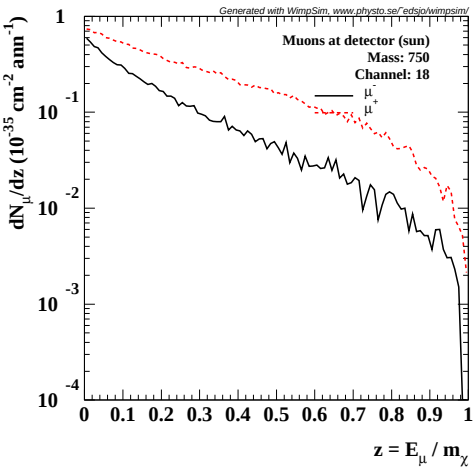
13.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

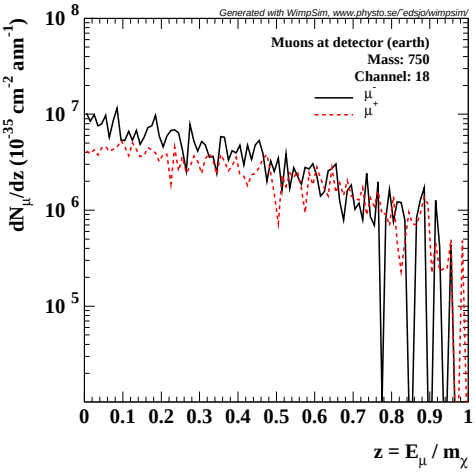




from $\bar{\nu}_\tau$

13.10.7 Muons at detector (Sun/Earth)

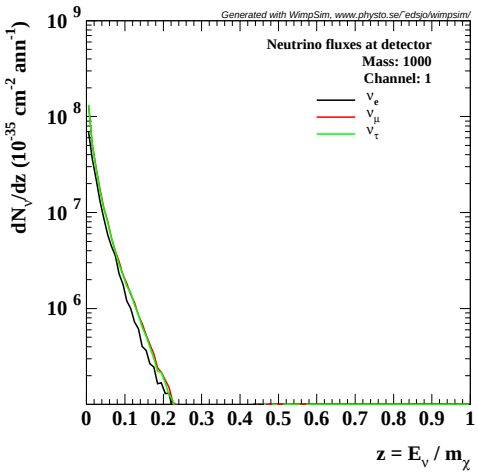


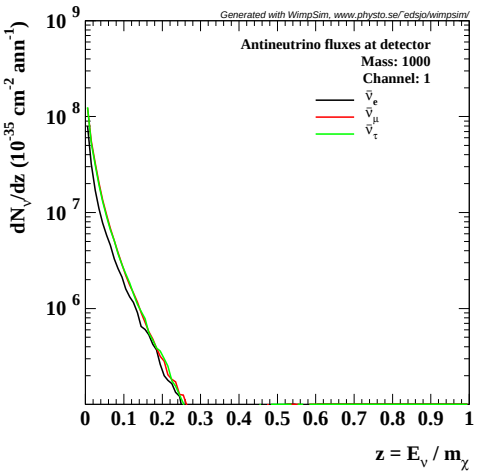


14 Mass 1000

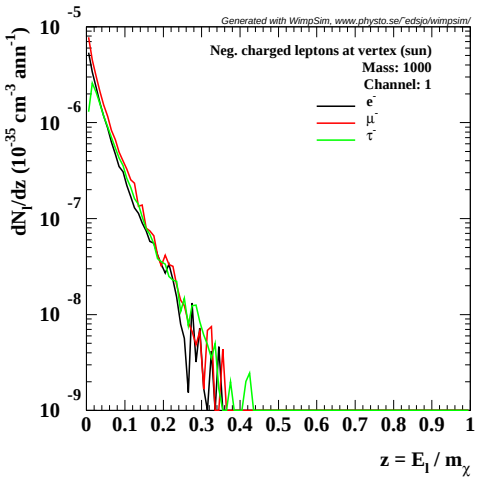
14.1 Channel 1 – $c\bar{c}$

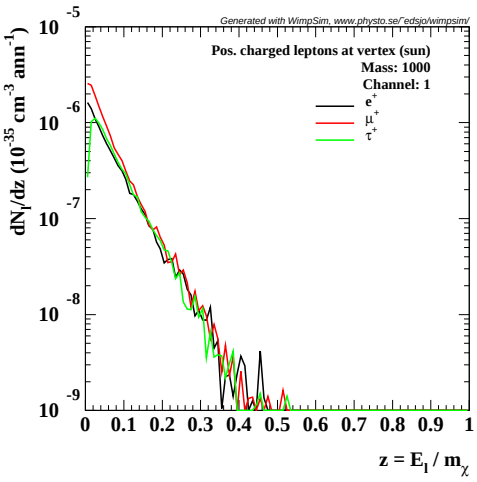
14.1.1 Neutrino fluxes at detector (Sun)



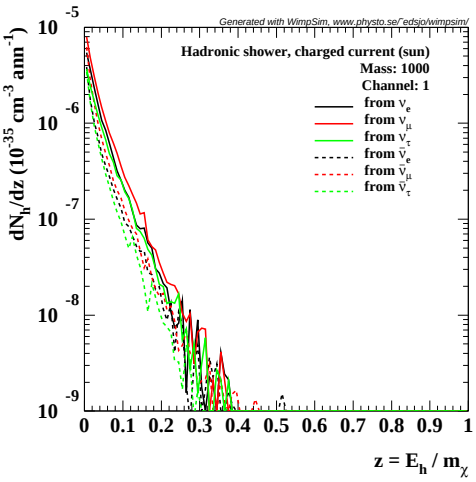


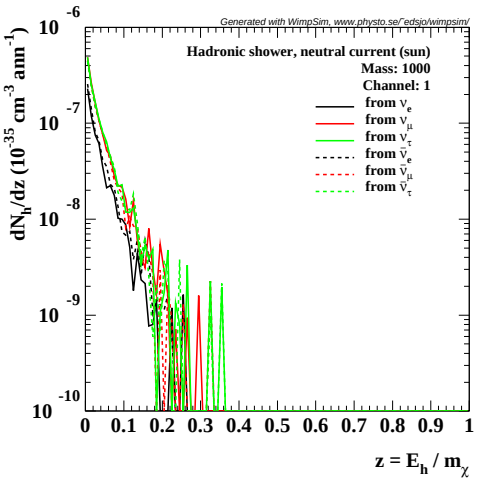
14.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



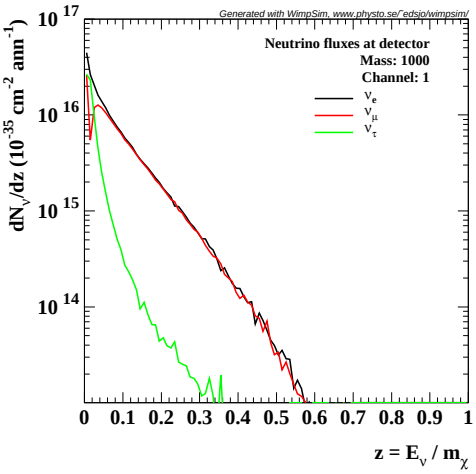


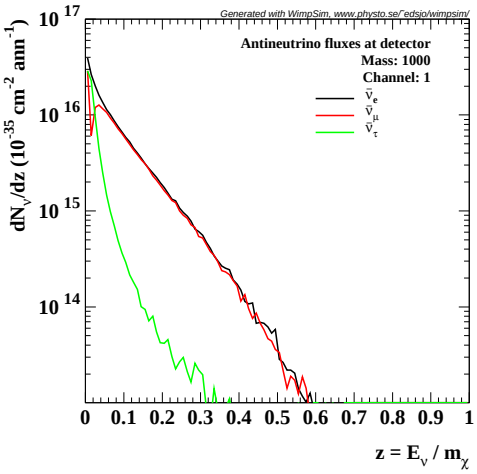
14.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



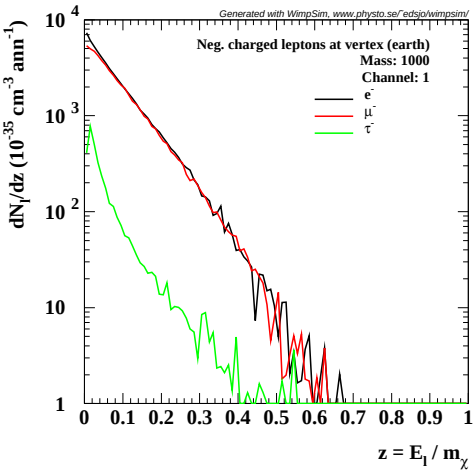


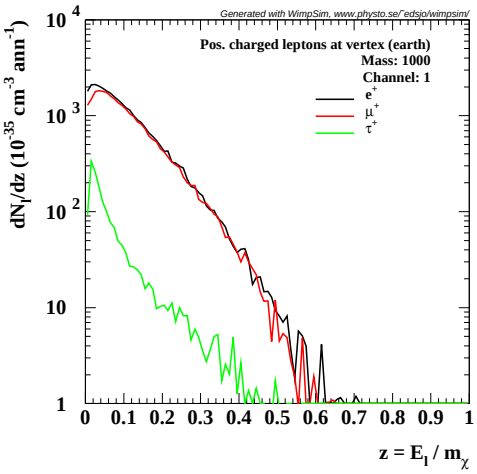
14.1.4 Neutrino fluxes at detector (Earth)



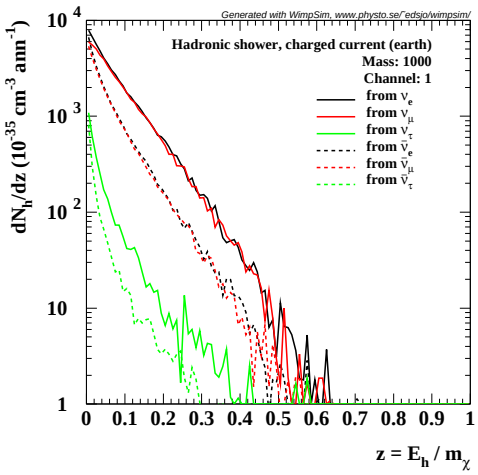


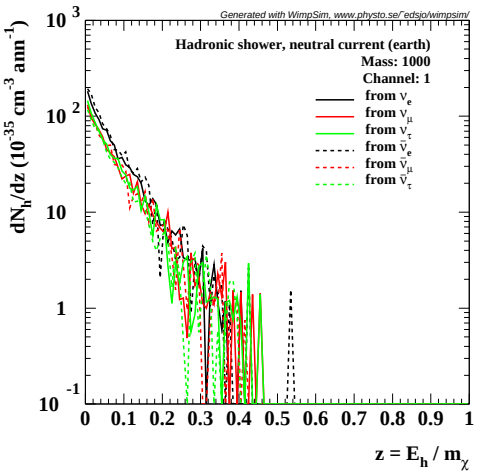
14.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



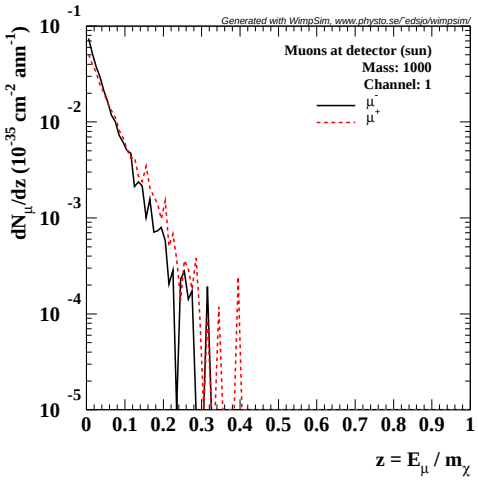


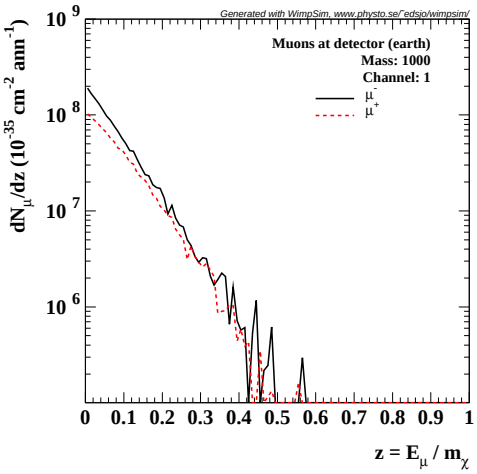
14.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





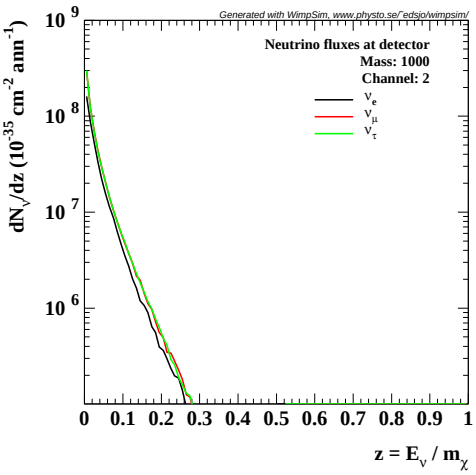
14.1.7 Muons at detector (Sun/Earth)

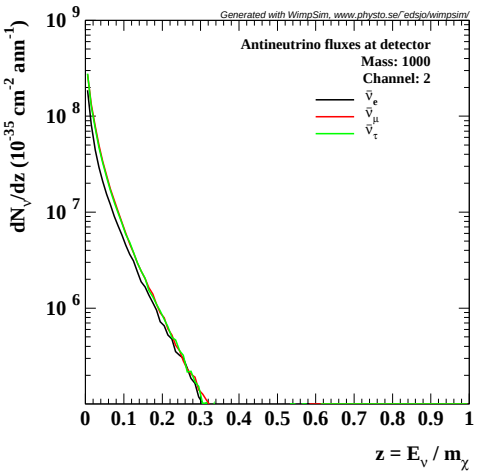




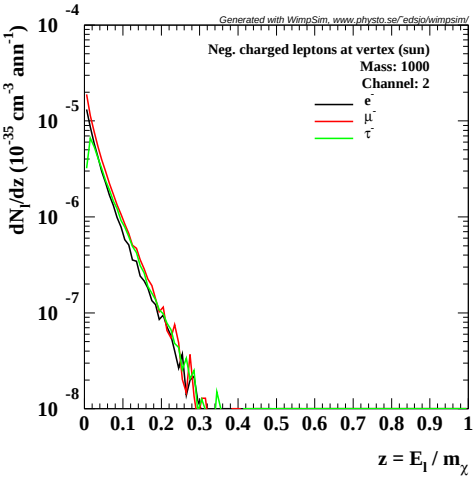
14.2 Channel 2 – $b\bar{b}$

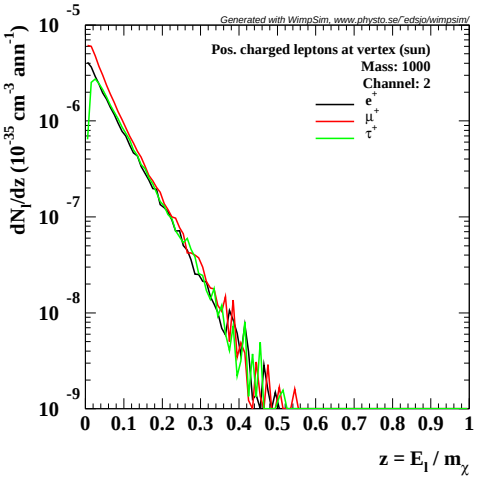
14.2.1 Neutrino fluxes at detector (Sun)



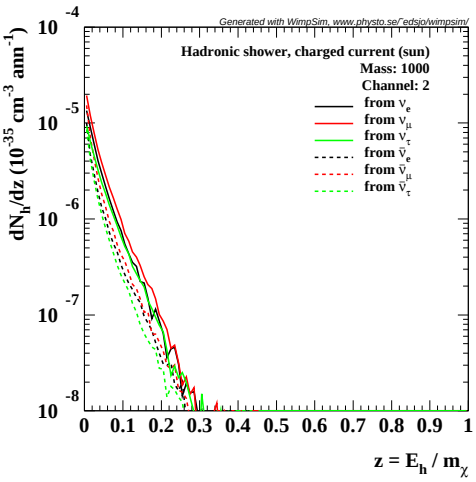


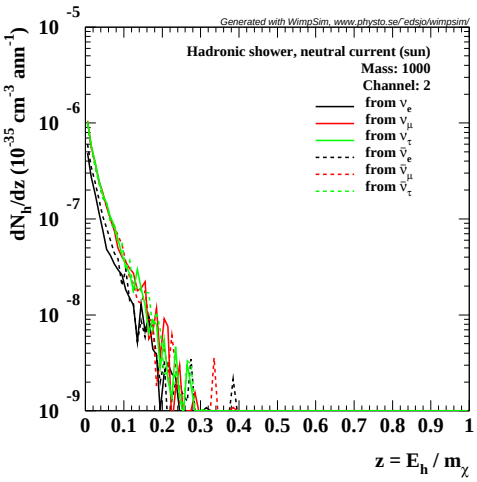
14.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



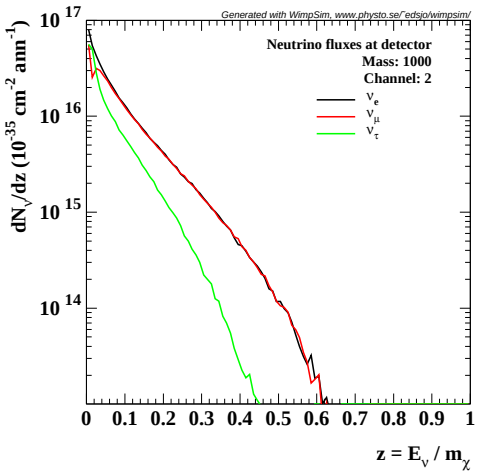


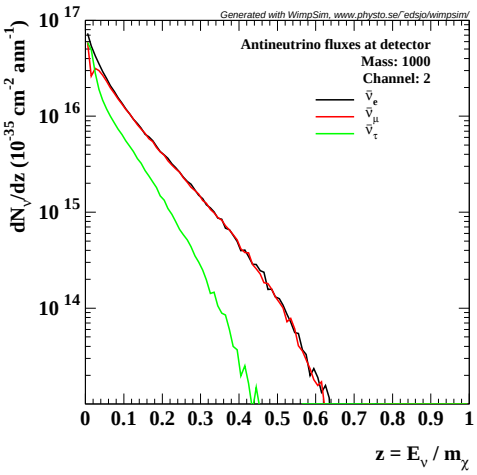
14.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



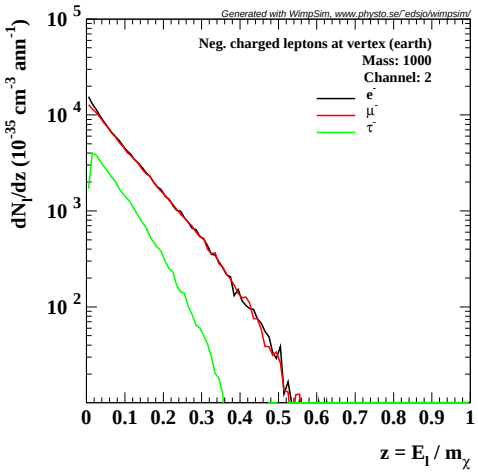


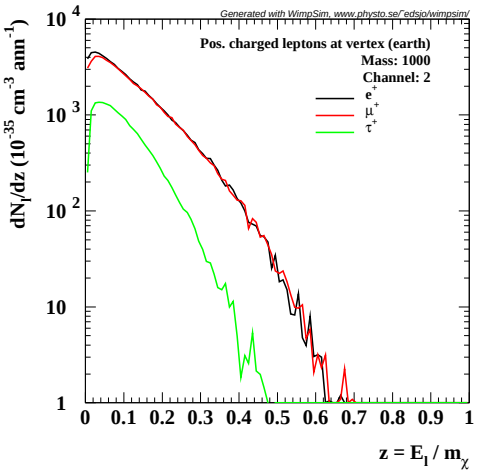
14.2.4 Neutrino fluxes at detector (Earth)



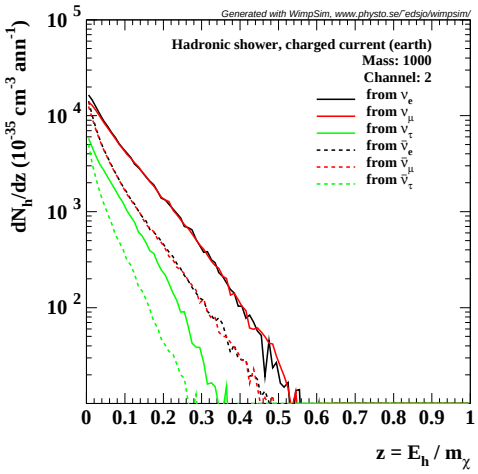


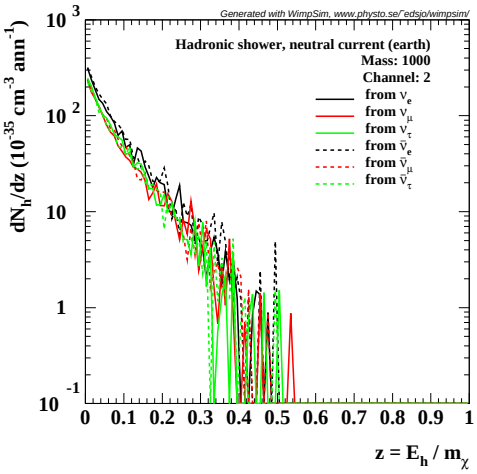
14.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



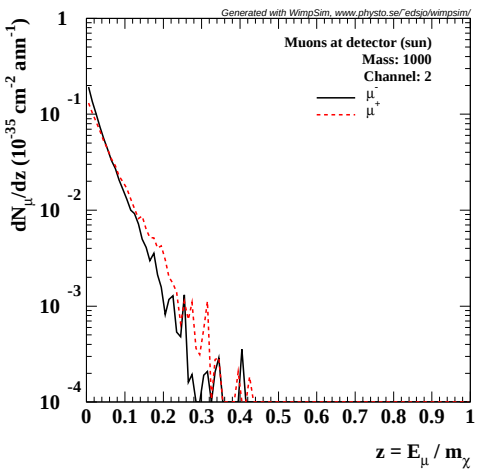


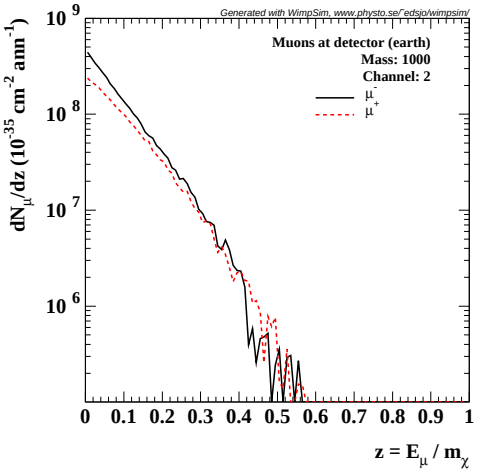
14.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





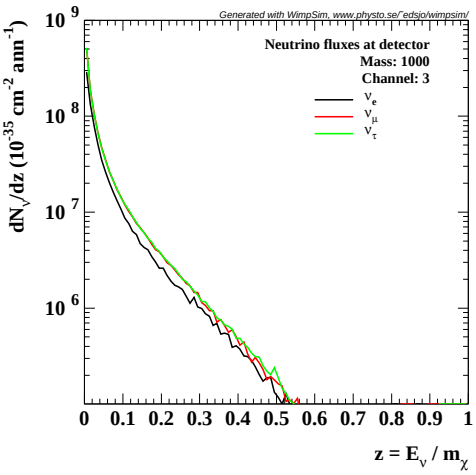
14.2.7 Muons at detector (Sun/Earth)

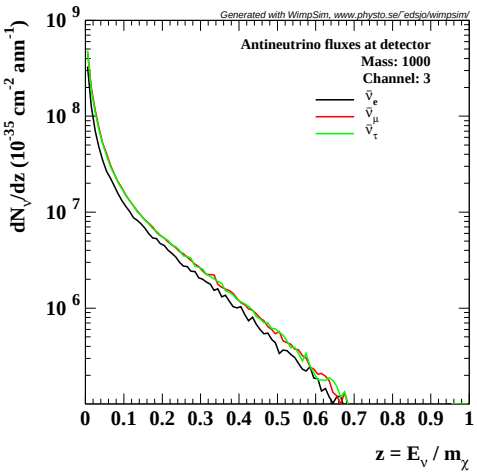




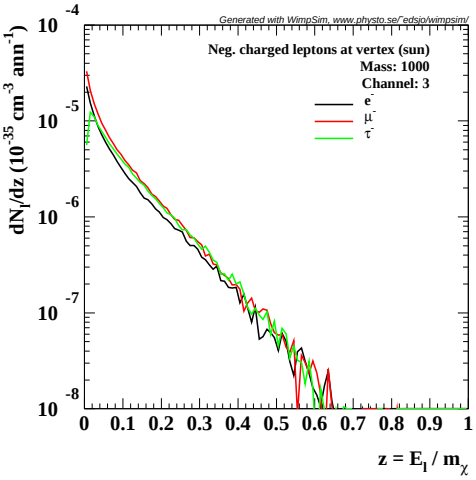
14.3 Channel 3 – $t\bar{t}$

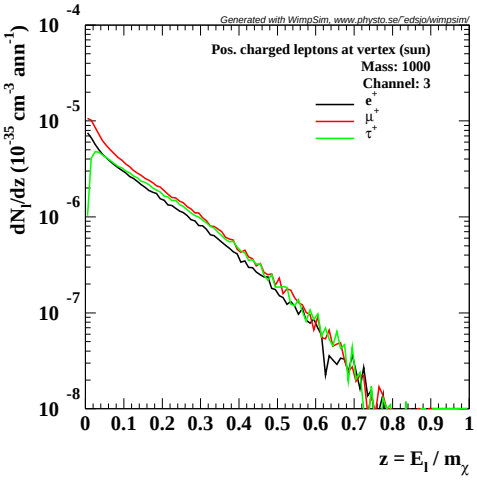
14.3.1 Neutrino fluxes at detector (Sun)



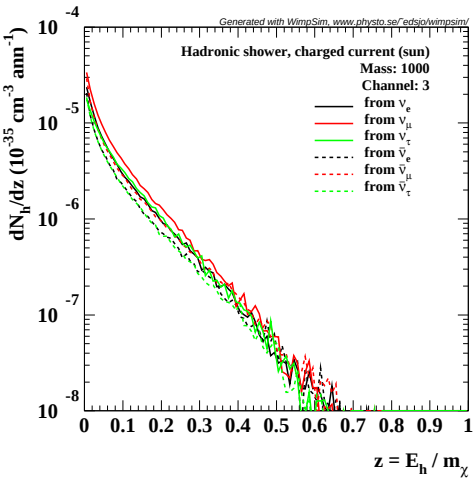


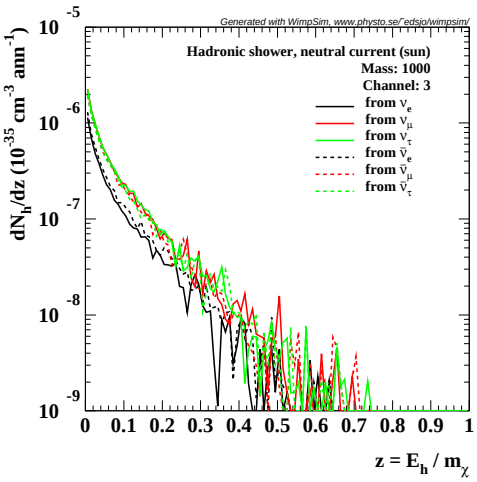
14.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



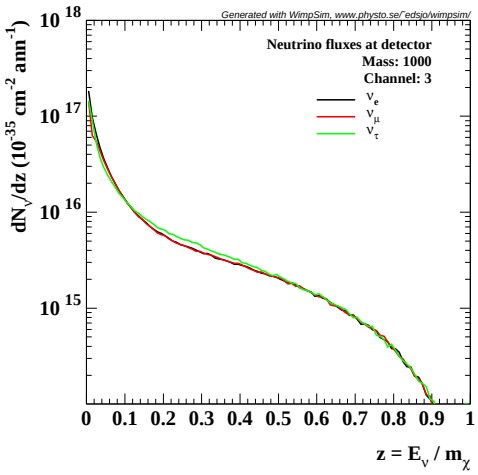


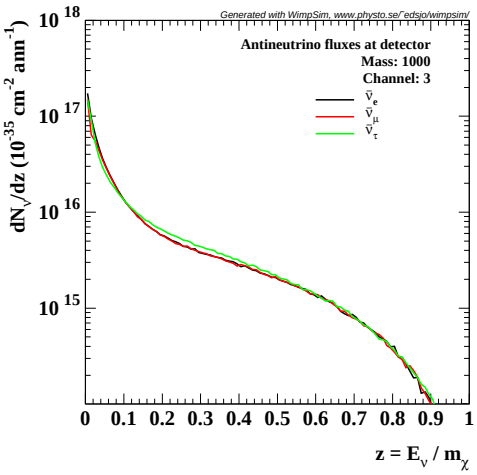
14.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



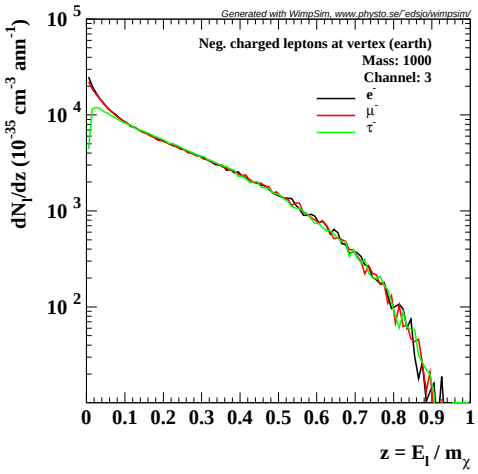


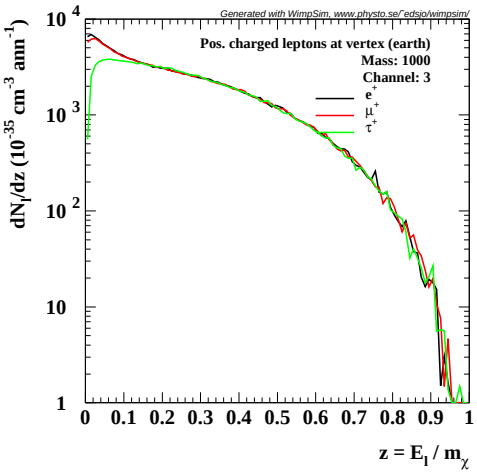
14.3.4 Neutrino fluxes at detector (Earth)



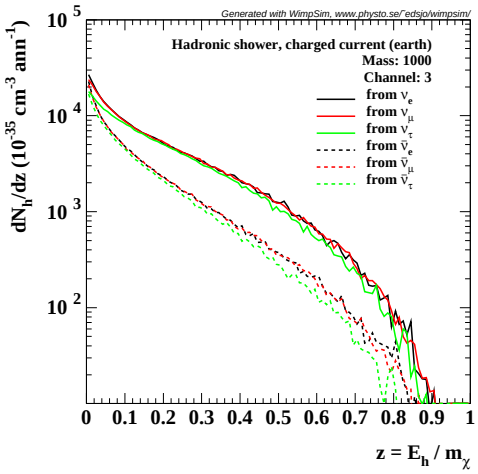


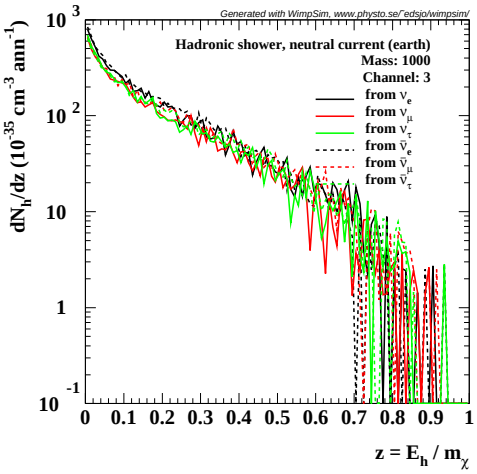
14.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



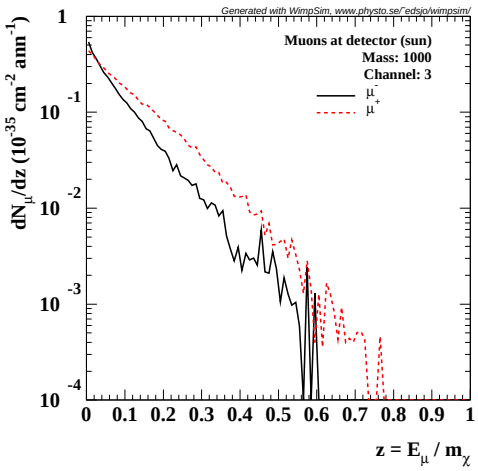


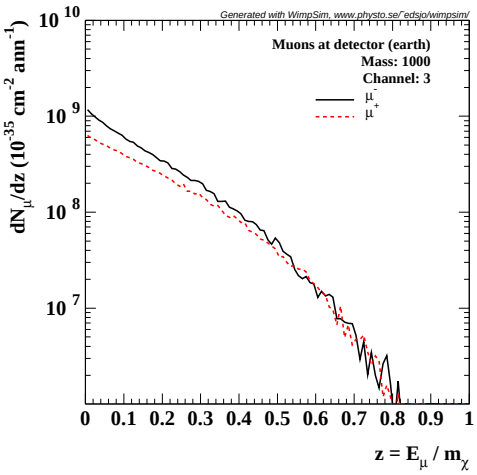
14.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





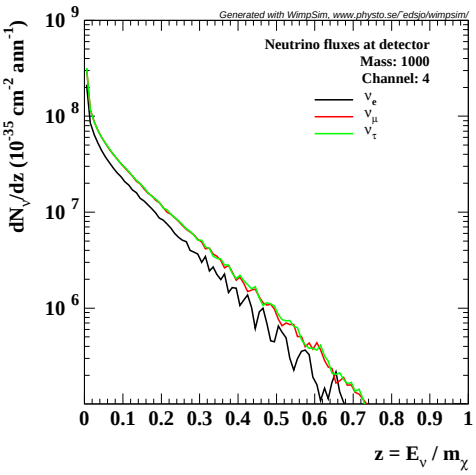
14.3.7 Muons at detector (Sun/Earth)

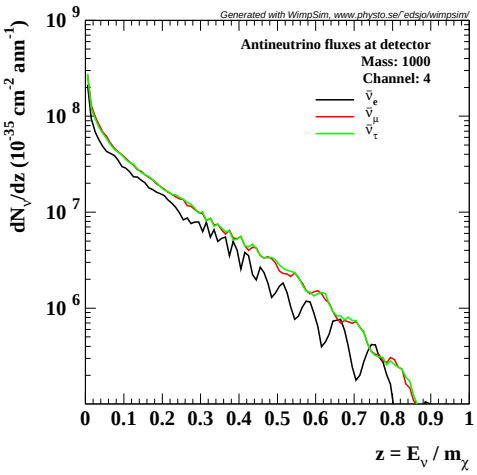




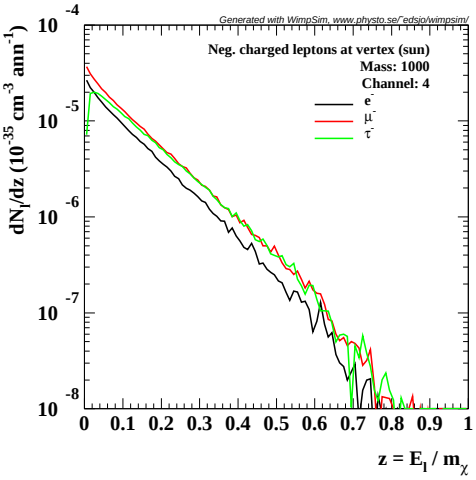
14.4 Channel 4 – $\tau^-\tau^+$

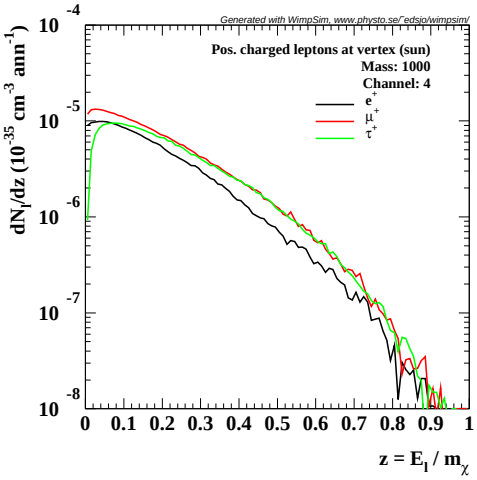
14.4.1 Neutrino fluxes at detector (Sun)



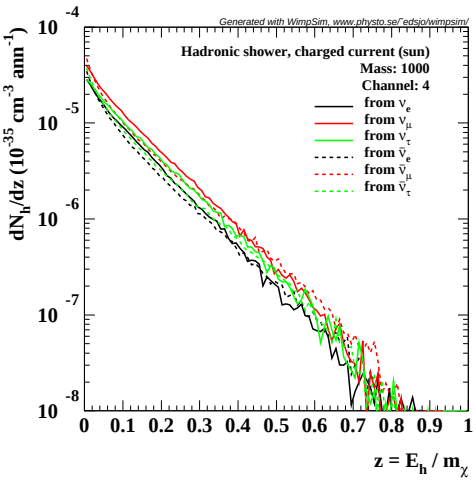


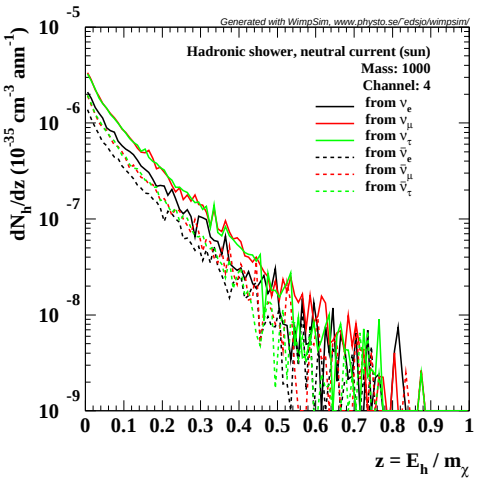
14.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



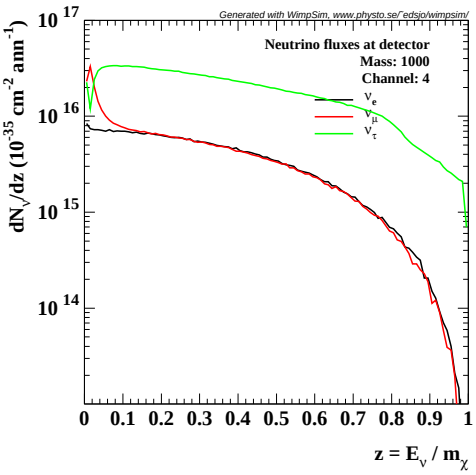


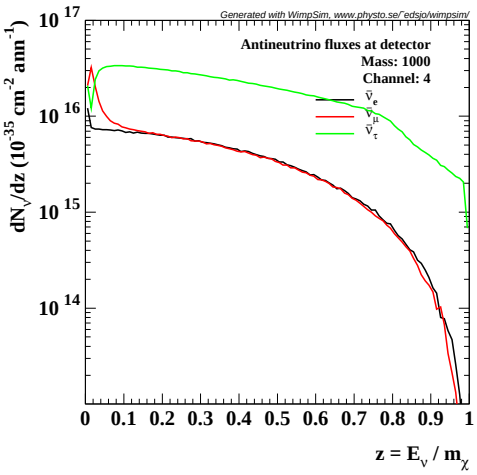
14.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



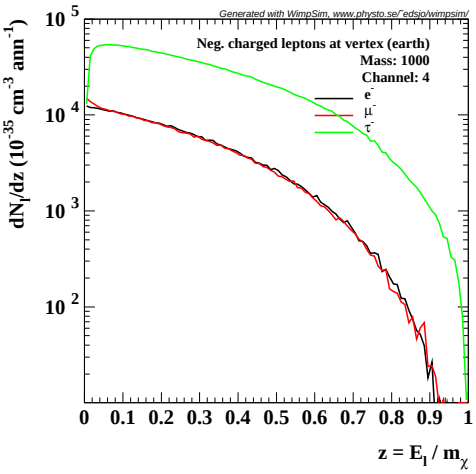


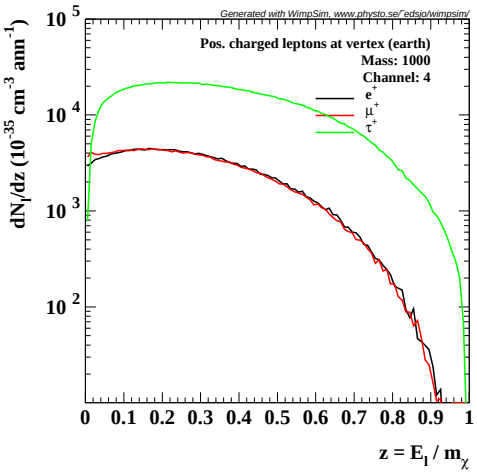
14.4.4 Neutrino fluxes at detector (Earth)



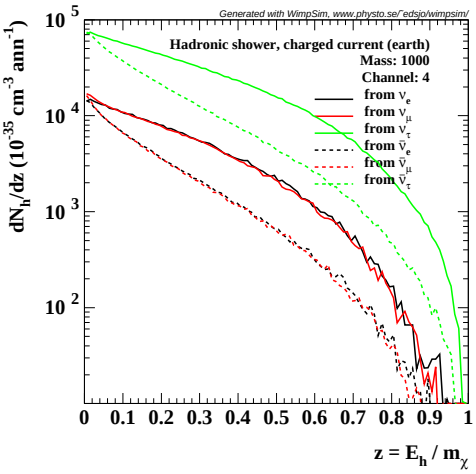


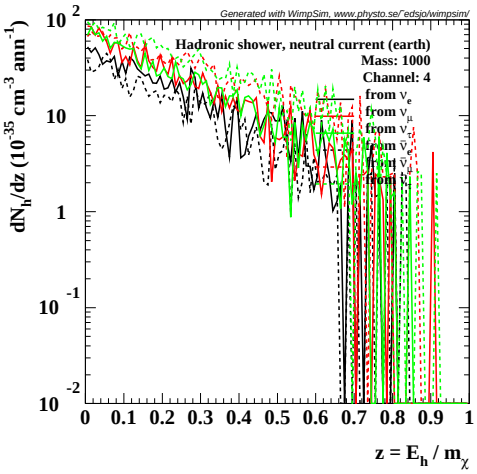
14.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



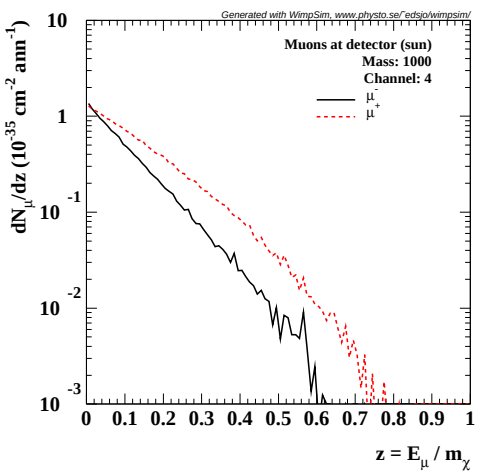


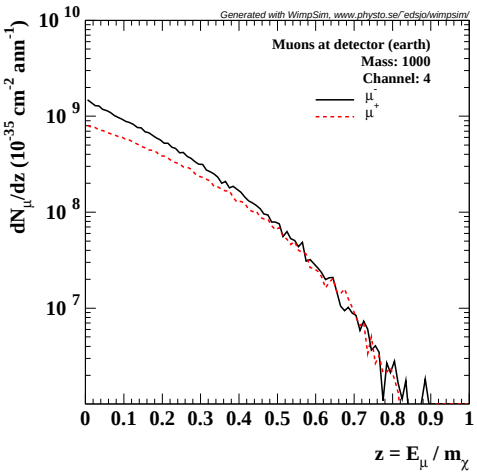
14.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





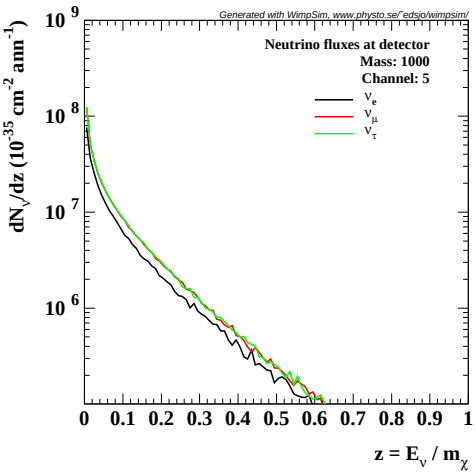
14.4.7 Muons at detector (Sun/Earth)

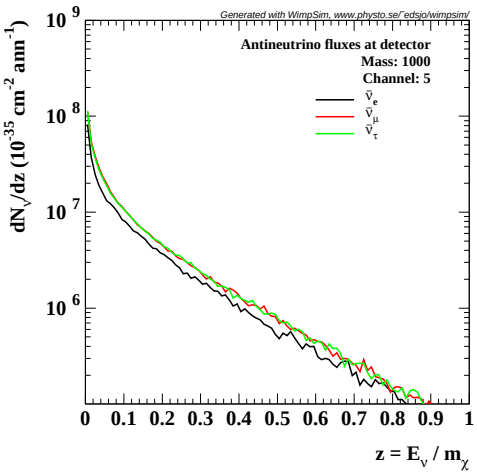




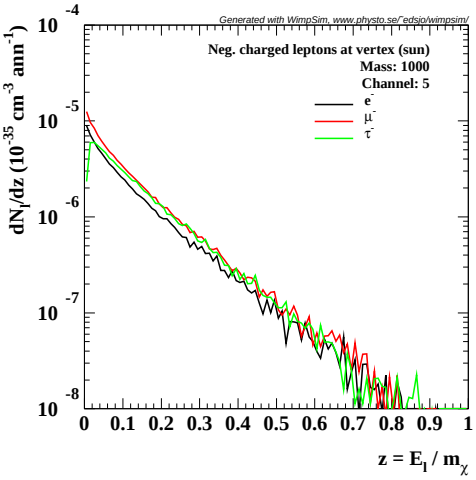
14.5 Channel 5 – W^-W^+

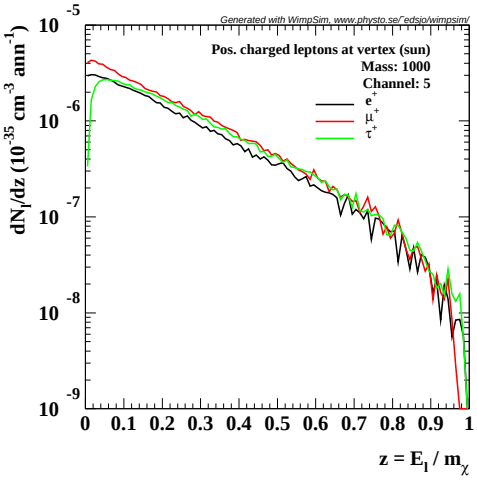
14.5.1 Neutrino fluxes at detector (Sun)



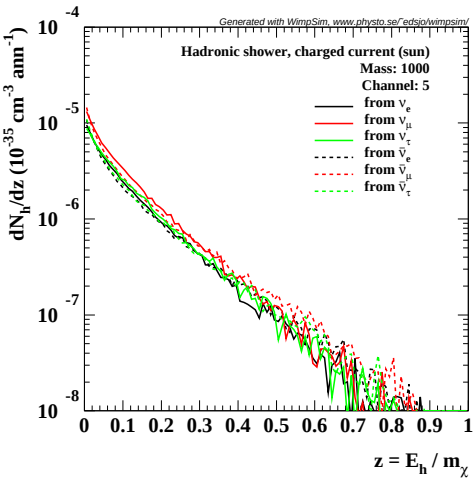


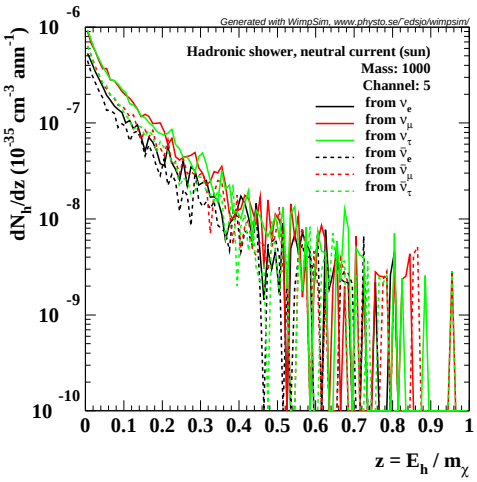
14.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



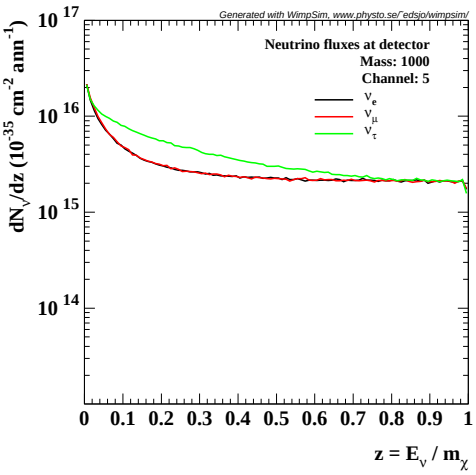


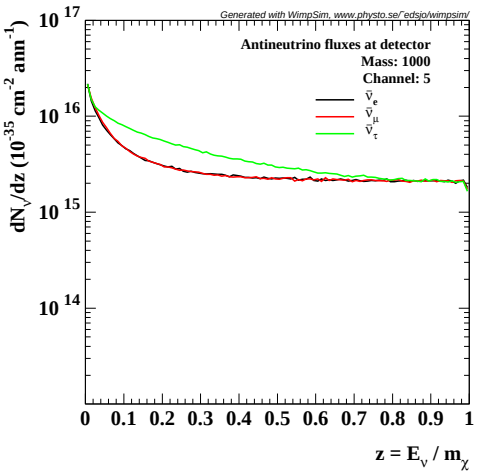
14.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



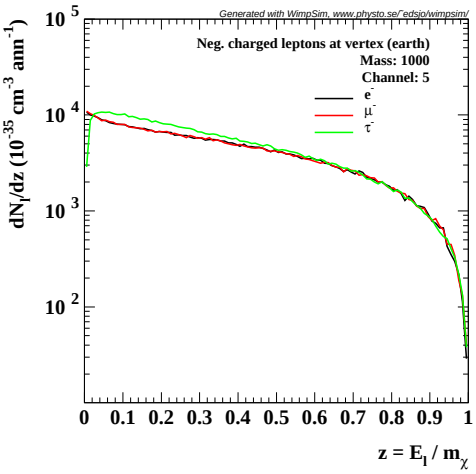


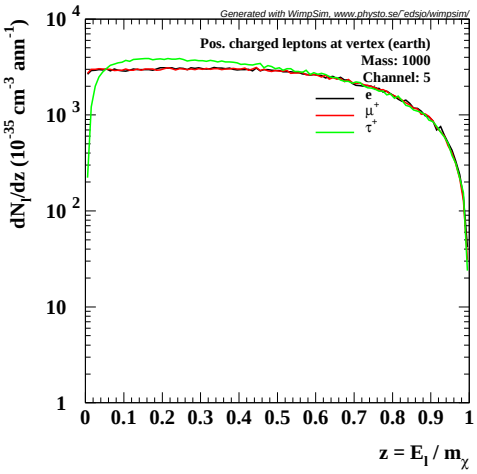
14.5.4 Neutrino fluxes at detector (Earth)



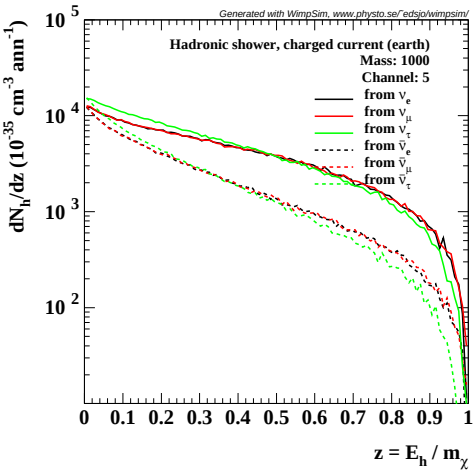


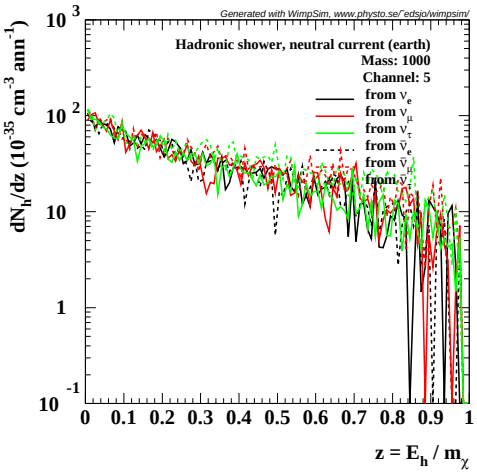
14.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



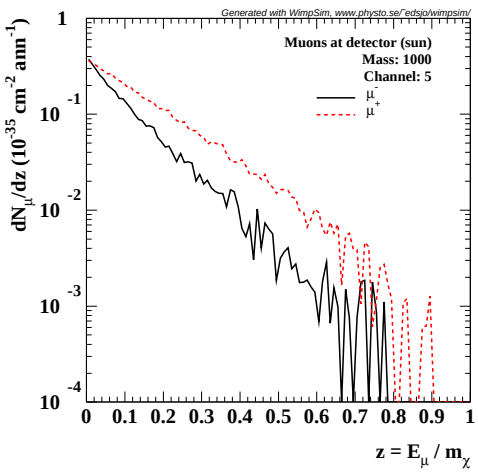


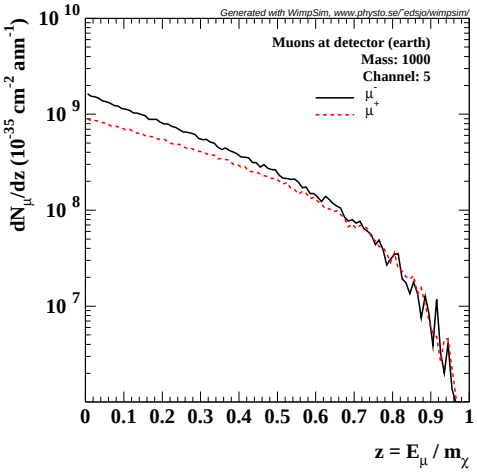
14.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





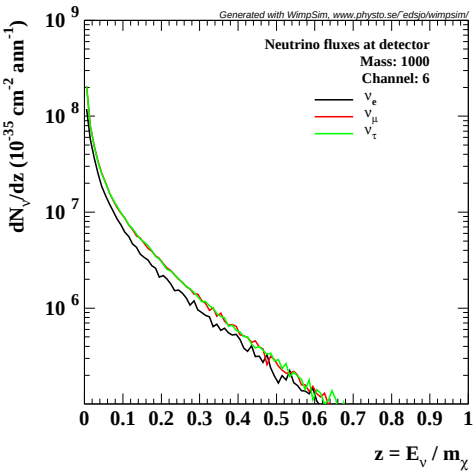
14.5.7 Muons at detector (Sun/Earth)

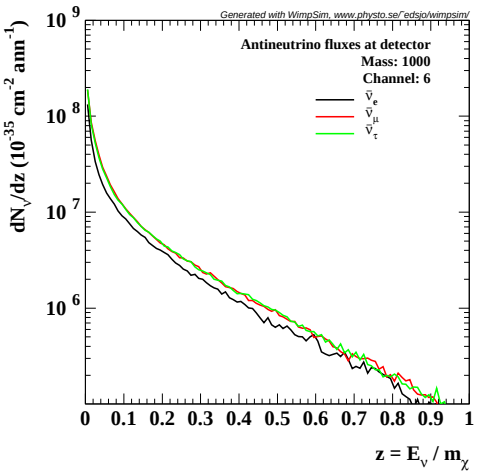




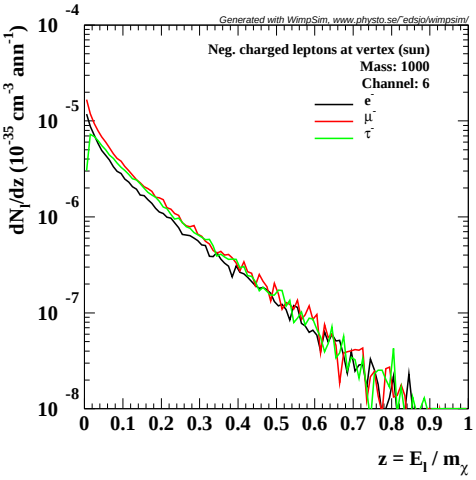
14.6 Channel 6 – $Z^0 Z^0$

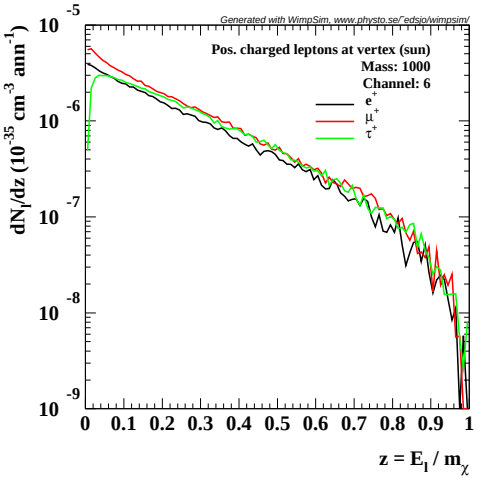
14.6.1 Neutrino fluxes at detector (Sun)



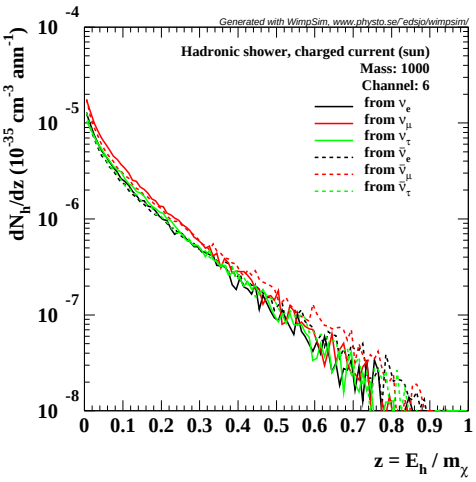


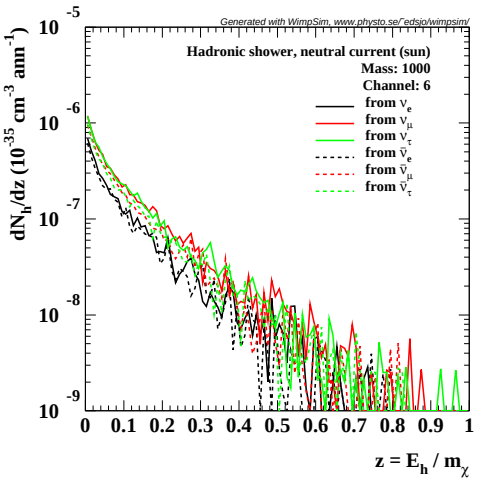
14.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



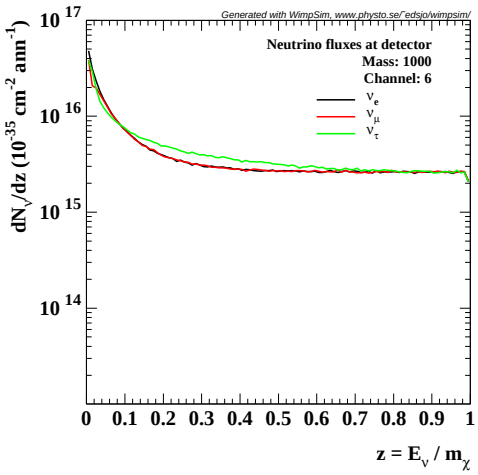


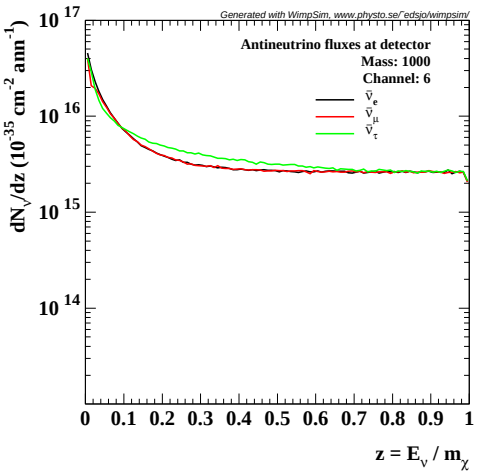
14.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



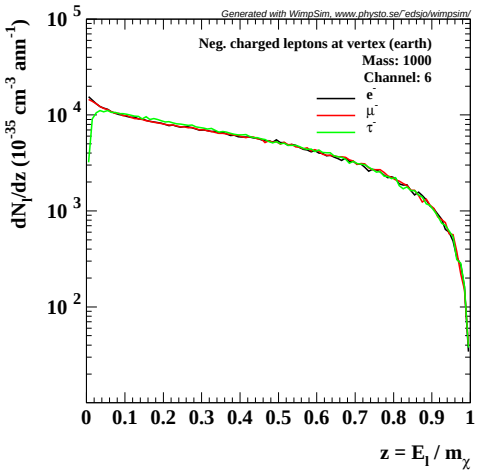


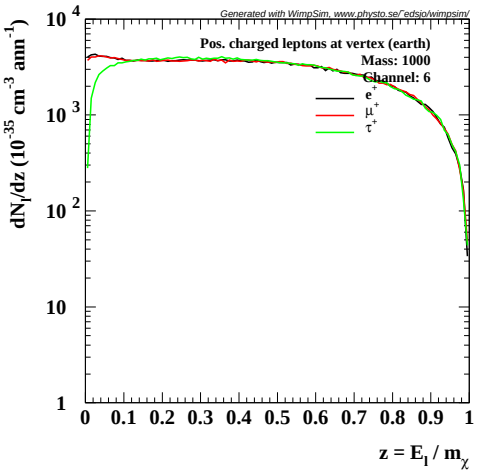
14.6.4 Neutrino fluxes at detector (Earth)



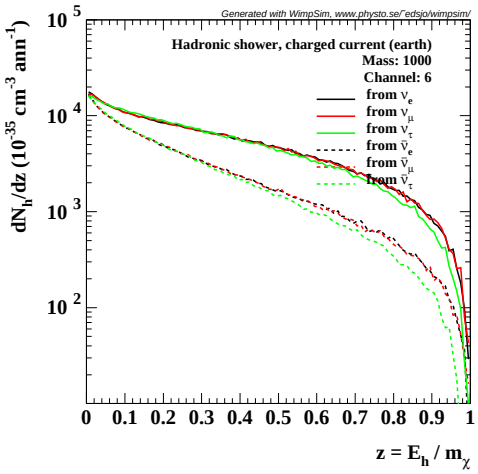


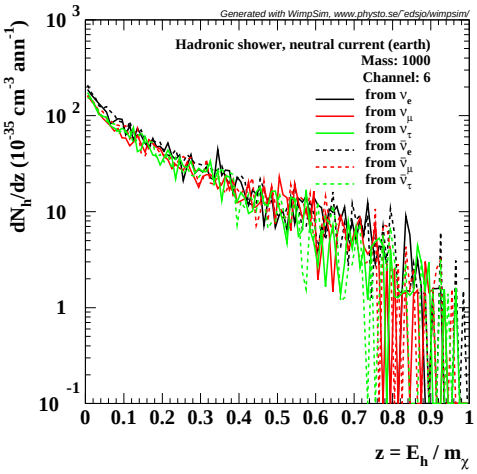
14.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



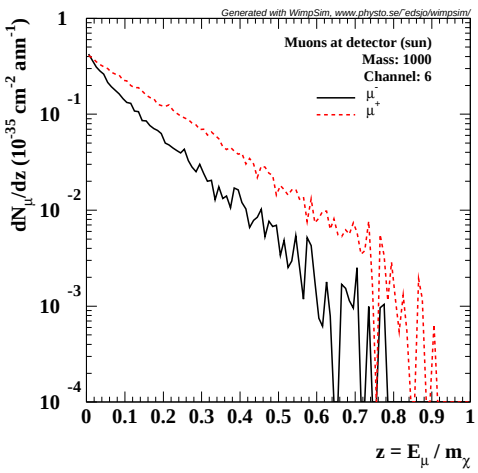


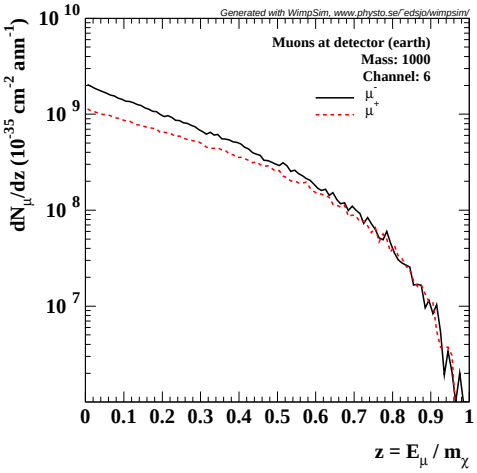
14.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





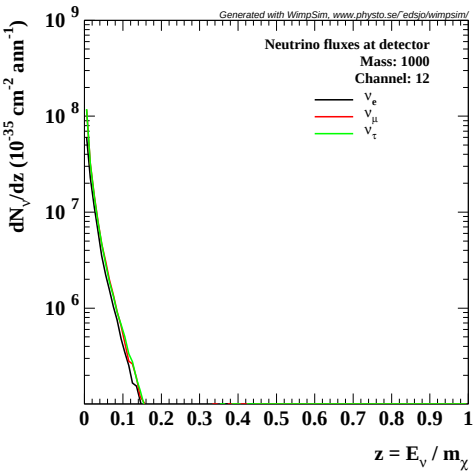
14.6.7 Muons at detector (Sun/Earth)

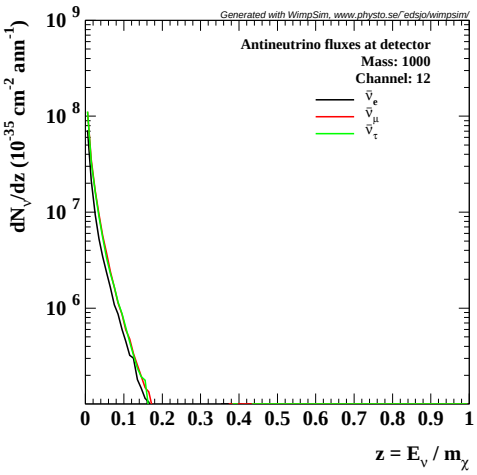




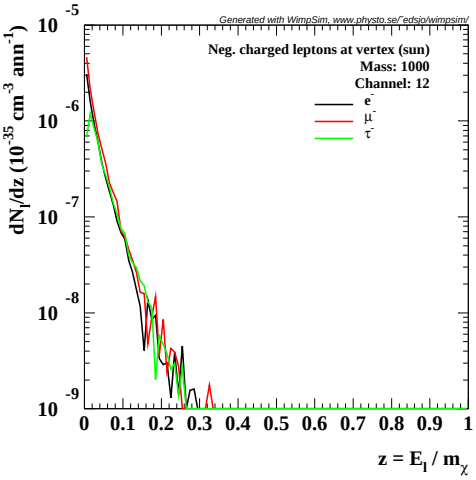
14.7 Channel 12 – gg

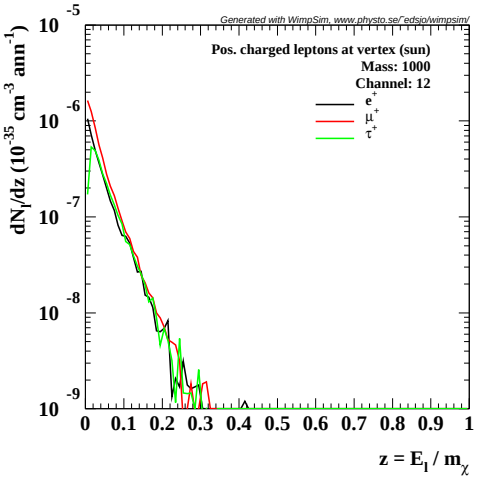
14.7.1 Neutrino fluxes at detector (Sun)



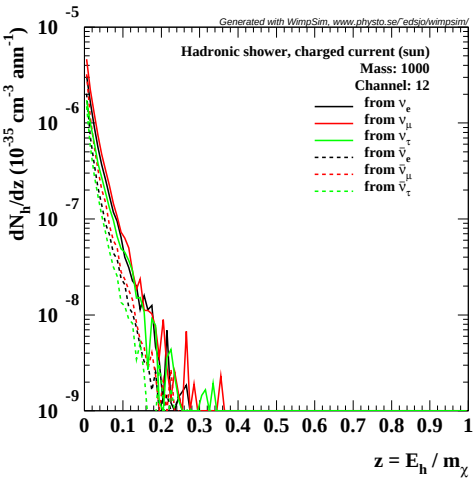


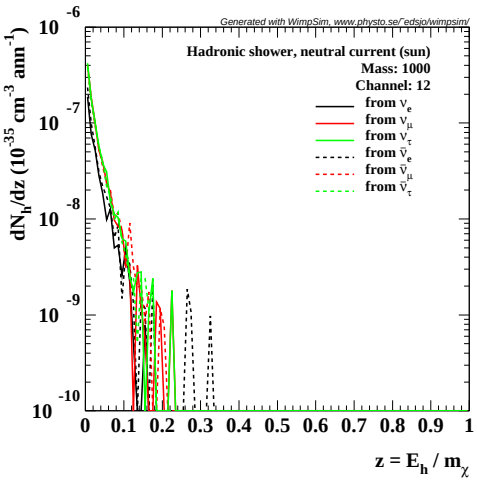
14.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



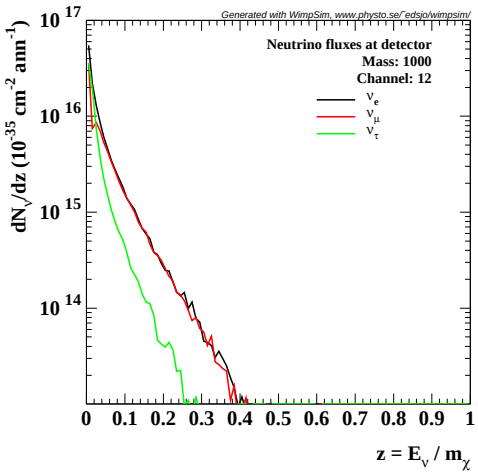


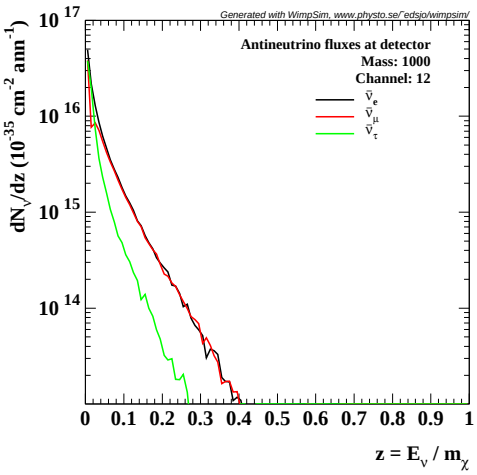
14.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



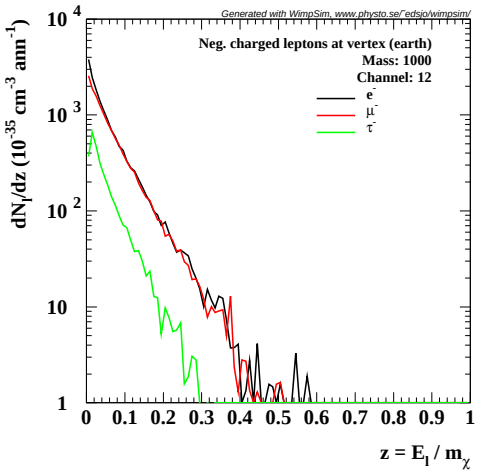


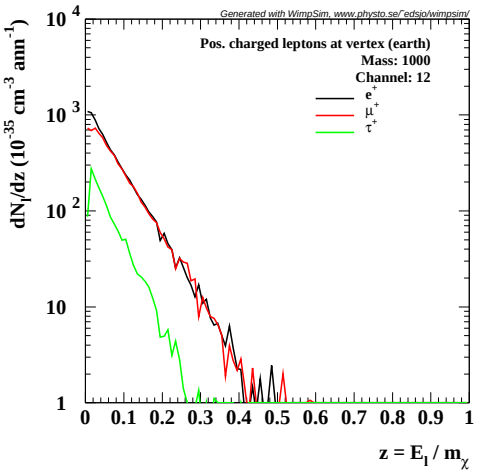
14.7.4 Neutrino fluxes at detector (Earth)



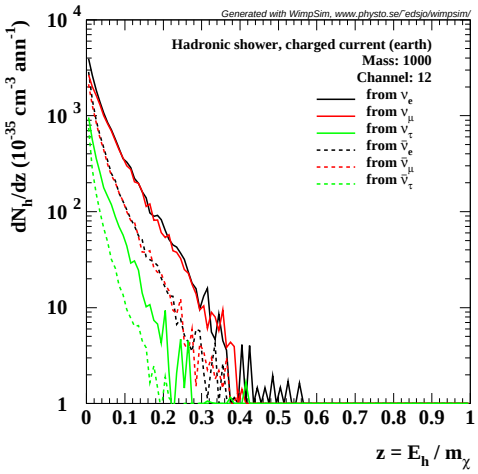


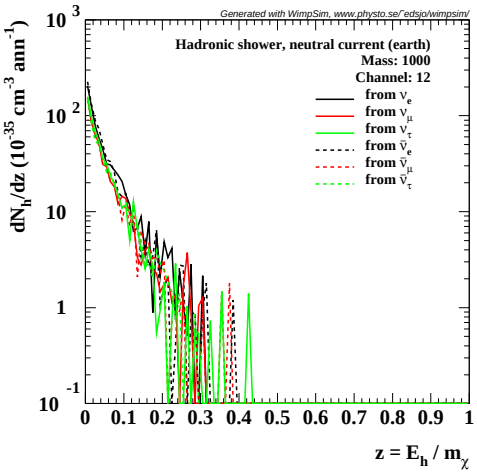
14.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



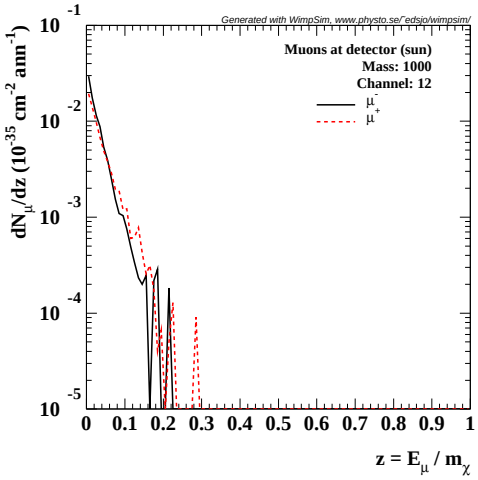


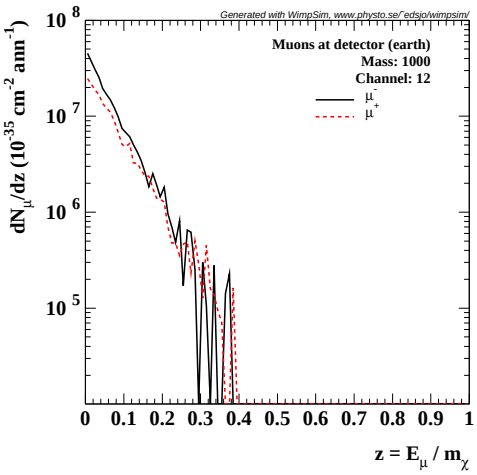
14.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





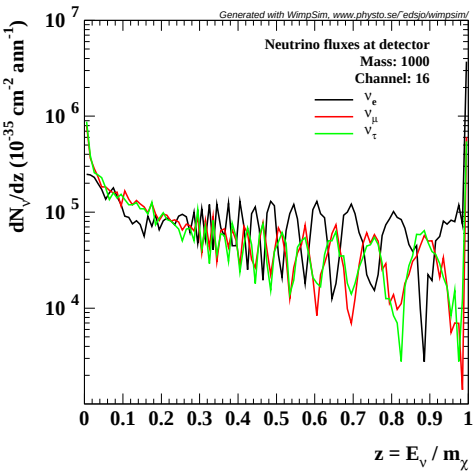
14.7.7 Muons at detector (Sun/Earth)

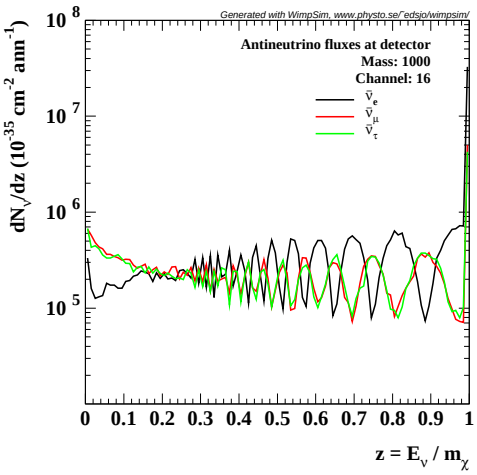




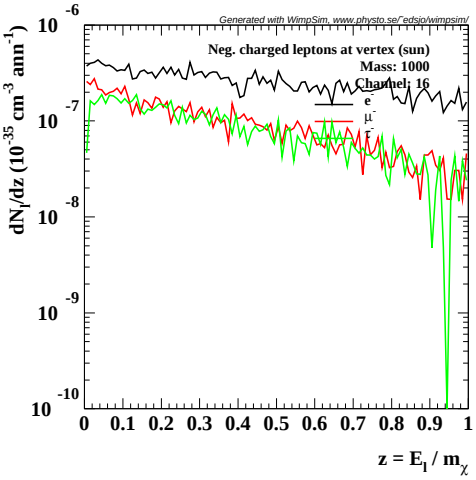
14.8 Channel 16 – $\nu_e\bar{\nu}_e$

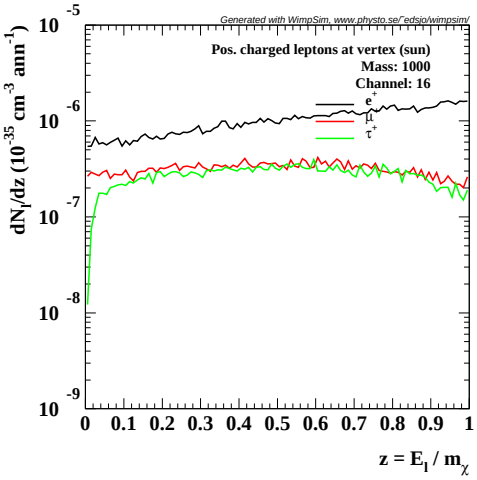
14.8.1 Neutrino fluxes at detector (Sun)



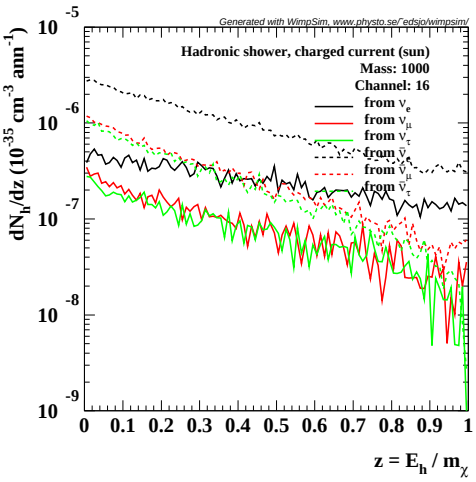


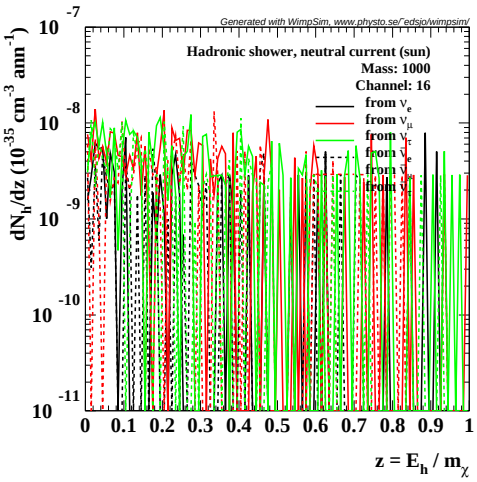
14.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



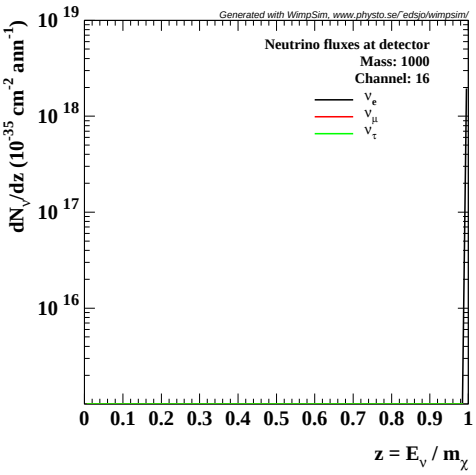


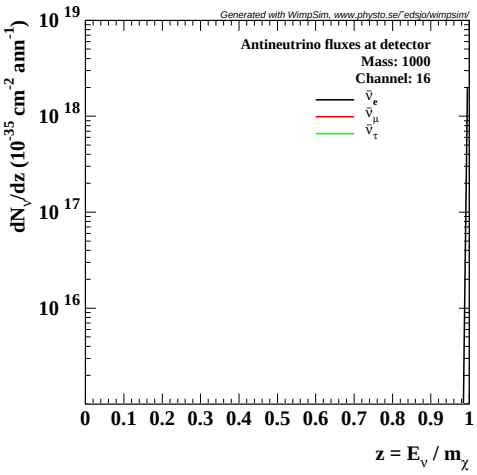
14.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



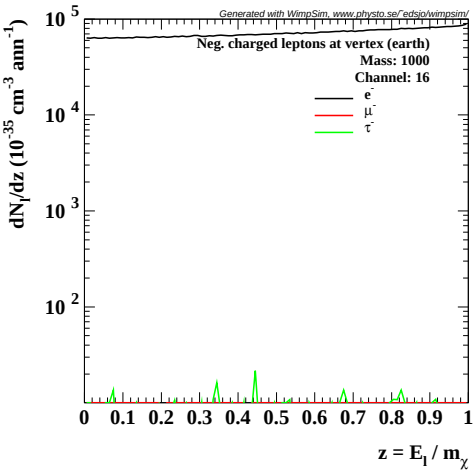


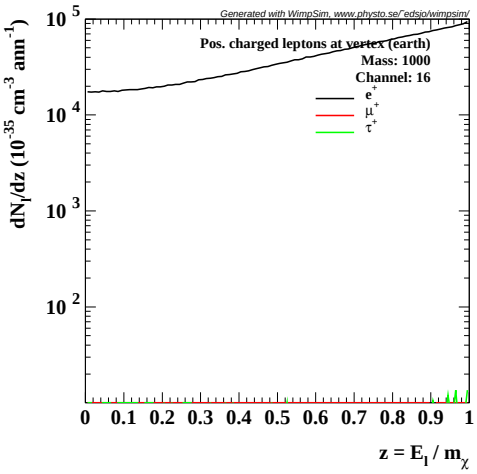
14.8.4 Neutrino fluxes at detector (Earth)



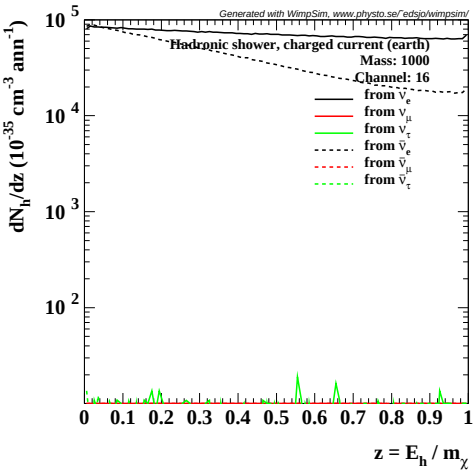


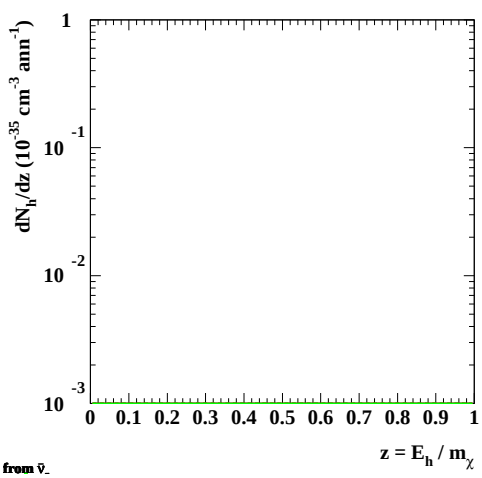
14.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





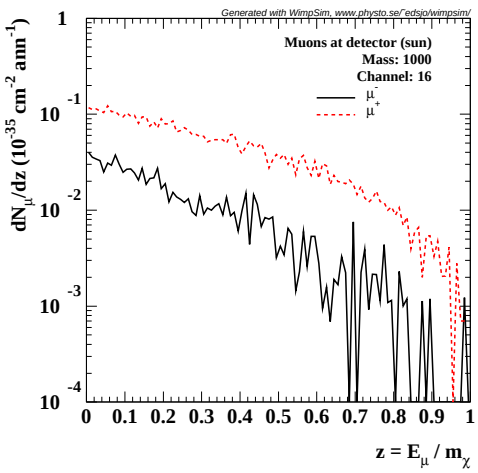
14.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

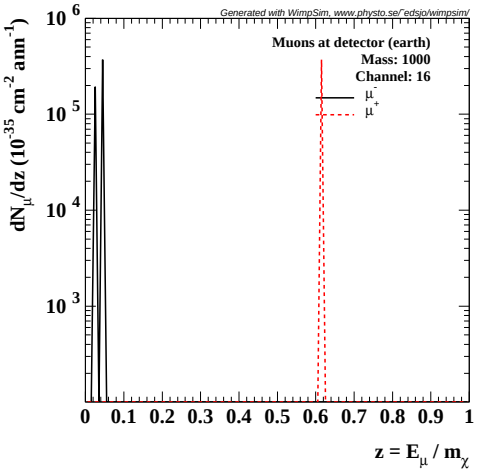




from $\bar{\nu}_\tau$

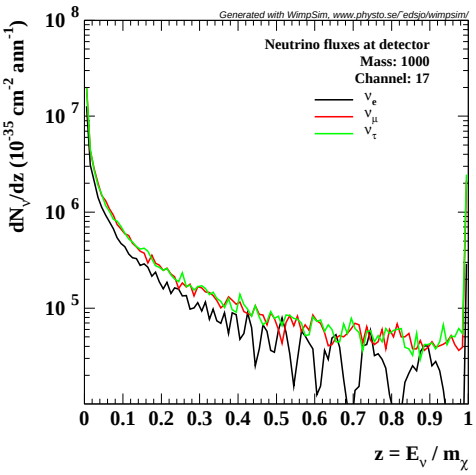
14.8.7 Muons at detector (Sun/Earth)

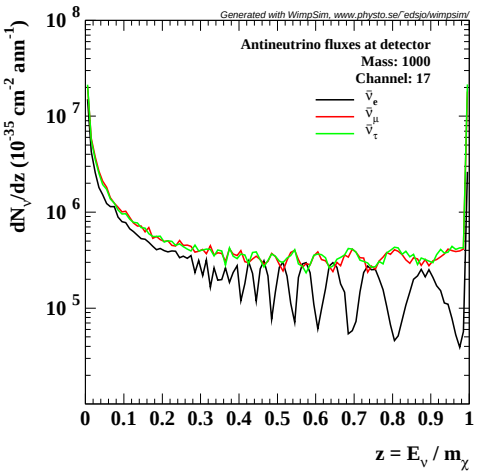




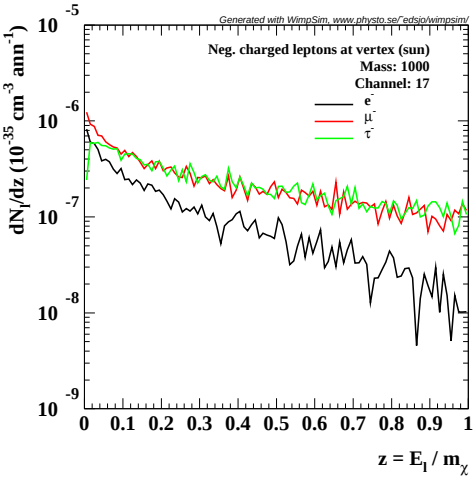
14.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

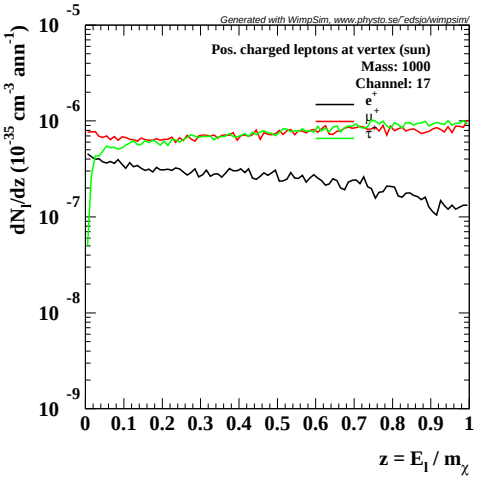
14.9.1 Neutrino fluxes at detector (Sun)



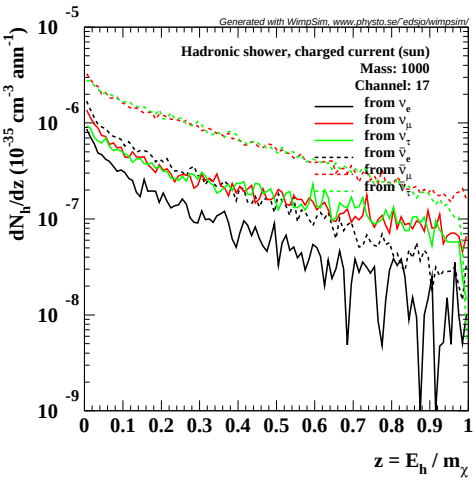


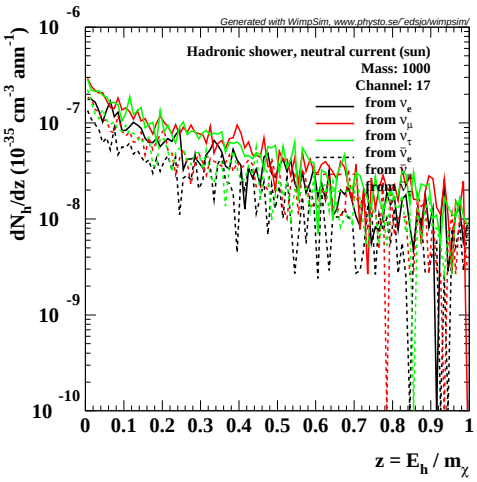
14.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



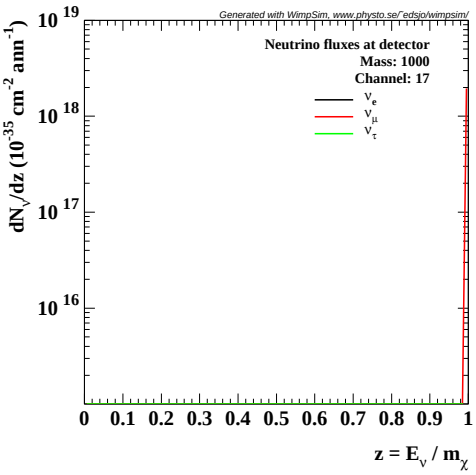


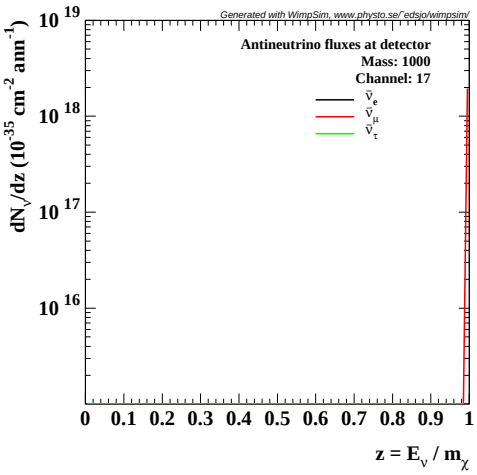
14.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



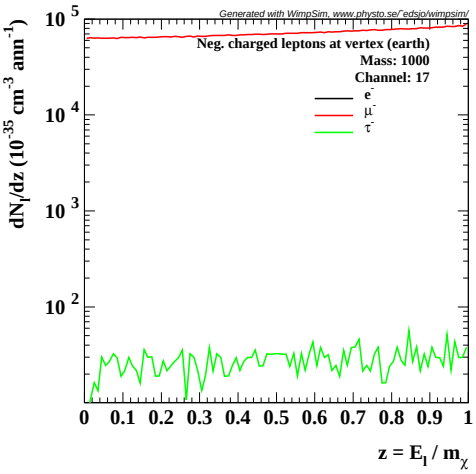


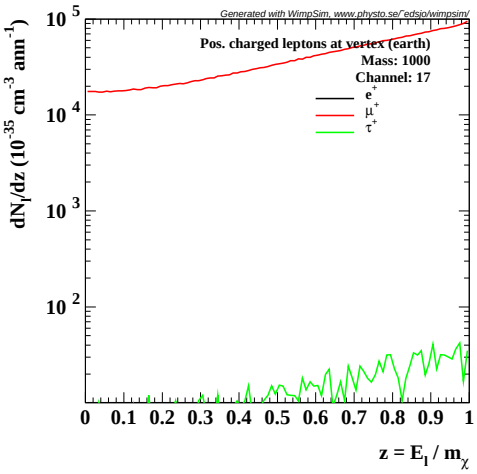
14.9.4 Neutrino fluxes at detector (Earth)



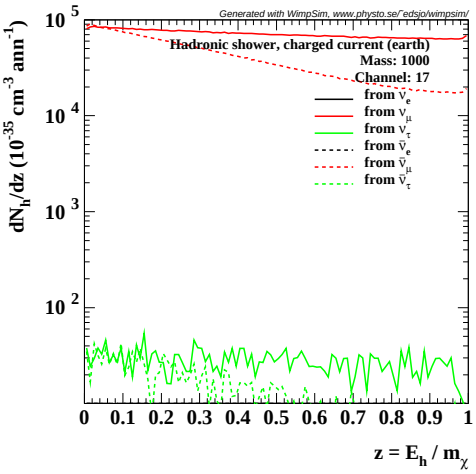


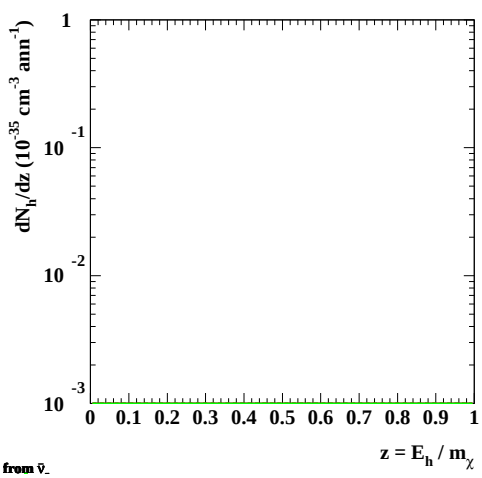
14.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



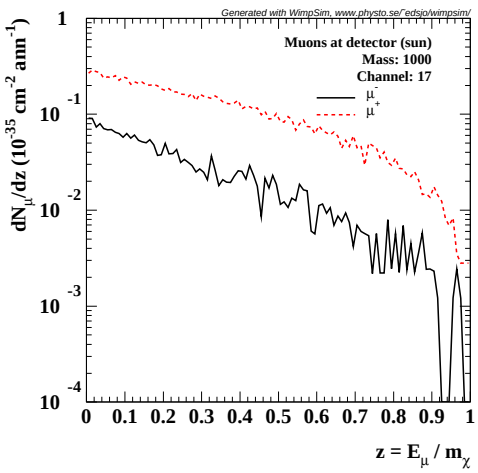


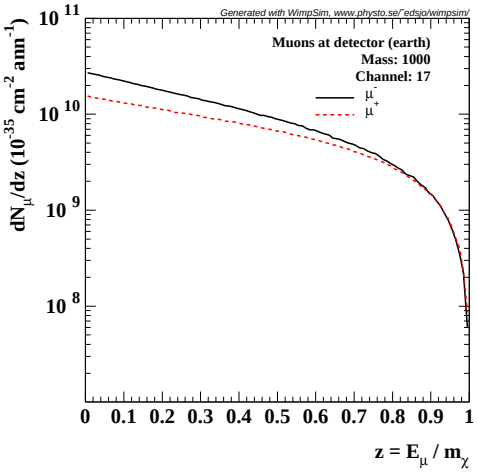
14.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





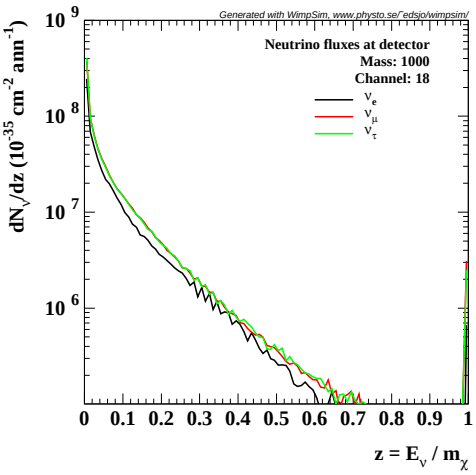
14.9.7 Muons at detector (Sun/Earth)

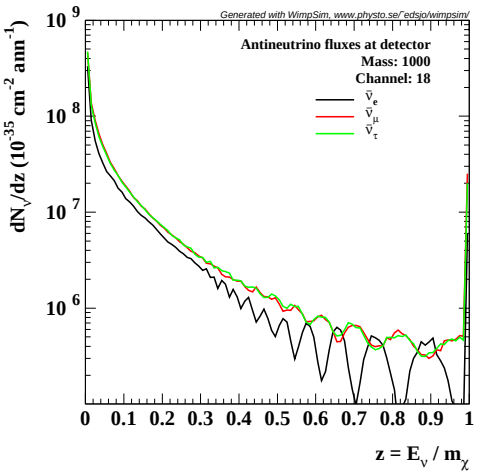




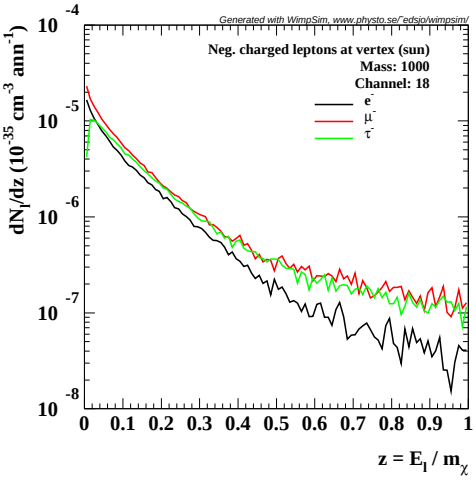
14.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

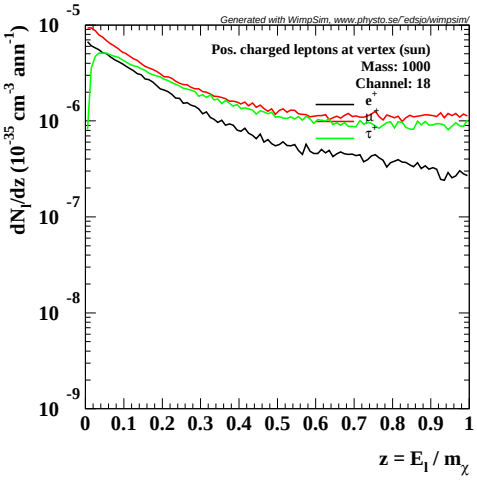
14.10.1 Neutrino fluxes at detector (Sun)



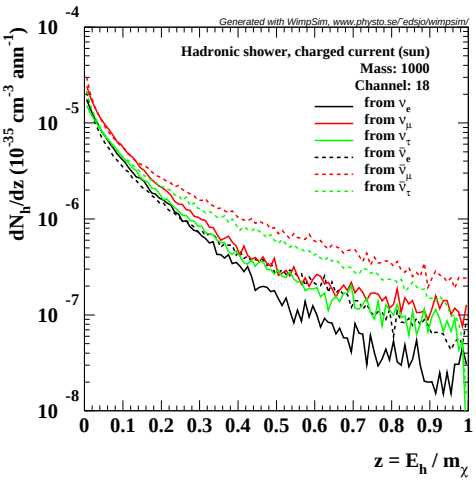


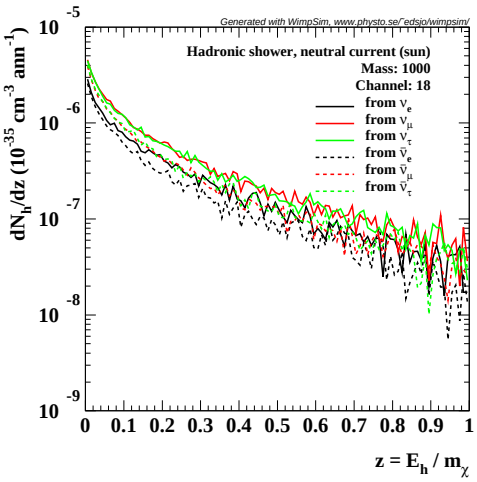
14.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



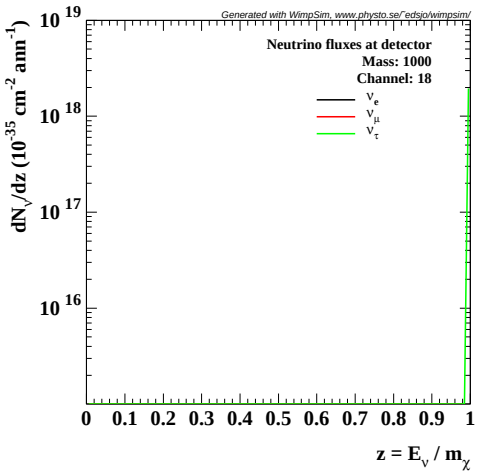


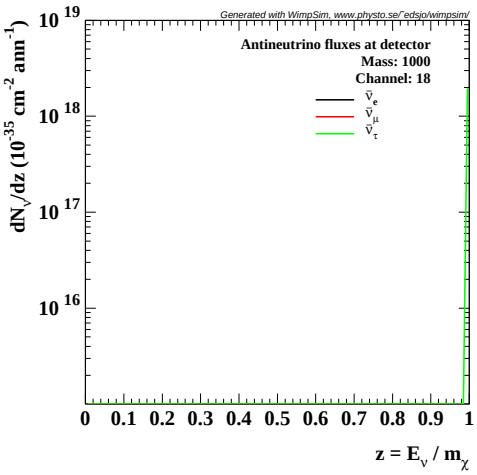
14.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



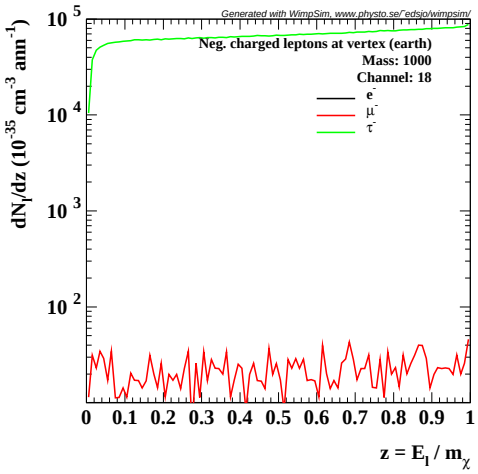


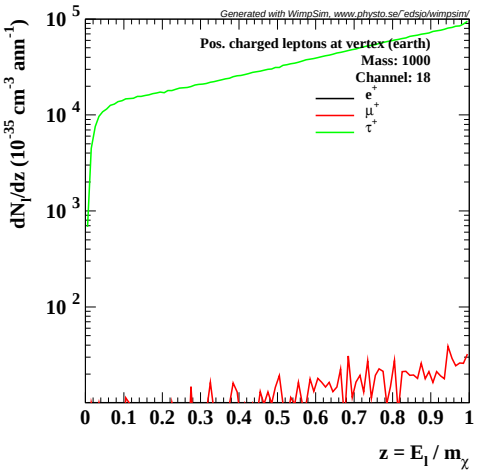
14.10.4 Neutrino fluxes at detector (Earth)



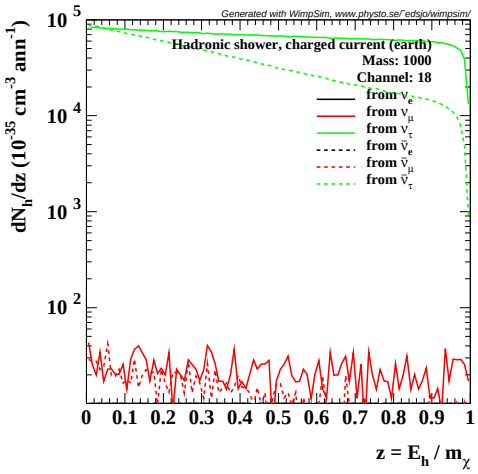


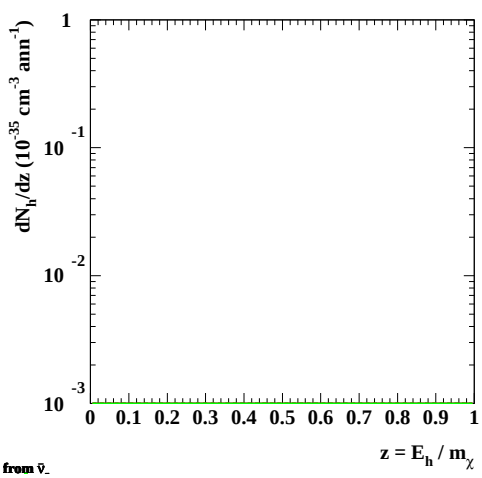
14.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





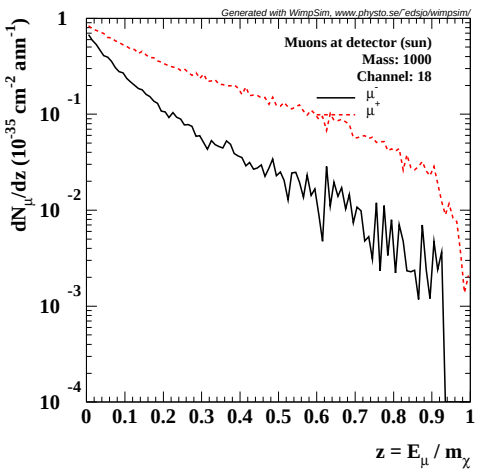
14.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

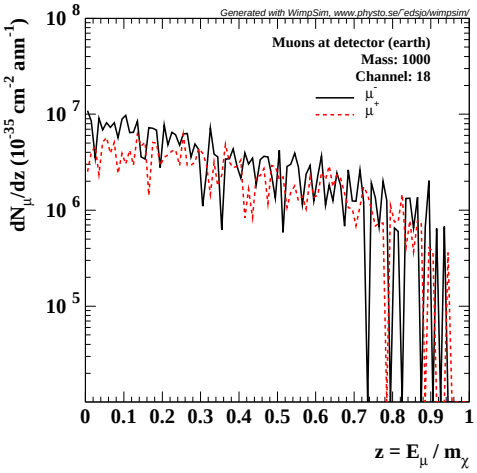




from $\bar{\nu}_\tau$

14.10.7 Muons at detector (Sun/Earth)

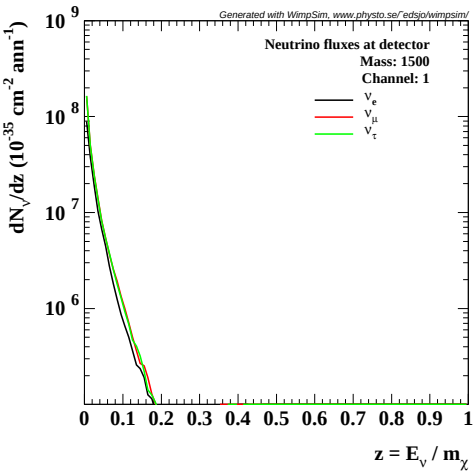


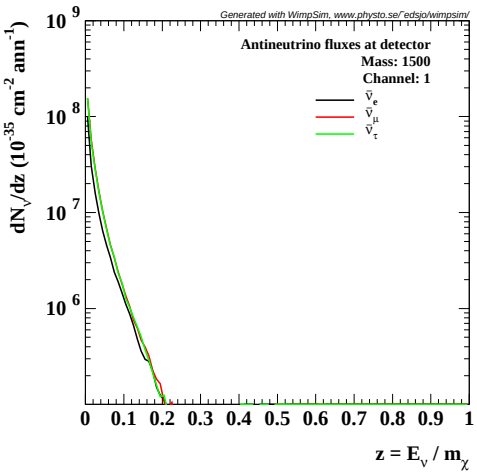


15 Mass 1500

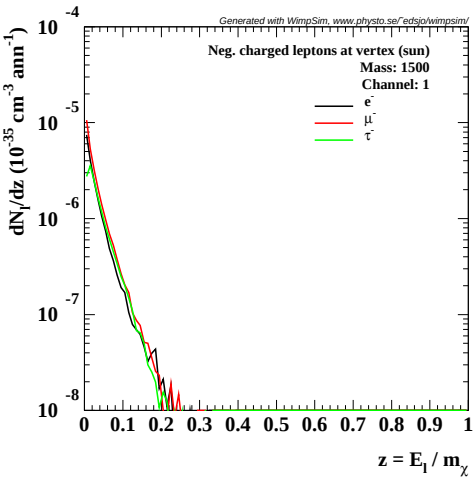
15.1 Channel 1 – $c\bar{c}$

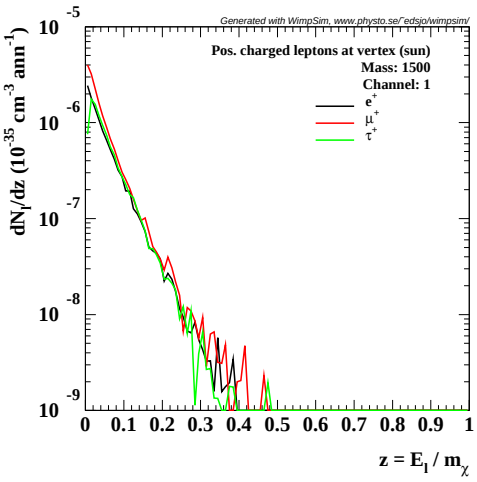
15.1.1 Neutrino fluxes at detector (Sun)



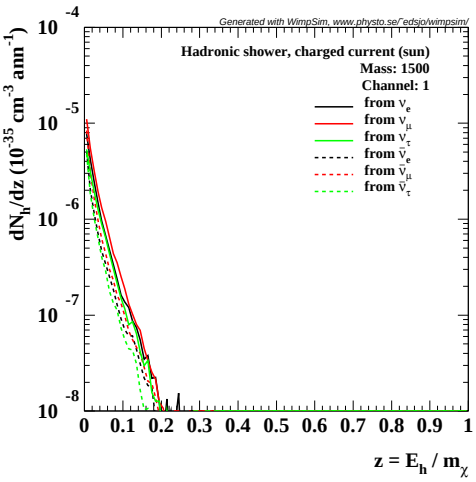


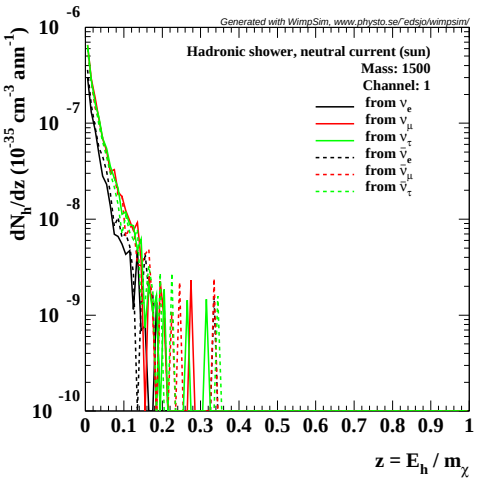
15.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



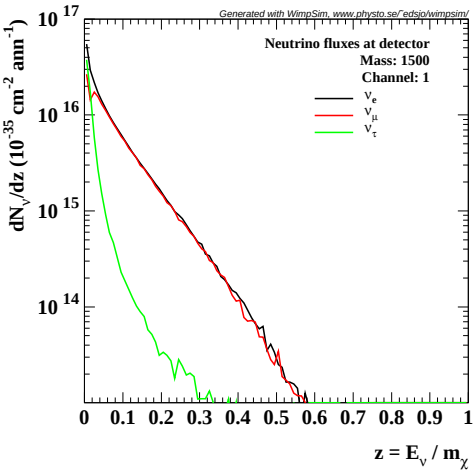


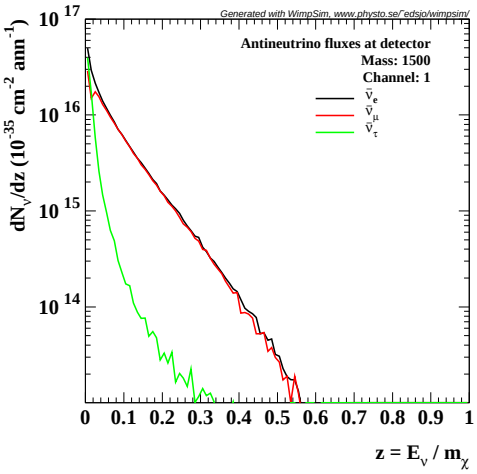
15.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



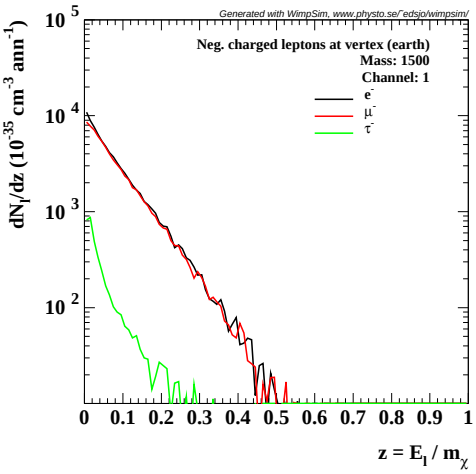


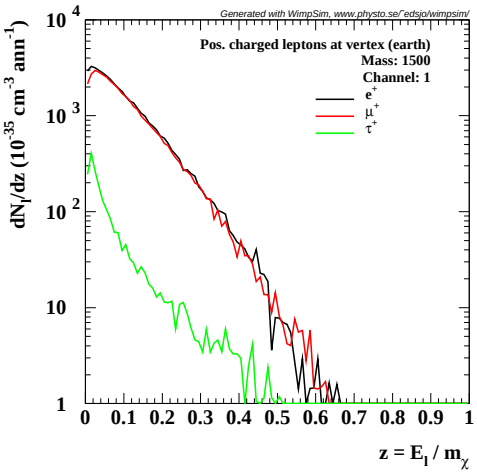
15.1.4 Neutrino fluxes at detector (Earth)



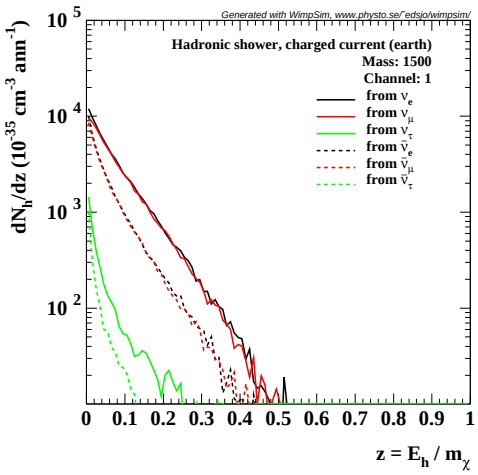


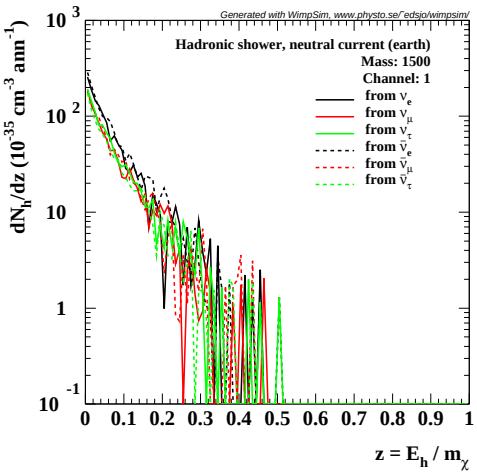
15.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



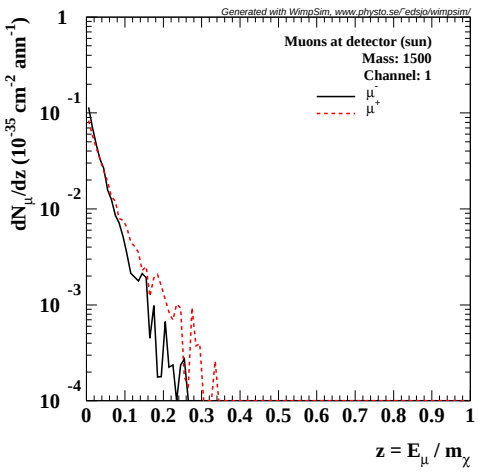


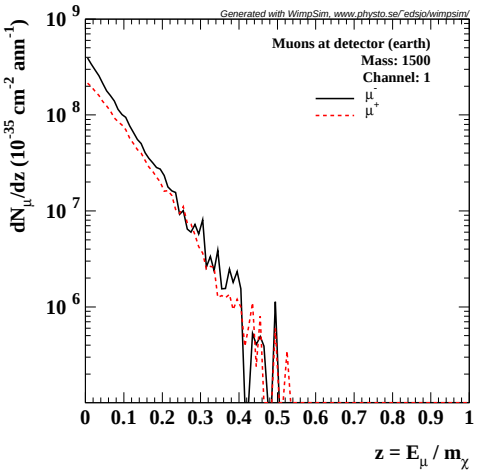
15.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





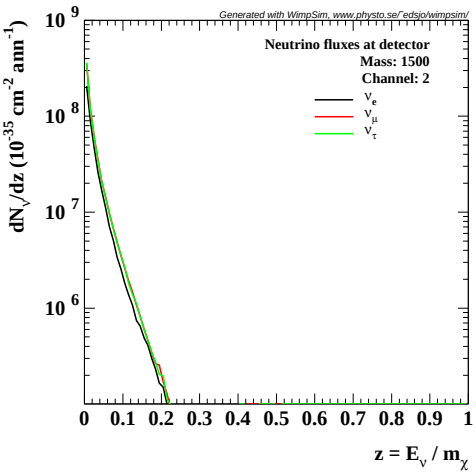
15.1.7 Muons at detector (Sun/Earth)

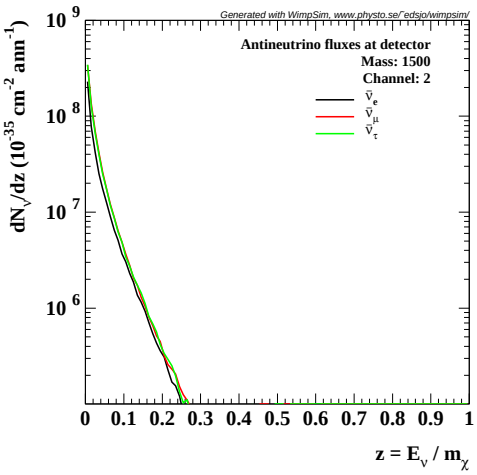




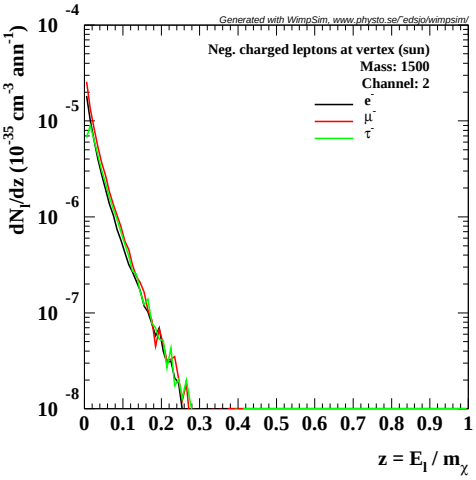
15.2 Channel 2 – $b\bar{b}$

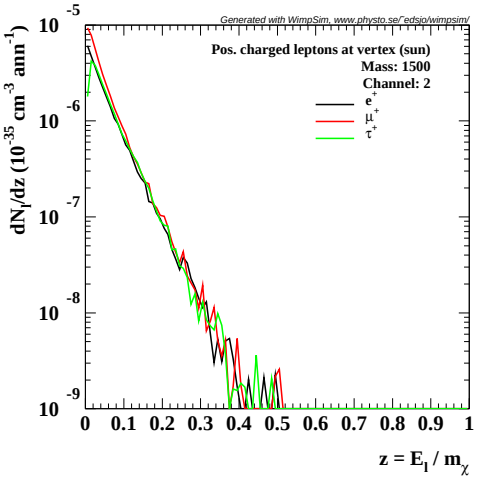
15.2.1 Neutrino fluxes at detector (Sun)



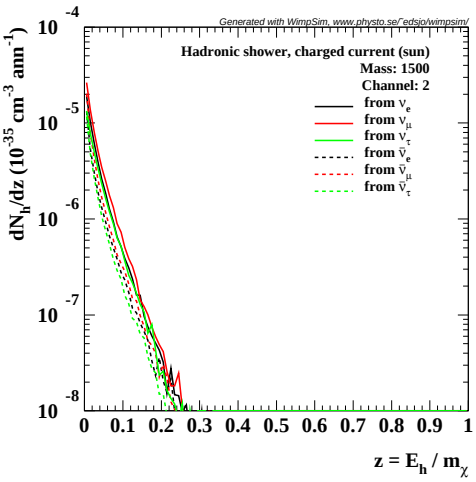


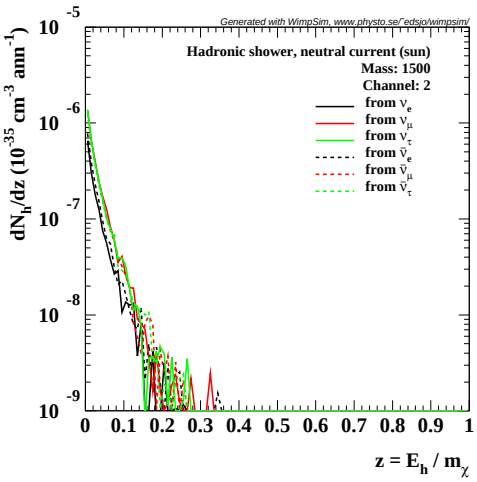
15.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



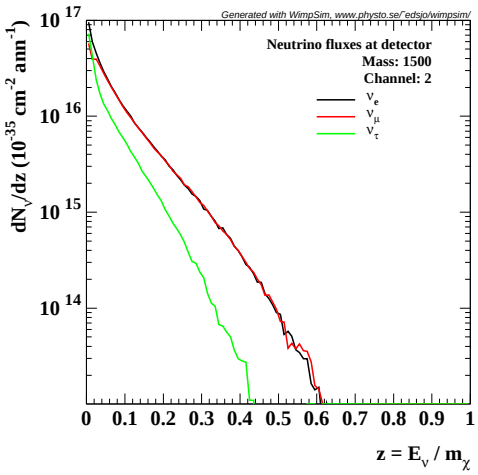


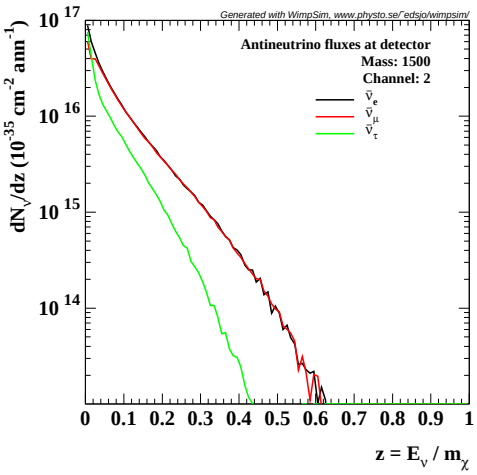
15.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



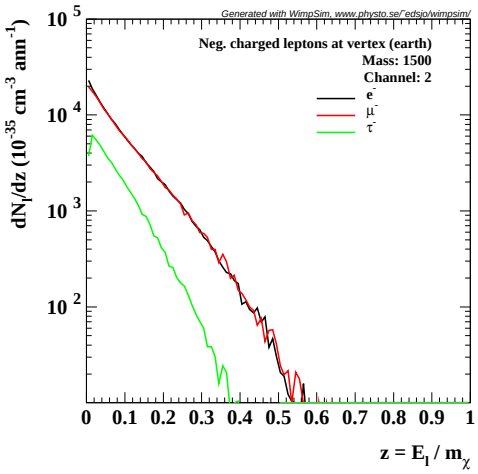


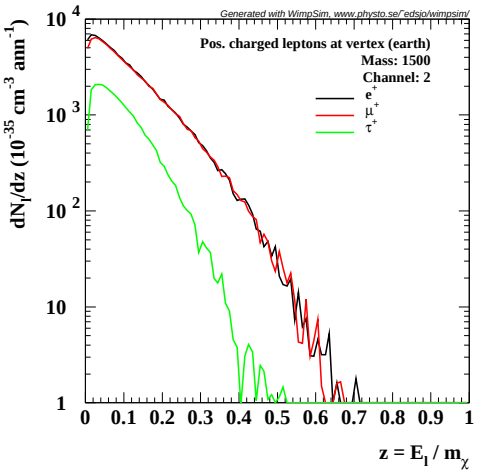
15.2.4 Neutrino fluxes at detector (Earth)



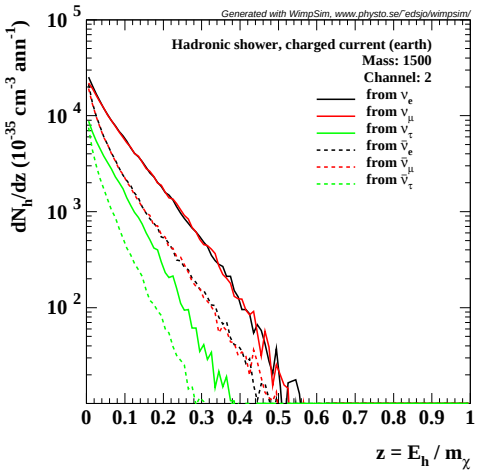


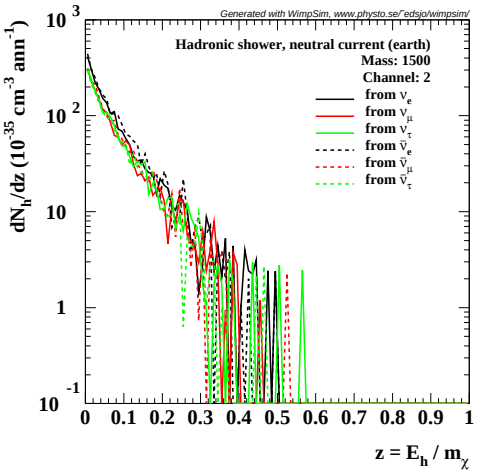
15.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



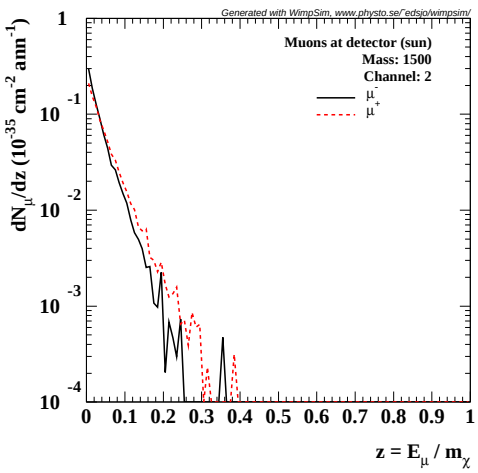


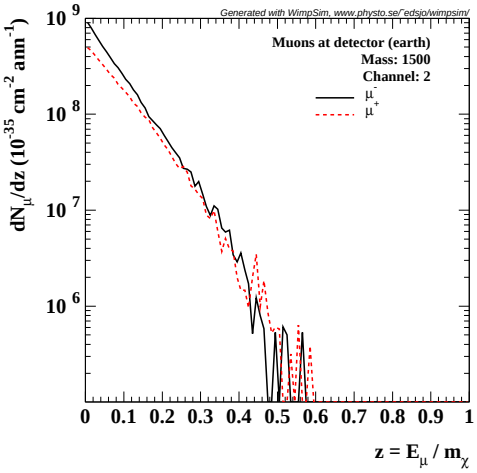
15.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





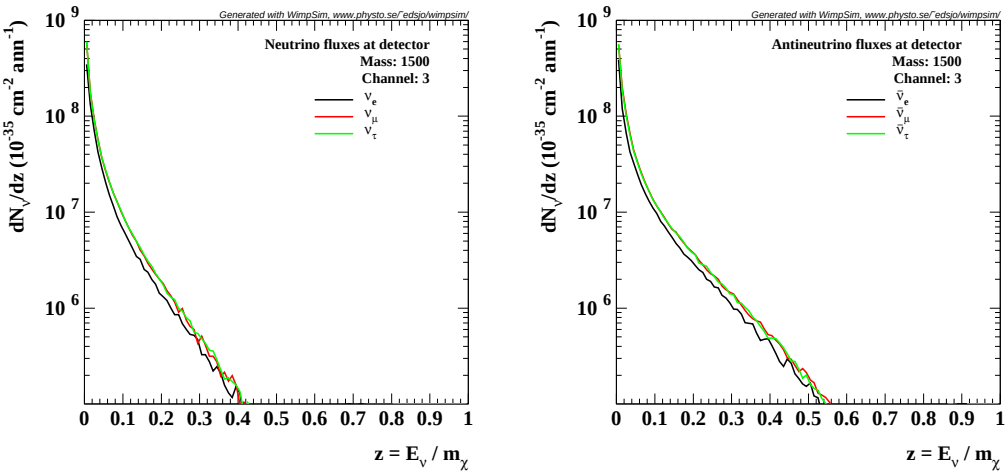
15.2.7 Muons at detector (Sun/Earth)



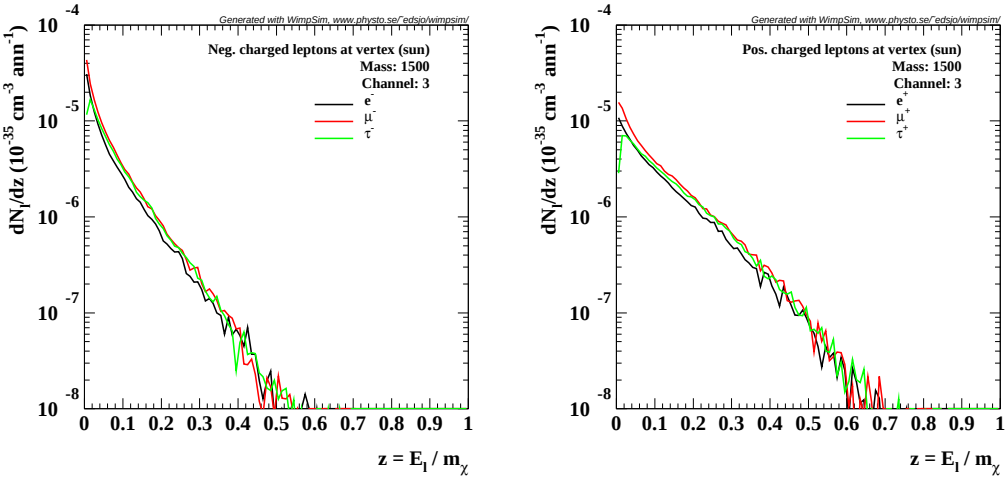


15.3 Channel 3 – $t\bar{t}$

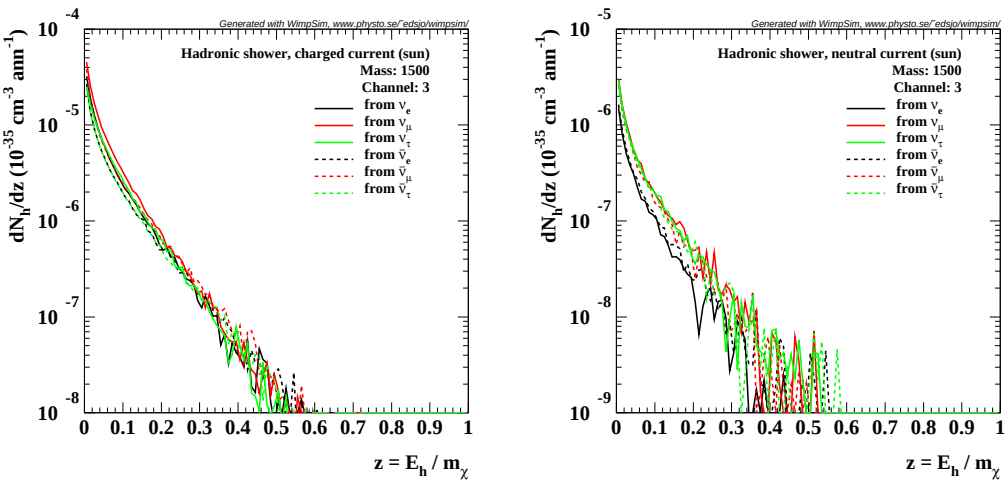
15.3.1 Neutrino fluxes at detector (Sun)



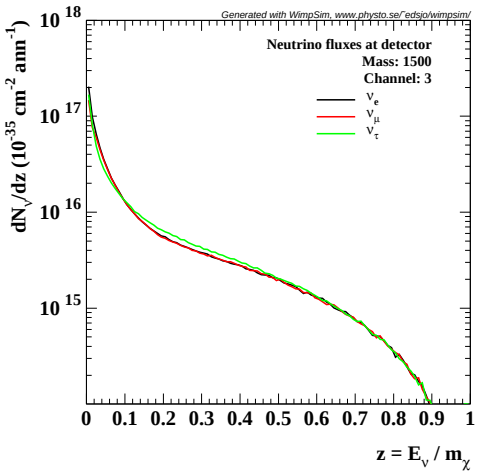
15.3.2 Charged leptons at neutrino-nucleon vertex (Sun)

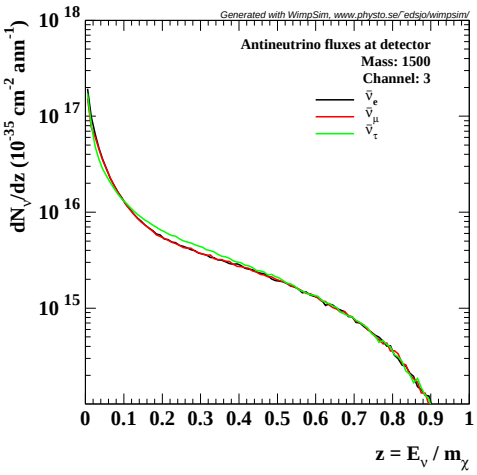


15.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)

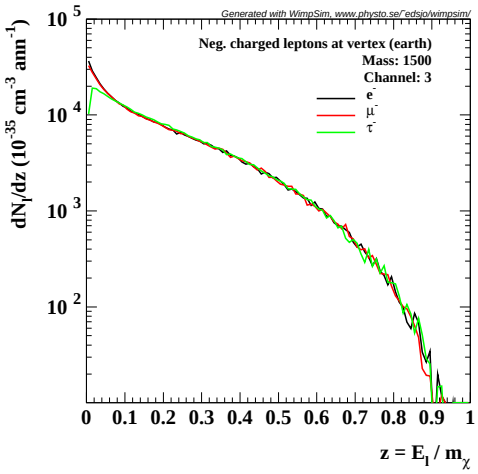


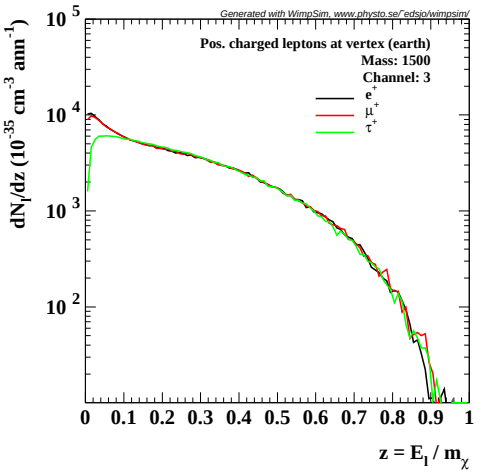
15.3.4 Neutrino fluxes at detector (Earth)



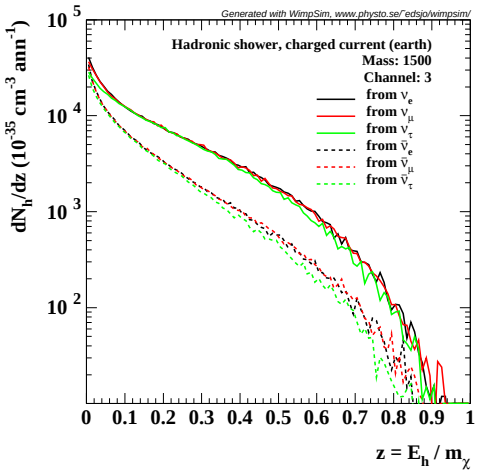


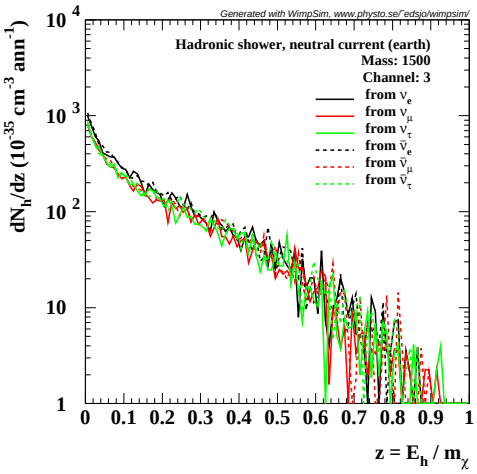
15.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



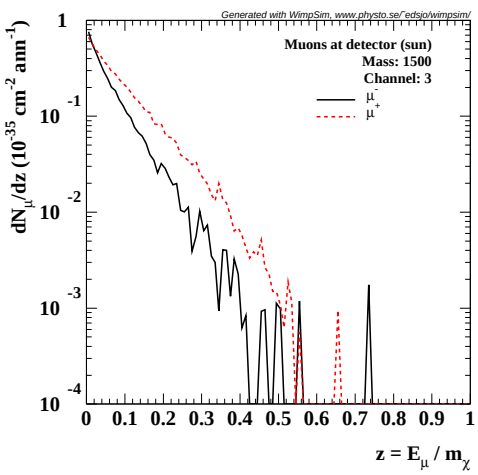


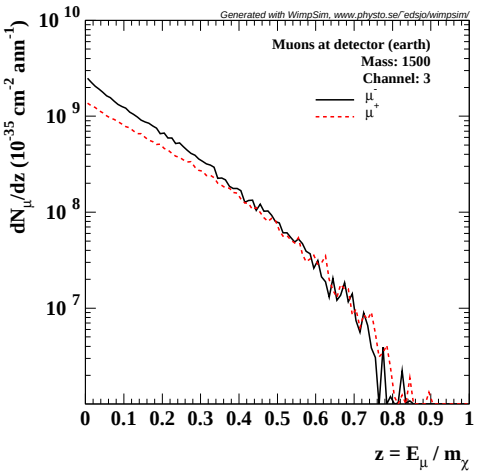
15.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





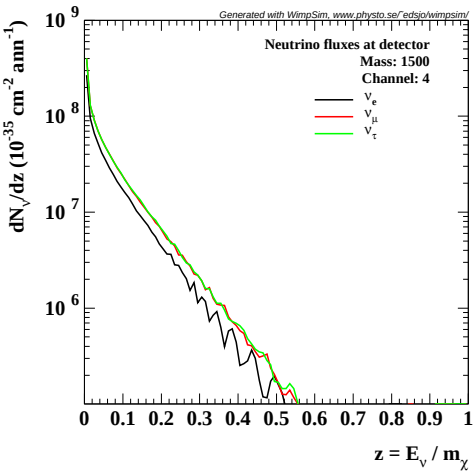
15.3.7 Muons at detector (Sun/Earth)

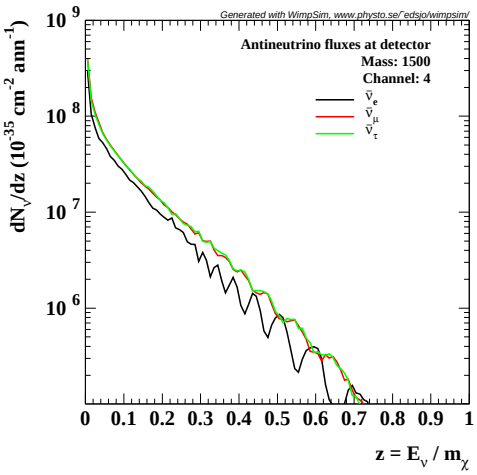




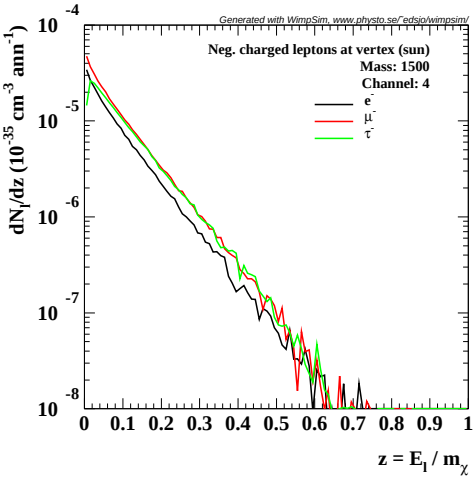
15.4 Channel 4 – $\tau^-\tau^+$

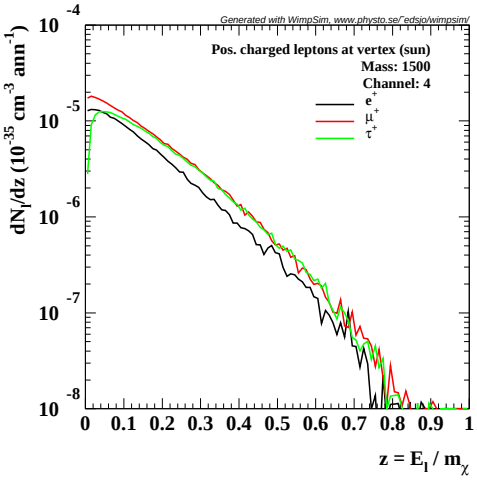
15.4.1 Neutrino fluxes at detector (Sun)



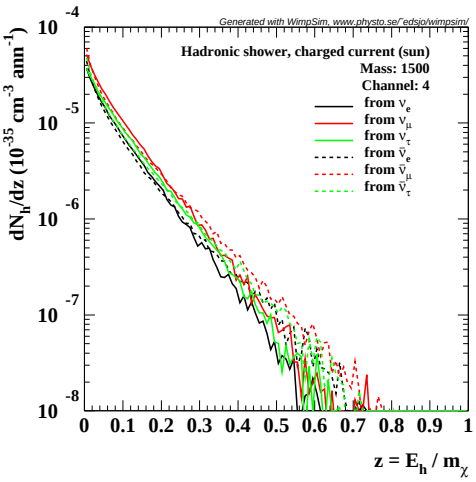


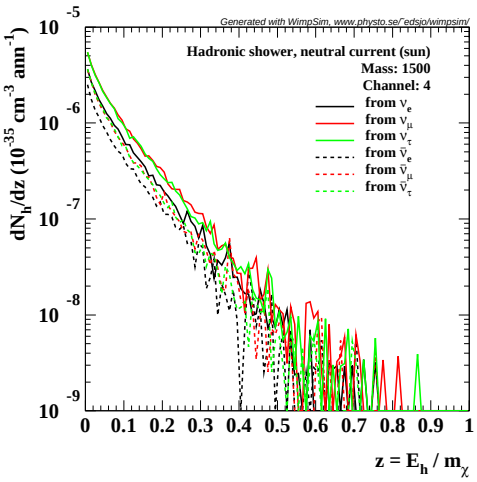
15.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



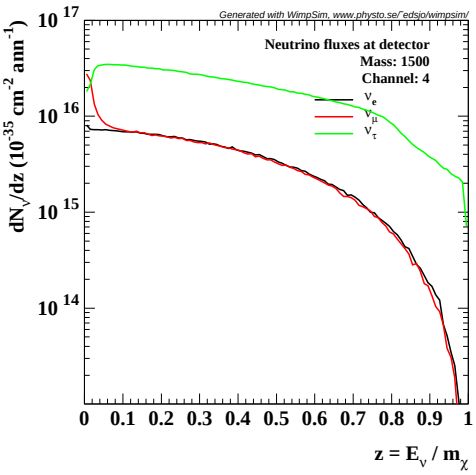


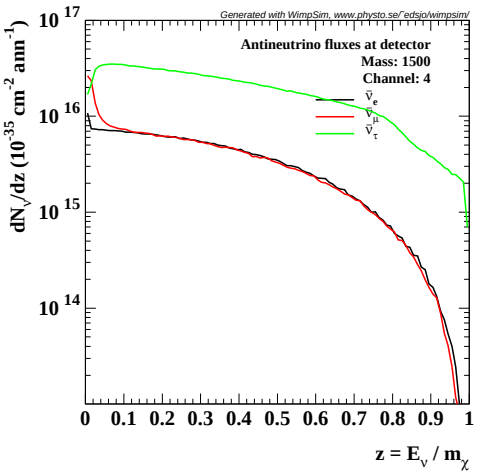
15.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



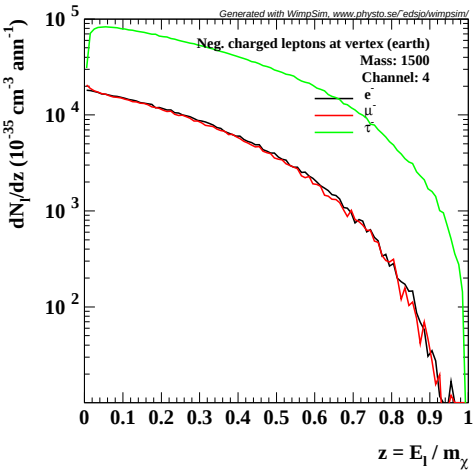


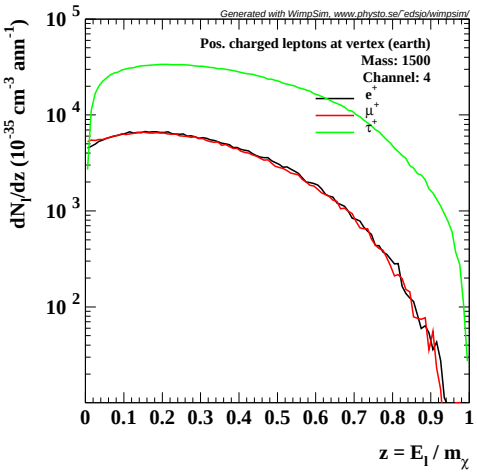
15.4.4 Neutrino fluxes at detector (Earth)



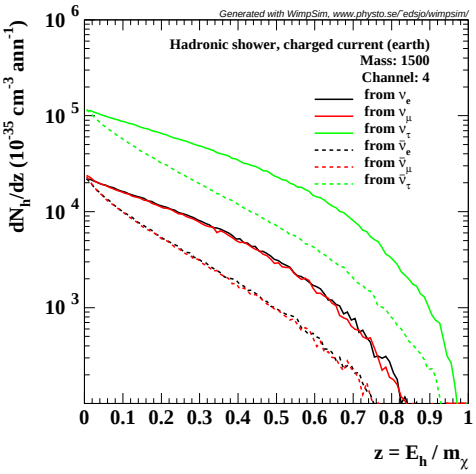


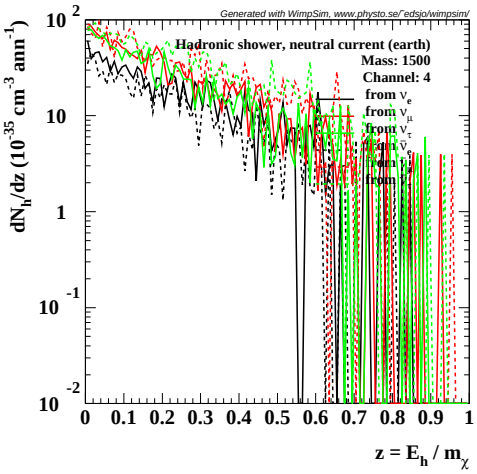
15.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



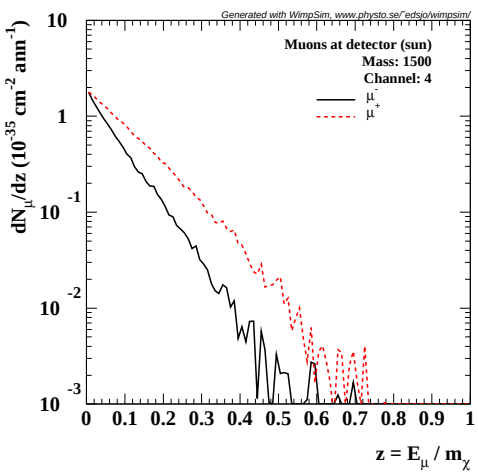


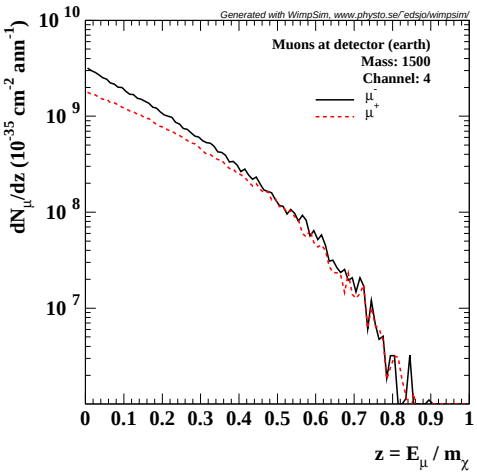
15.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





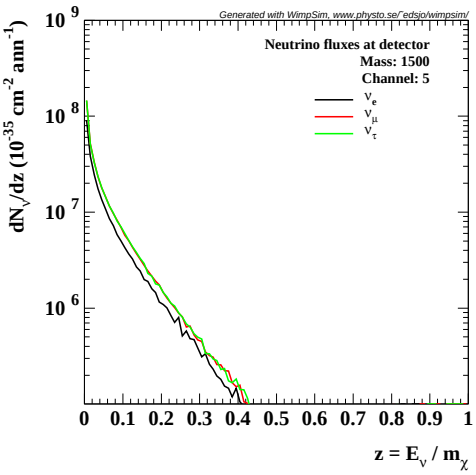
15.4.7 Muons at detector (Sun/Earth)

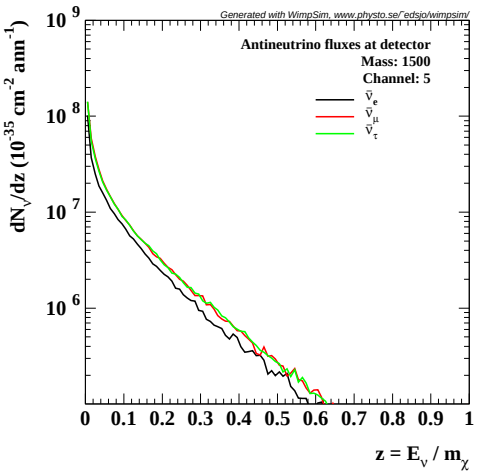




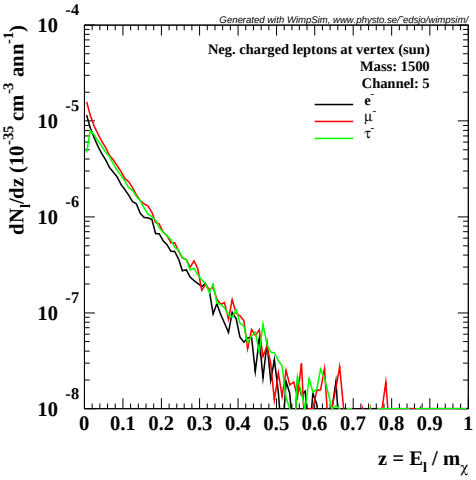
15.5 Channel 5 – W^-W^+

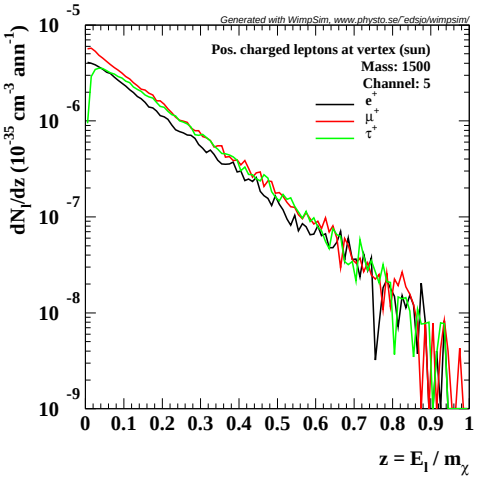
15.5.1 Neutrino fluxes at detector (Sun)



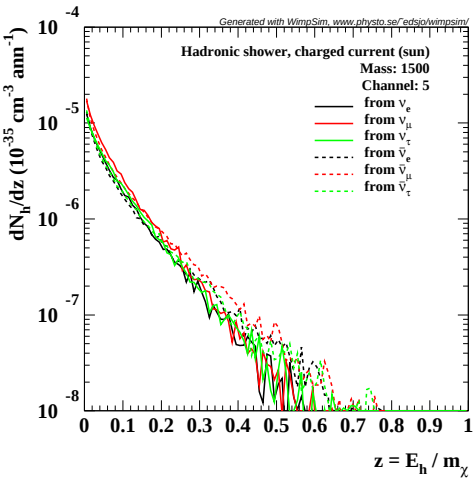


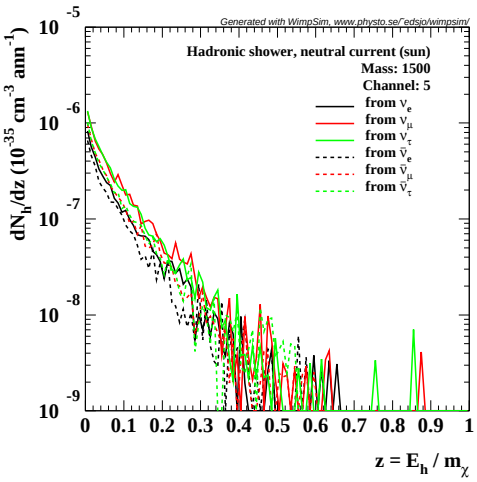
15.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



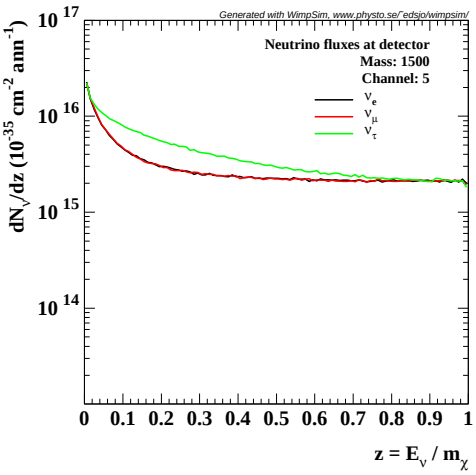


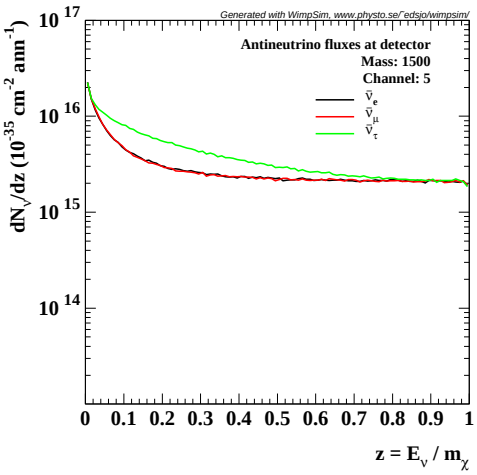
15.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



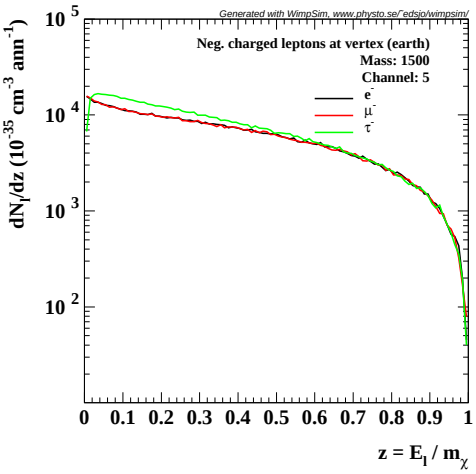


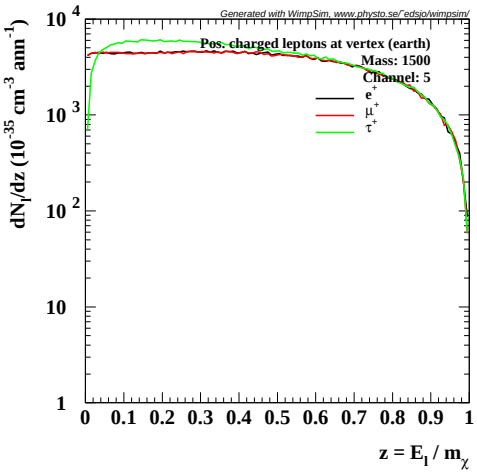
15.5.4 Neutrino fluxes at detector (Earth)



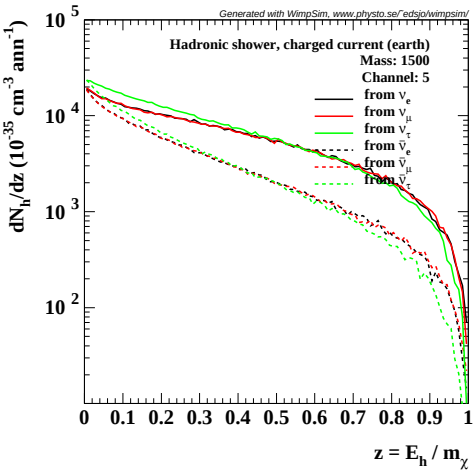


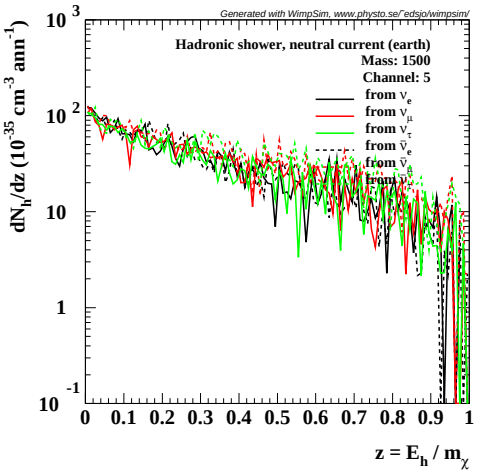
15.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



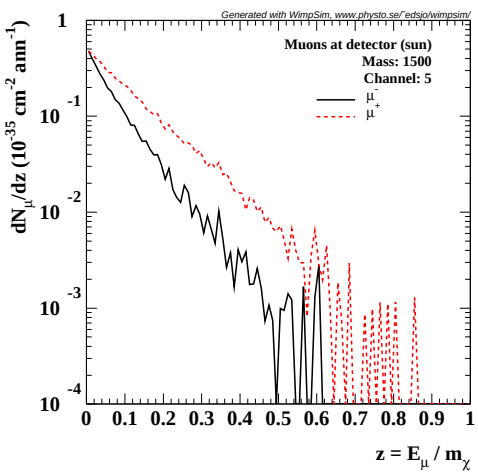


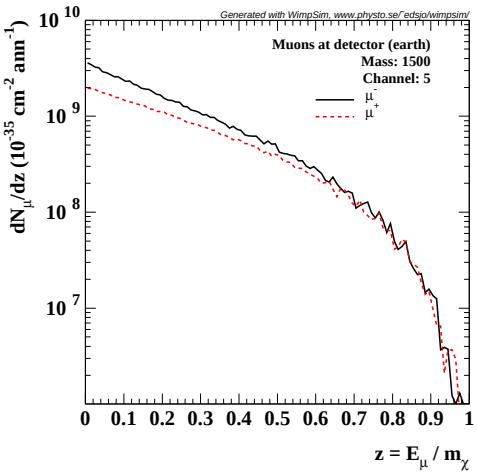
15.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





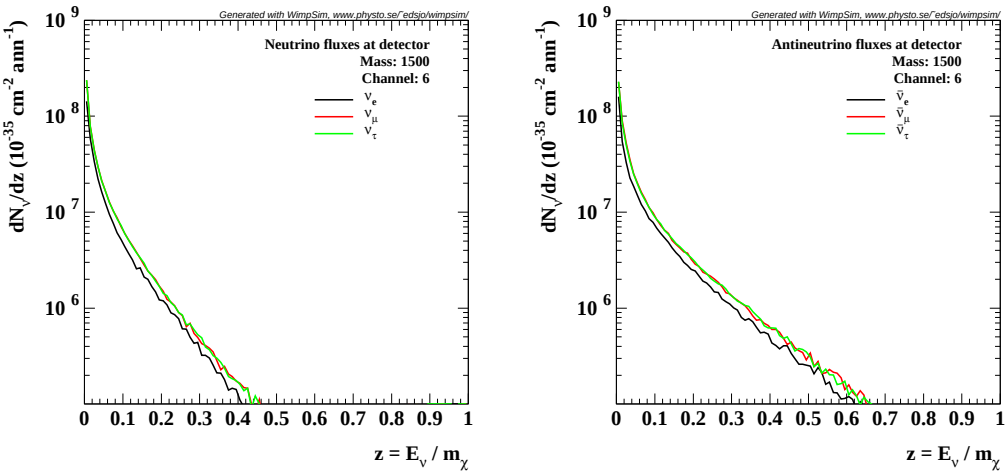
15.5.7 Muons at detector (Sun/Earth)



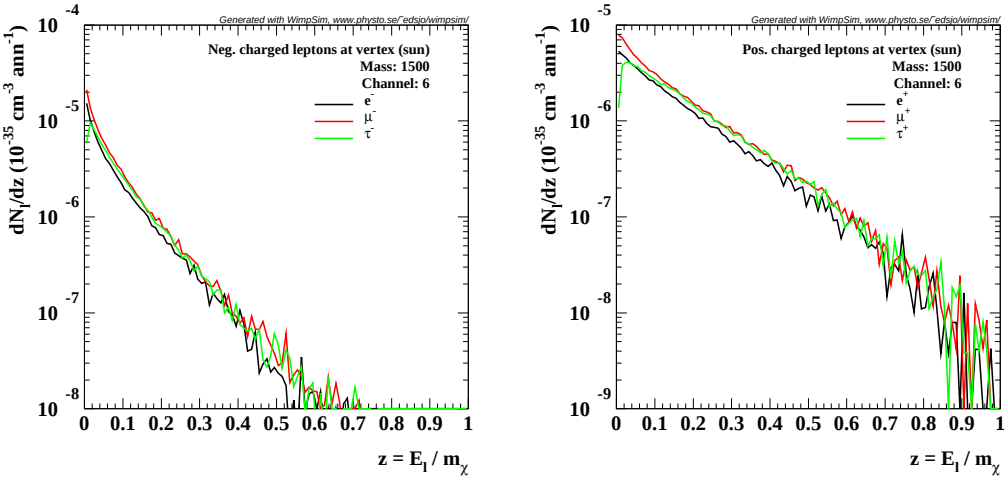


15.6 Channel 6 – $Z^0 Z^0$

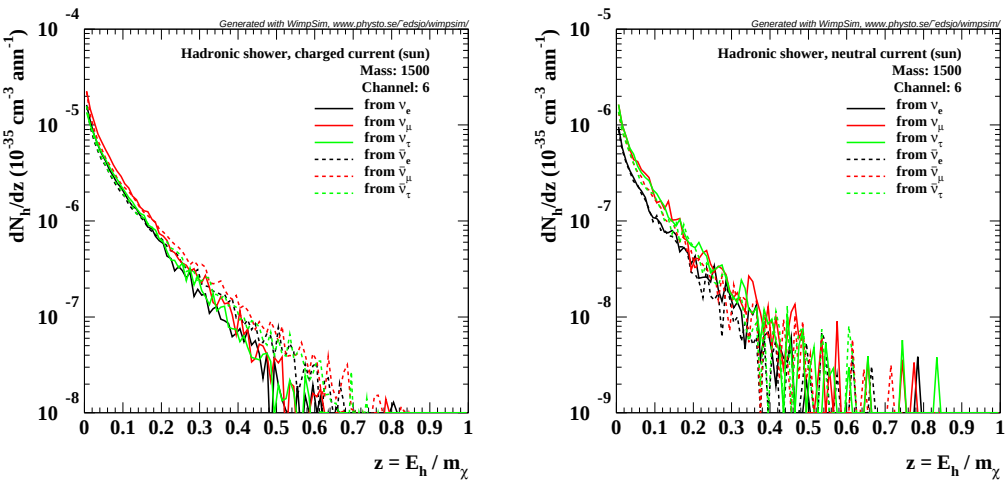
15.6.1 Neutrino fluxes at detector (Sun)



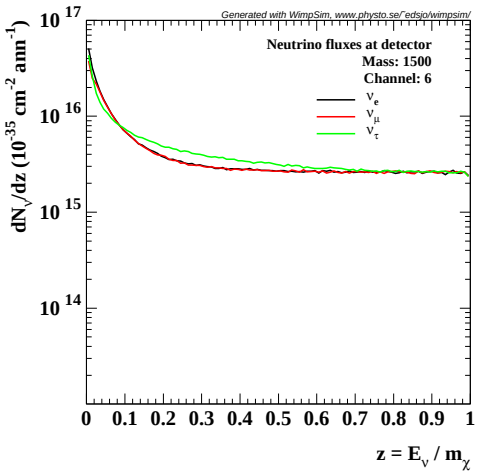
15.6.2 Charged leptons at neutrino-nucleon vertex (Sun)

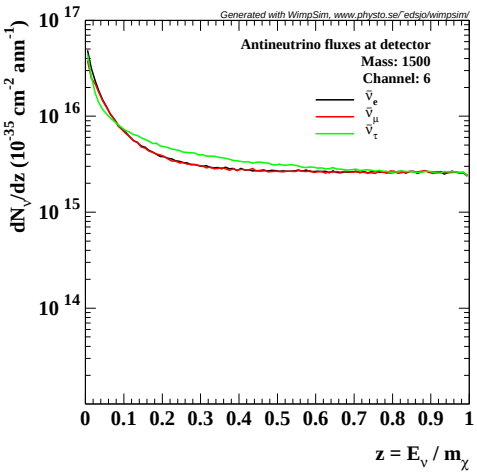


15.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

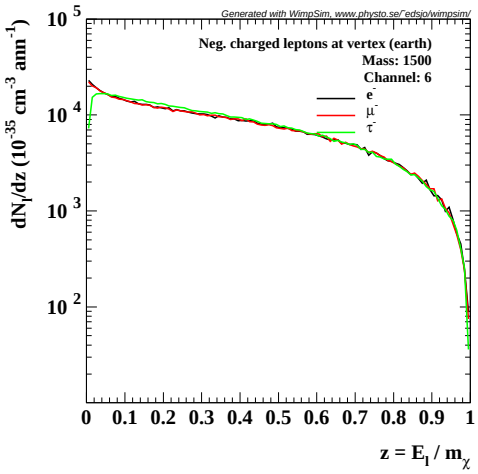


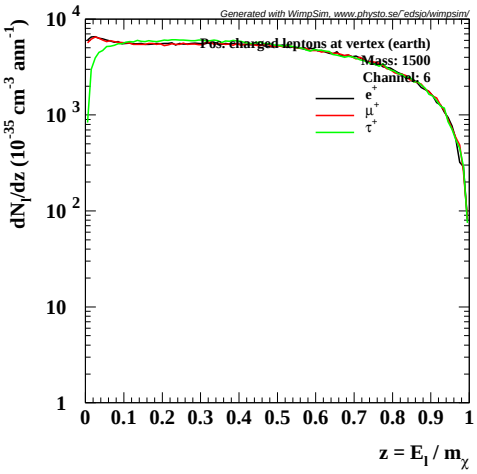
15.6.4 Neutrino fluxes at detector (Earth)



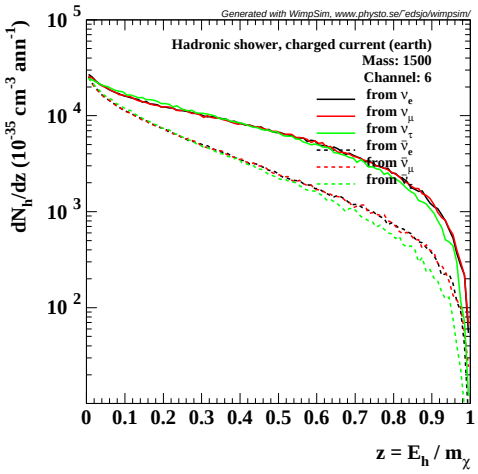


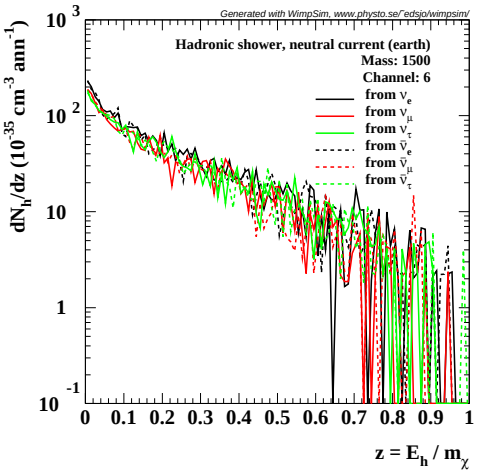
15.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



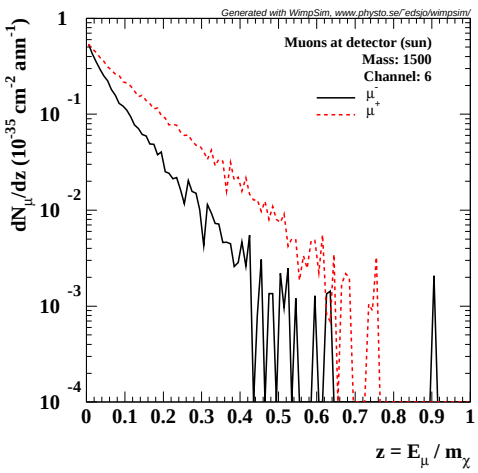


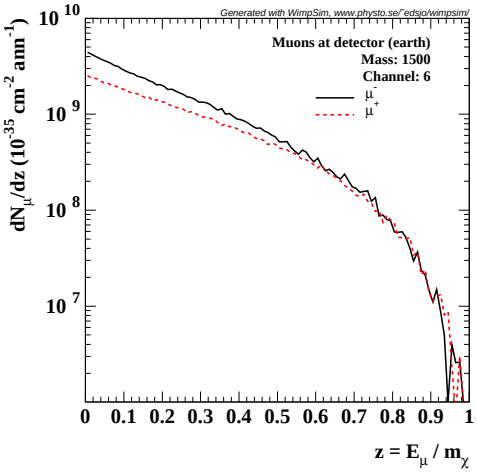
15.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





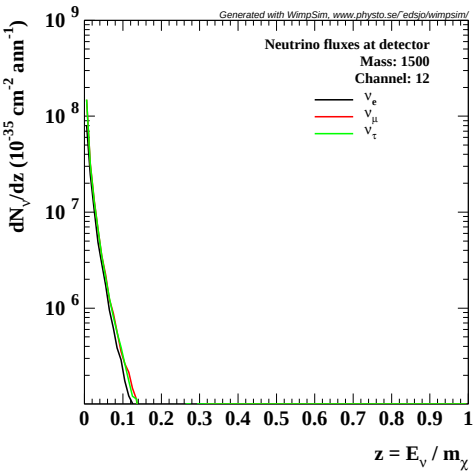
15.6.7 Muons at detector (Sun/Earth)

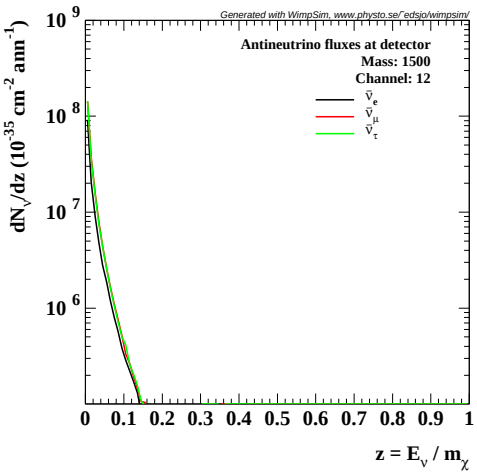




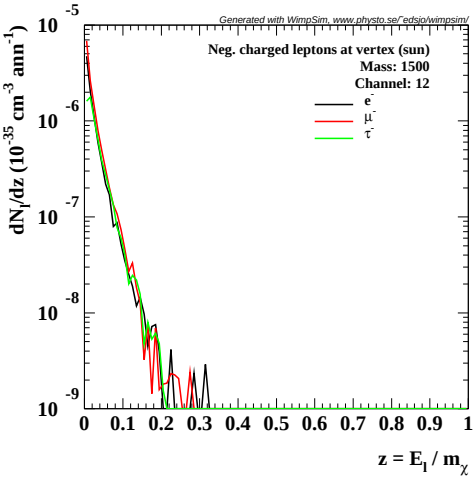
15.7 Channel 12 – gg

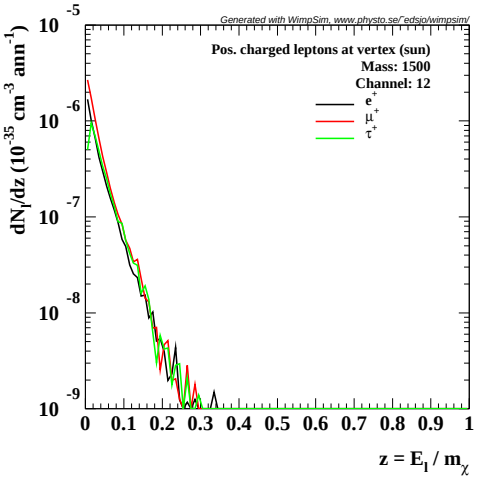
15.7.1 Neutrino fluxes at detector (Sun)



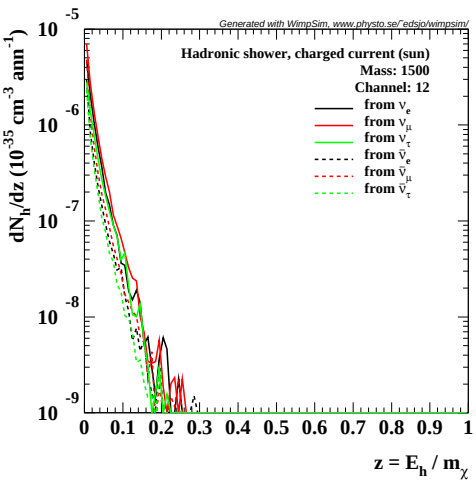


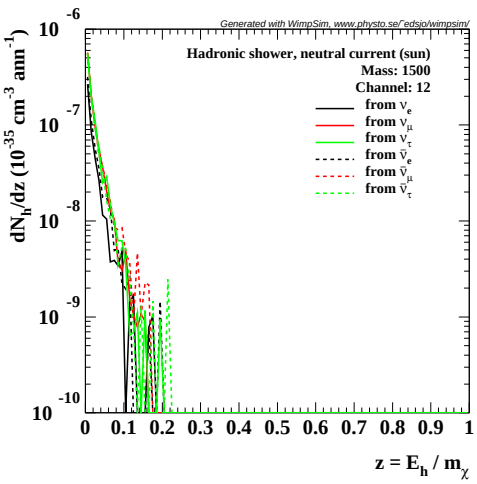
15.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



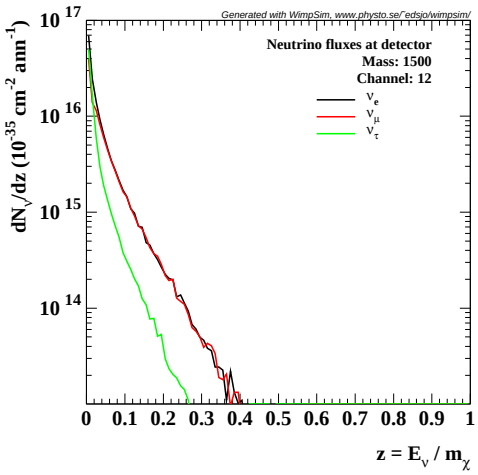


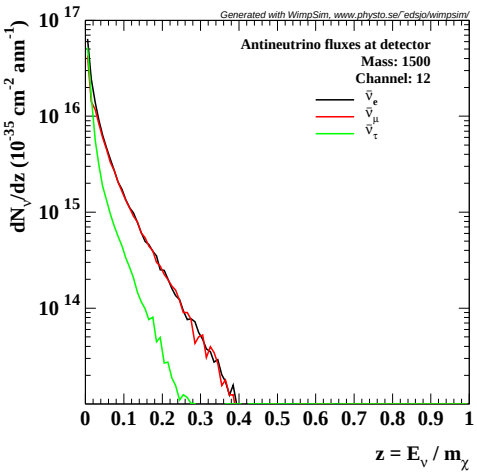
15.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



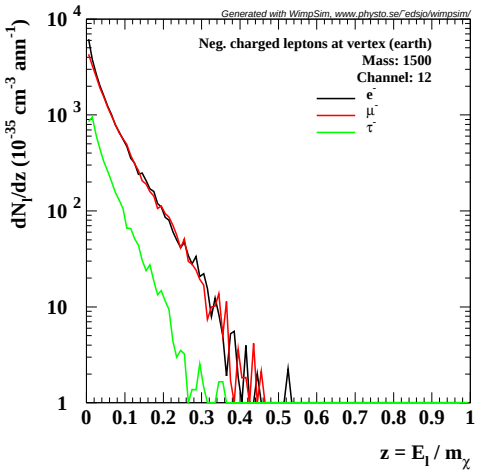


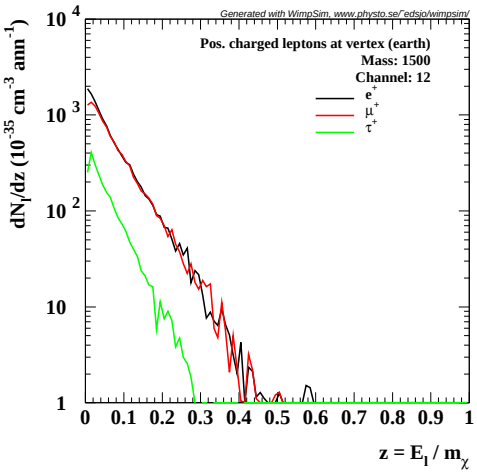
15.7.4 Neutrino fluxes at detector (Earth)



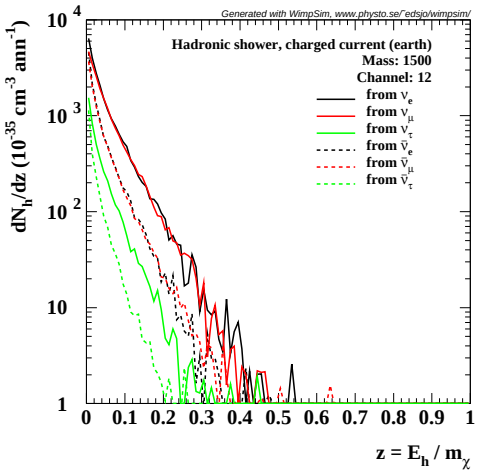


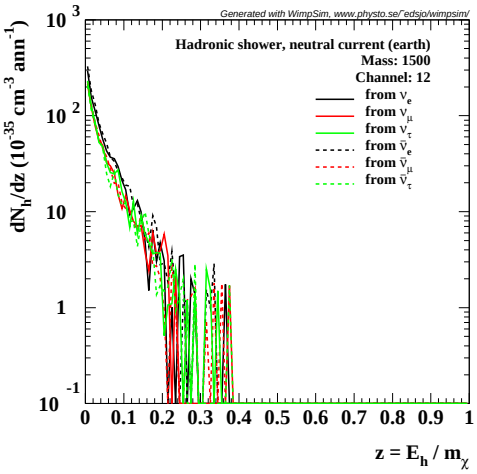
15.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



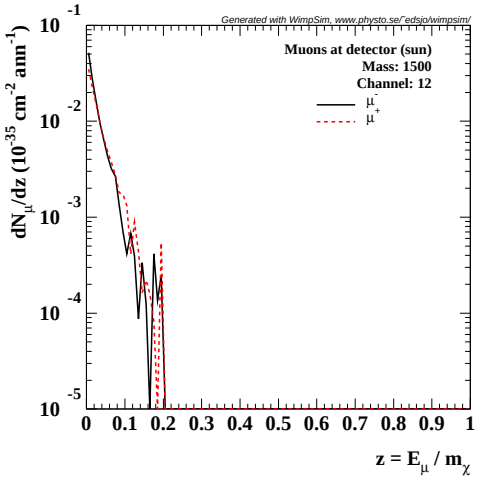


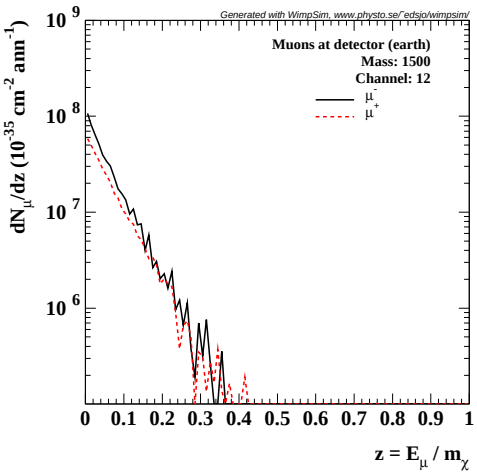
15.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





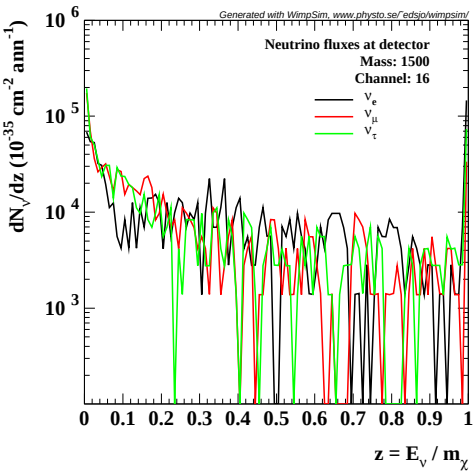
15.7.7 Muons at detector (Sun/Earth)

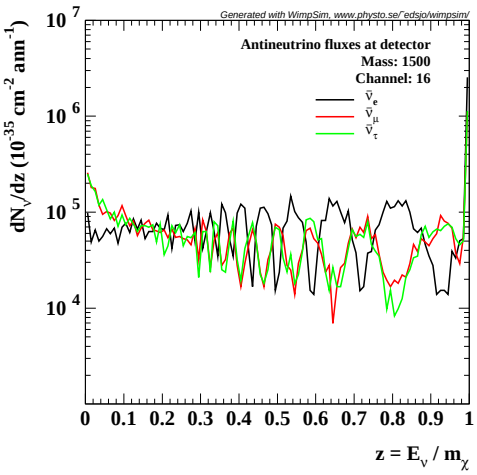




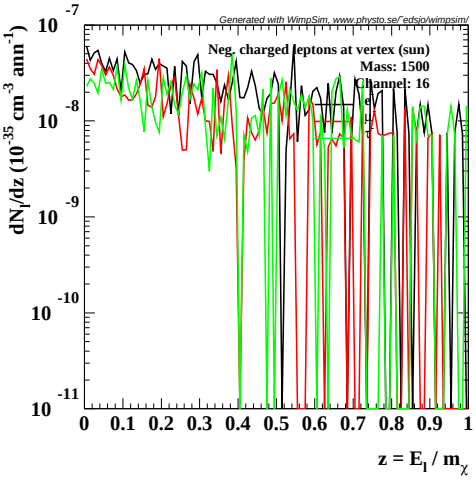
15.8 Channel 16 – $\nu_e\bar{\nu}_e$

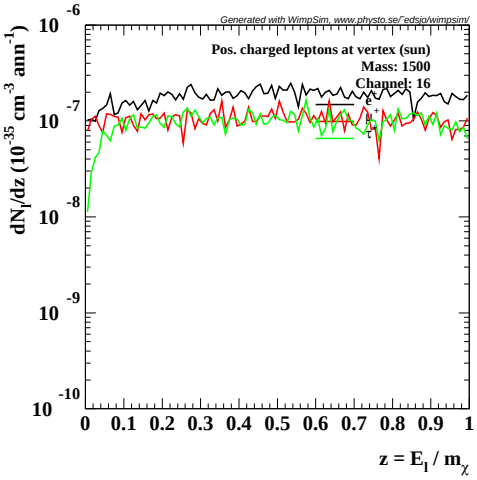
15.8.1 Neutrino fluxes at detector (Sun)



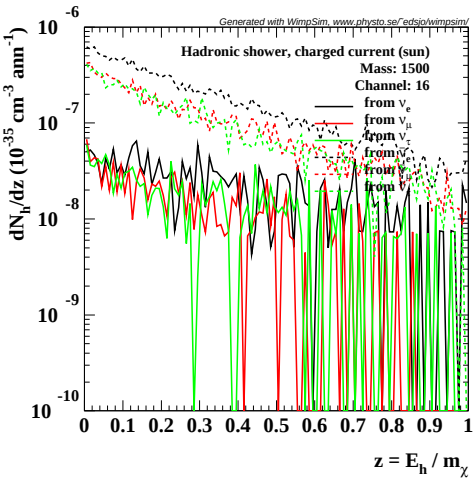


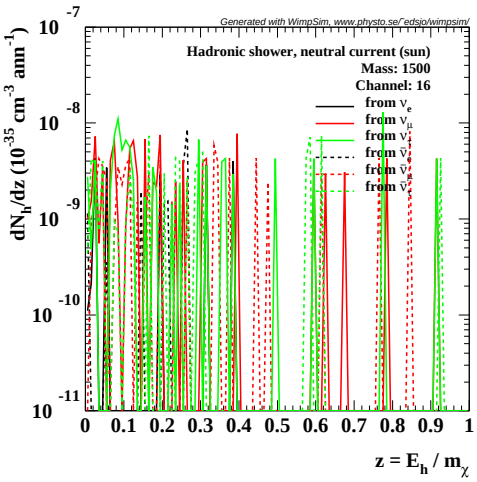
15.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



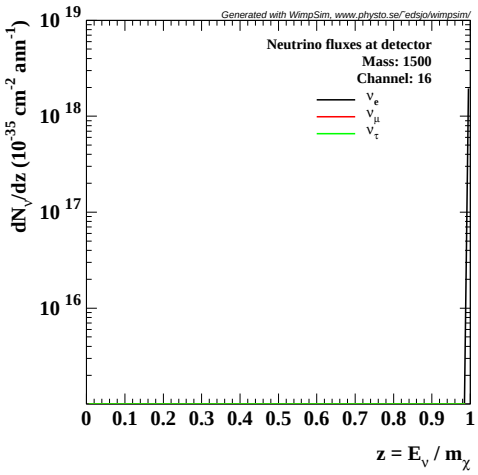


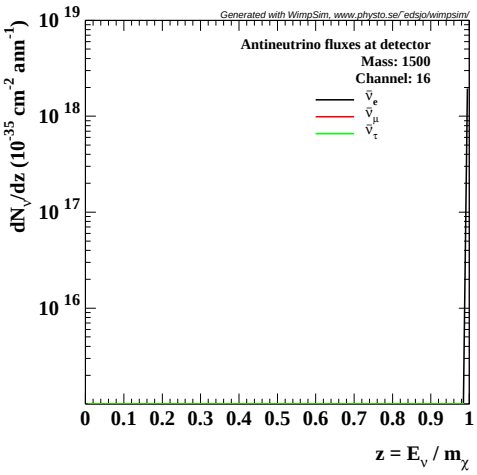
15.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



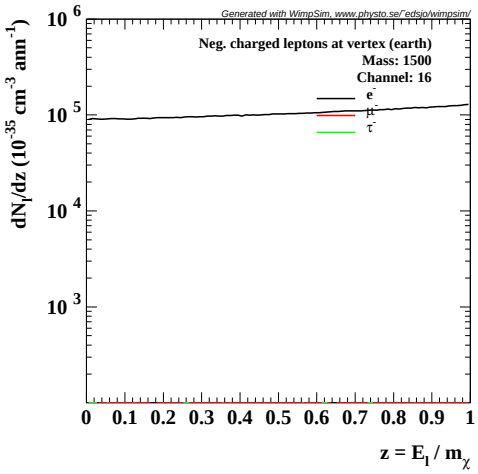


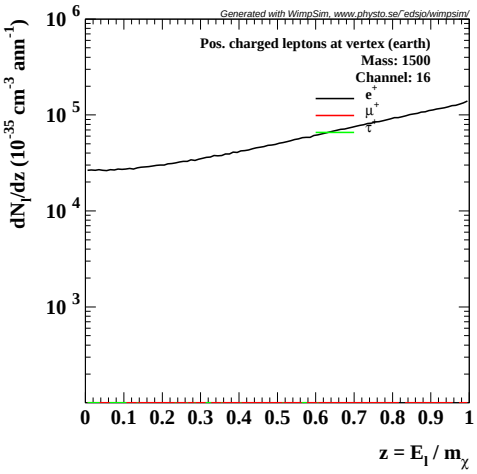
15.8.4 Neutrino fluxes at detector (Earth)



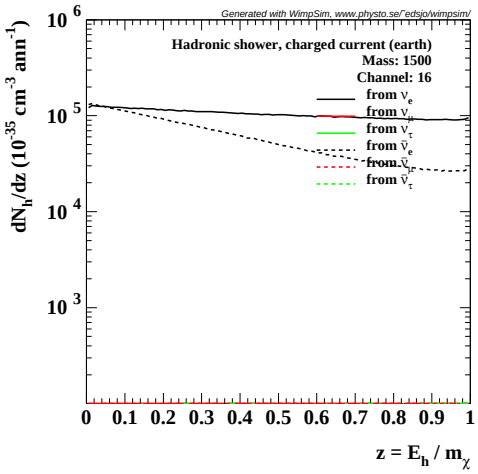


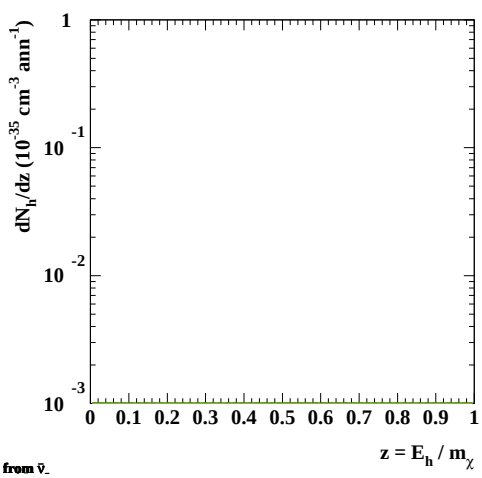
15.8.5 Charged leptons at neutrino-nucleon vertex (Earth)



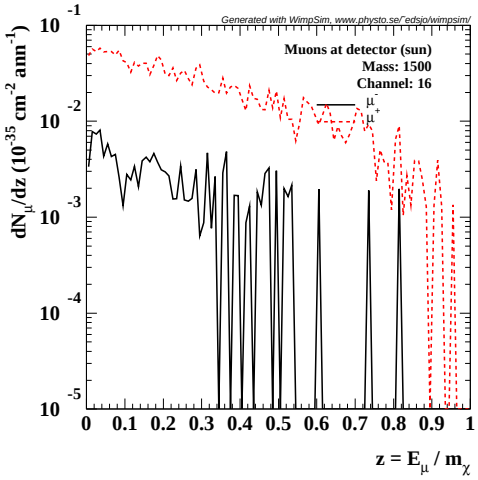


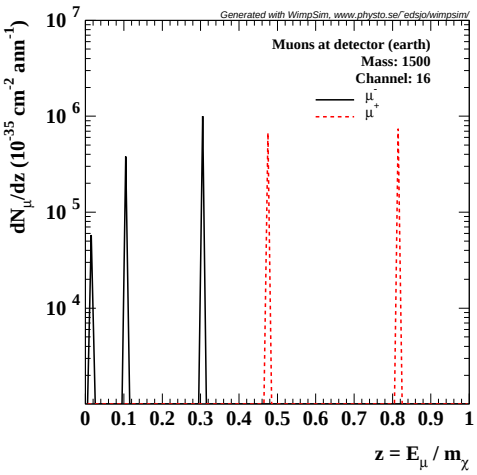
15.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)





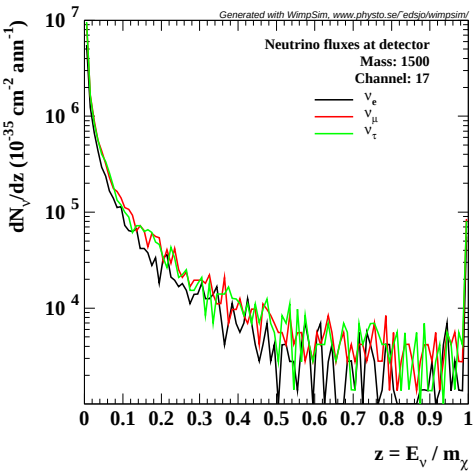
15.8.7 Muons at detector (Sun/Earth)

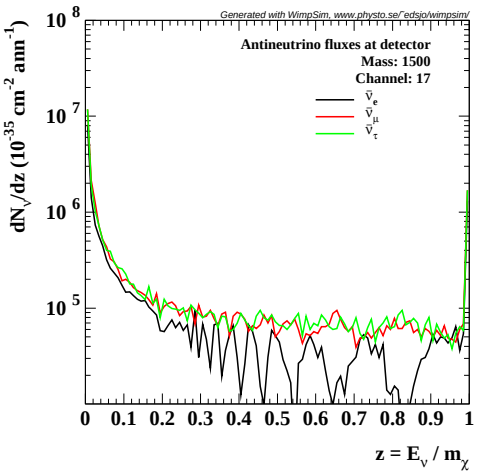




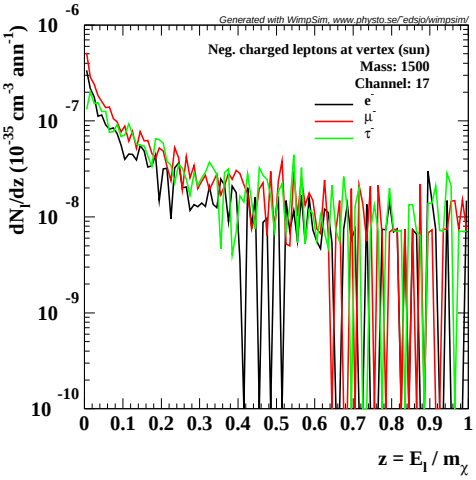
15.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

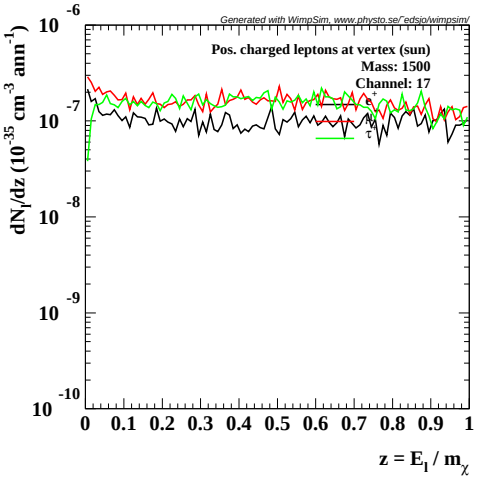
15.9.1 Neutrino fluxes at detector (Sun)



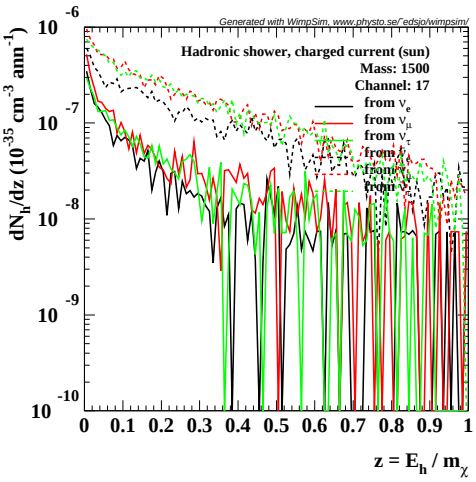


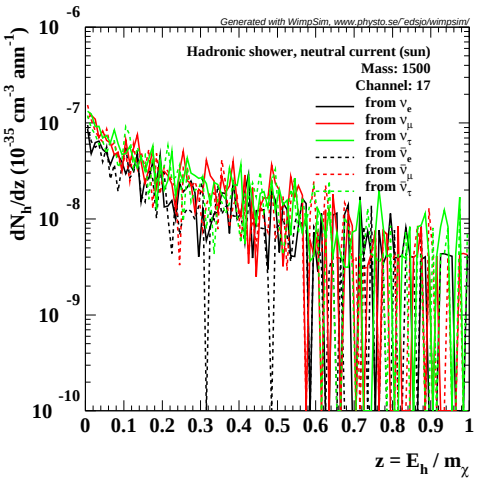
15.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



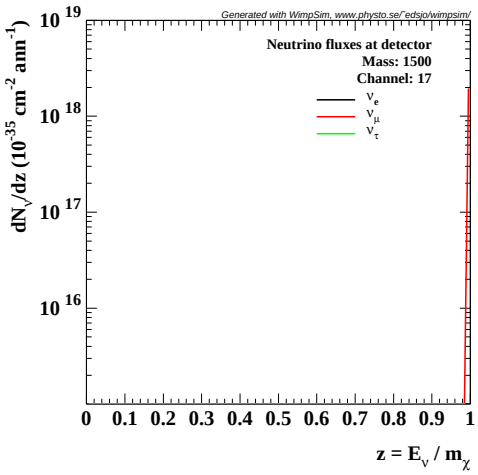


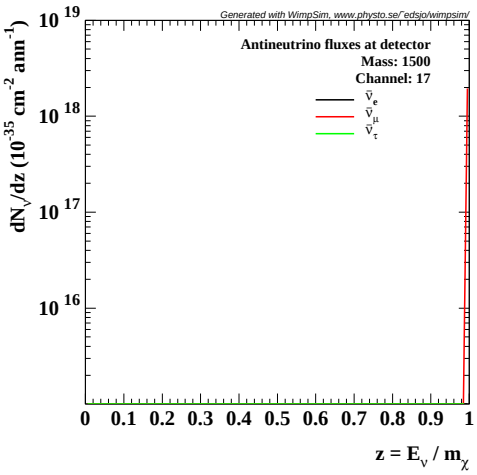
15.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



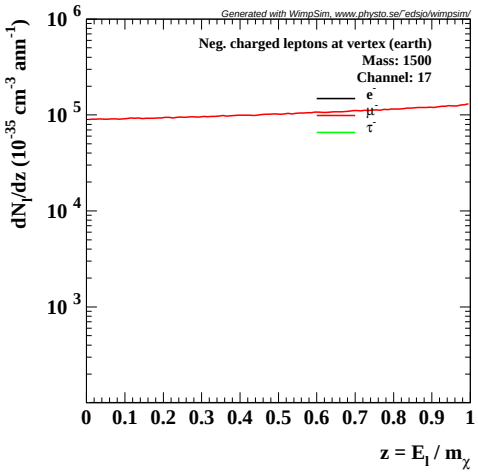


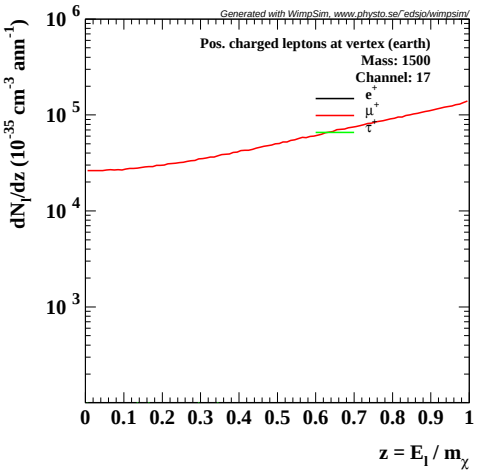
15.9.4 Neutrino fluxes at detector (Earth)



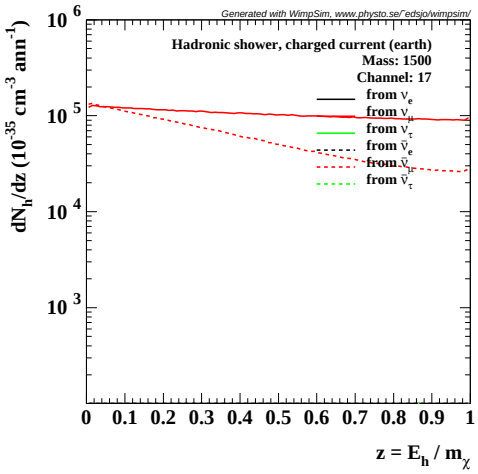


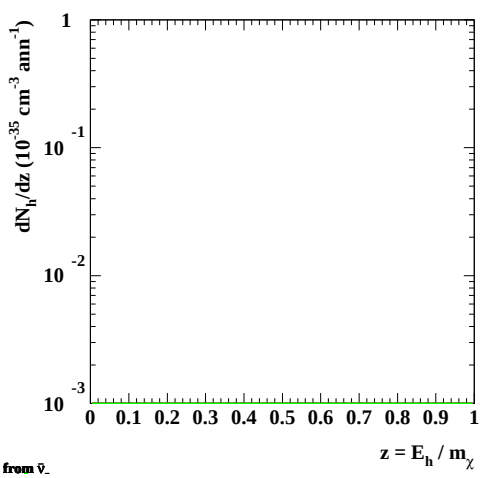
15.9.5 Charged leptons at neutrino-nucleon vertex (Earth)





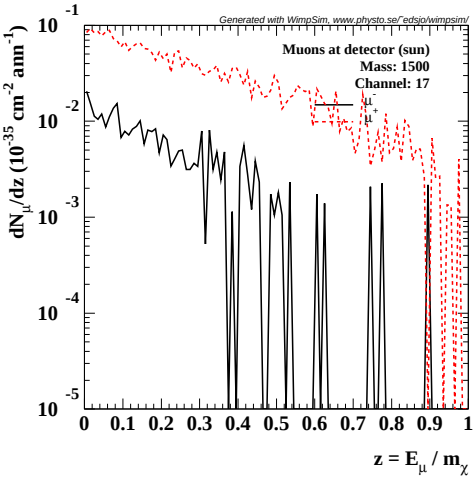
15.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)

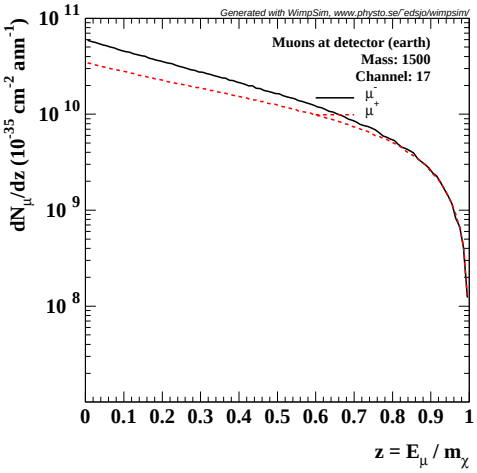




from $\bar{\nu}_\tau$

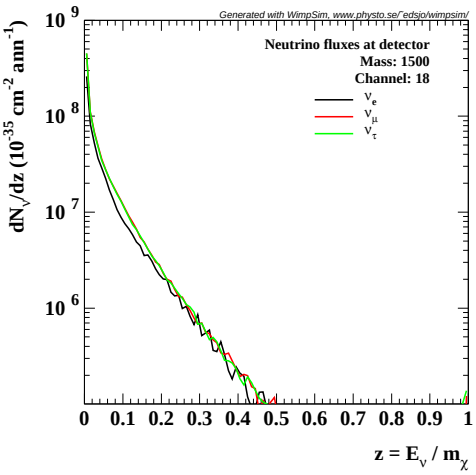
15.9.7 Muons at detector (Sun/Earth)

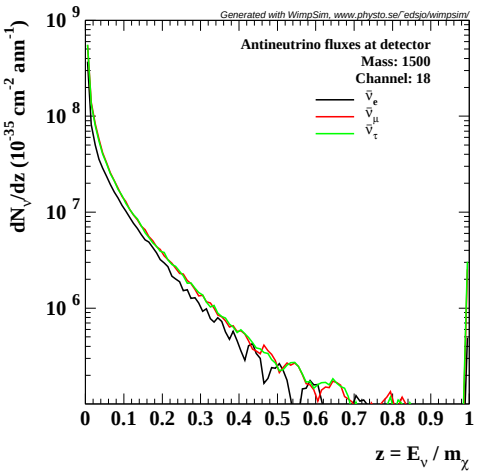




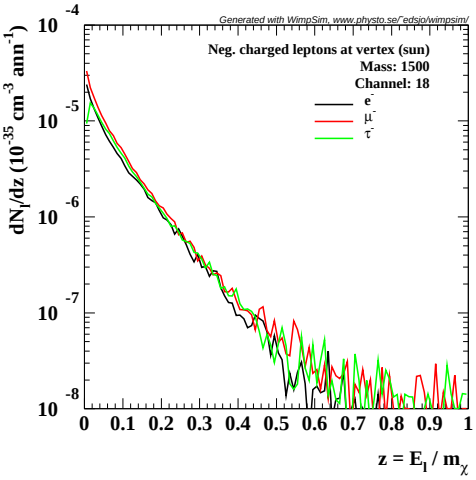
15.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

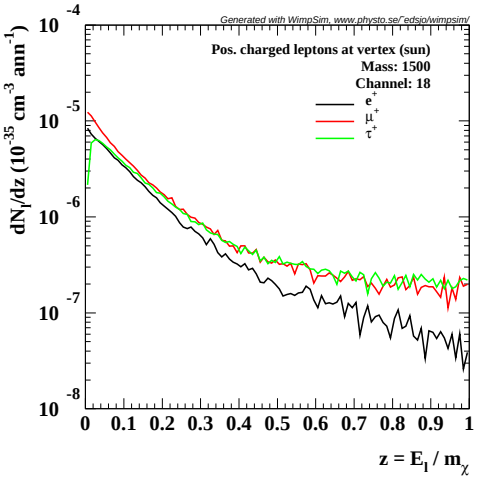
15.10.1 Neutrino fluxes at detector (Sun)



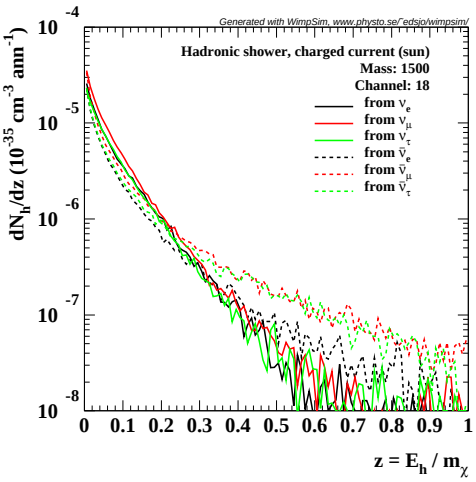


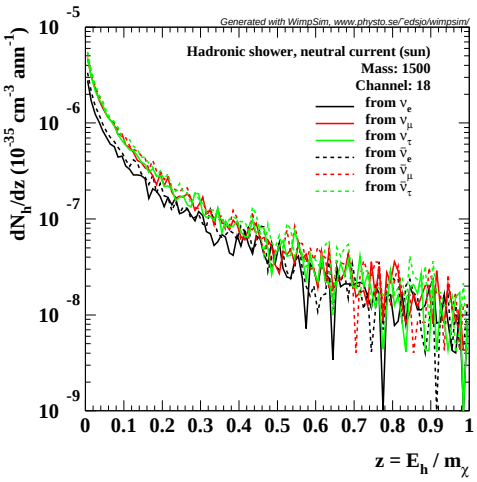
15.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



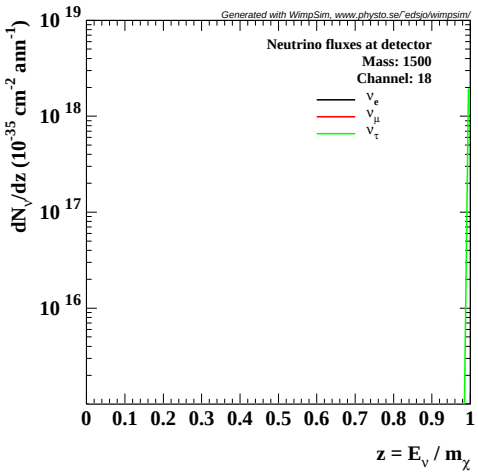


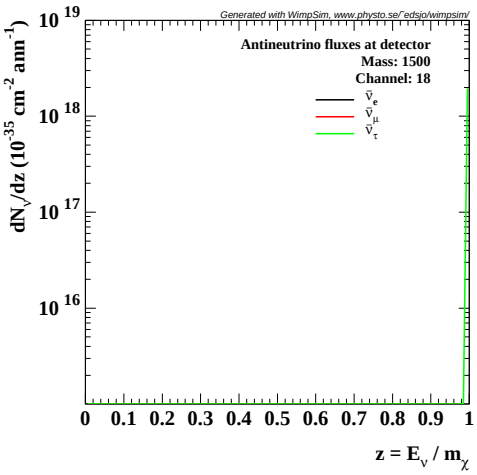
15.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



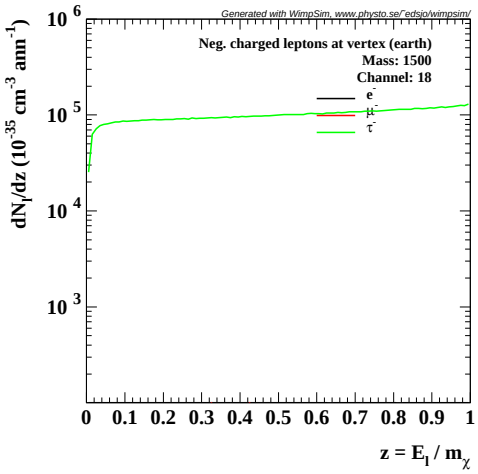


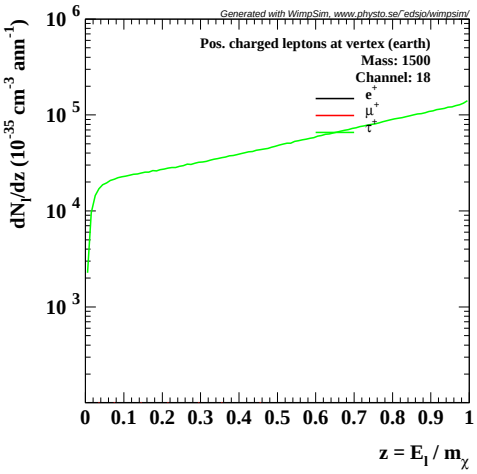
15.10.4 Neutrino fluxes at detector (Earth)



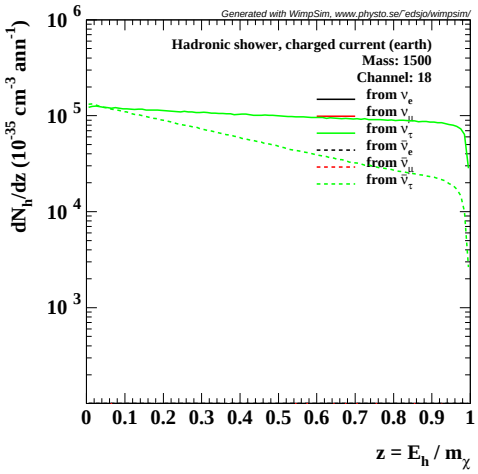


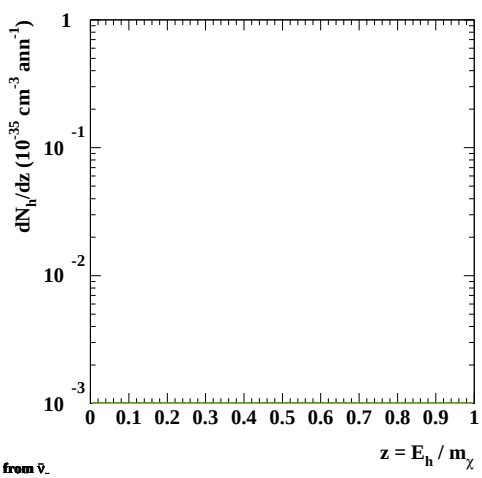
15.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





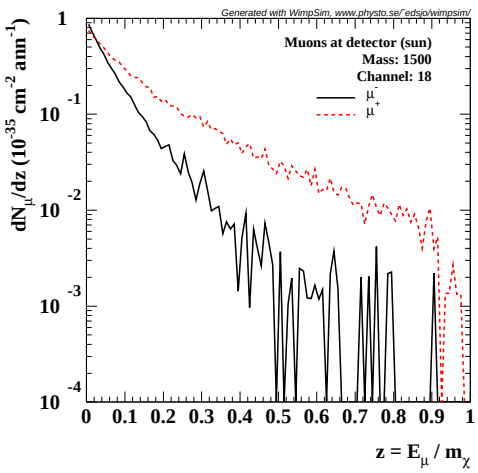
15.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

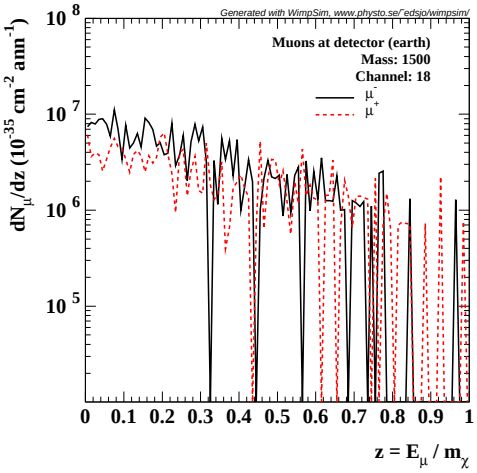




from $\bar{\nu}_\tau$

15.10.7 Muons at detector (Sun/Earth)

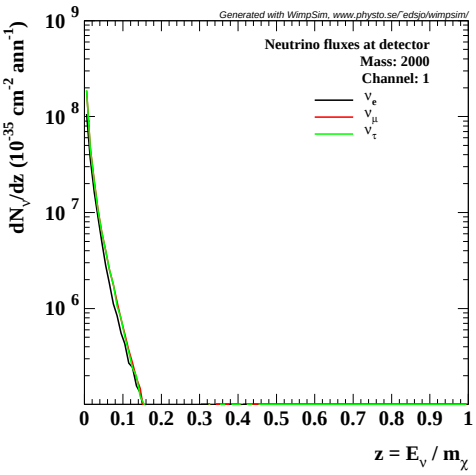


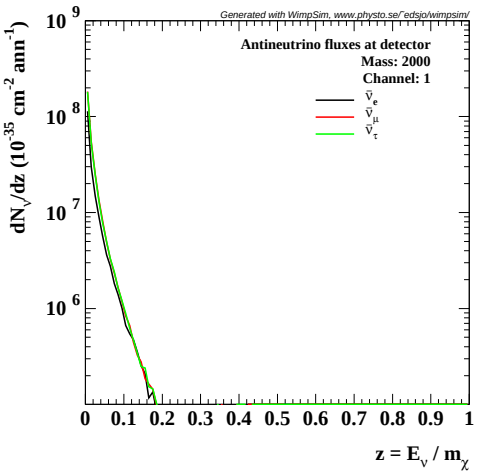


16 Mass 2000

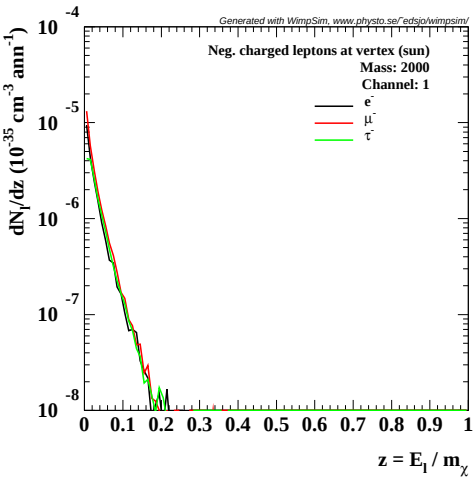
16.1 Channel 1 – $c\bar{c}$

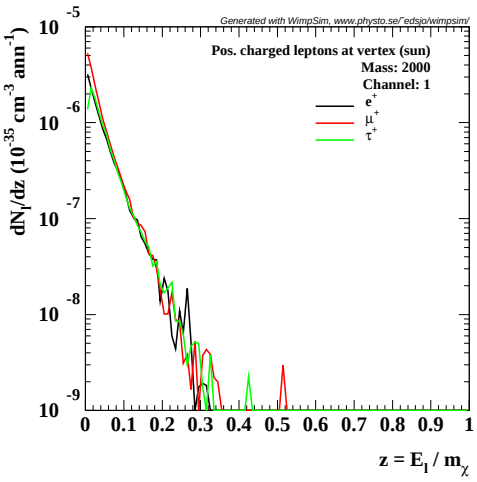
16.1.1 Neutrino fluxes at detector (Sun)



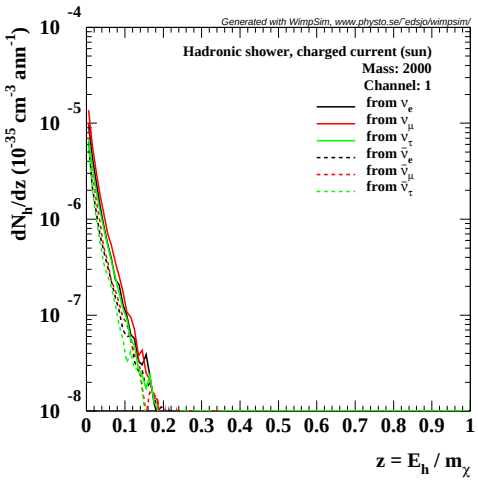


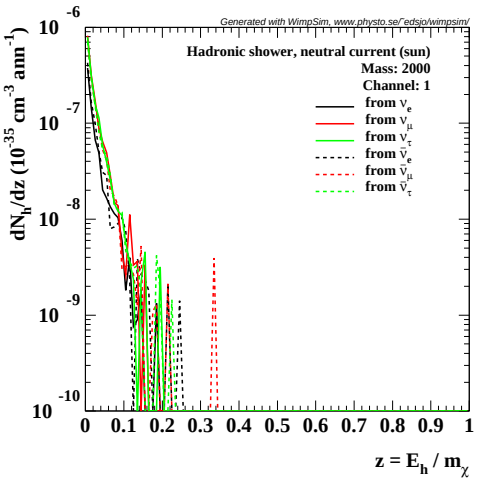
16.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



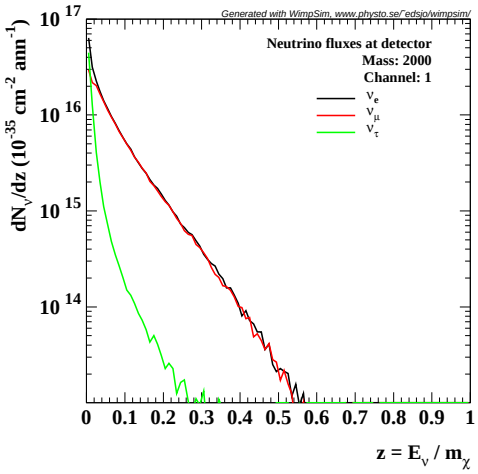


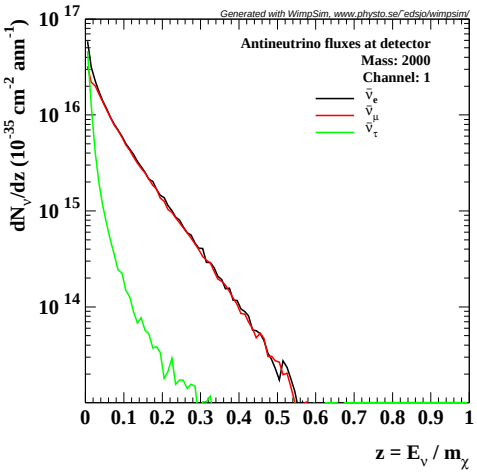
16.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



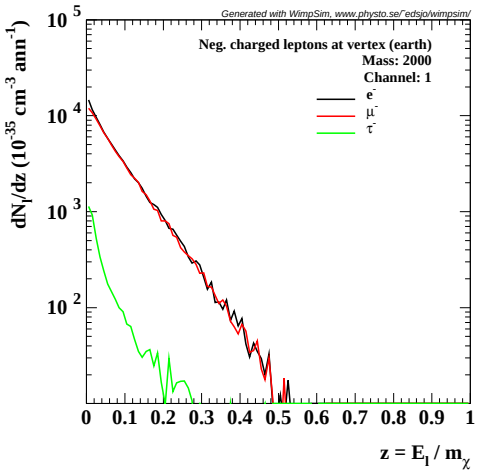


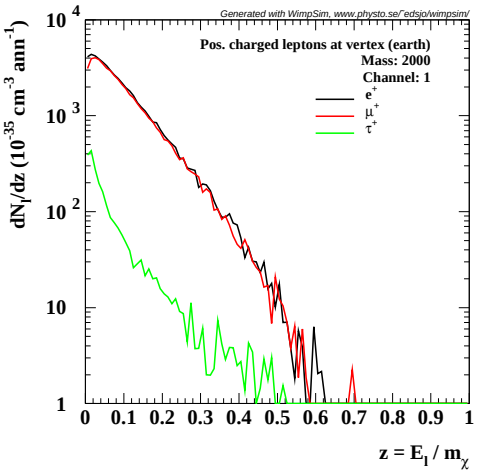
16.1.4 Neutrino fluxes at detector (Earth)



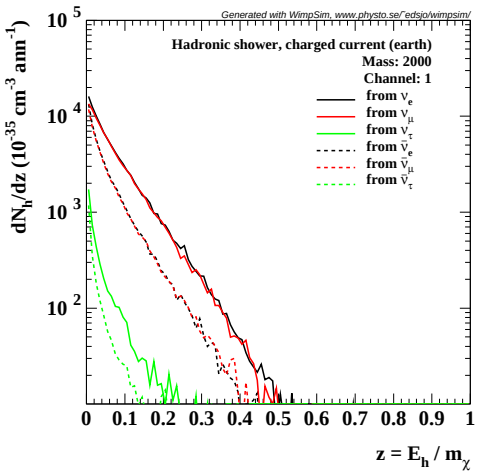


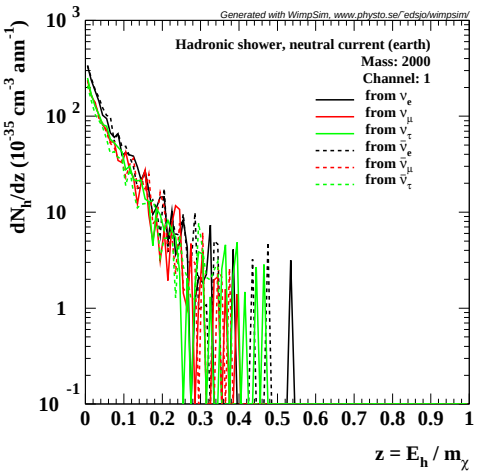
16.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



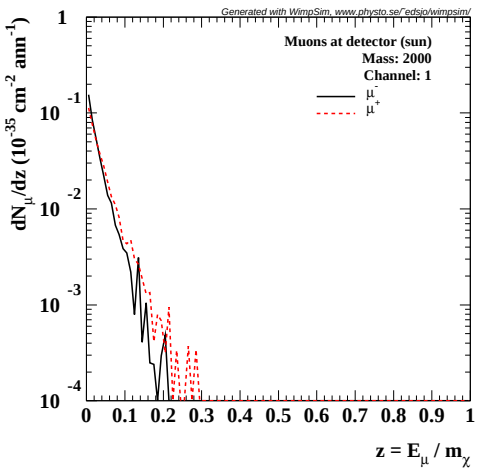


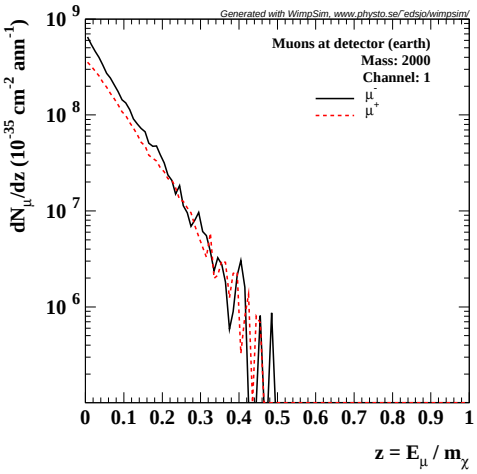
16.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





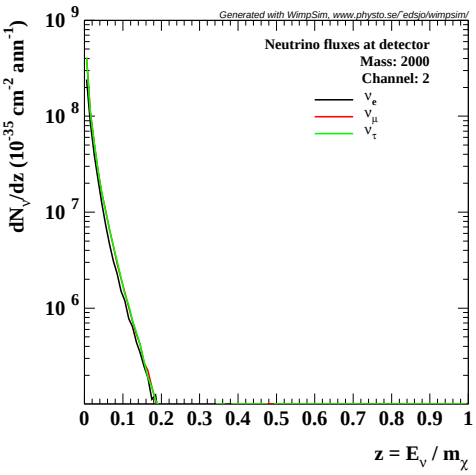
16.1.7 Muons at detector (Sun/Earth)

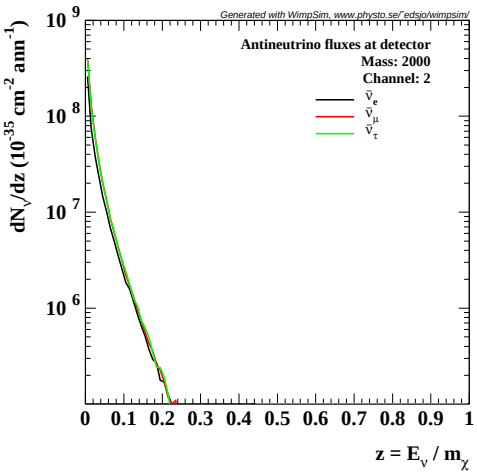




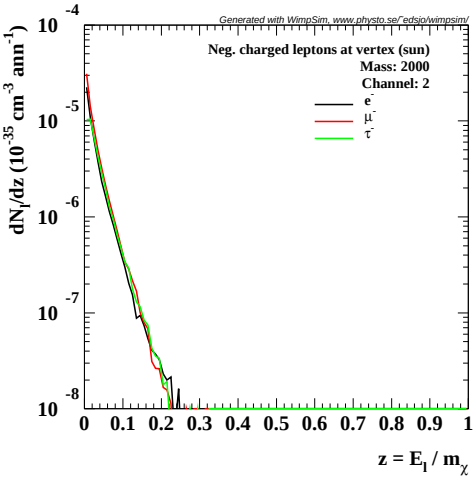
16.2 Channel 2 – $b\bar{b}$

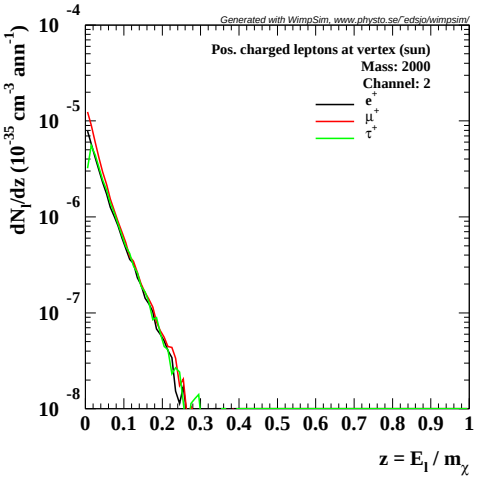
16.2.1 Neutrino fluxes at detector (Sun)



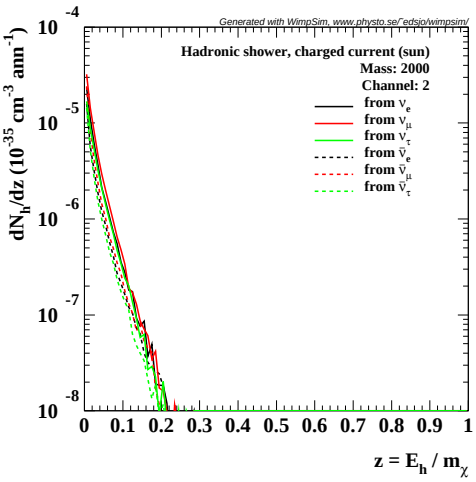


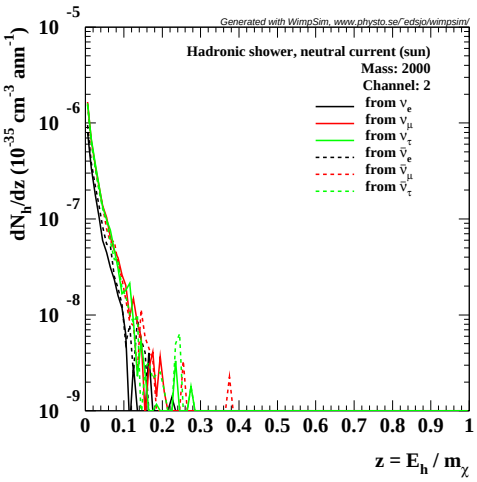
16.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



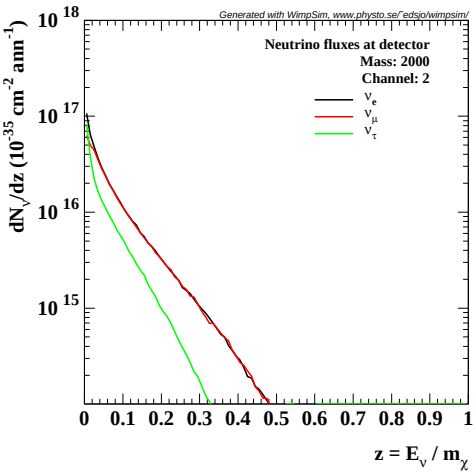


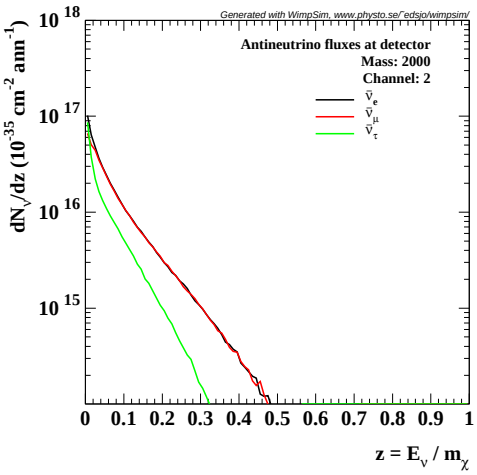
16.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



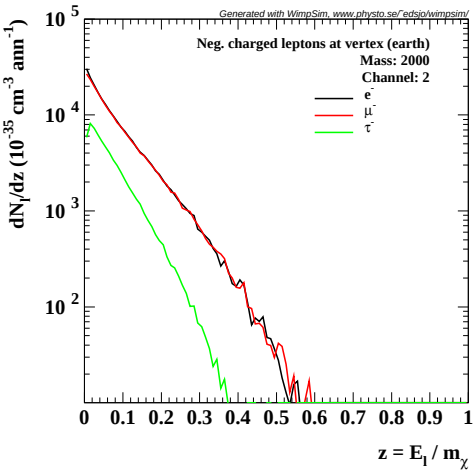


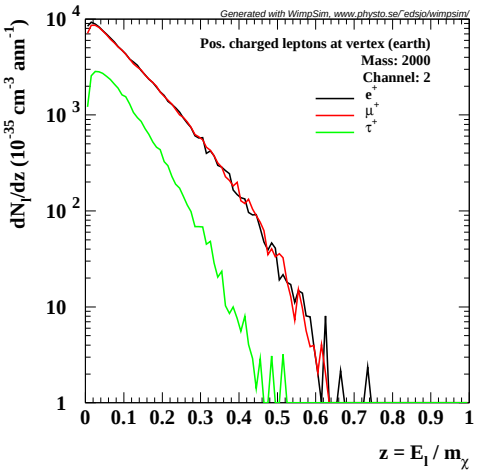
16.2.4 Neutrino fluxes at detector (Earth)



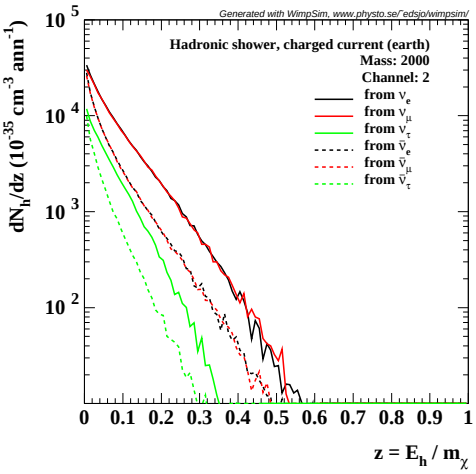


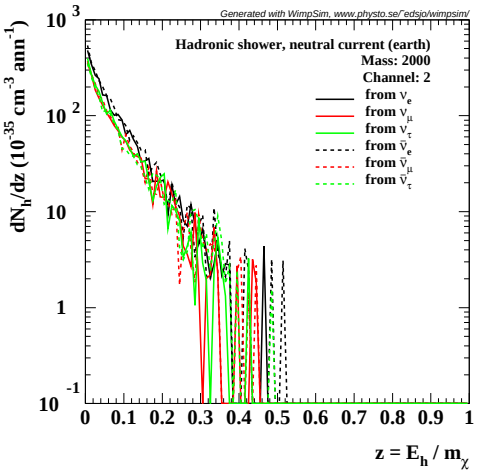
16.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



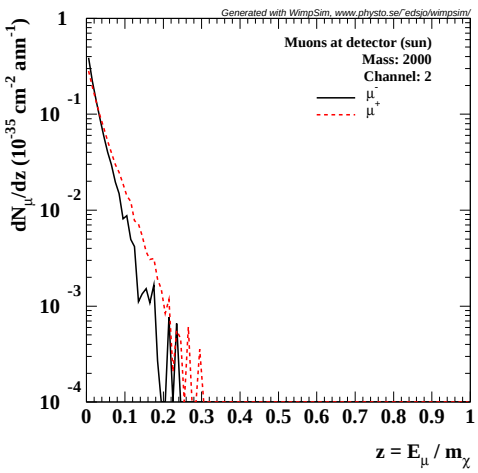


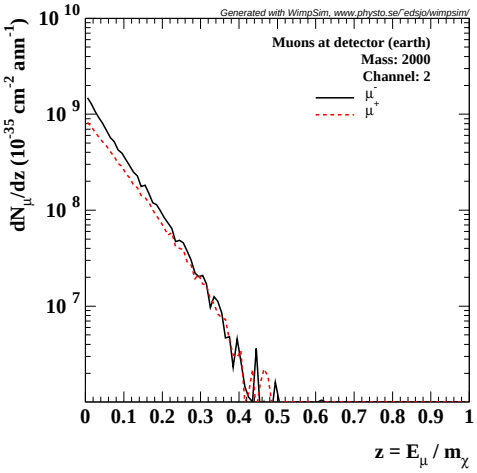
16.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





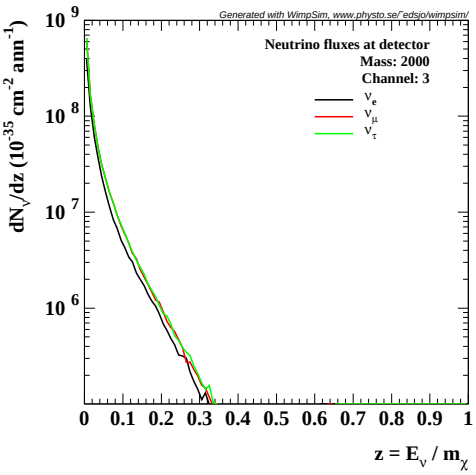
16.2.7 Muons at detector (Sun/Earth)

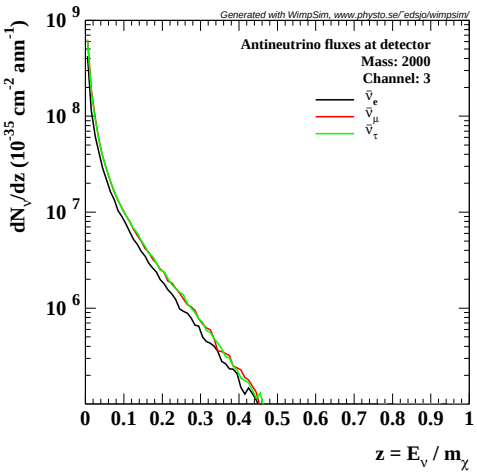




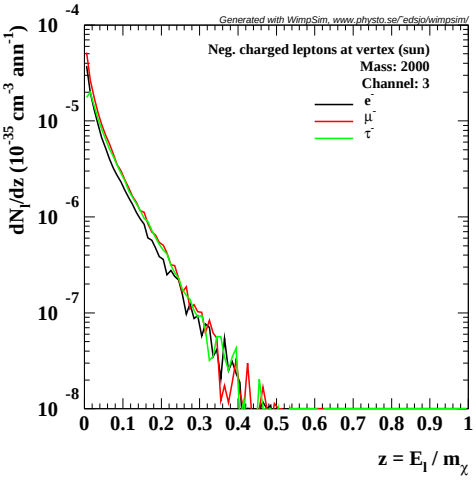
16.3 Channel 3 – $t\bar{t}$

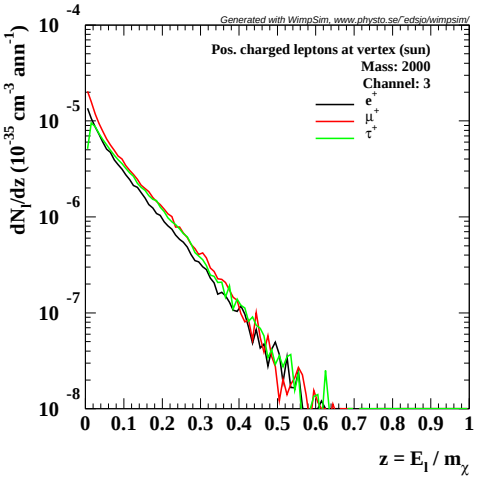
16.3.1 Neutrino fluxes at detector (Sun)



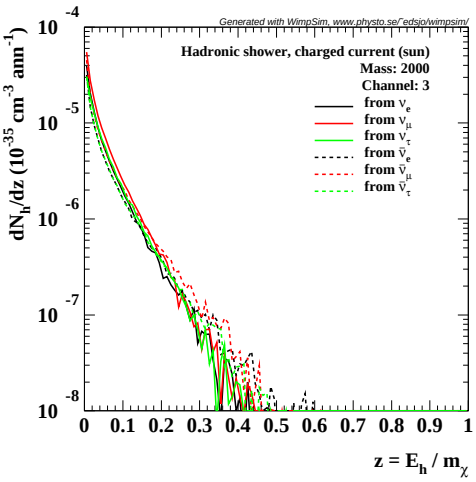


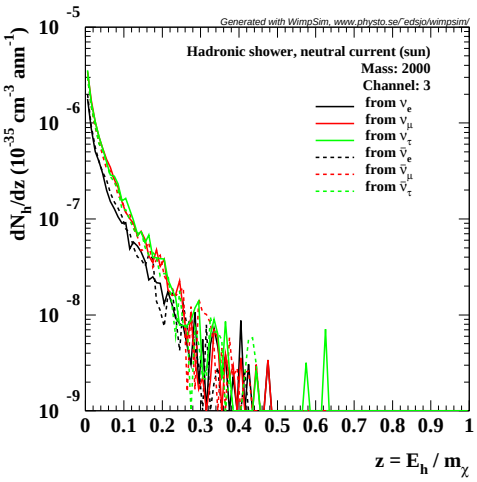
16.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



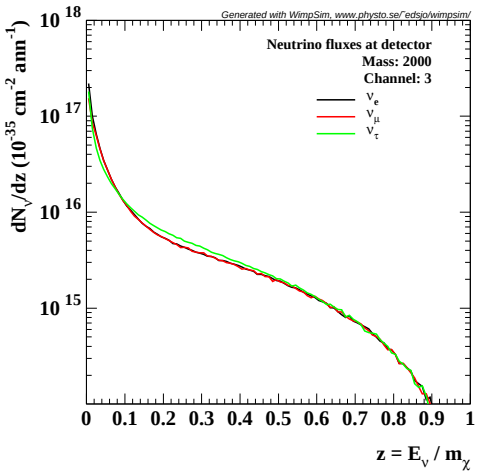


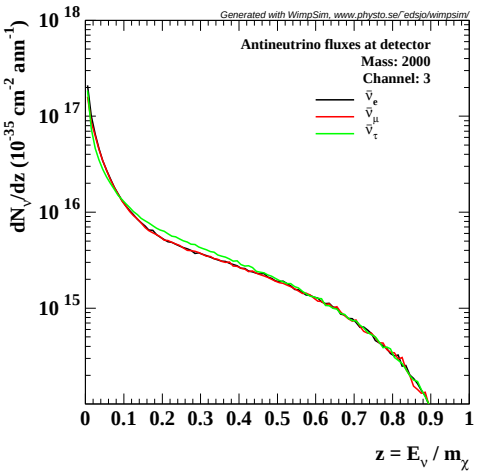
16.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



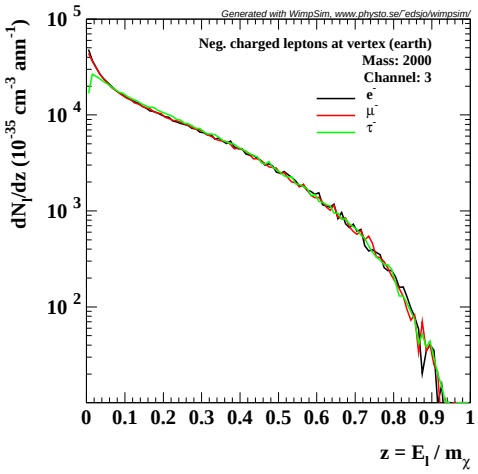


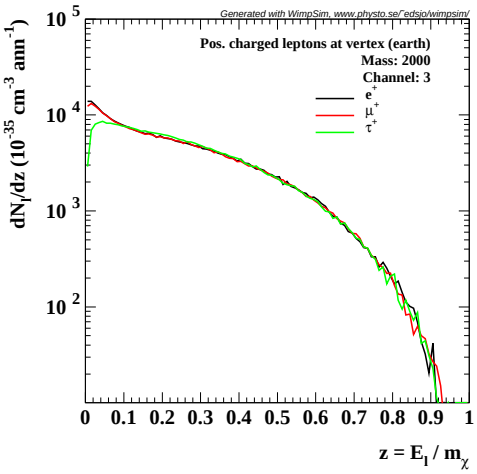
16.3.4 Neutrino fluxes at detector (Earth)



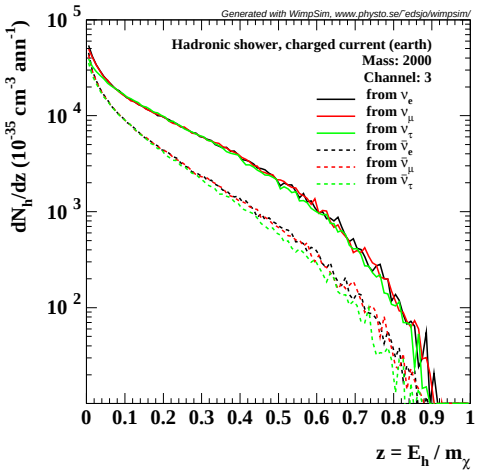


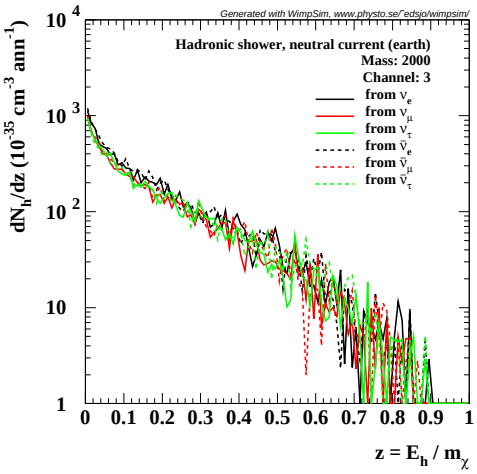
16.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



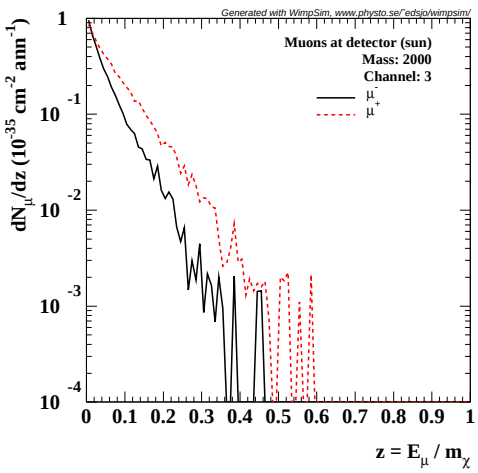


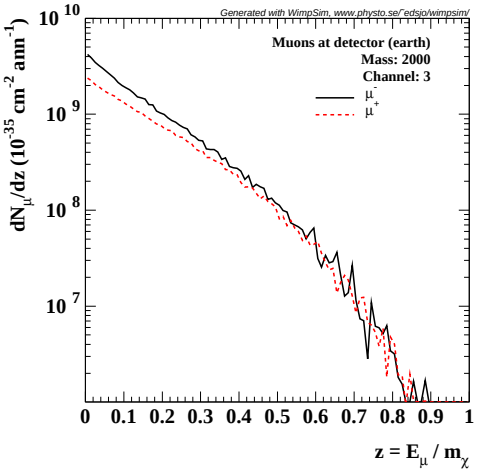
16.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





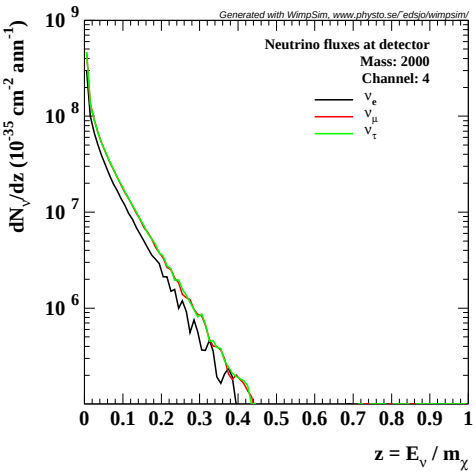
16.3.7 Muons at detector (Sun/Earth)

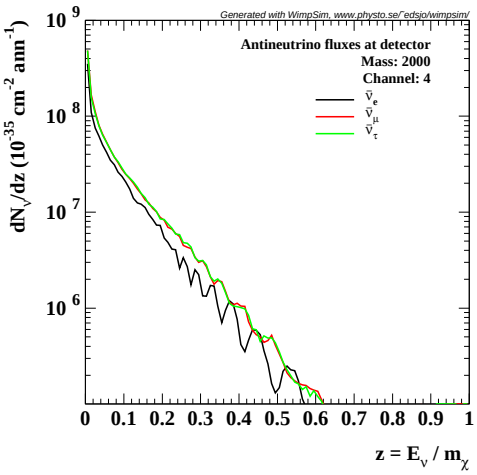




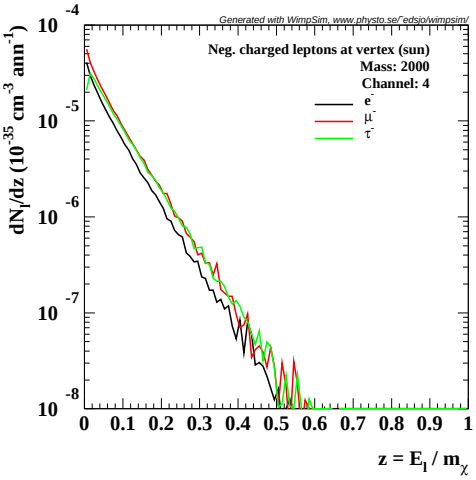
16.4 Channel 4 – $\tau^-\tau^+$

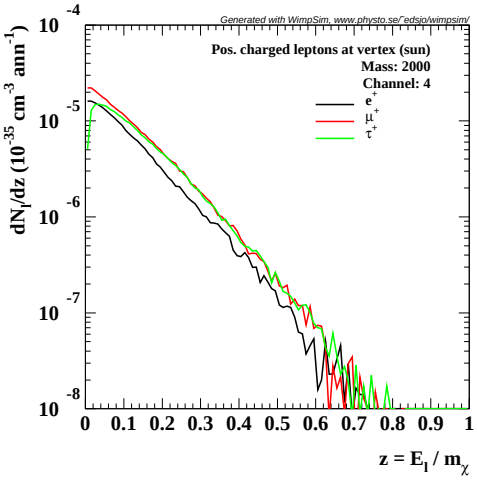
16.4.1 Neutrino fluxes at detector (Sun)



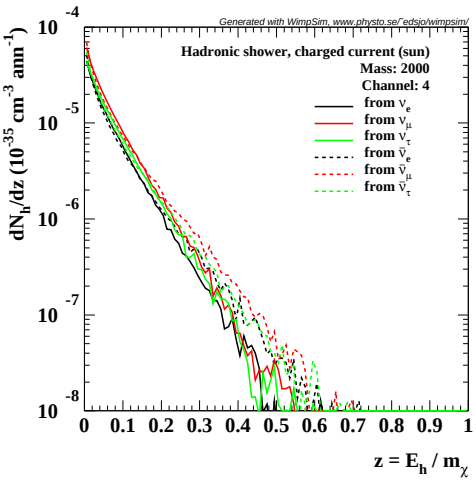


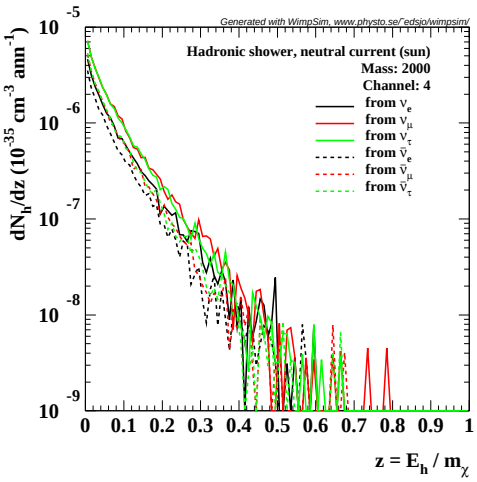
16.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



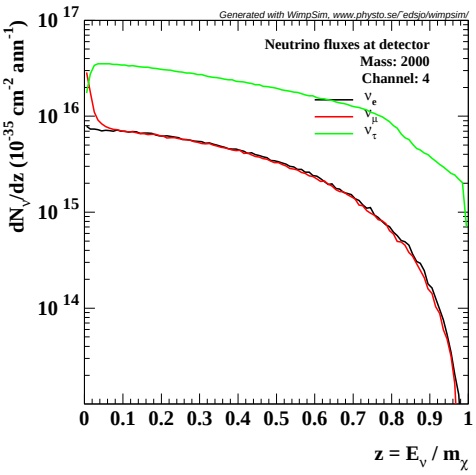


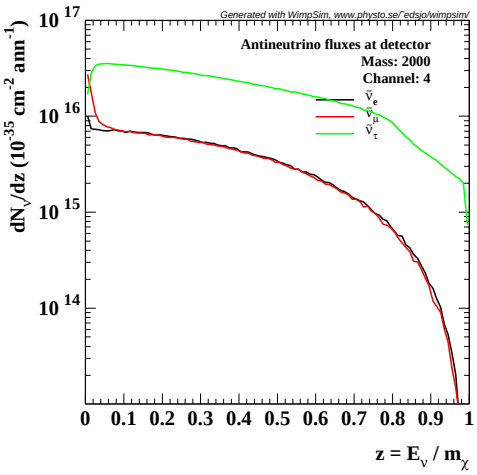
16.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



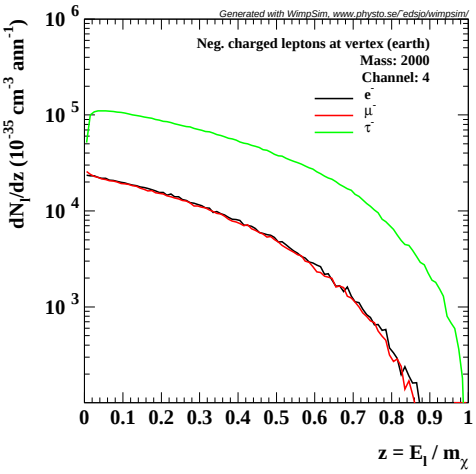


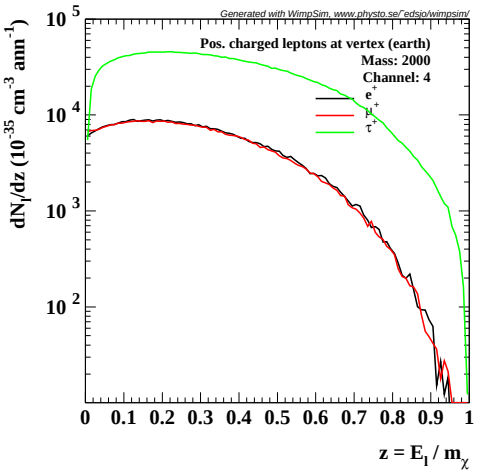
16.4.4 Neutrino fluxes at detector (Earth)



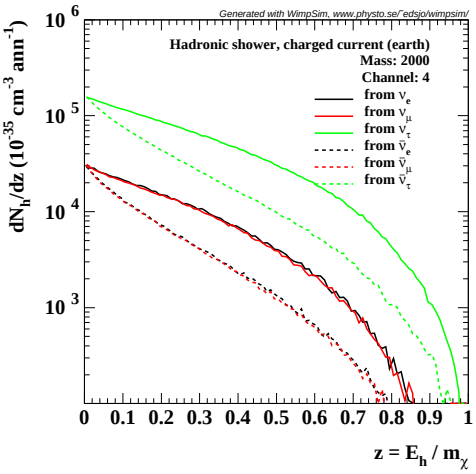


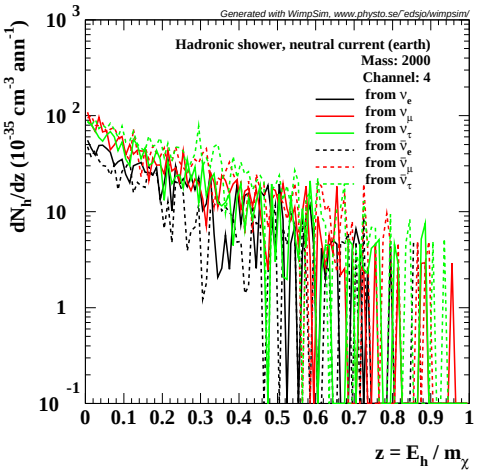
16.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



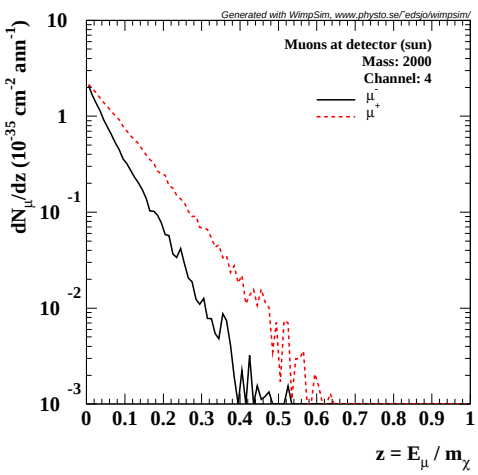


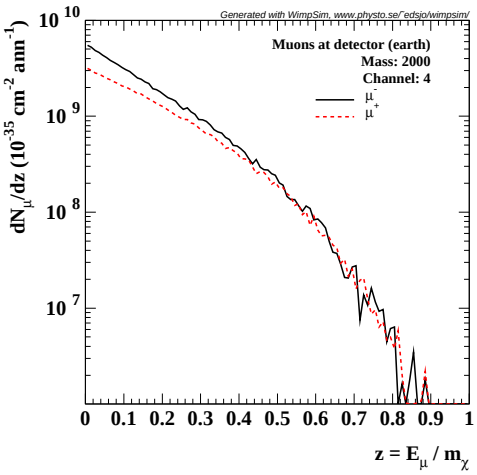
16.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





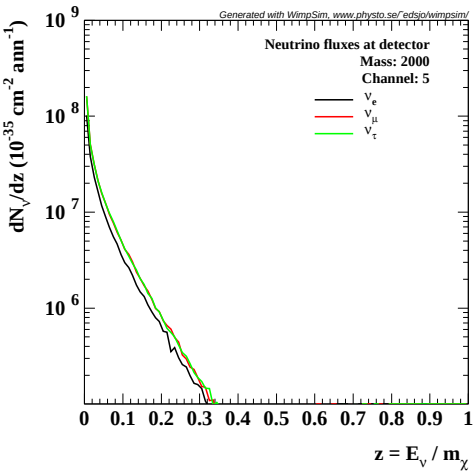
16.4.7 Muons at detector (Sun/Earth)

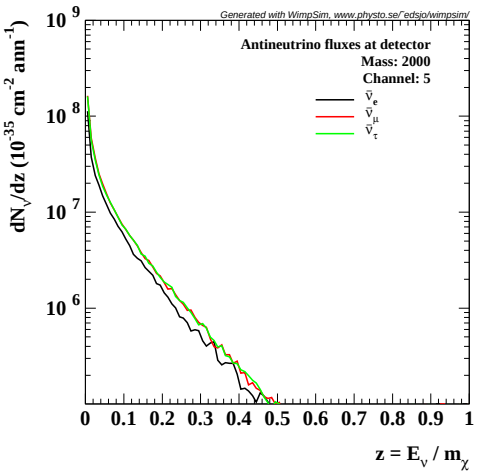




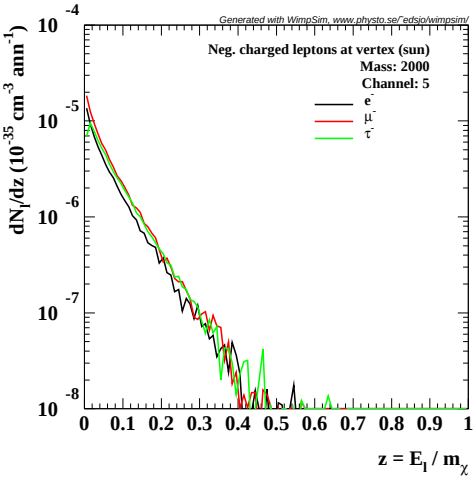
16.5 Channel 5 – W^-W^+

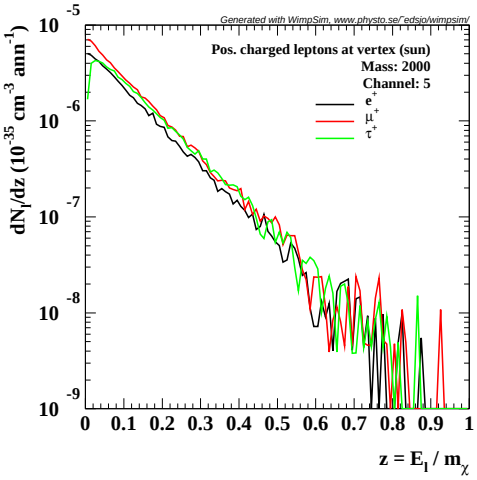
16.5.1 Neutrino fluxes at detector (Sun)



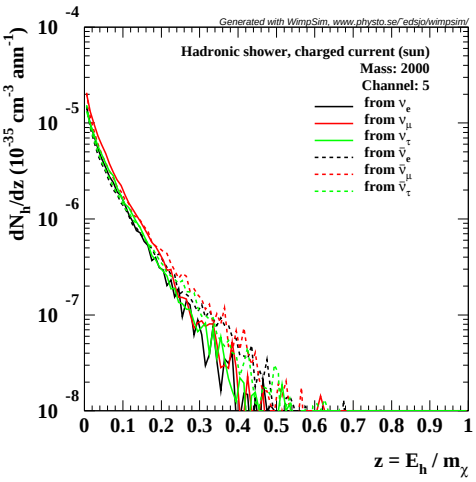


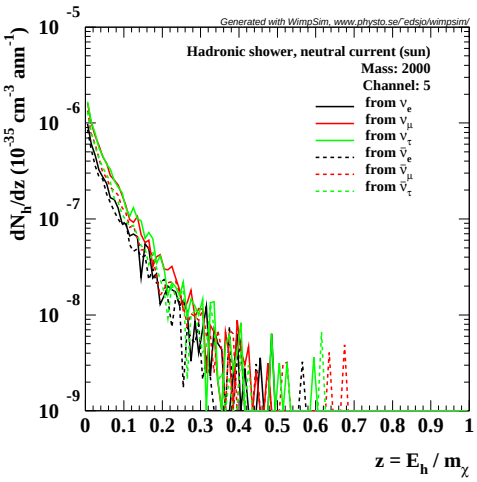
16.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



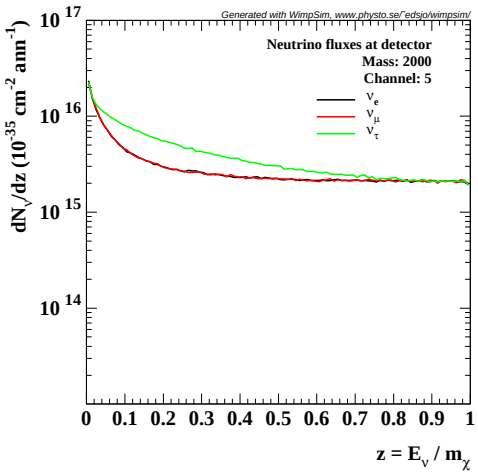


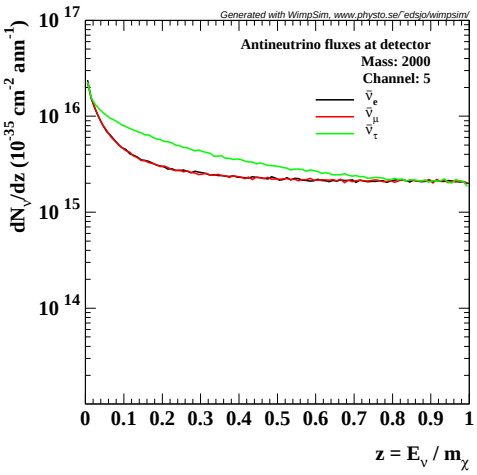
16.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



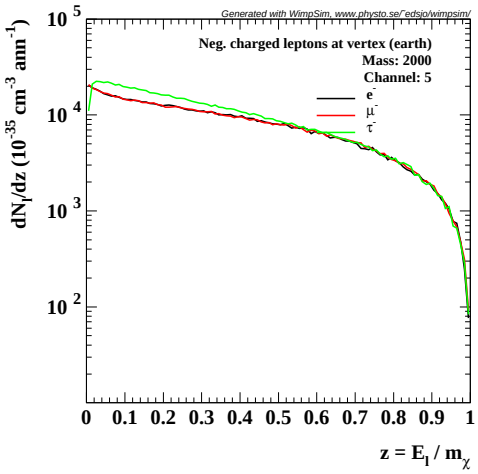


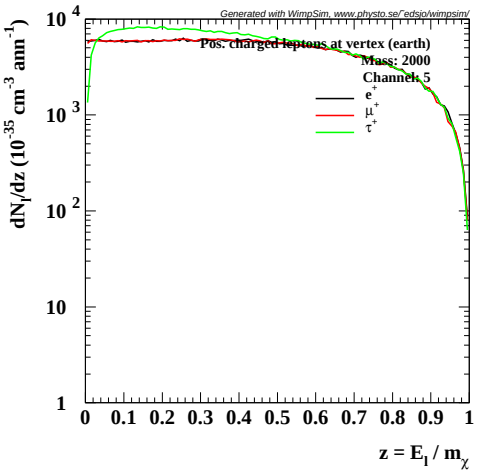
16.5.4 Neutrino fluxes at detector (Earth)



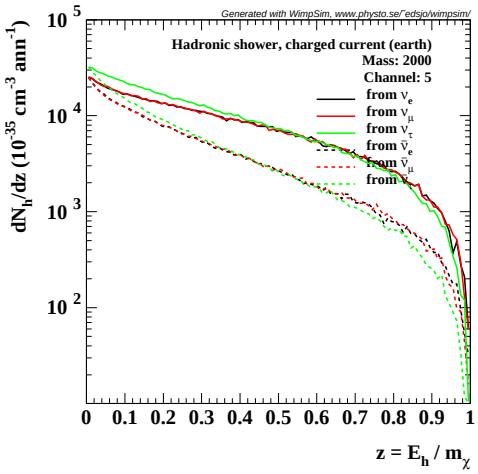


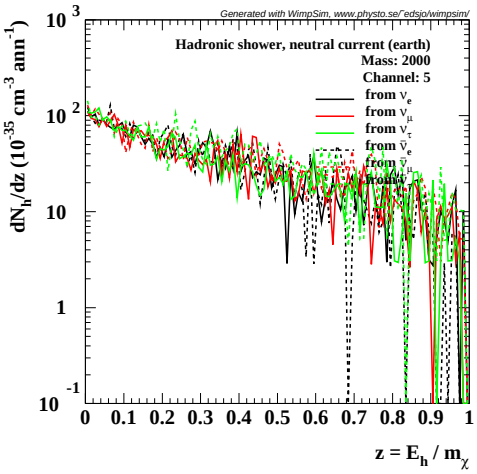
16.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



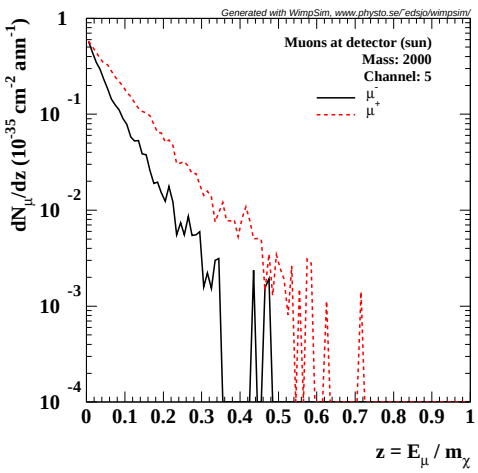


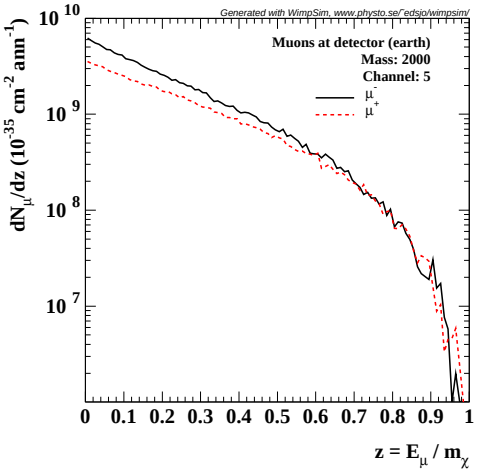
16.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





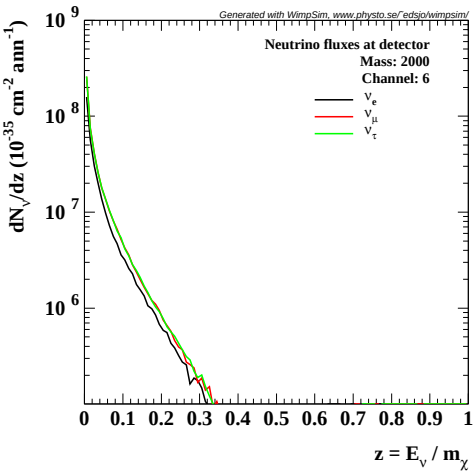
16.5.7 Muons at detector (Sun/Earth)

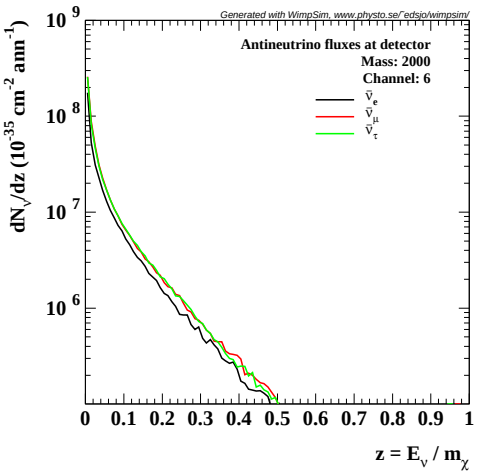




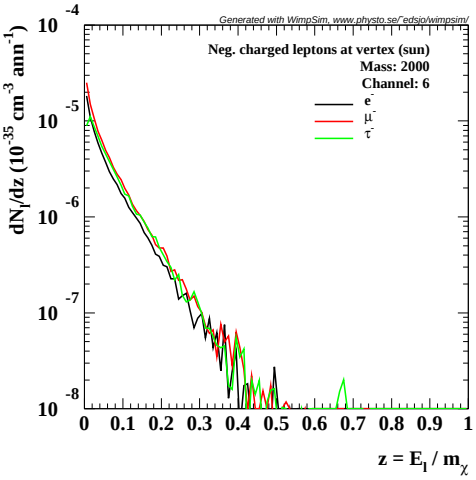
16.6 Channel 6 – $Z^0 Z^0$

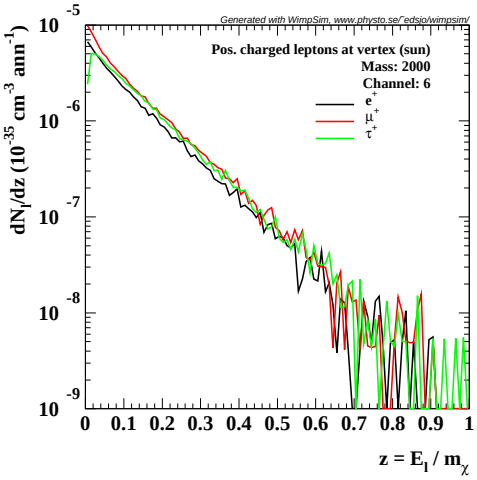
16.6.1 Neutrino fluxes at detector (Sun)



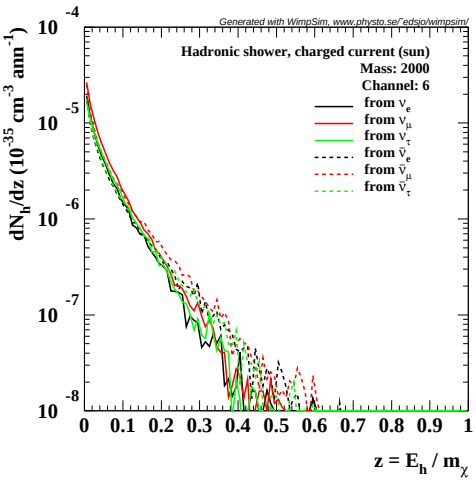


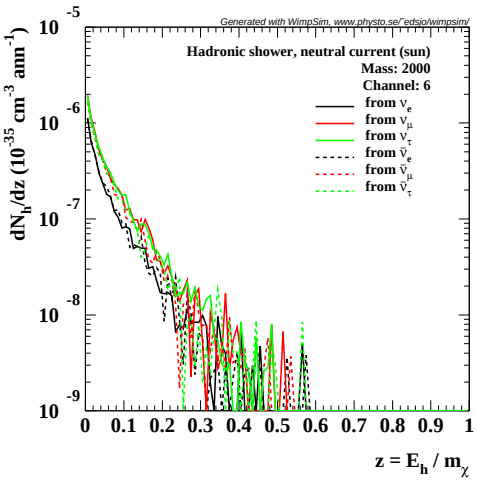
16.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



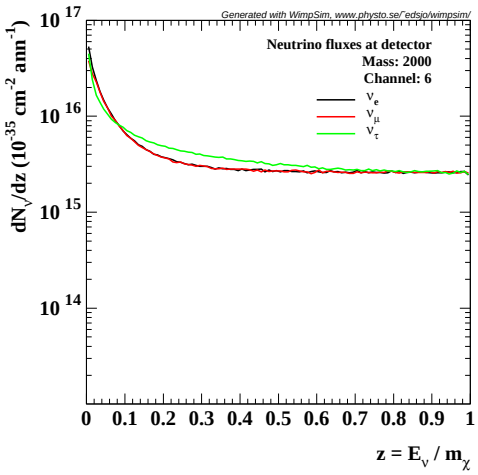


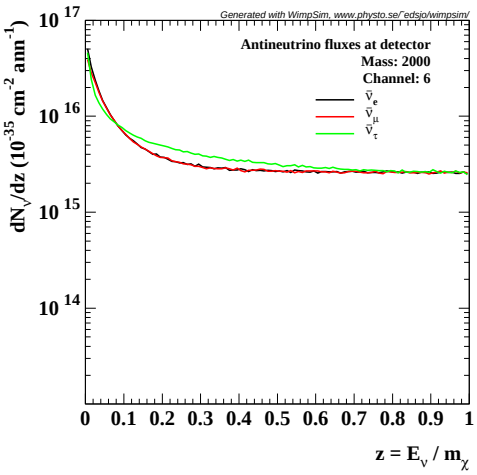
16.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



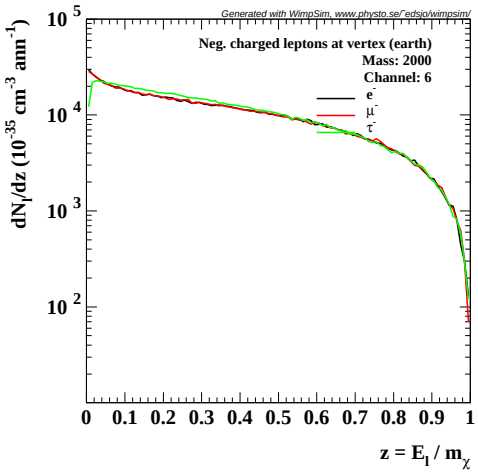


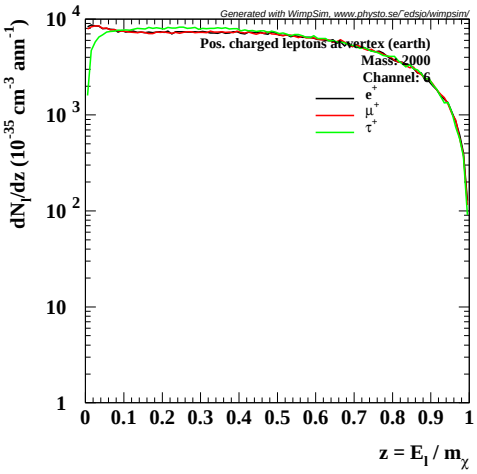
16.6.4 Neutrino fluxes at detector (Earth)



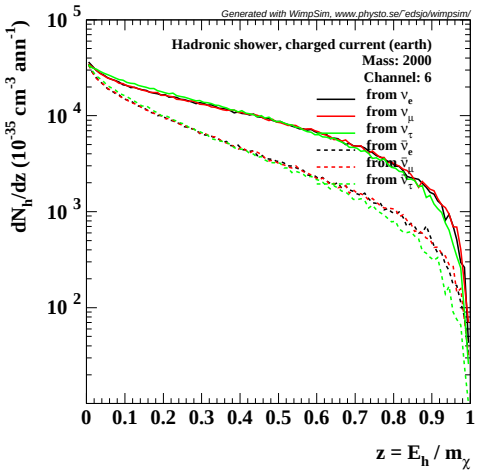


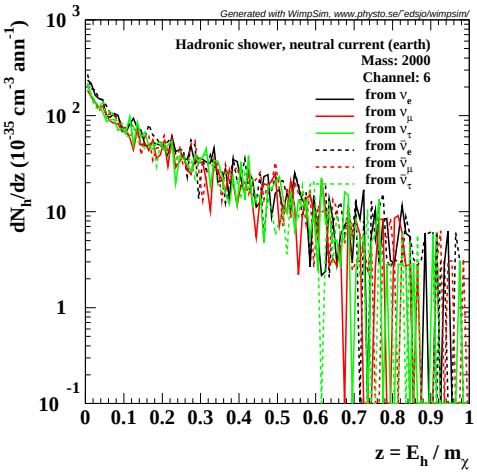
16.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



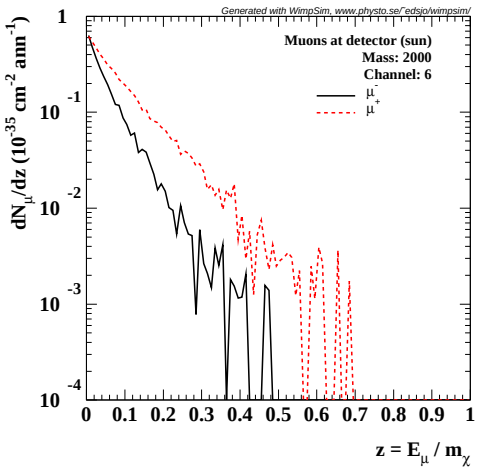


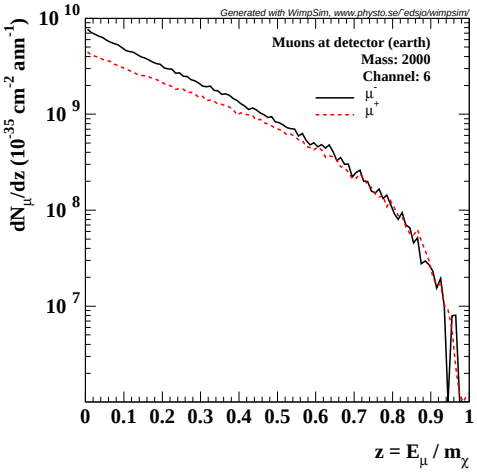
16.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





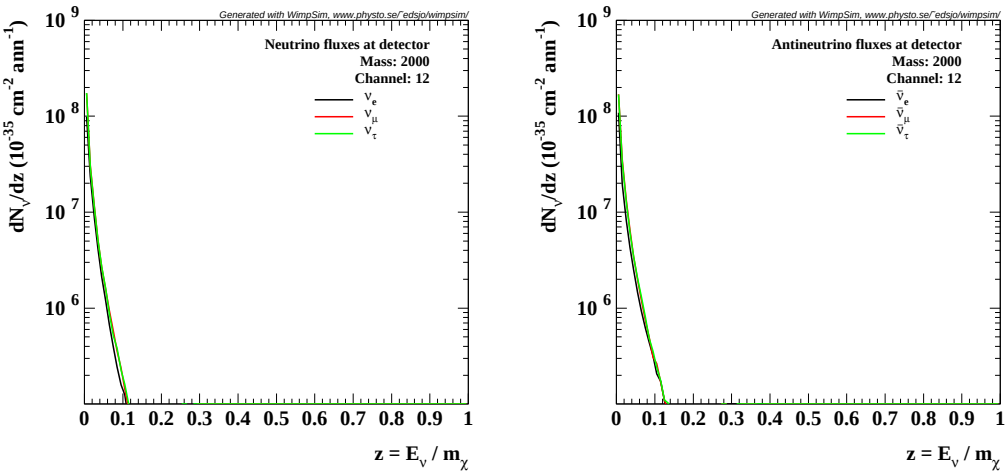
16.6.7 Muons at detector (Sun/Earth)



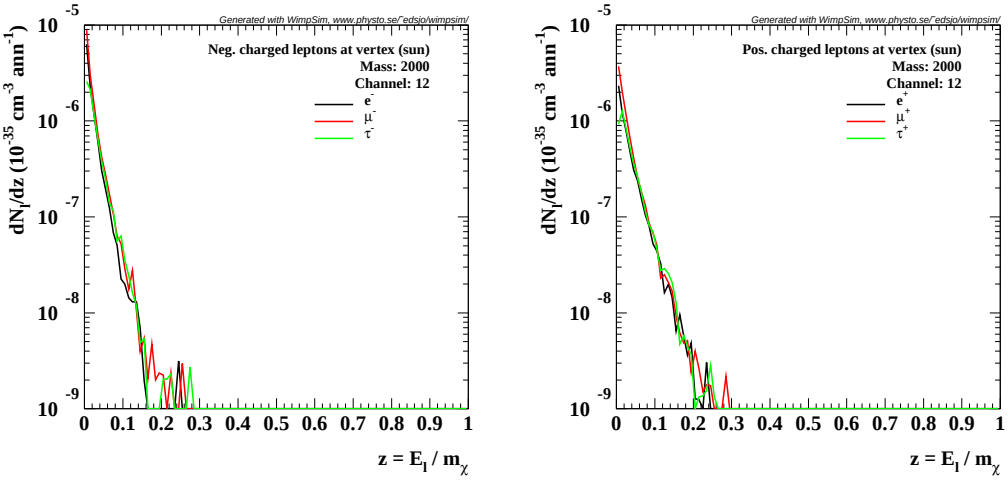


16.7 Channel 12 – gg

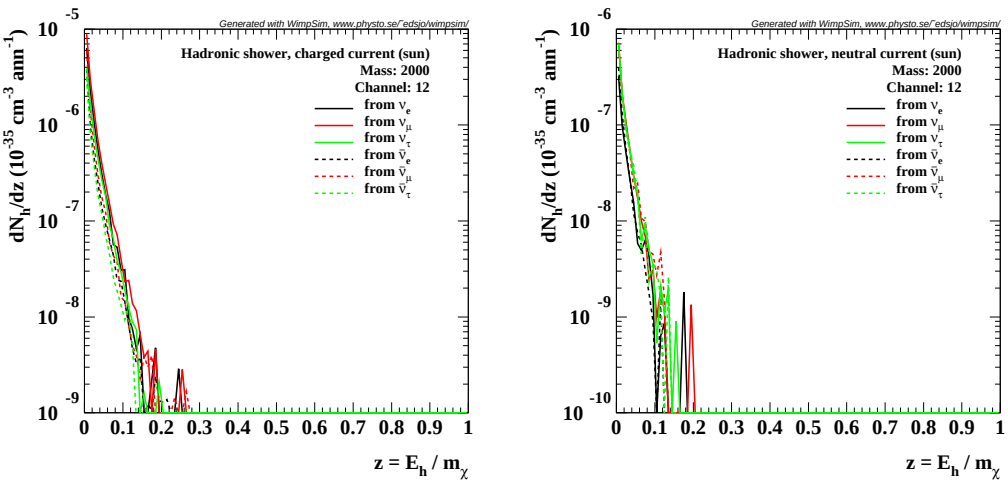
16.7.1 Neutrino fluxes at detector (Sun)



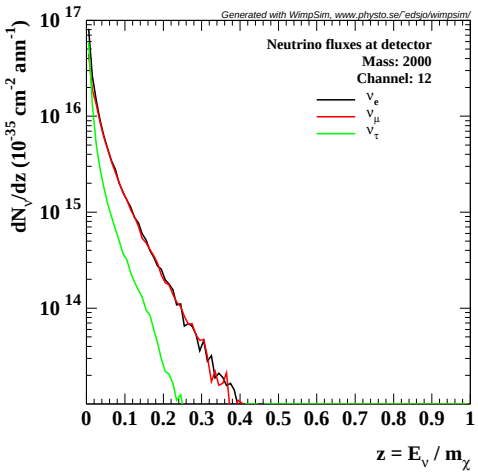
16.7.2 Charged leptons at neutrino-nucleon vertex (Sun)

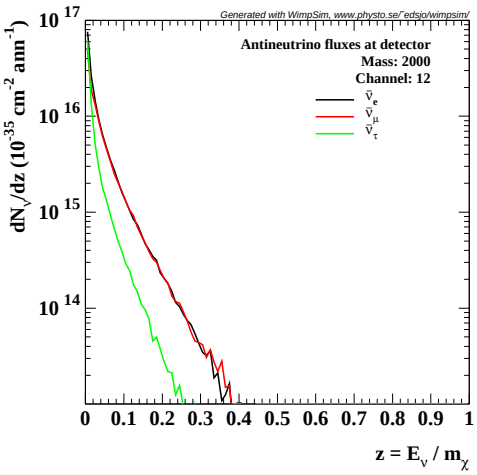


16.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)

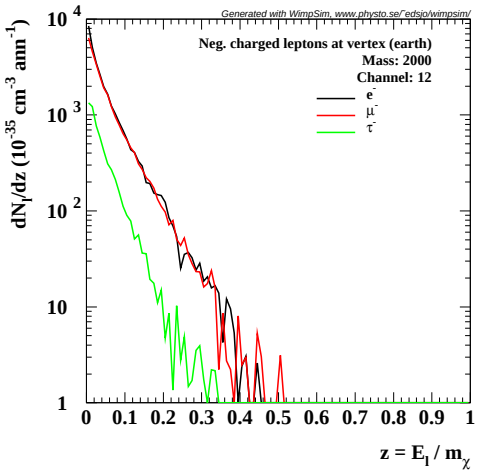


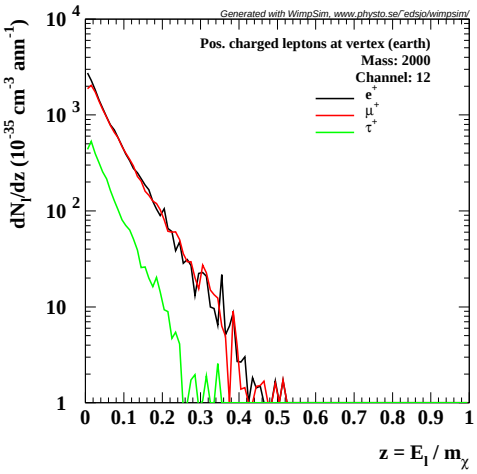
16.7.4 Neutrino fluxes at detector (Earth)



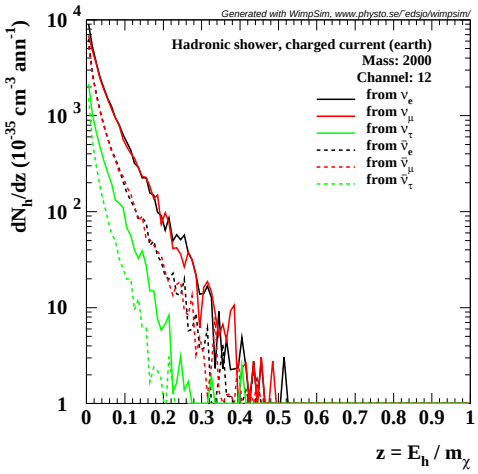


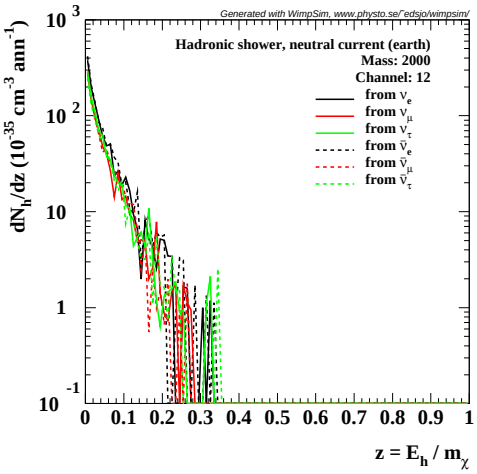
16.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



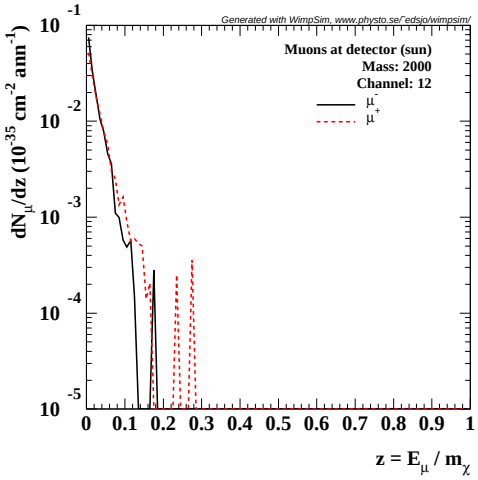


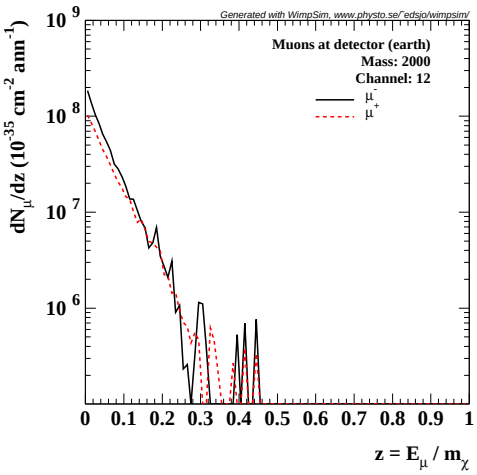
16.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





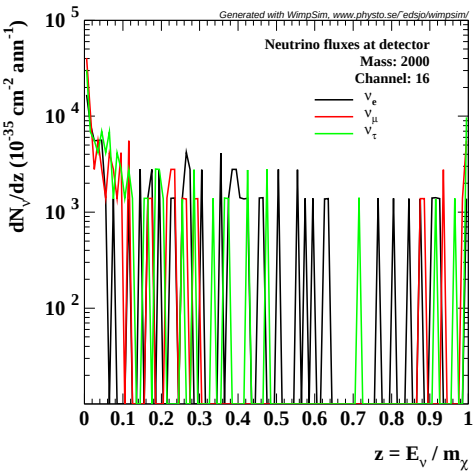
16.7.7 Muons at detector (Sun/Earth)

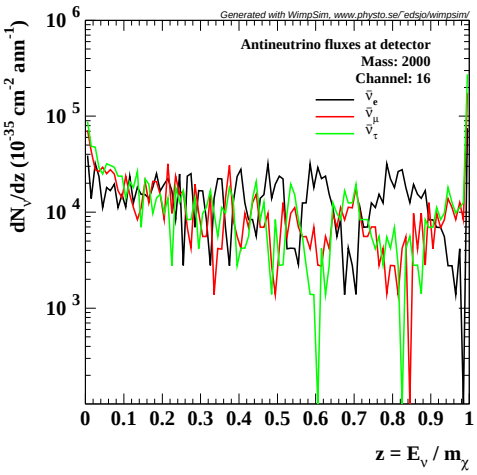




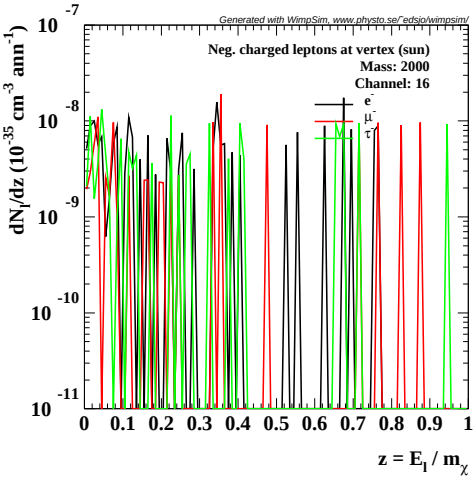
16.8 Channel 16 – $\nu_e\bar{\nu}_e$

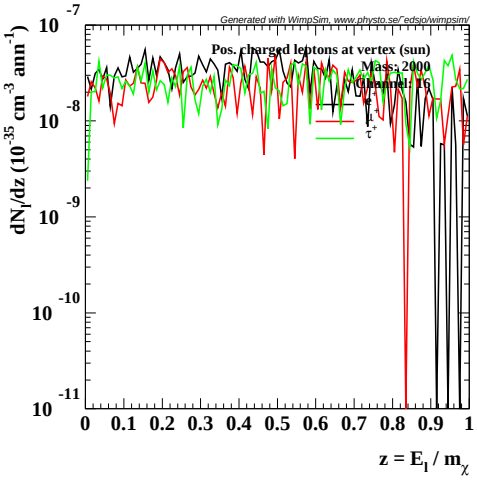
16.8.1 Neutrino fluxes at detector (Sun)



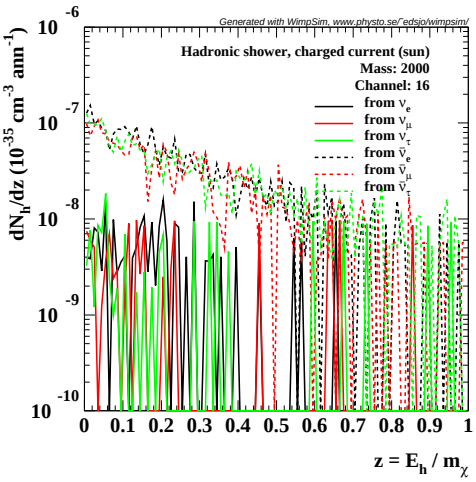


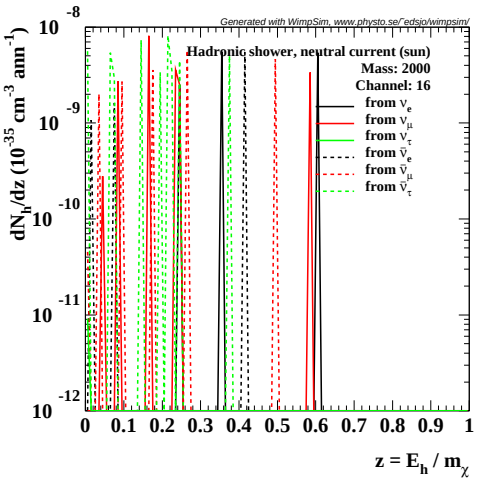
16.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



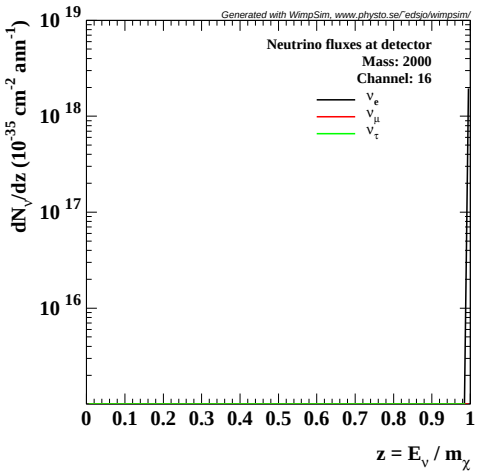


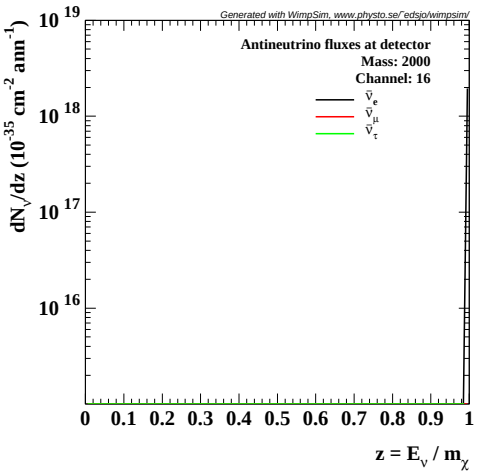
16.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



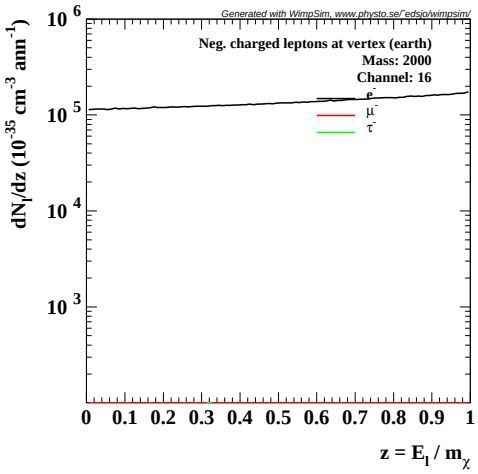


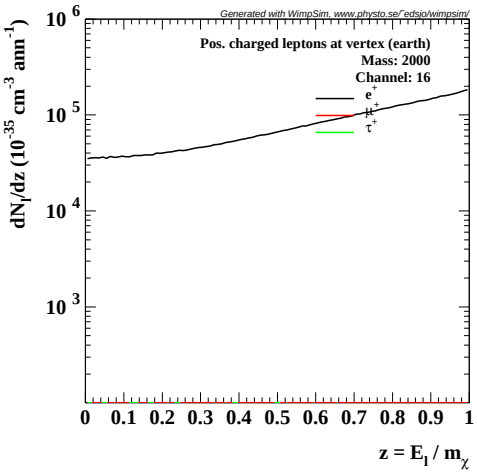
16.8.4 Neutrino fluxes at detector (Earth)



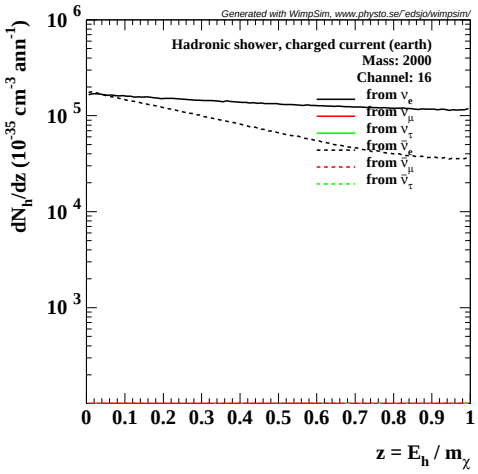


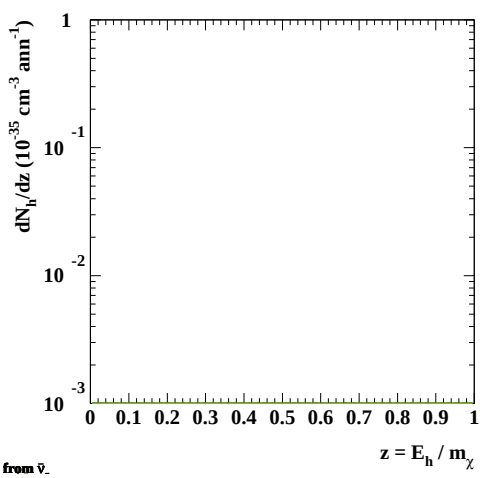
16.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





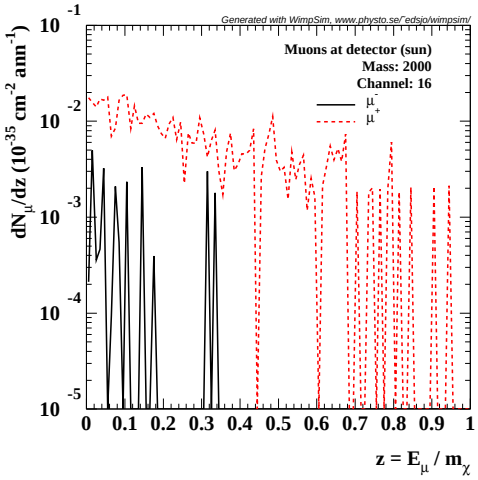
16.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

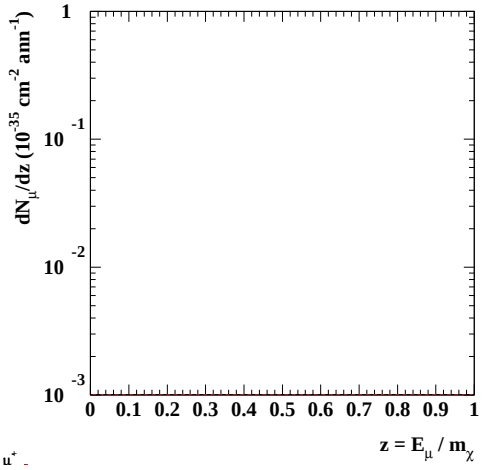




from $\bar{\nu}_\tau$

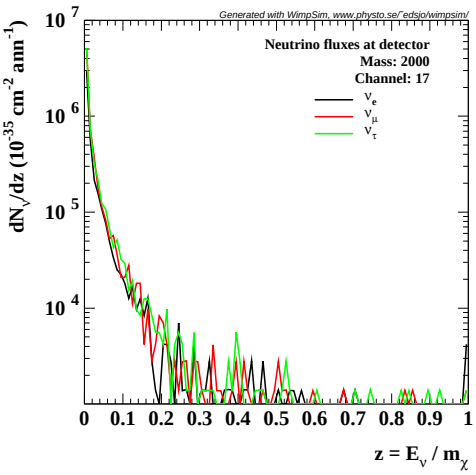
16.8.7 Muons at detector (Sun/Earth)

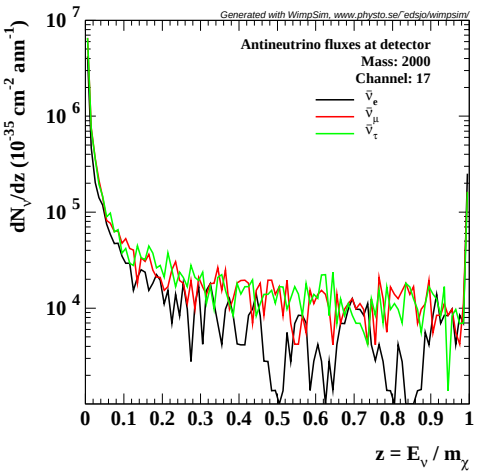




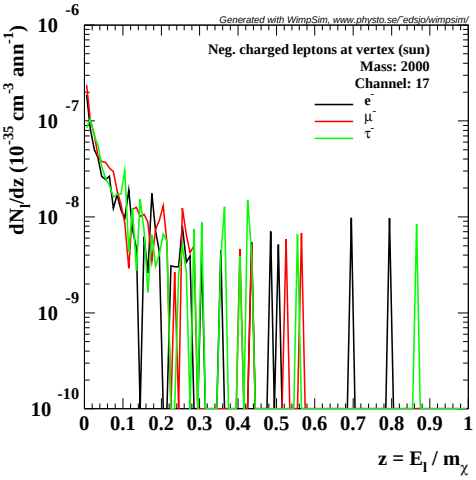
16.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

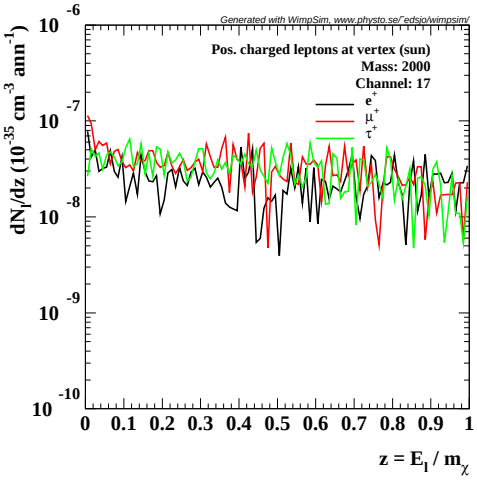
16.9.1 Neutrino fluxes at detector (Sun)



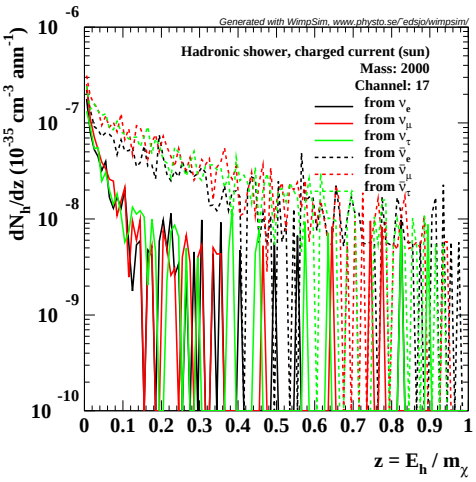


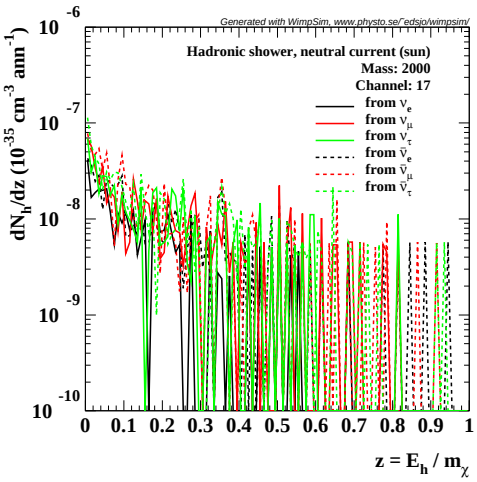
16.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



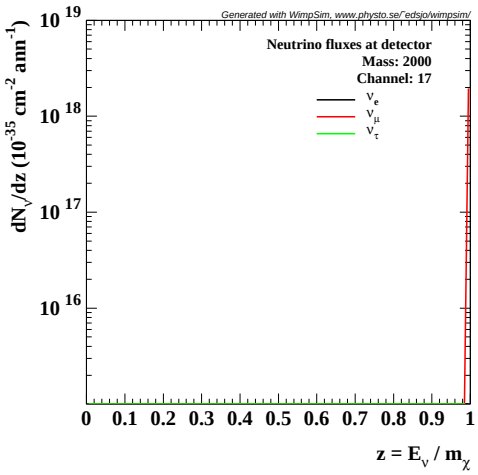


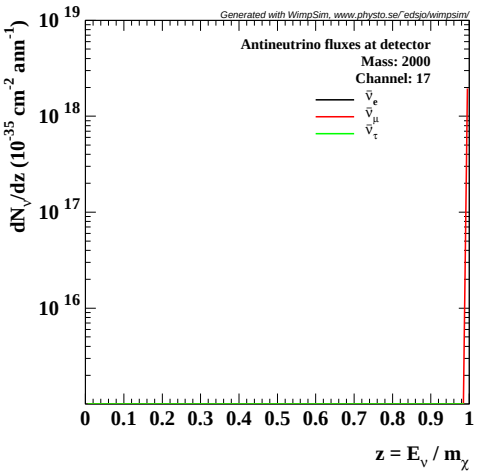
16.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



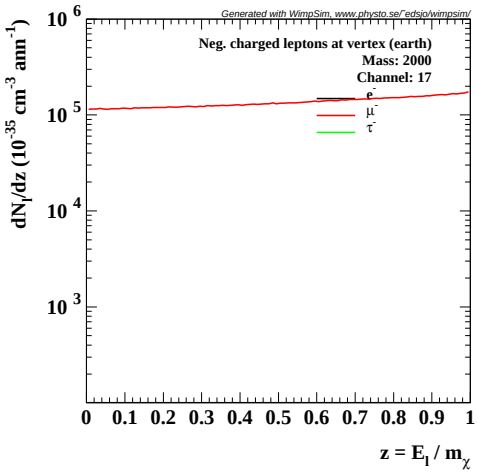


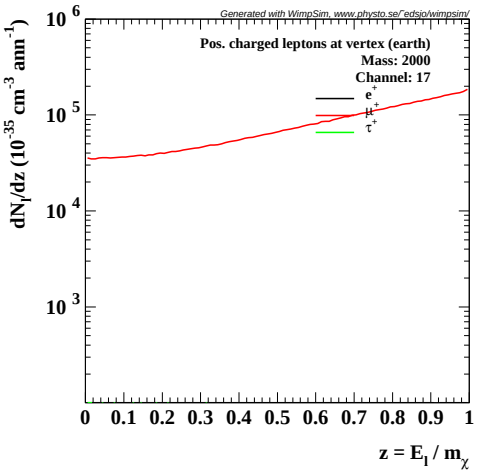
16.9.4 Neutrino fluxes at detector (Earth)



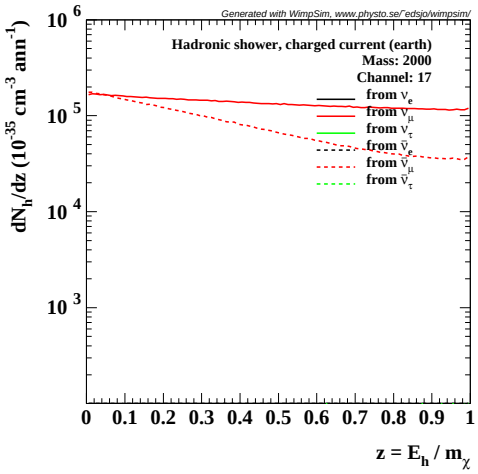


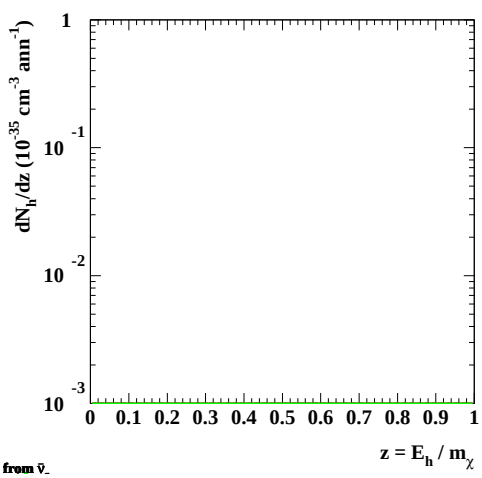
16.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



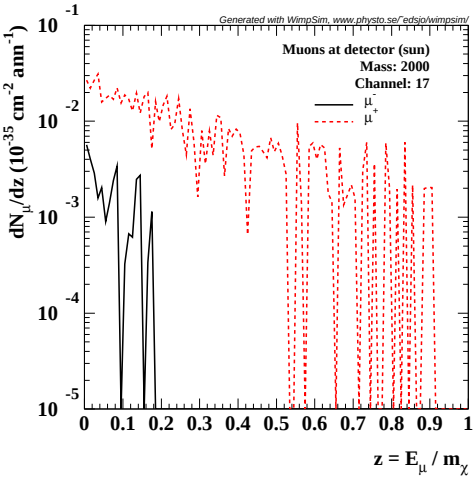


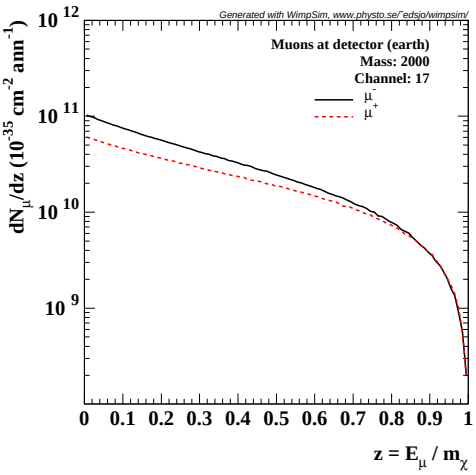
16.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





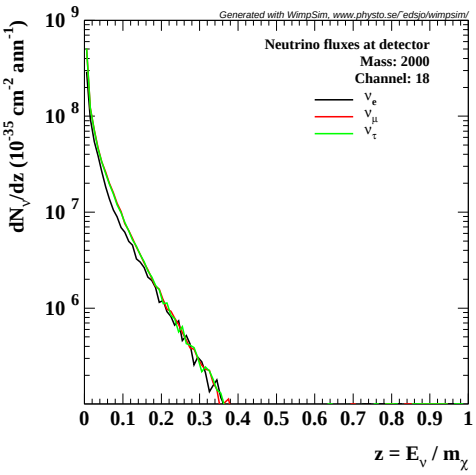
16.9.7 Muons at detector (Sun/Earth)

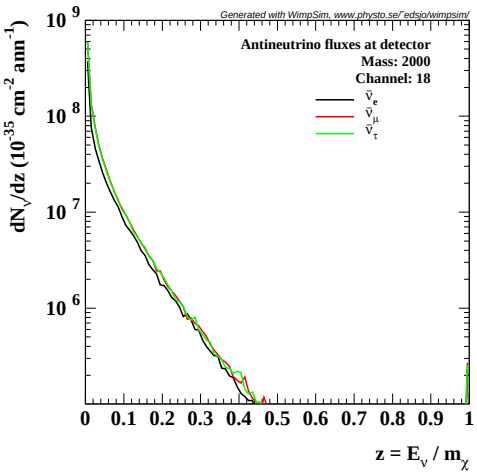




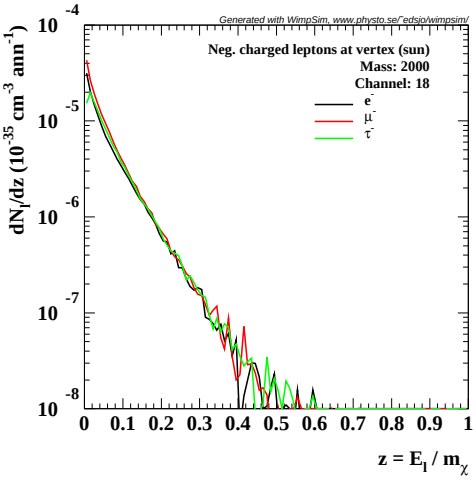
16.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

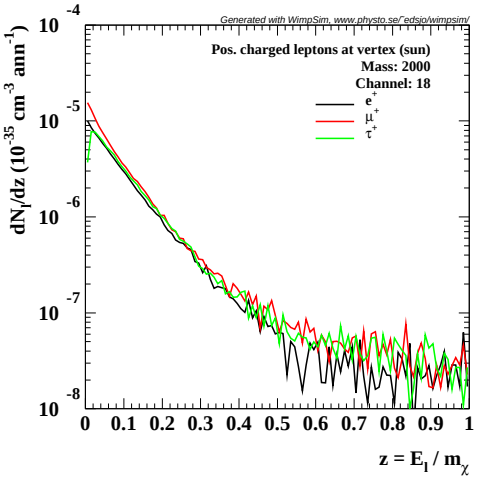
16.10.1 Neutrino fluxes at detector (Sun)



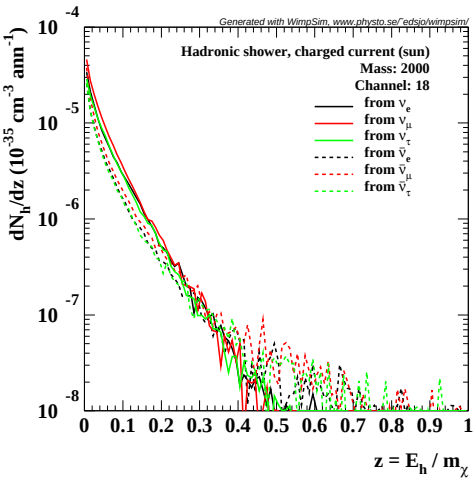


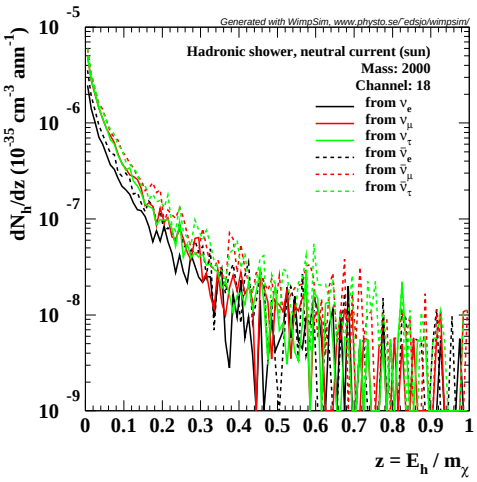
16.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



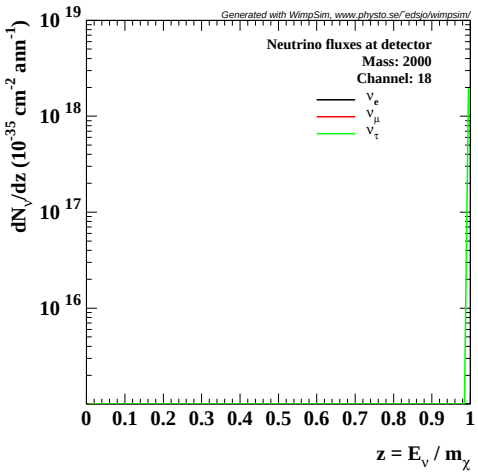


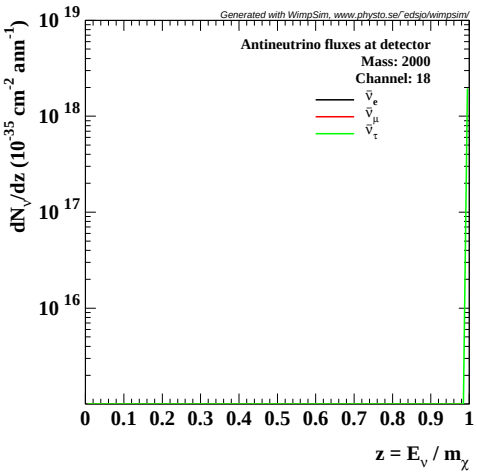
16.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



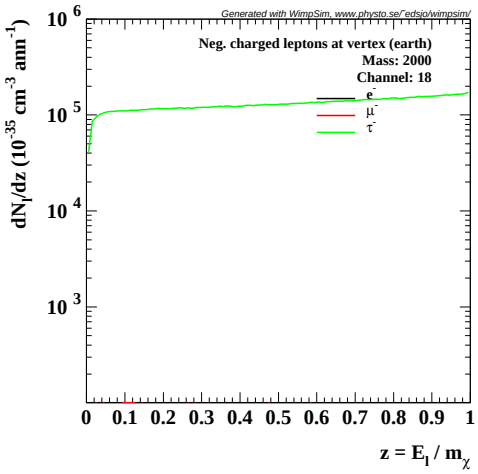


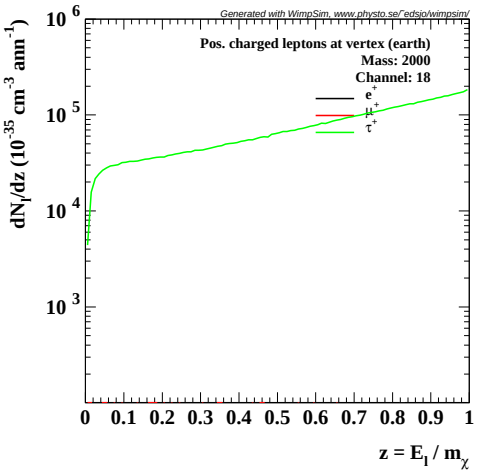
16.10.4 Neutrino fluxes at detector (Earth)



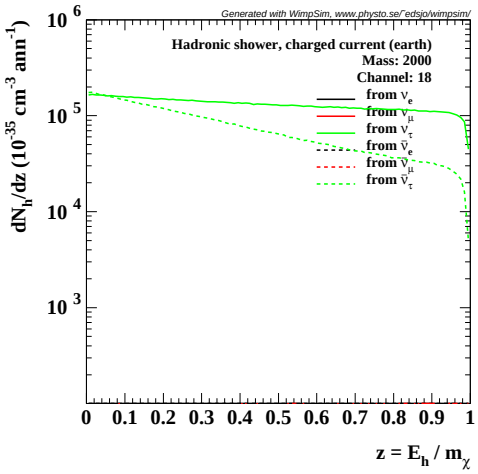


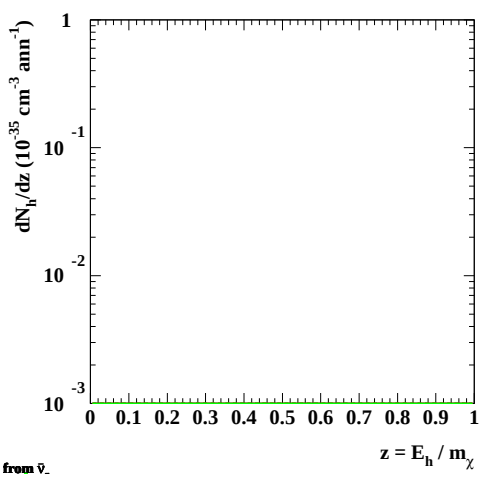
16.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





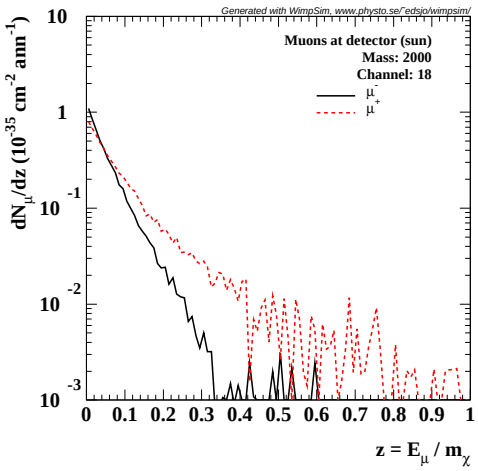
16.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

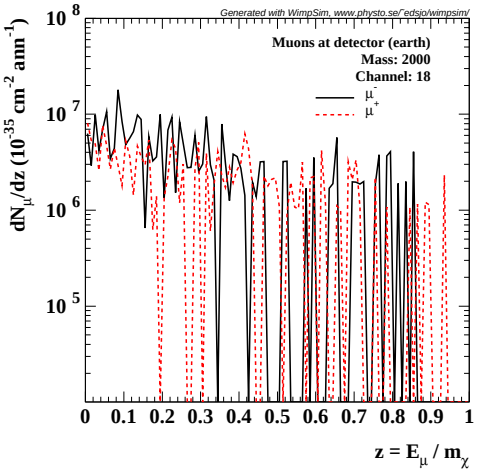




from $\bar{\nu}_\tau$

16.10.7 Muons at detector (Sun/Earth)

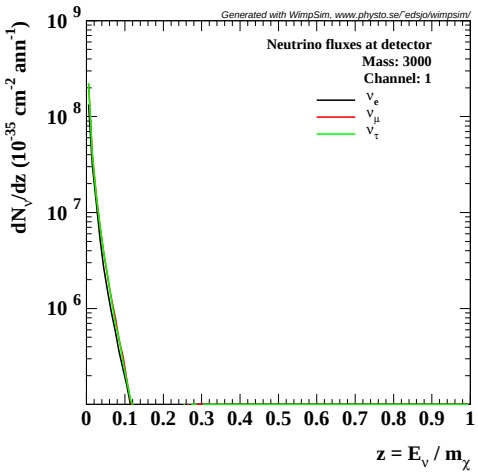


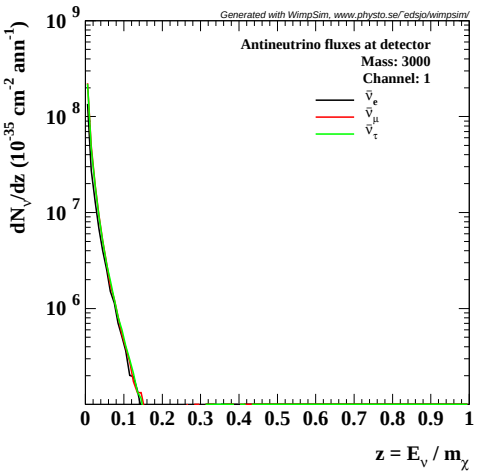


17 Mass 3000

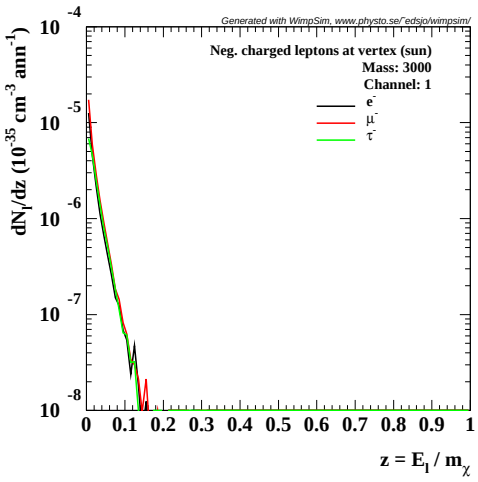
17.1 Channel 1 – $c\bar{c}$

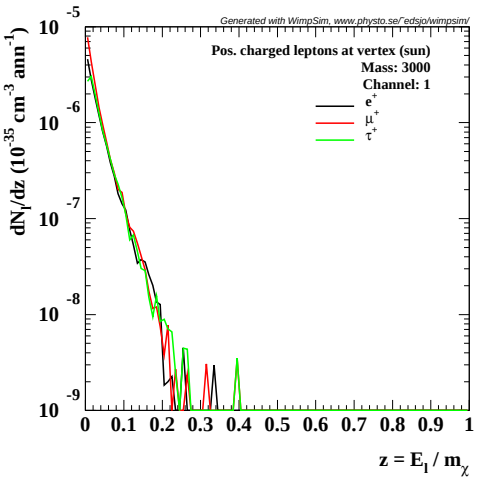
17.1.1 Neutrino fluxes at detector (Sun)



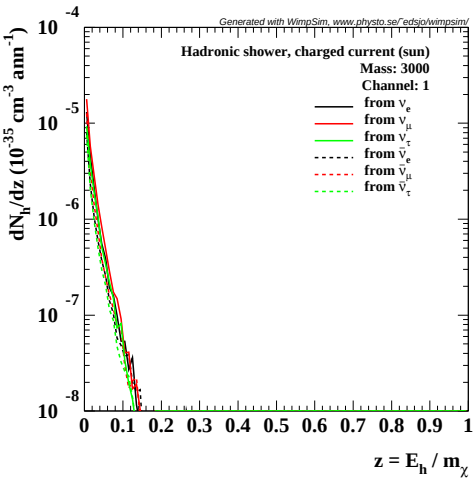


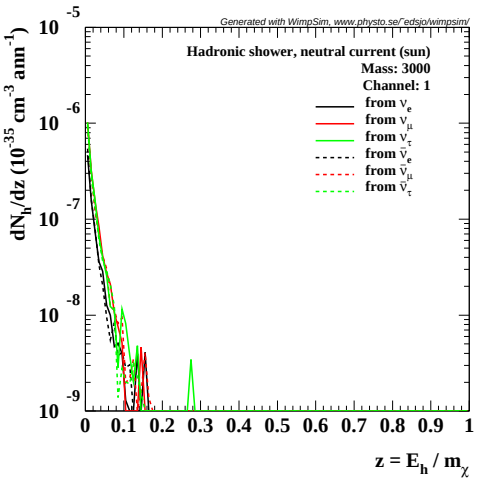
17.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



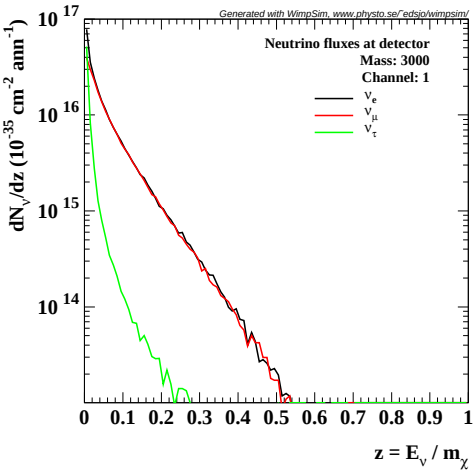


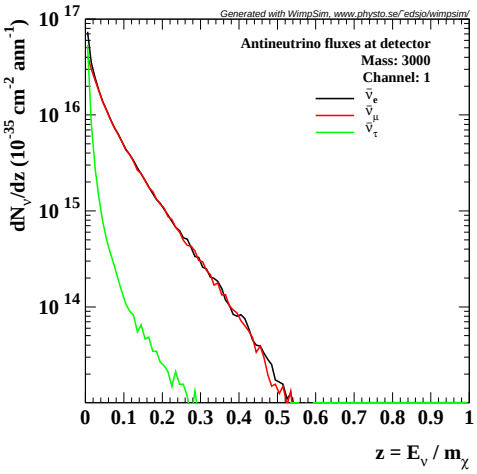
17.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



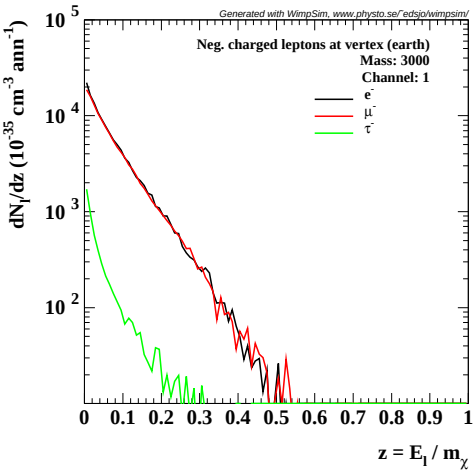


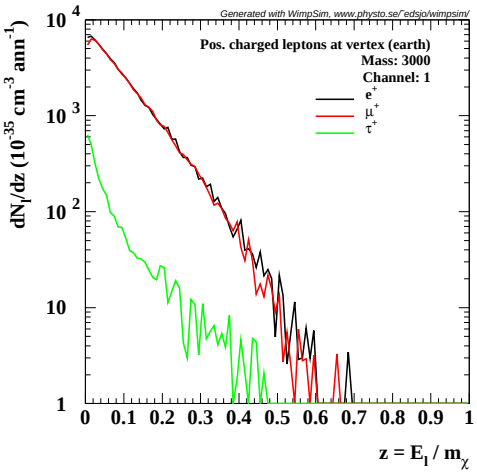
17.1.4 Neutrino fluxes at detector (Earth)



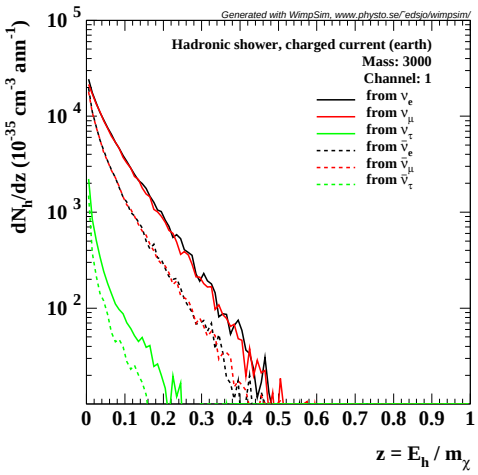


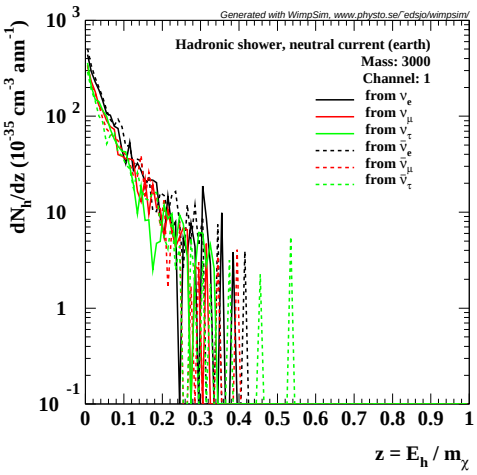
17.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



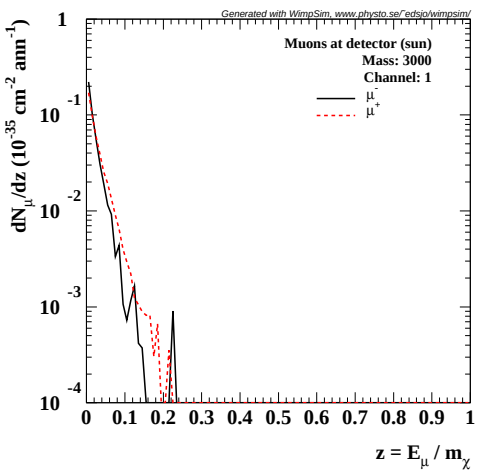


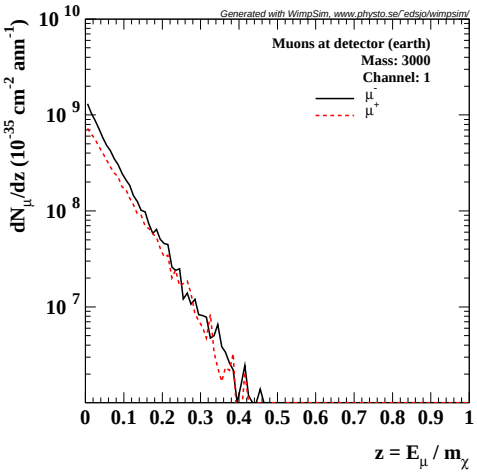
17.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





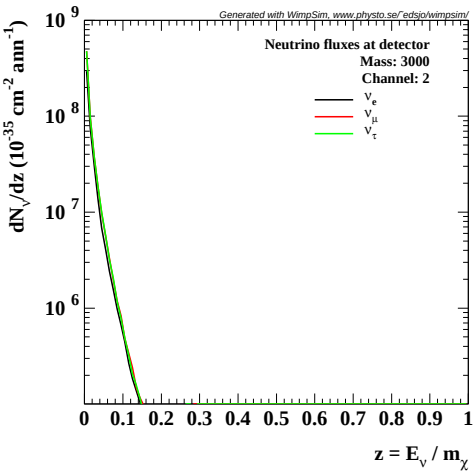
17.1.7 Muons at detector (Sun/Earth)

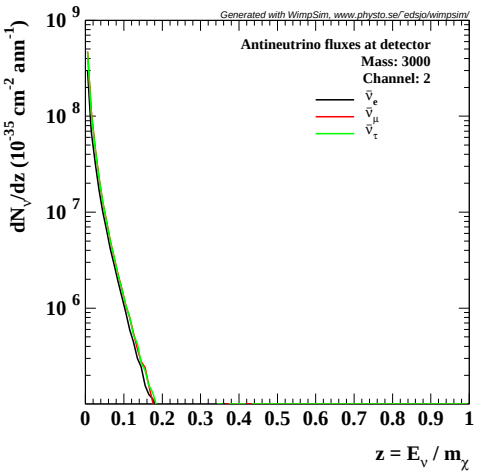




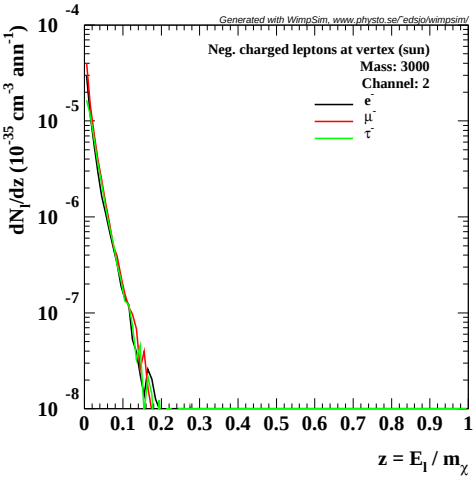
17.2 Channel 2 – $b\bar{b}$

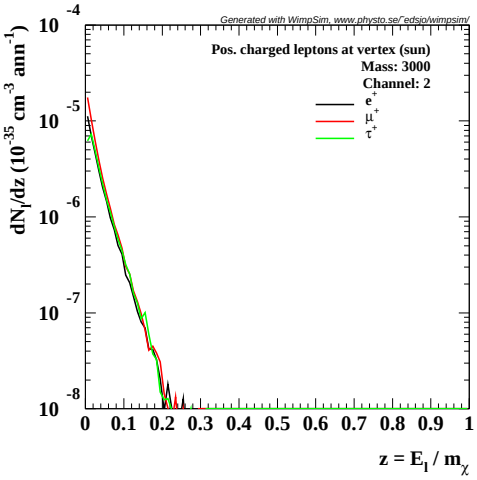
17.2.1 Neutrino fluxes at detector (Sun)



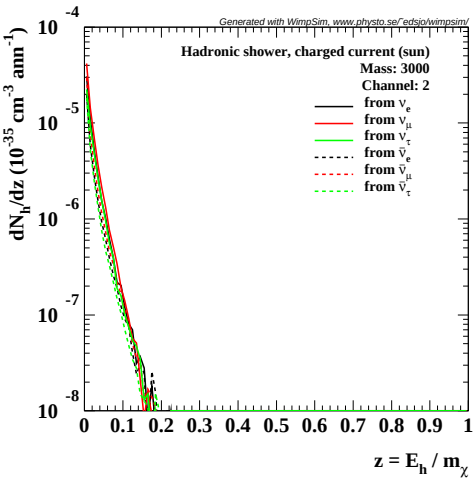


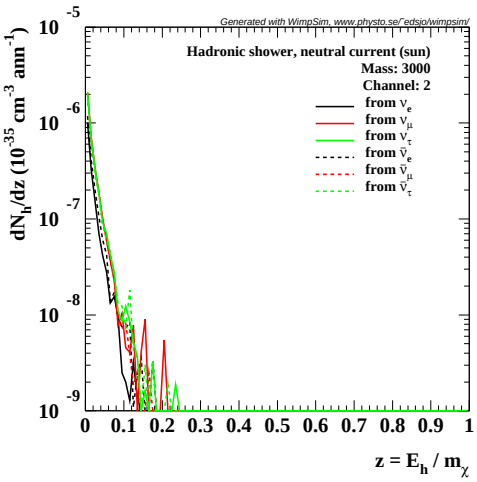
17.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



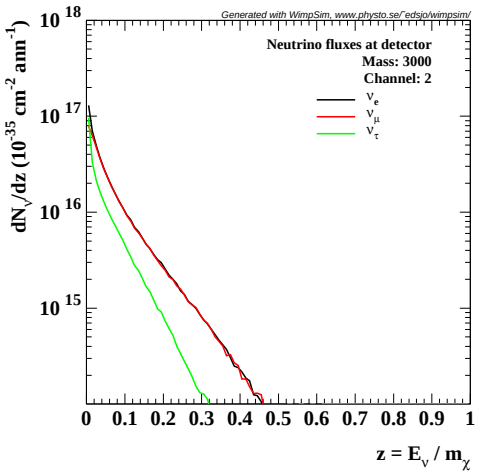


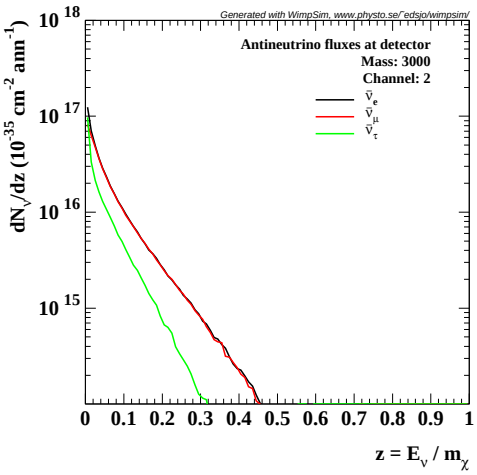
17.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



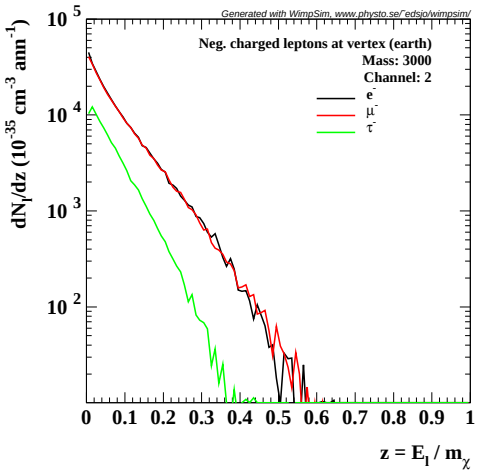


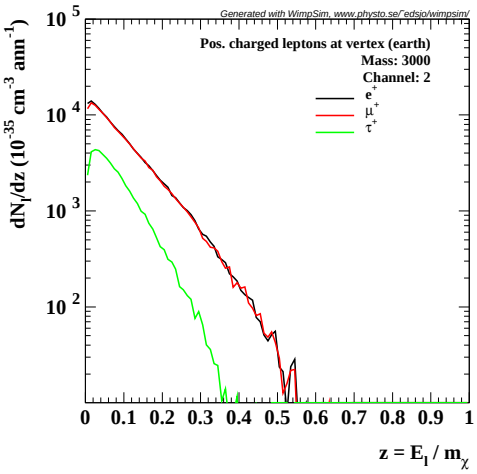
17.2.4 Neutrino fluxes at detector (Earth)



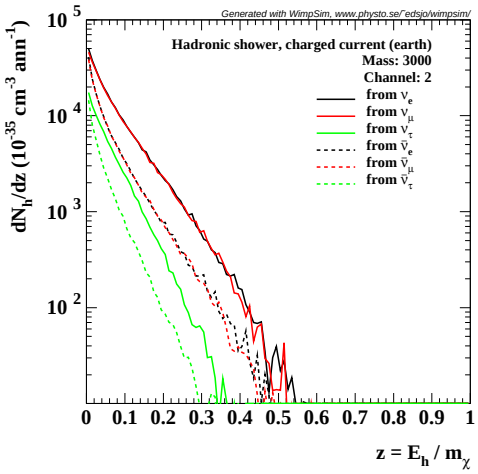


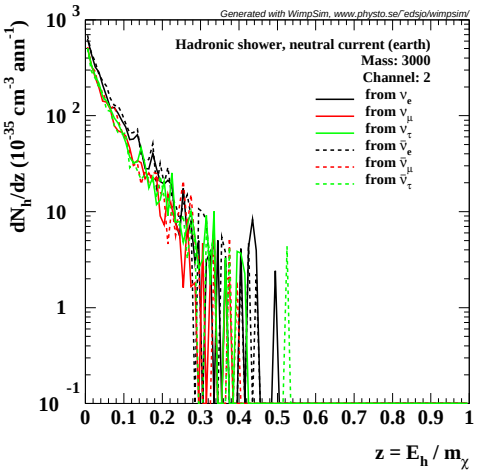
17.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



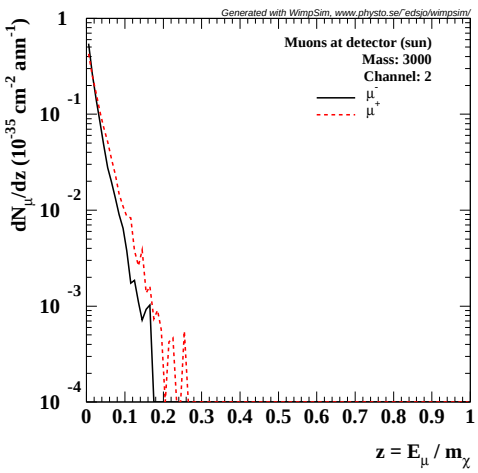


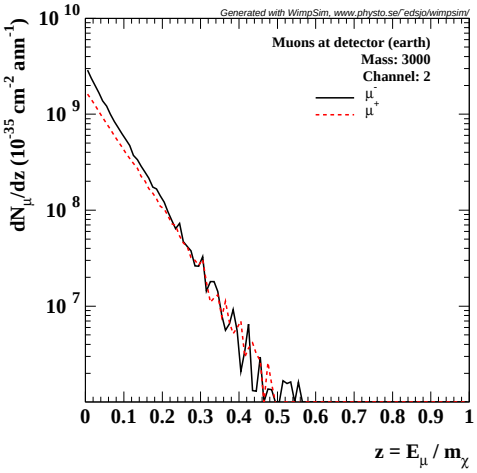
17.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





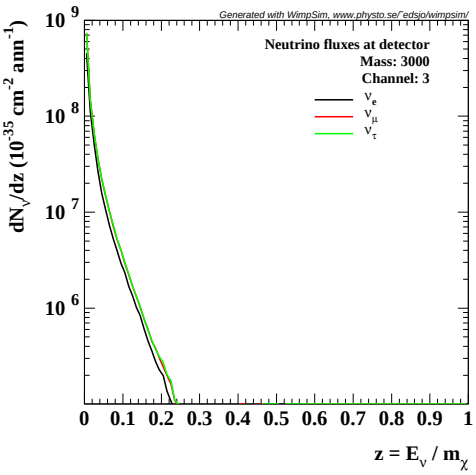
17.2.7 Muons at detector (Sun/Earth)

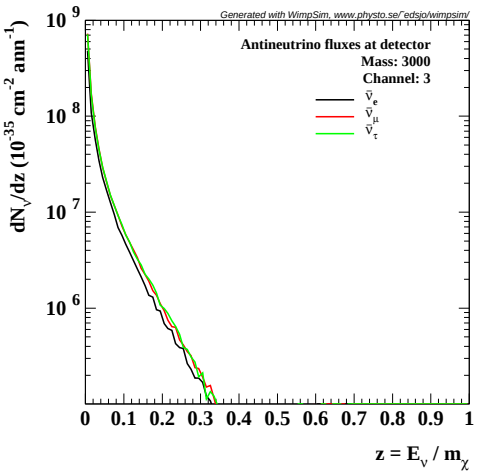




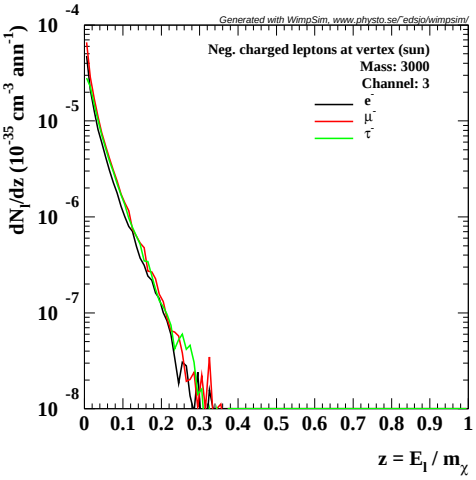
17.3 Channel 3 – $t\bar{t}$

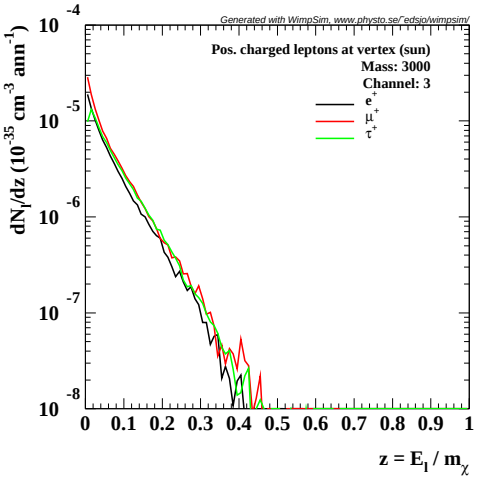
17.3.1 Neutrino fluxes at detector (Sun)



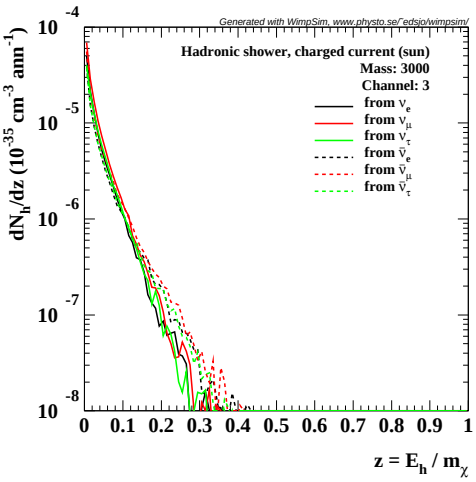


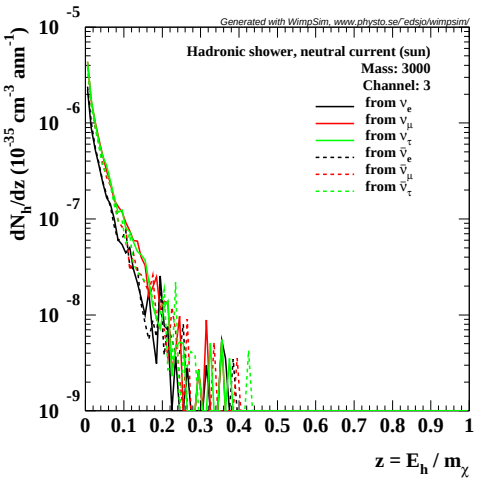
17.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



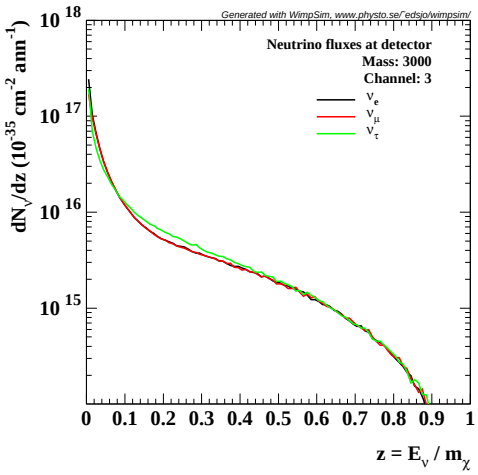


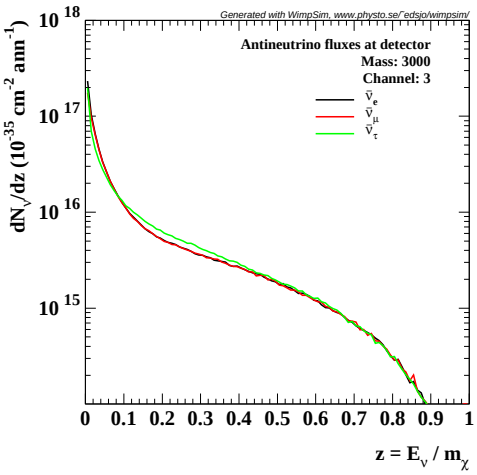
17.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



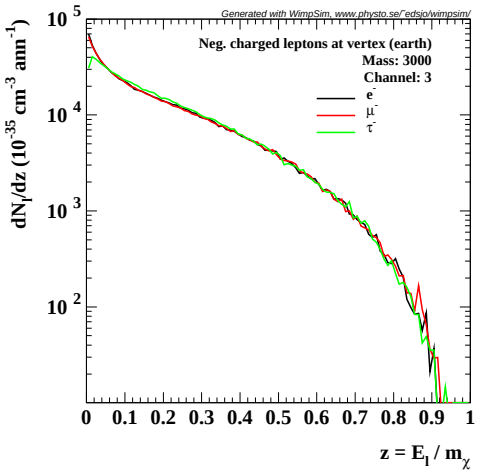


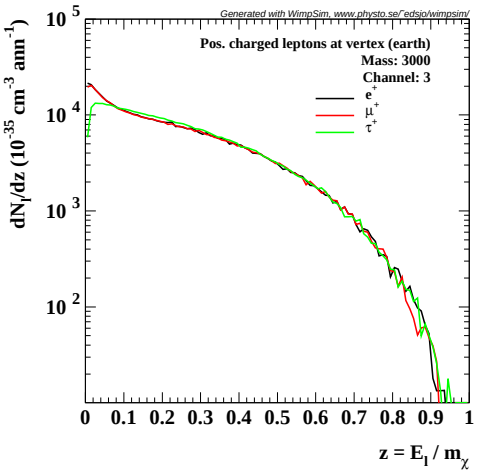
17.3.4 Neutrino fluxes at detector (Earth)



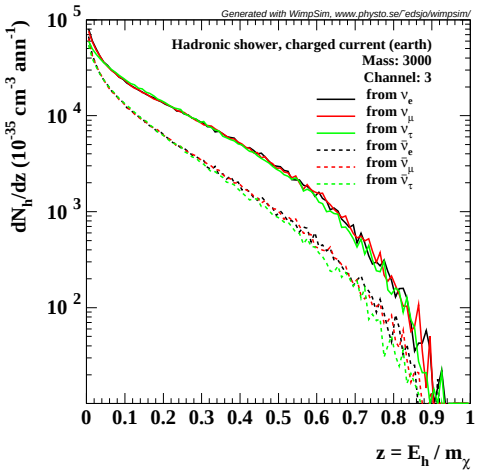


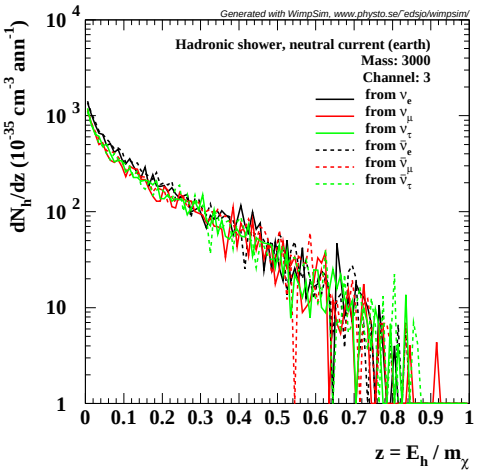
17.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



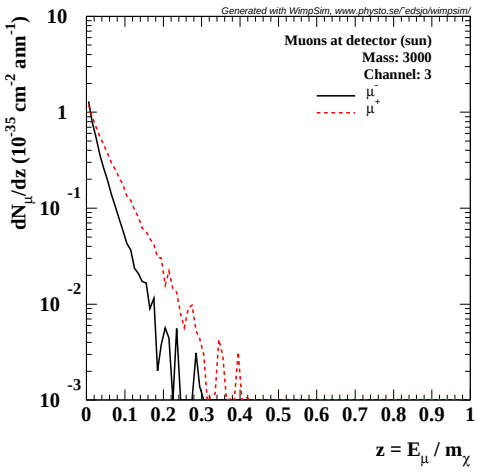


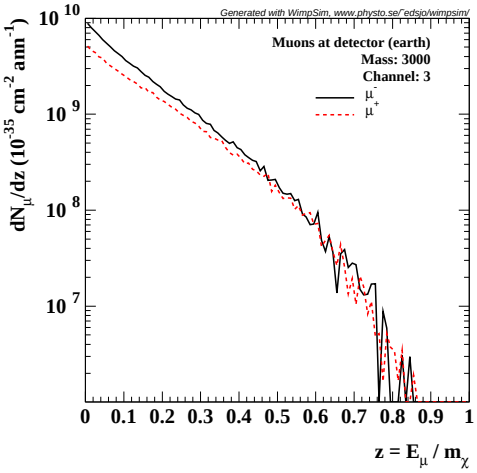
17.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





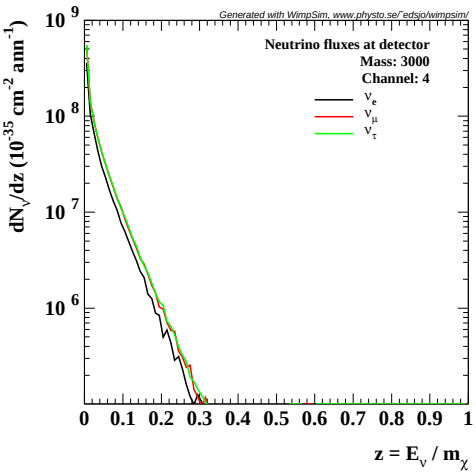
17.3.7 Muons at detector (Sun/Earth)

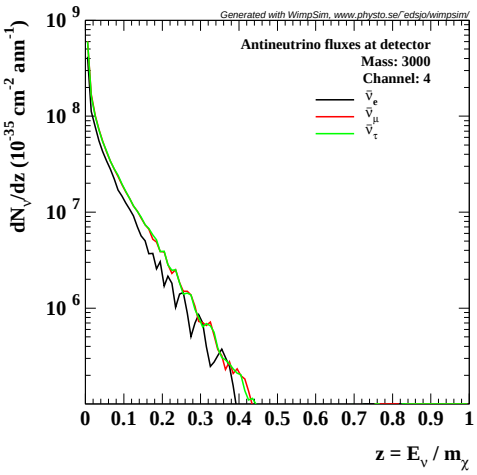




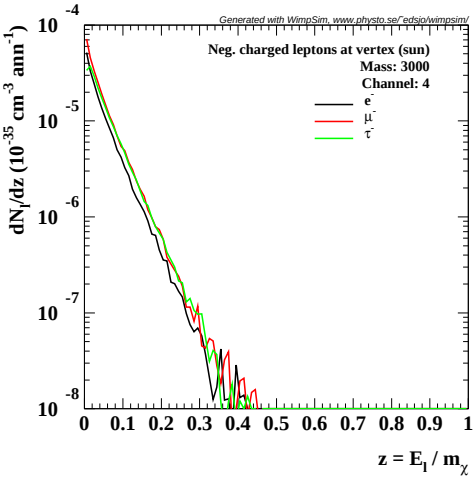
17.4 Channel 4 – $\tau^-\tau^+$

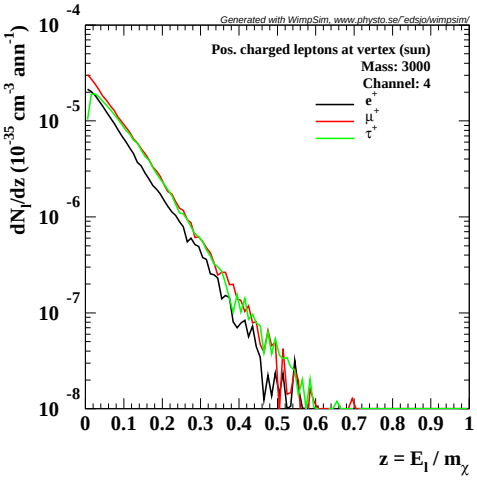
17.4.1 Neutrino fluxes at detector (Sun)



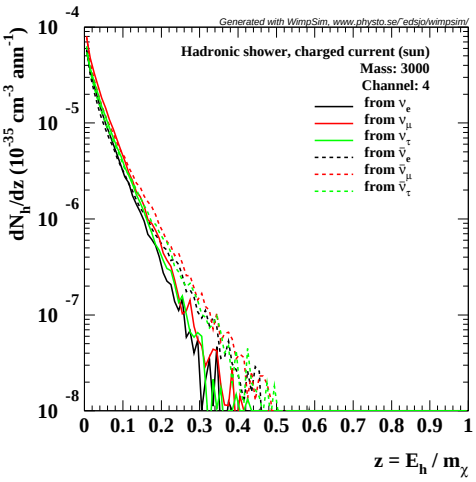


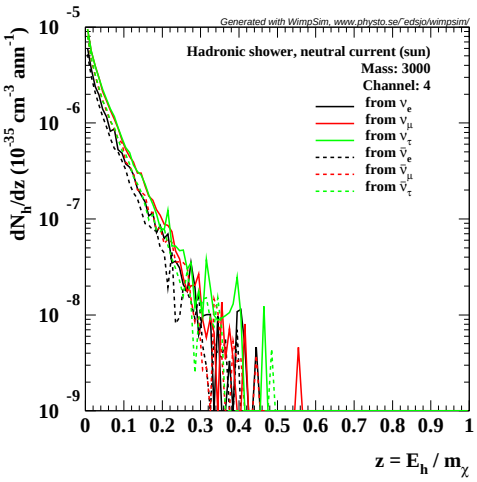
17.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



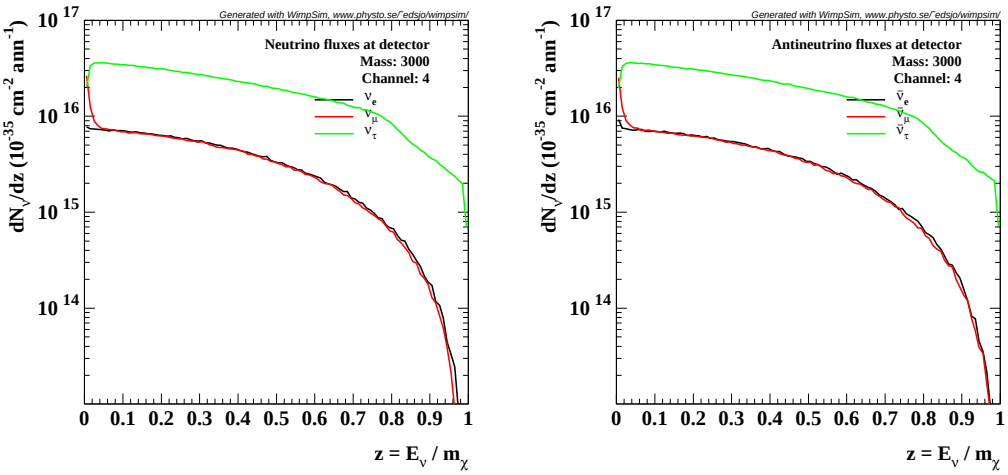


17.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)

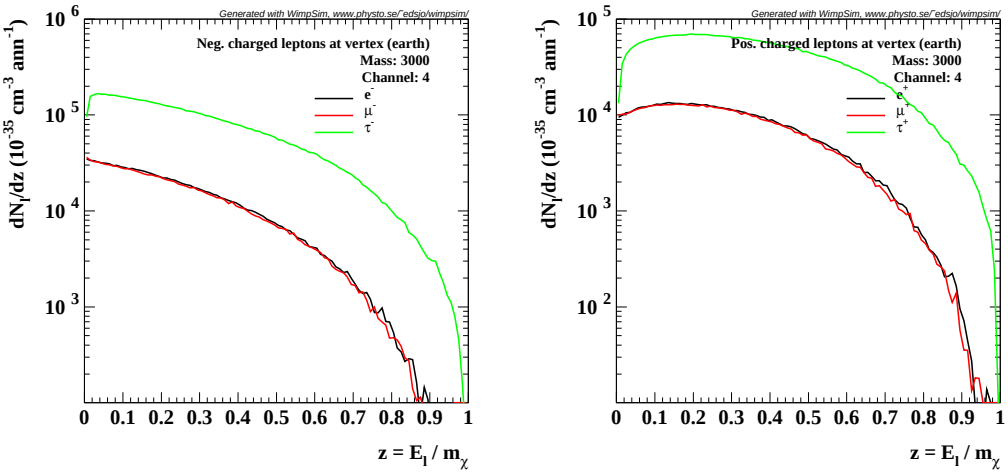




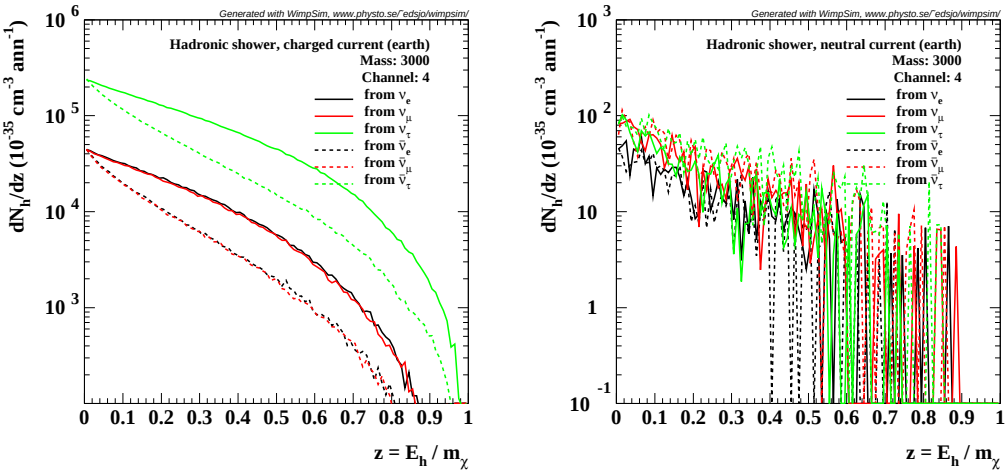
17.4.4 Neutrino fluxes at detector (Earth)



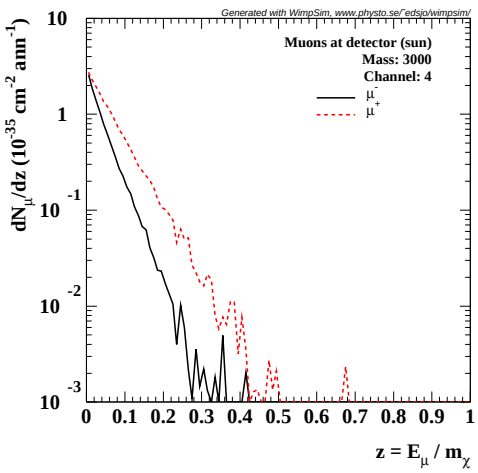
17.4.5 Charged leptons at neutrino-nucleon vertex (Earth)

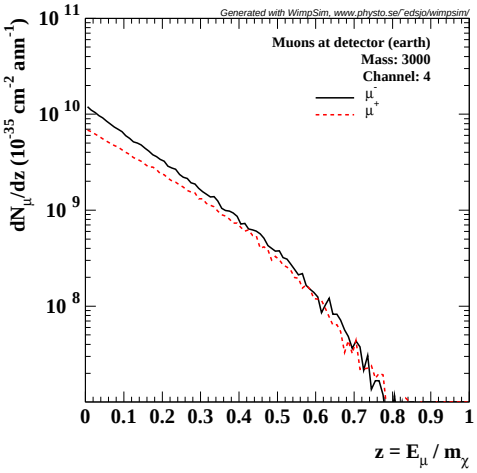


17.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)



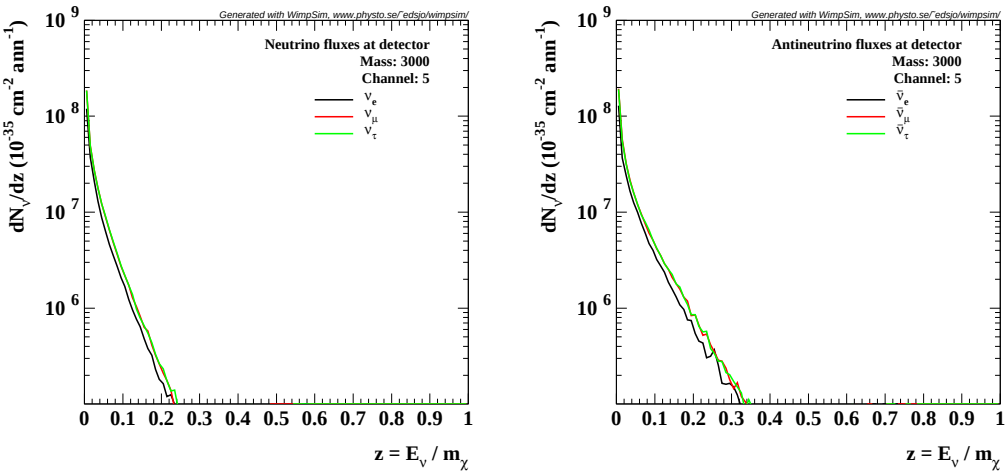
17.4.7 Muons at detector (Sun/Earth)



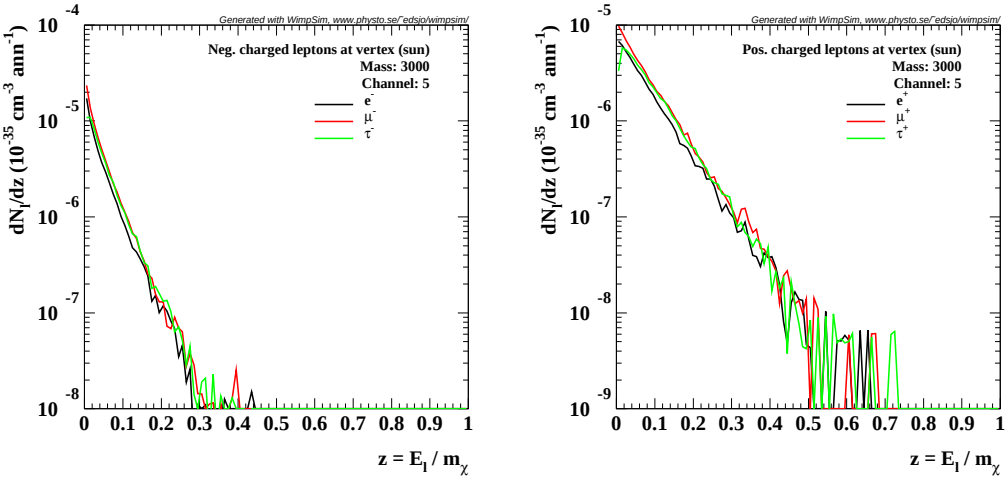


17.5 Channel 5 – W^-W^+

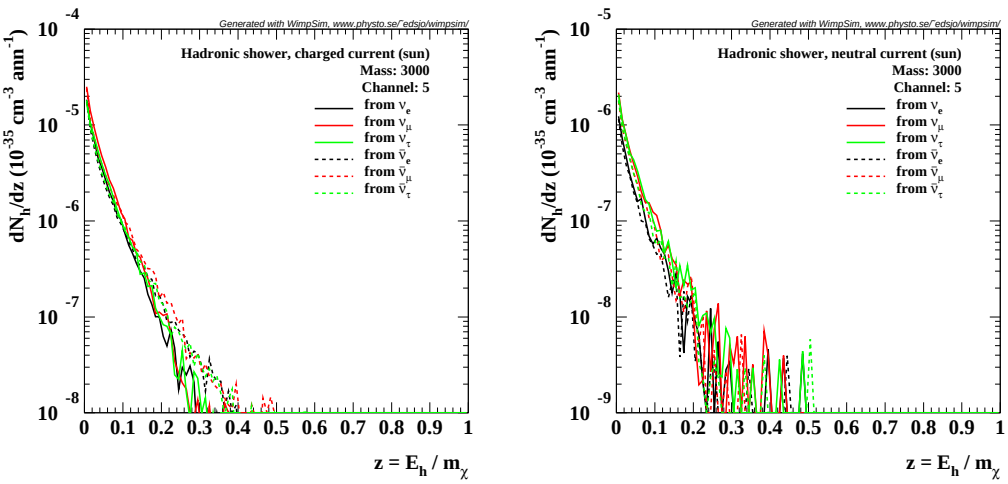
17.5.1 Neutrino fluxes at detector (Sun)



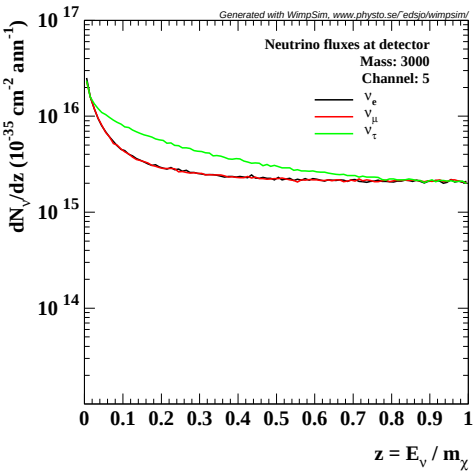
17.5.2 Charged leptons at neutrino-nucleon vertex (Sun)

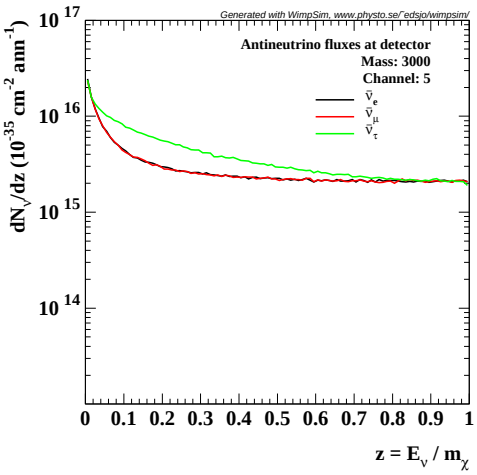


17.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)

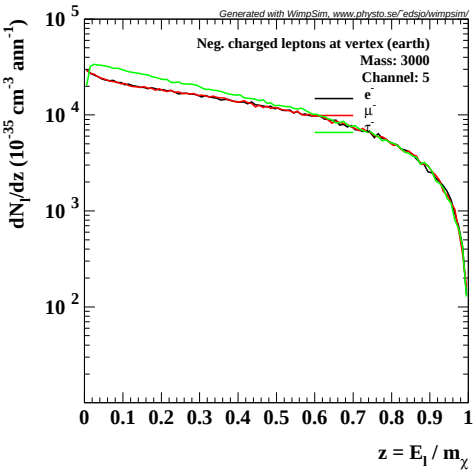


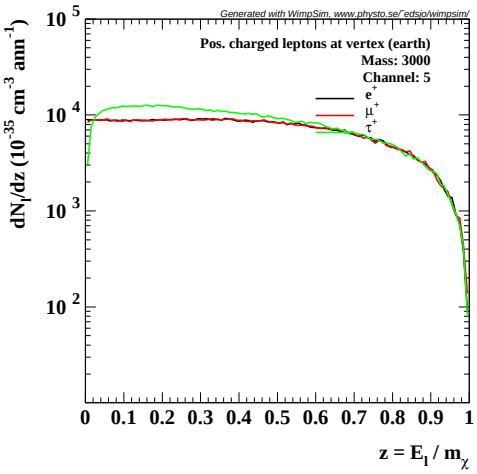
17.5.4 Neutrino fluxes at detector (Earth)



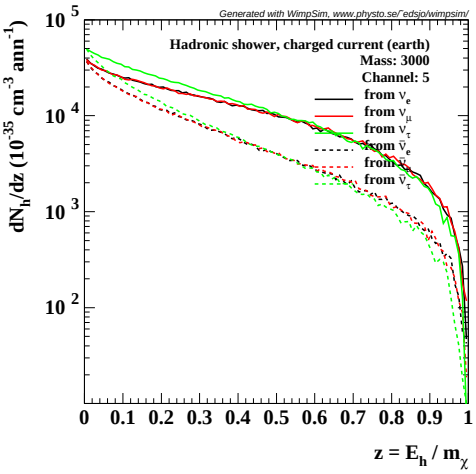


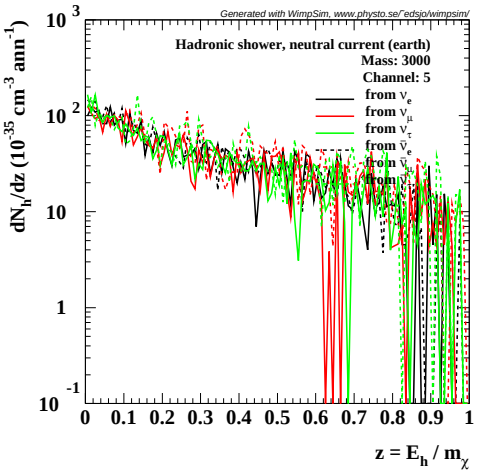
17.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



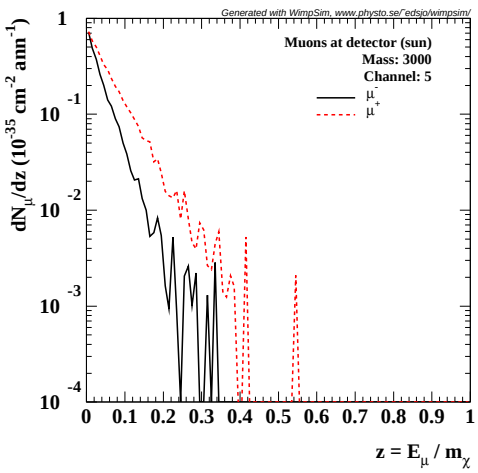


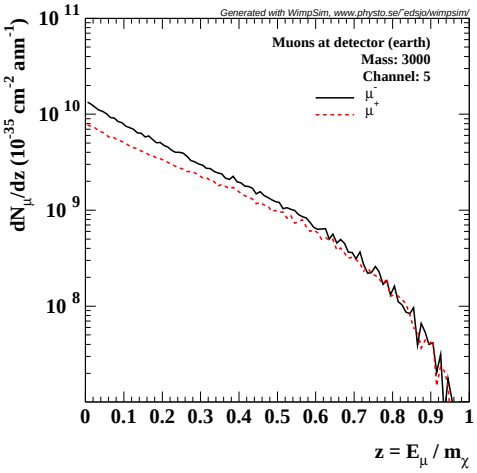
17.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





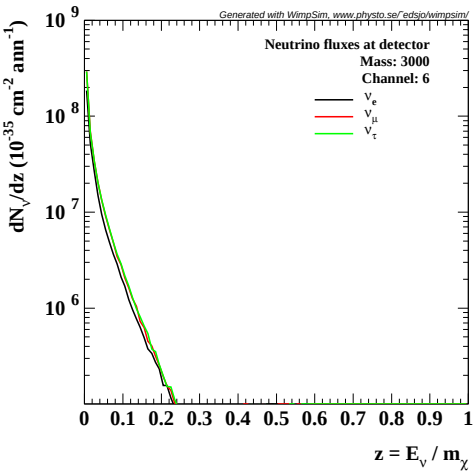
17.5.7 Muons at detector (Sun/Earth)

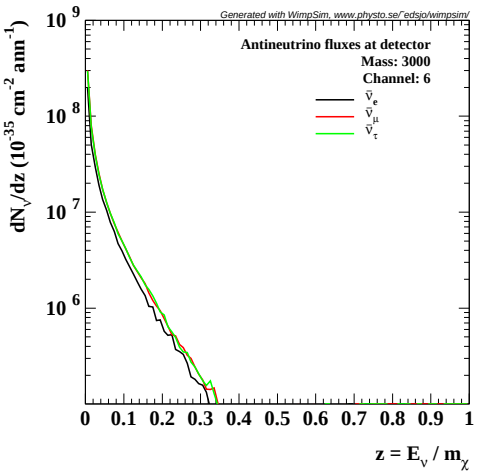




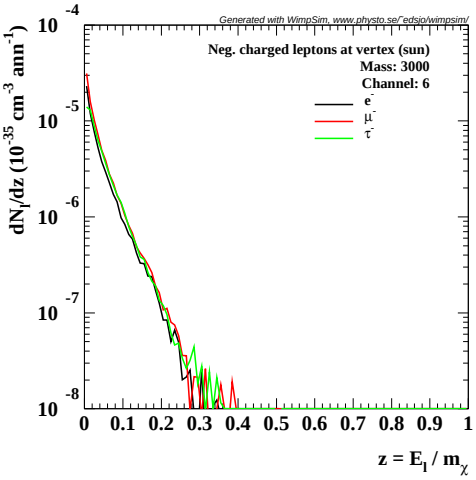
17.6 Channel 6 – $Z^0 Z^0$

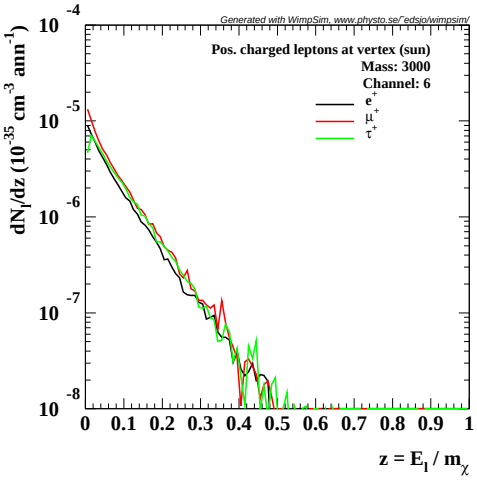
17.6.1 Neutrino fluxes at detector (Sun)



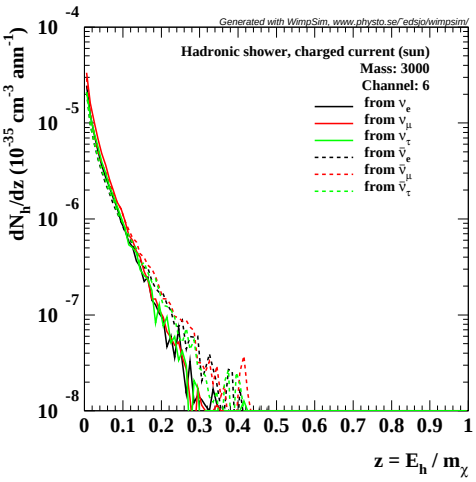


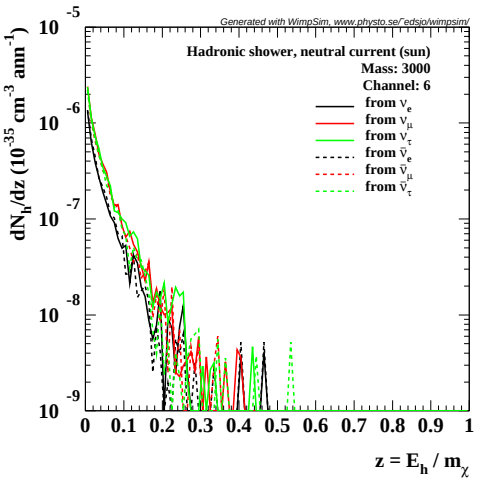
17.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



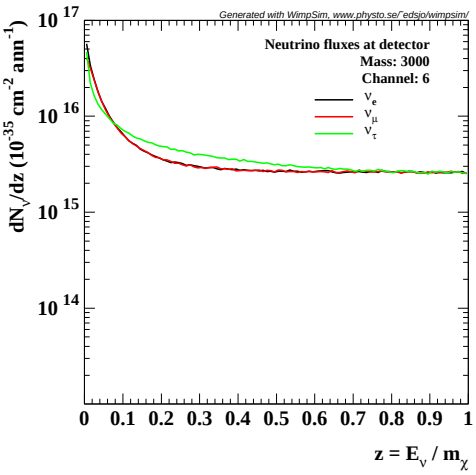


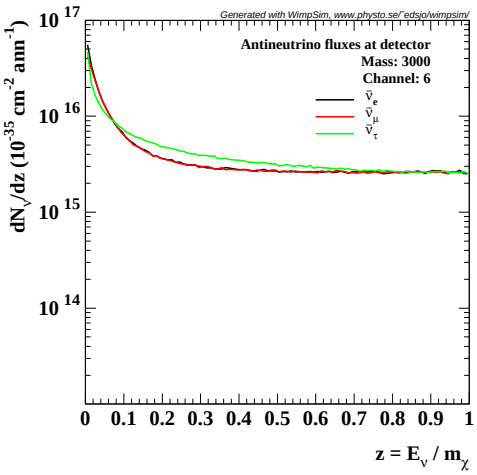
17.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



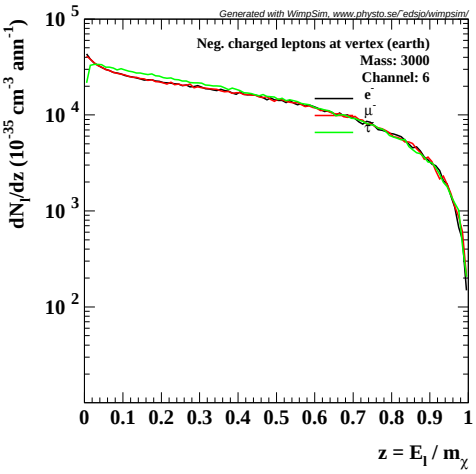


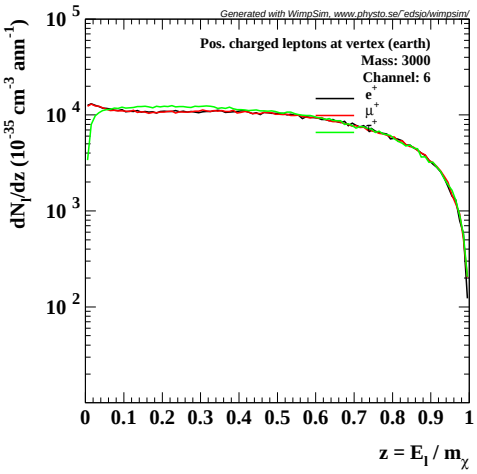
17.6.4 Neutrino fluxes at detector (Earth)



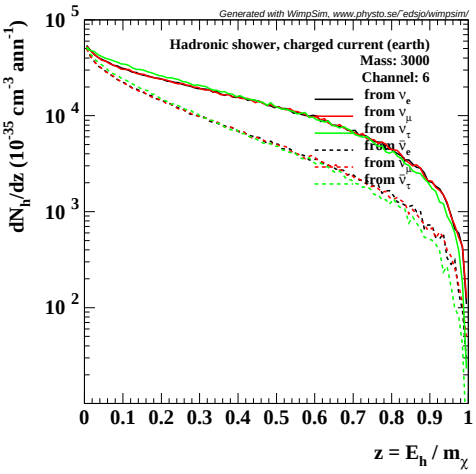


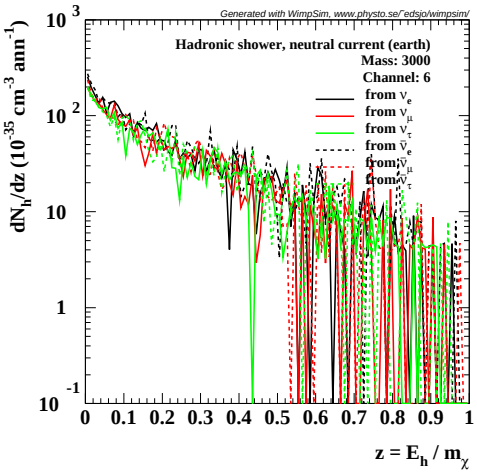
17.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



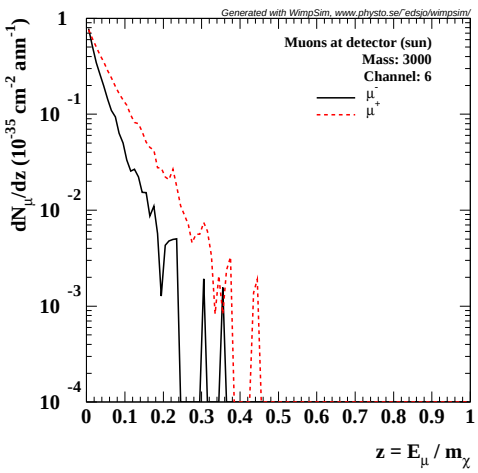


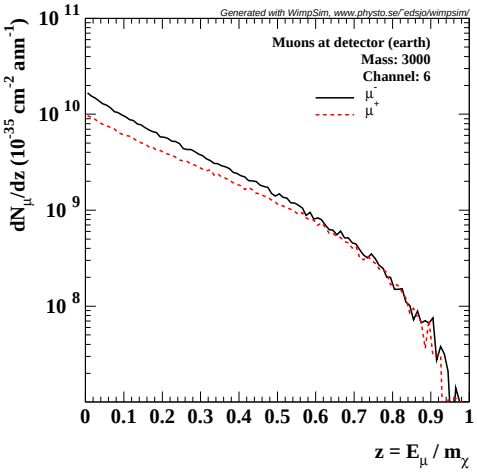
17.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





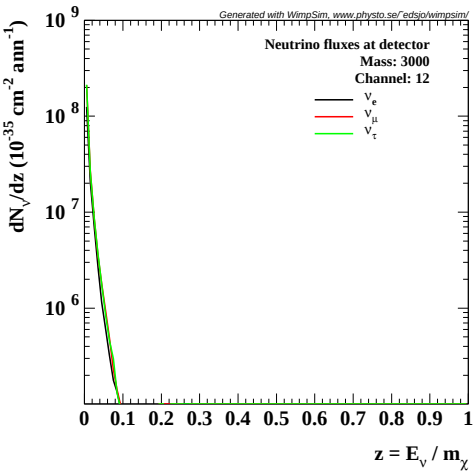
17.6.7 Muons at detector (Sun/Earth)

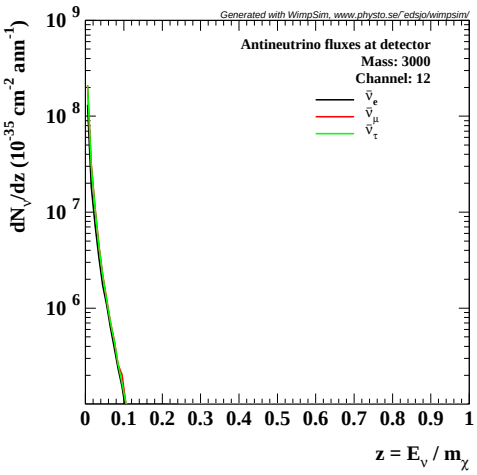




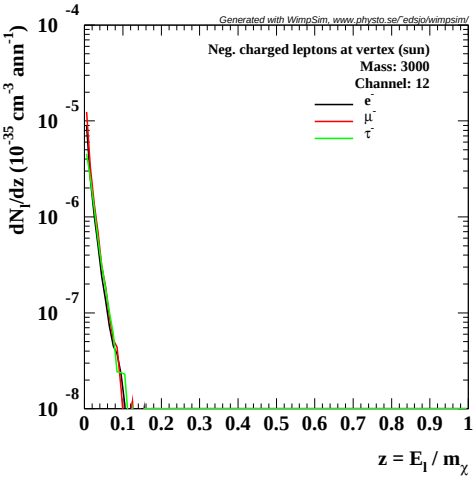
17.7 Channel 12 – gg

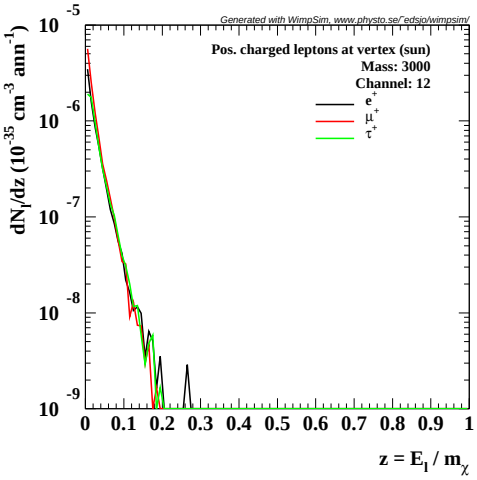
17.7.1 Neutrino fluxes at detector (Sun)



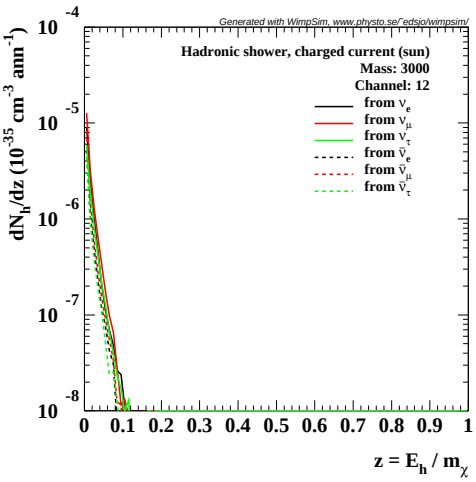


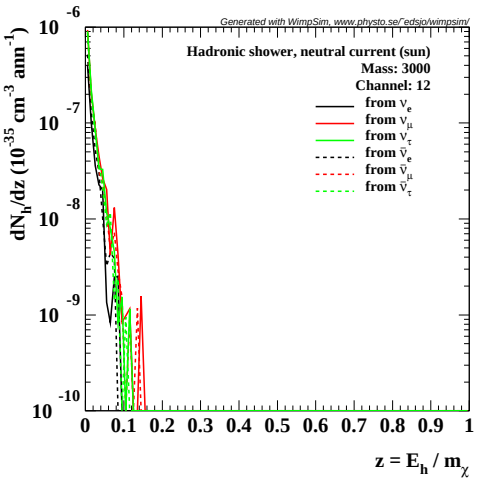
17.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



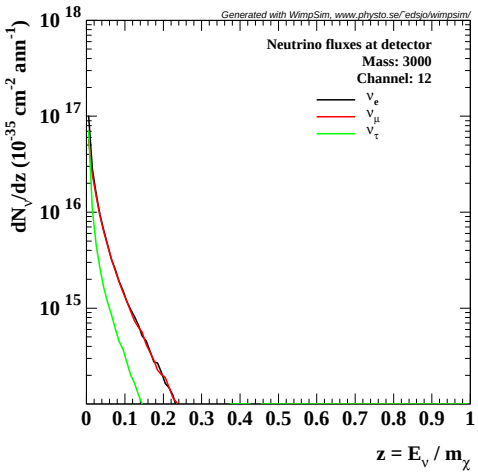


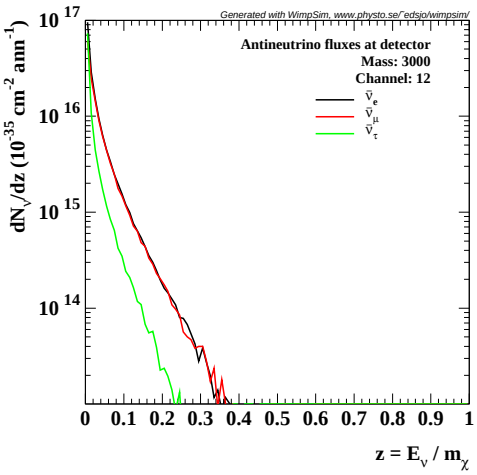
17.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



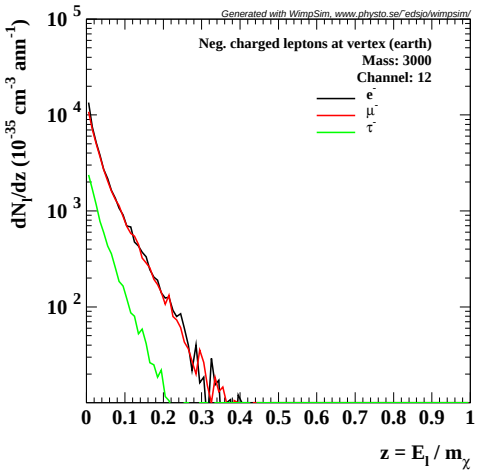


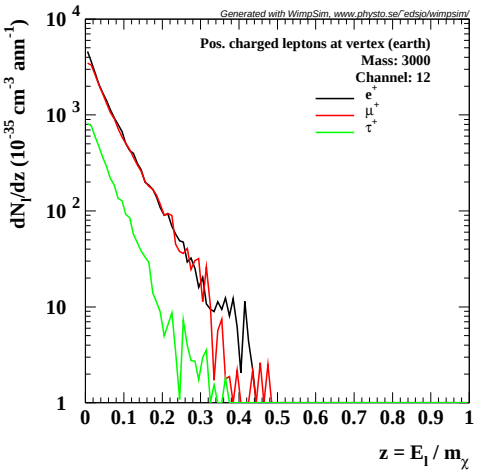
17.7.4 Neutrino fluxes at detector (Earth)



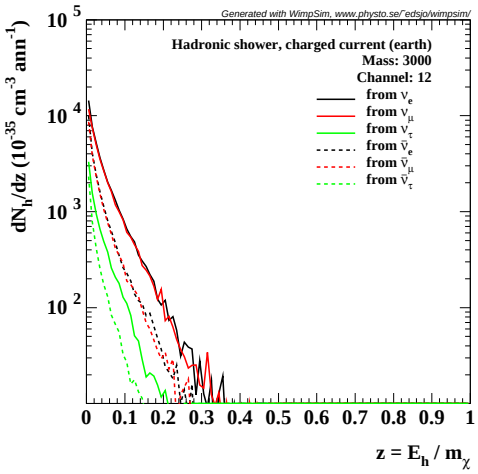


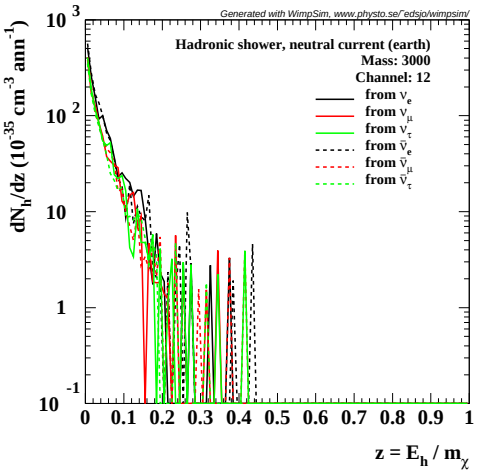
17.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



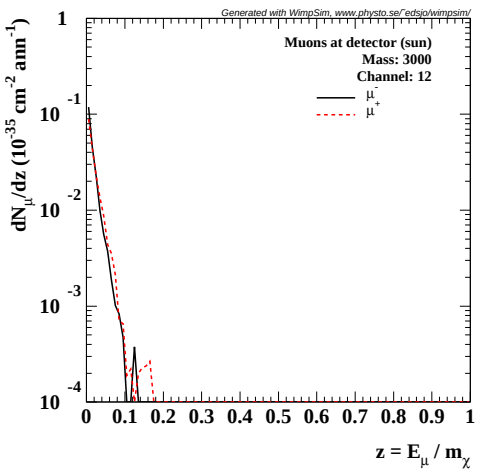


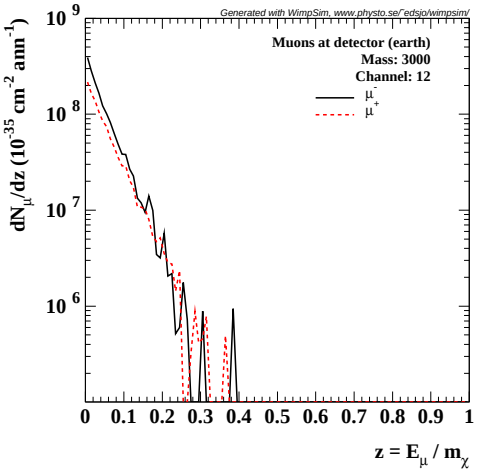
17.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





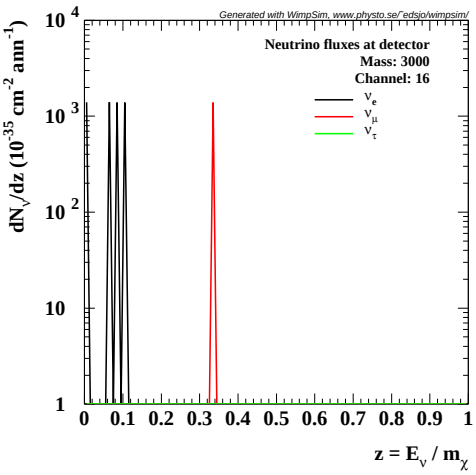
17.7.7 Muons at detector (Sun/Earth)

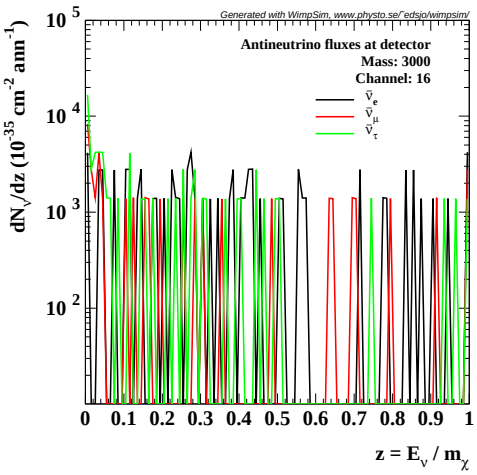




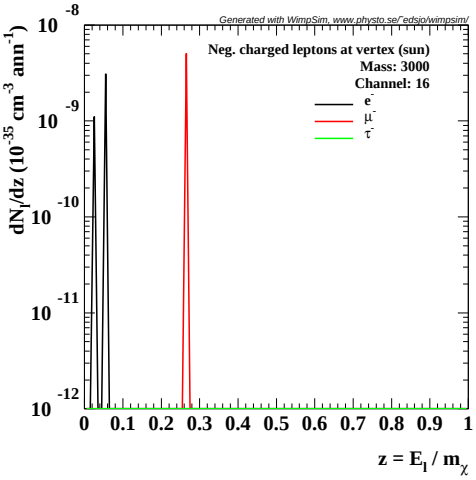
17.8 Channel 16 – $\nu_e\bar{\nu}_e$

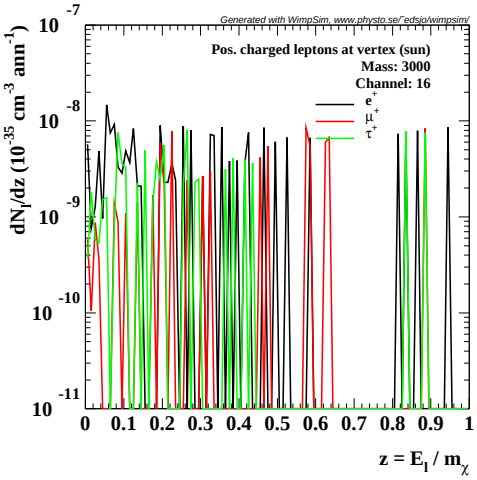
17.8.1 Neutrino fluxes at detector (Sun)



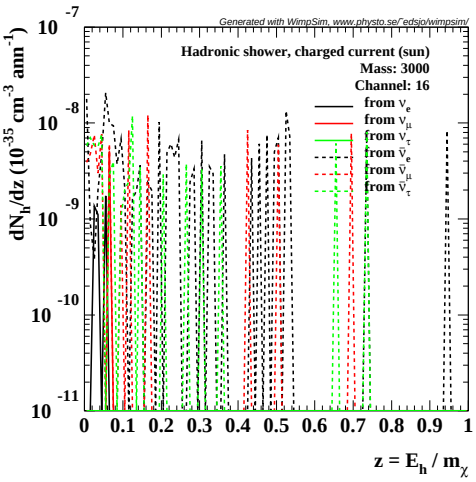


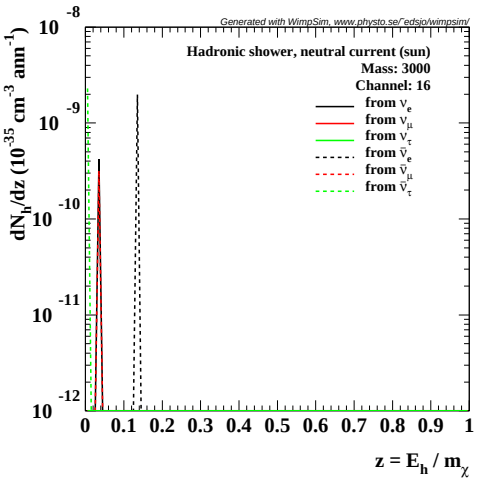
17.8.2 Charged leptons at neutrino-nucleon vertex (Sun)



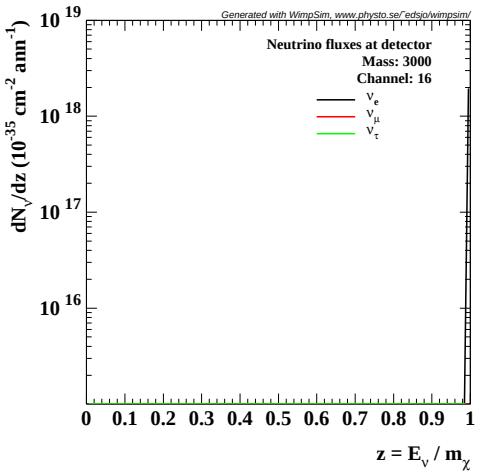


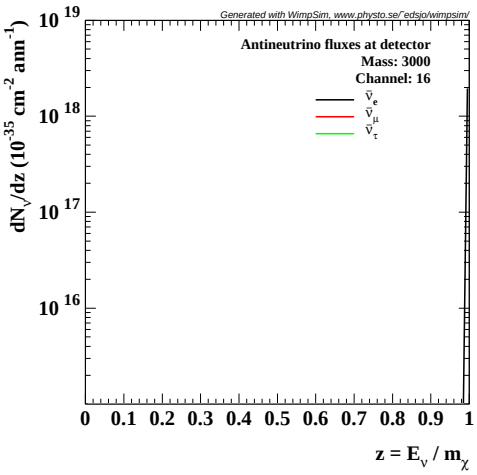
17.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)



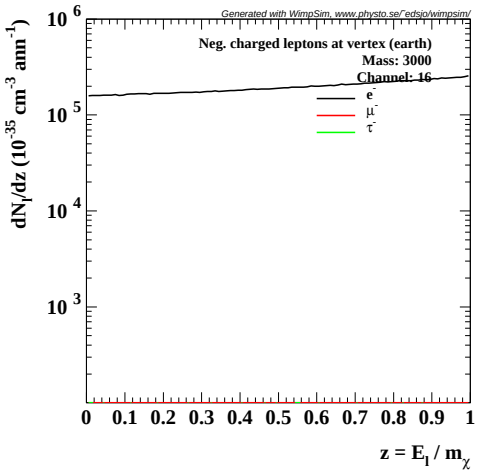


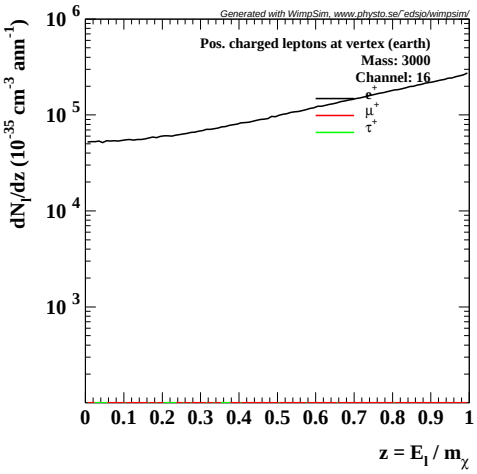
17.8.4 Neutrino fluxes at detector (Earth)



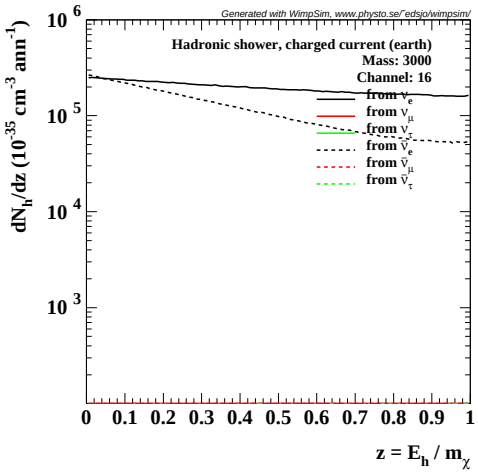


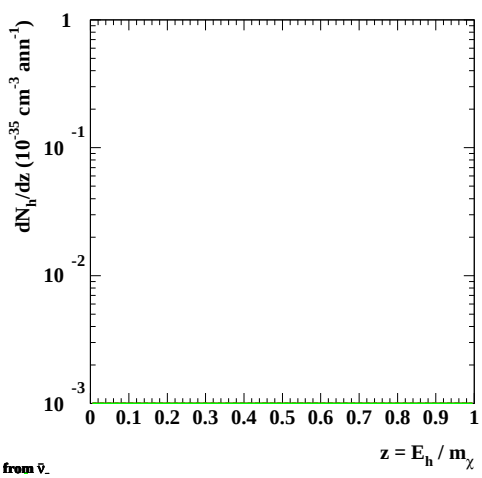
17.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





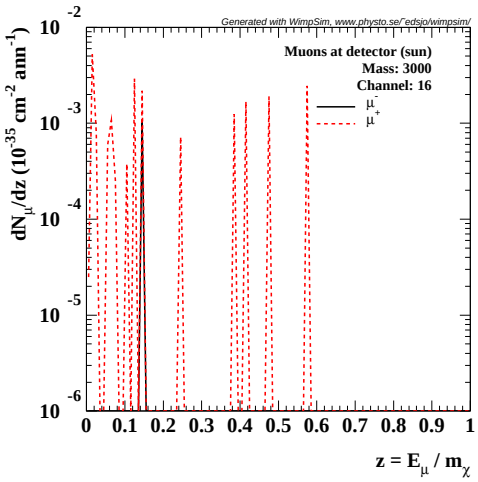
17.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

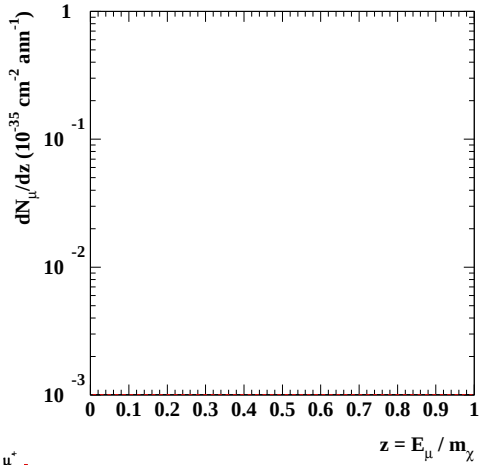




from $\bar{\nu}_\tau$

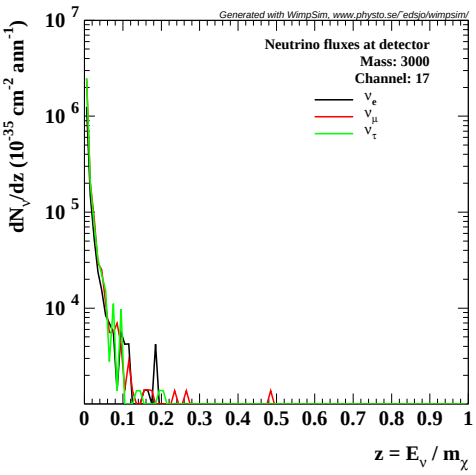
17.8.7 Muons at detector (Sun/Earth)

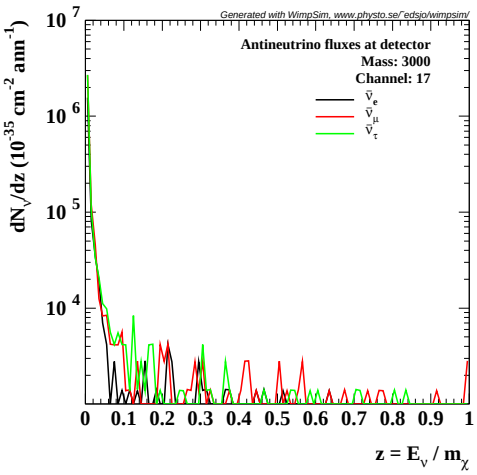




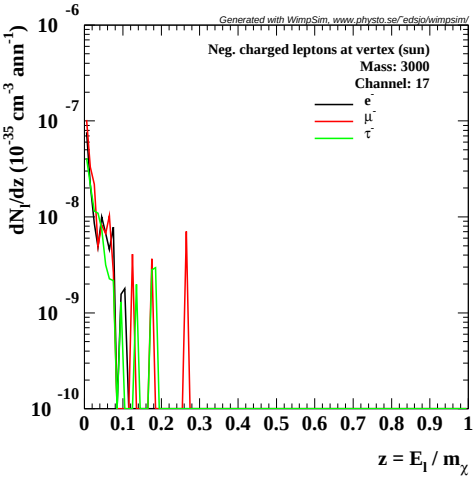
17.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

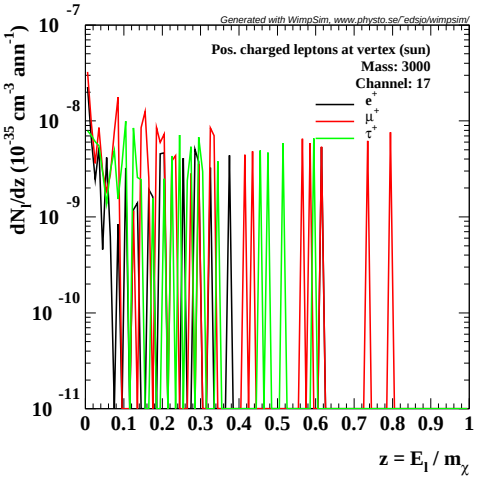
17.9.1 Neutrino fluxes at detector (Sun)



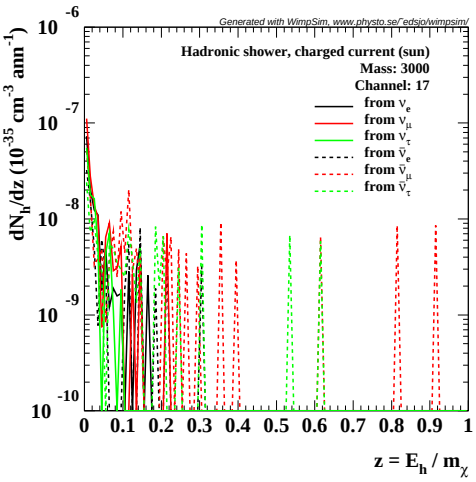


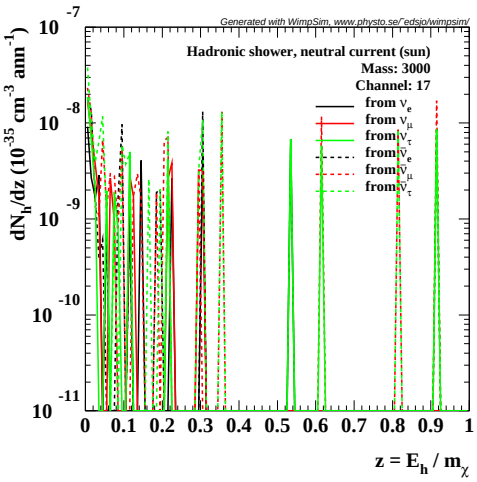
17.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



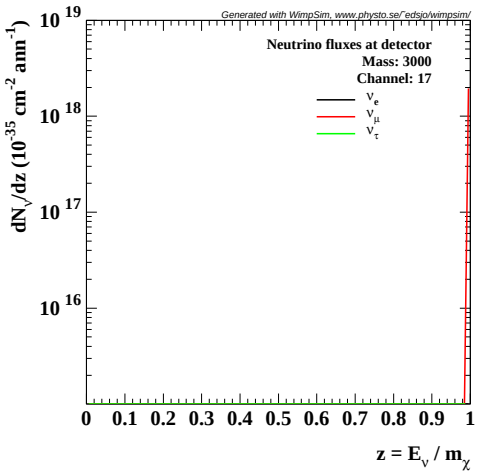


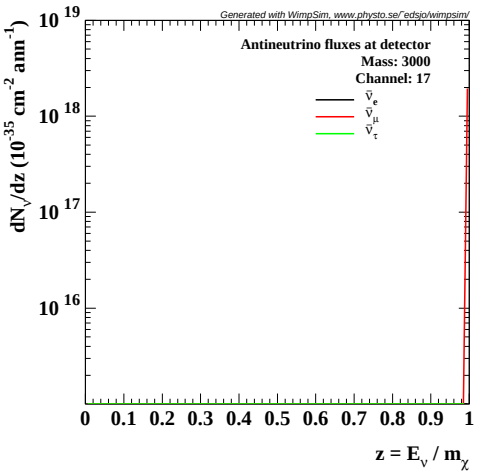
17.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



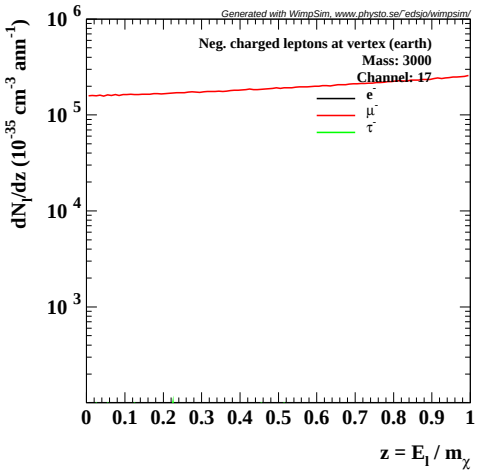


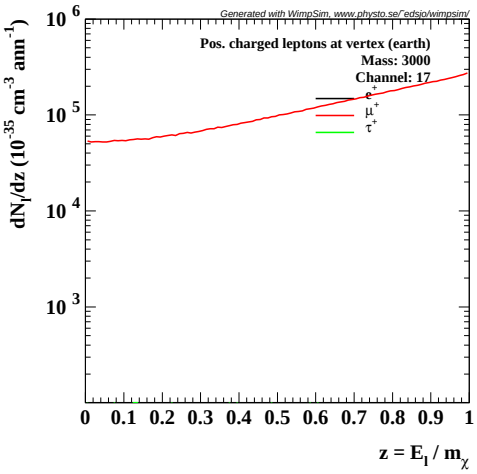
17.9.4 Neutrino fluxes at detector (Earth)



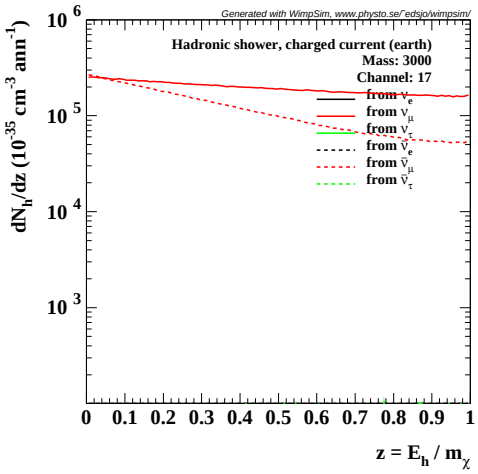


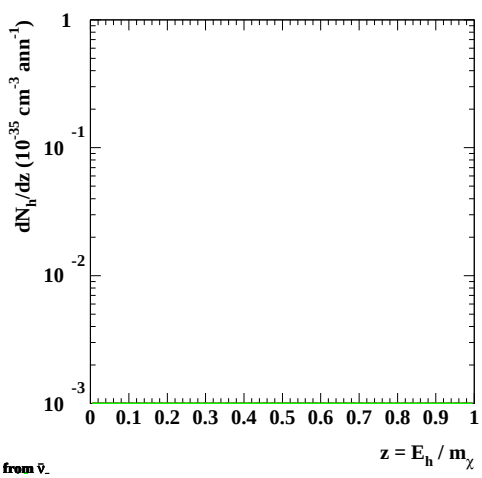
17.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



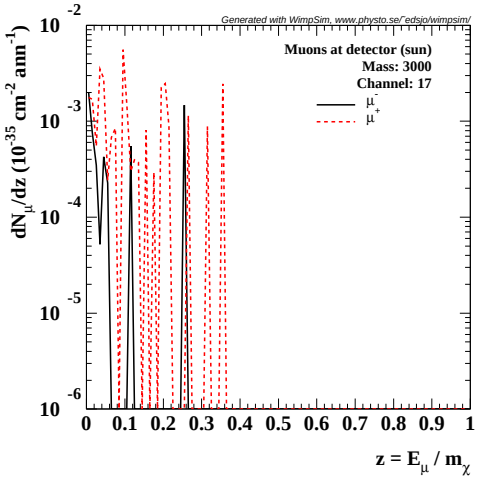


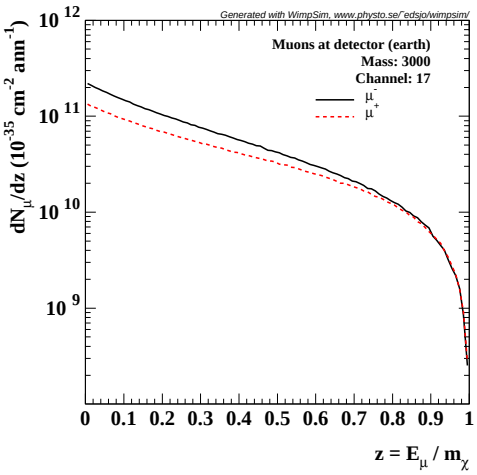
17.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





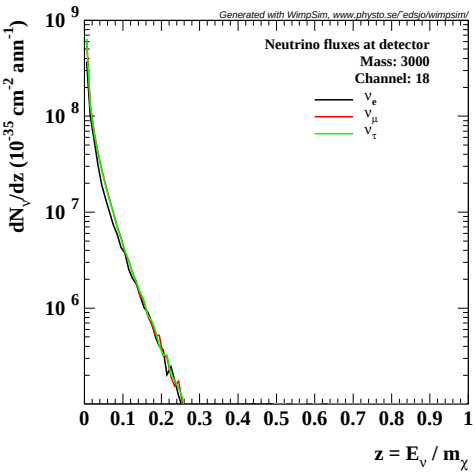
17.9.7 Muons at detector (Sun/Earth)

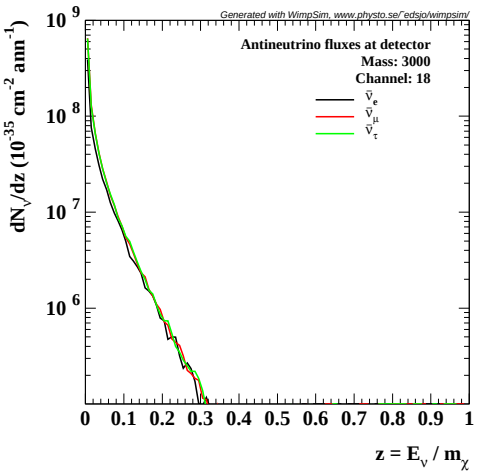




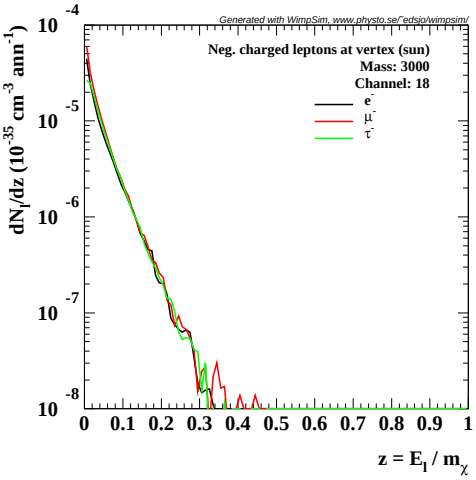
17.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

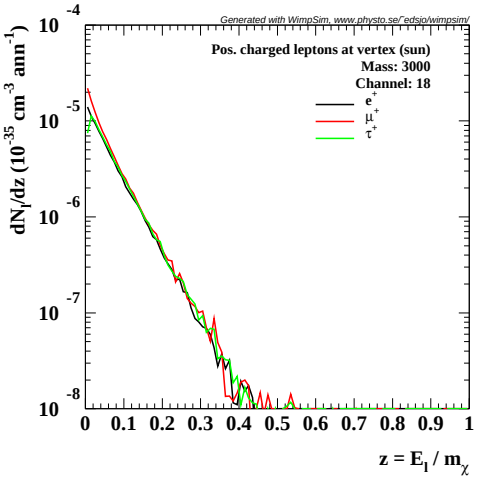
17.10.1 Neutrino fluxes at detector (Sun)



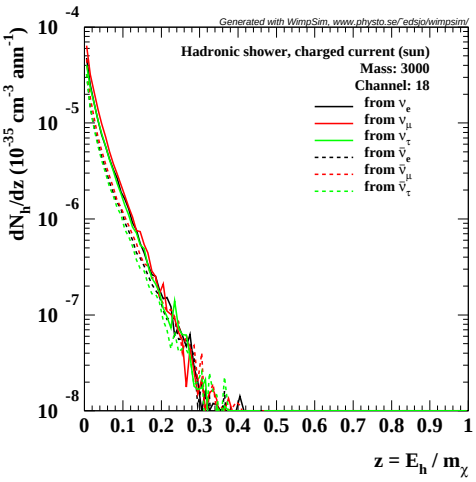


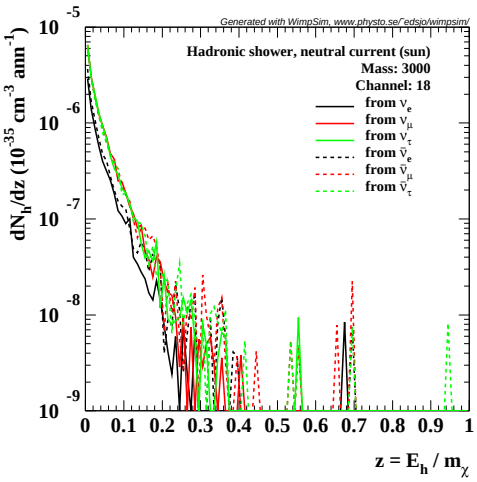
17.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



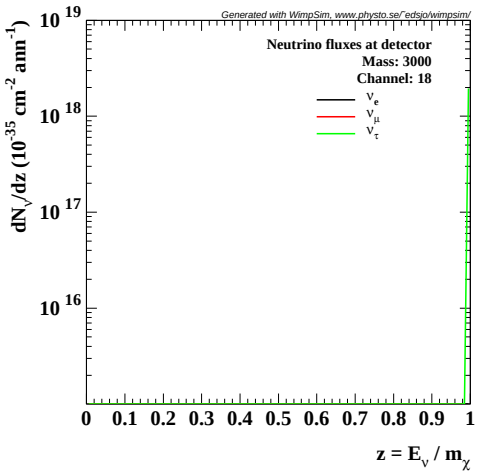


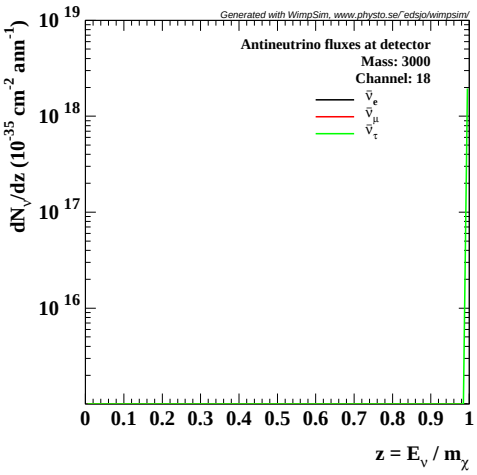
17.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



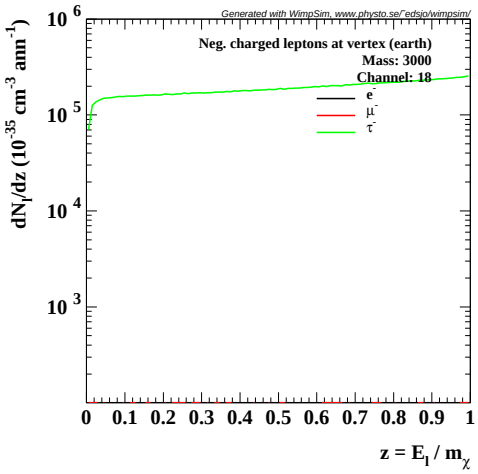


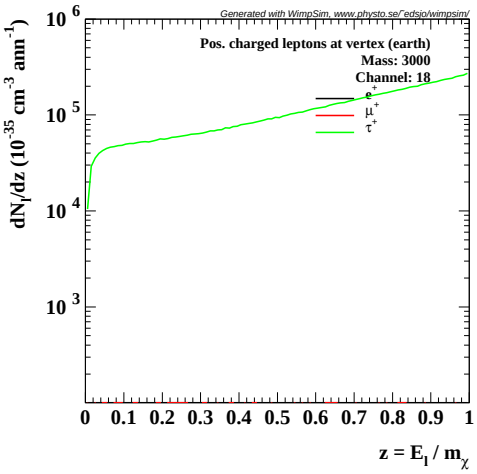
17.10.4 Neutrino fluxes at detector (Earth)



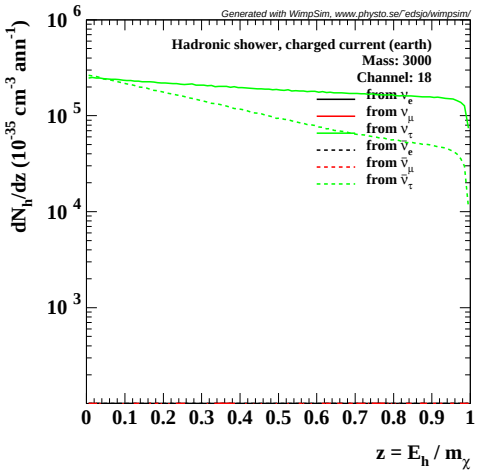


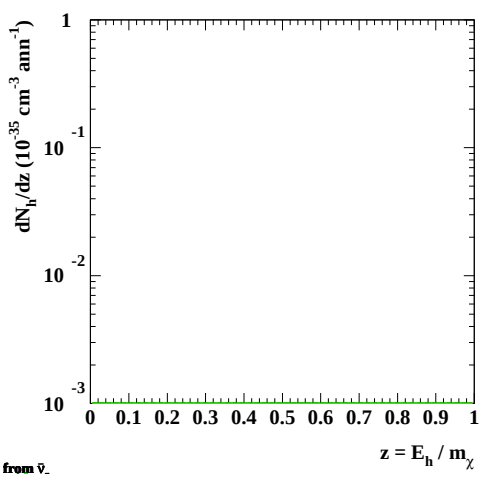
17.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





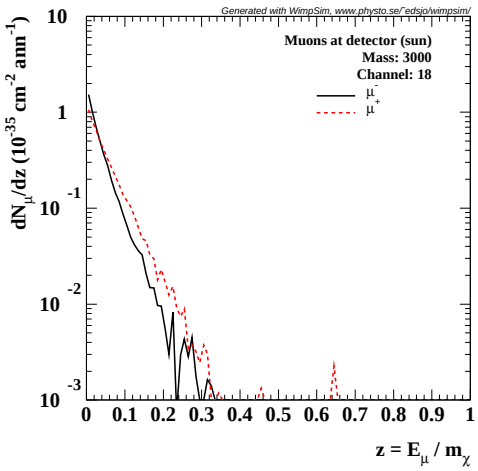
17.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

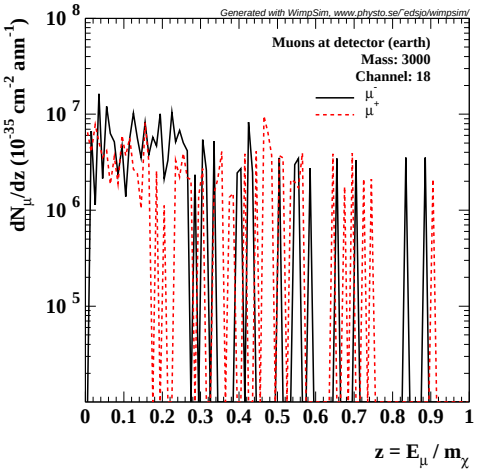




from $\bar{\nu}_\tau$

17.10.7 Muons at detector (Sun/Earth)

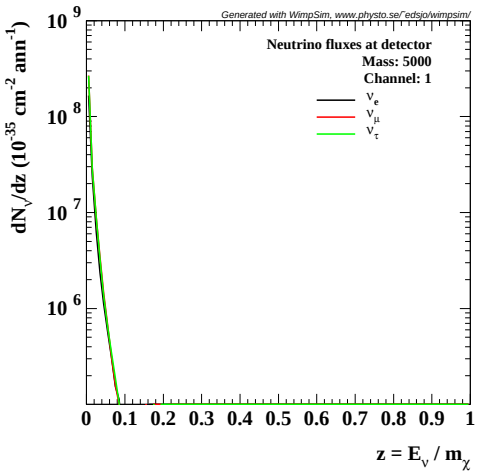


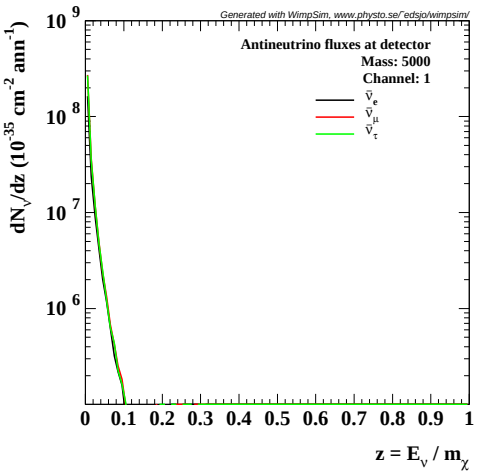


18 Mass 5000

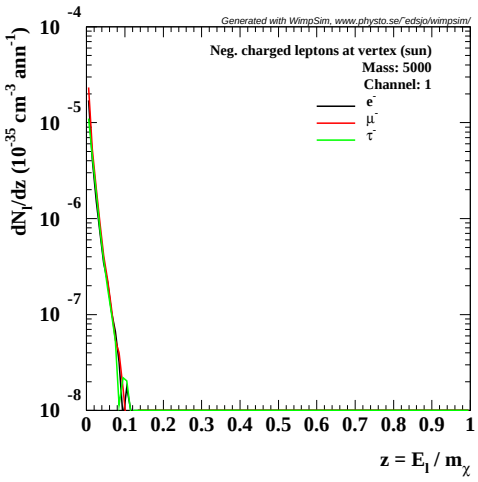
18.1 Channel 1 – $c\bar{c}$

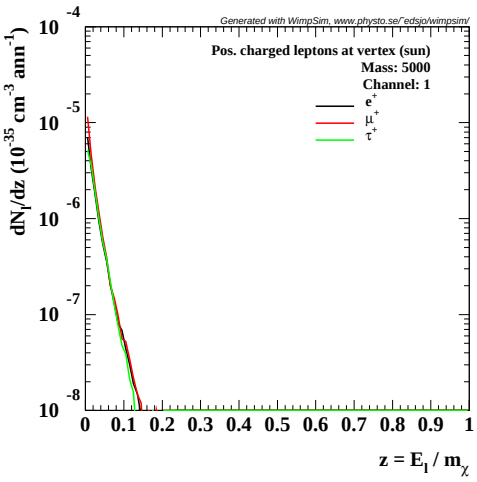
18.1.1 Neutrino fluxes at detector (Sun)



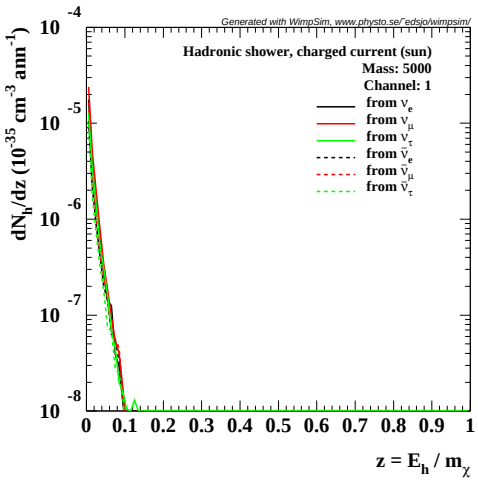


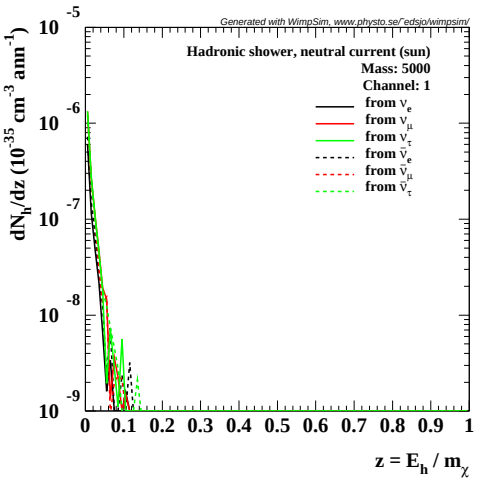
18.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



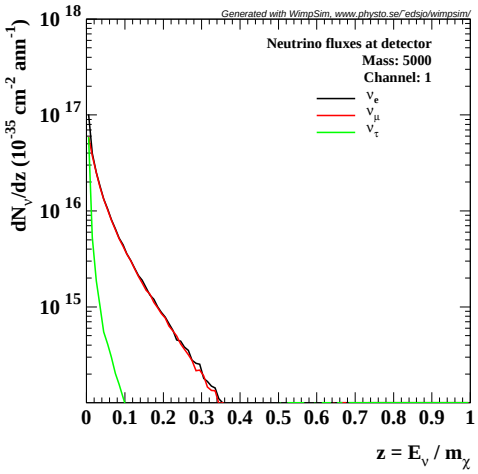


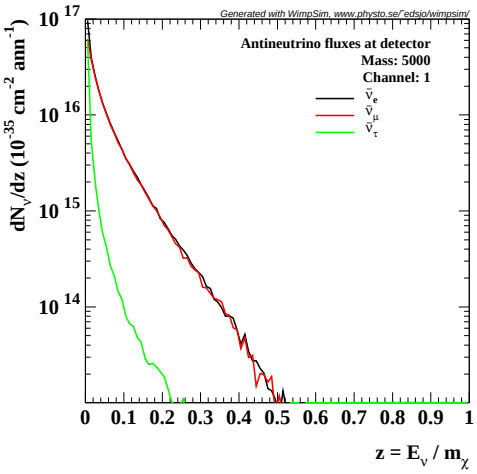
18.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



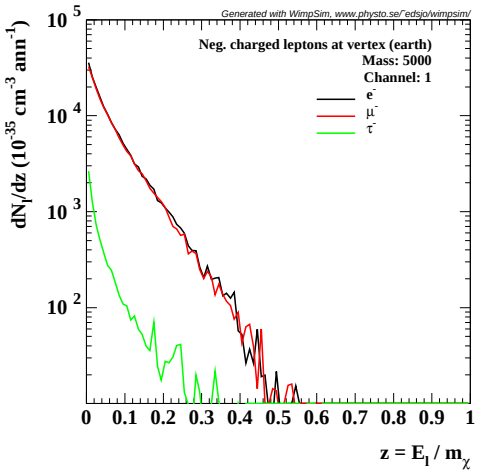


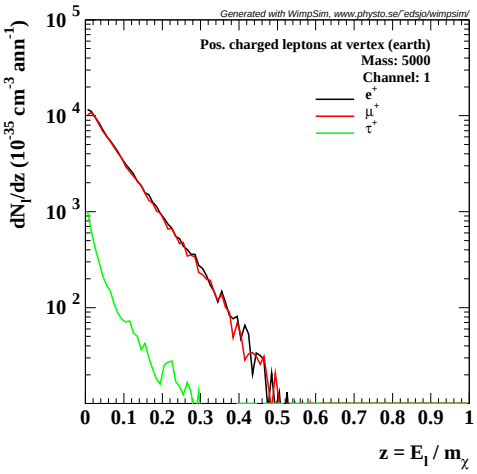
18.1.4 Neutrino fluxes at detector (Earth)



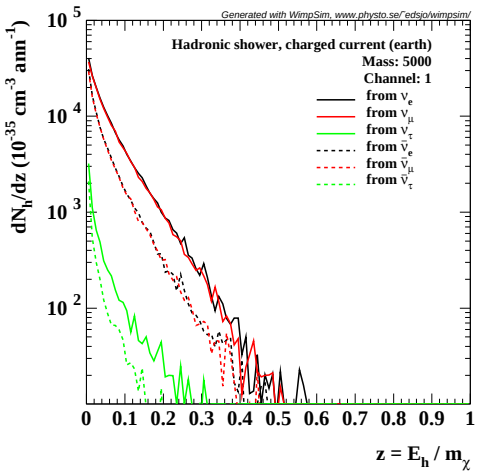


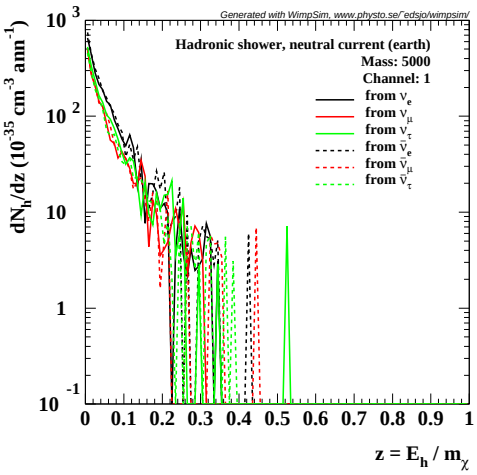
18.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



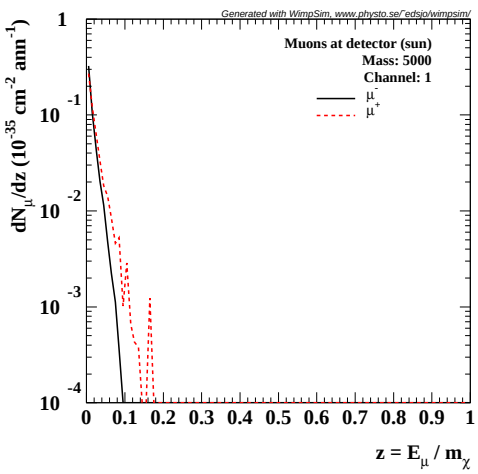


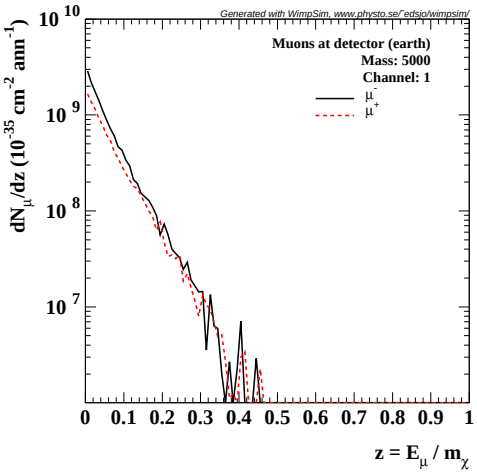
18.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





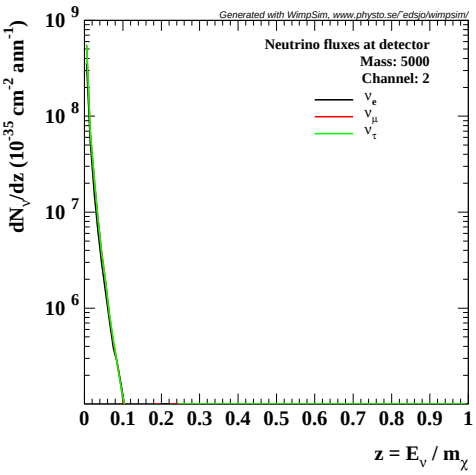
18.1.7 Muons at detector (Sun/Earth)

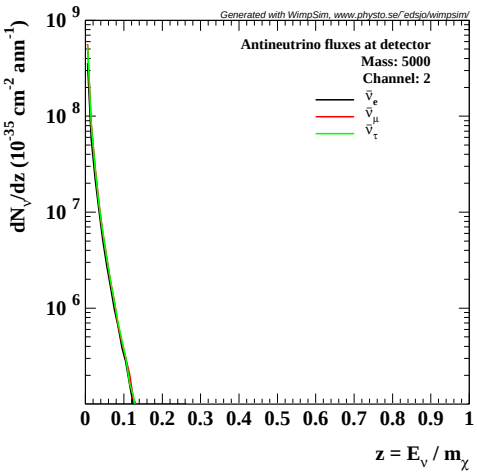




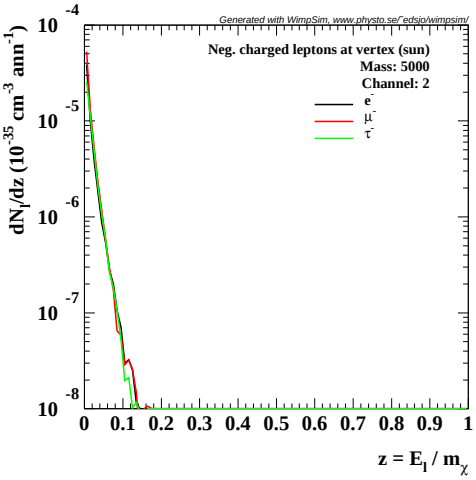
18.2 Channel 2 – $b\bar{b}$

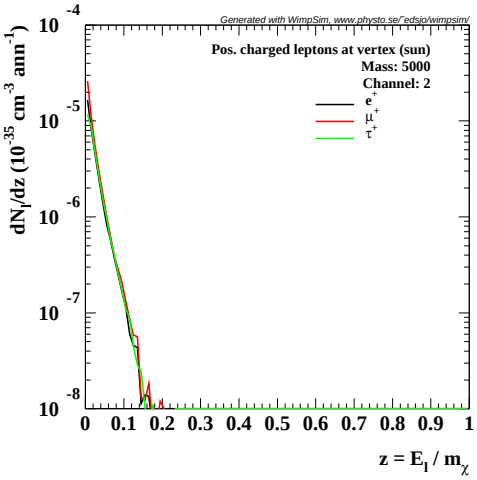
18.2.1 Neutrino fluxes at detector (Sun)



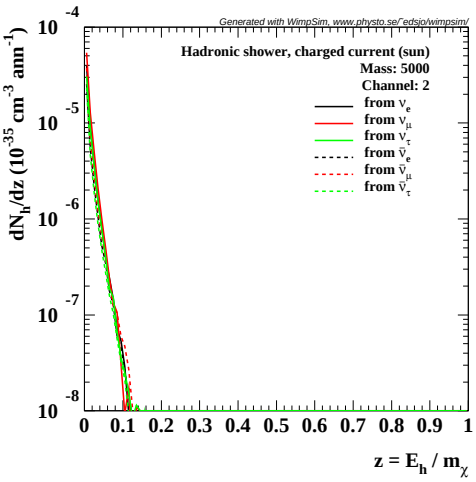


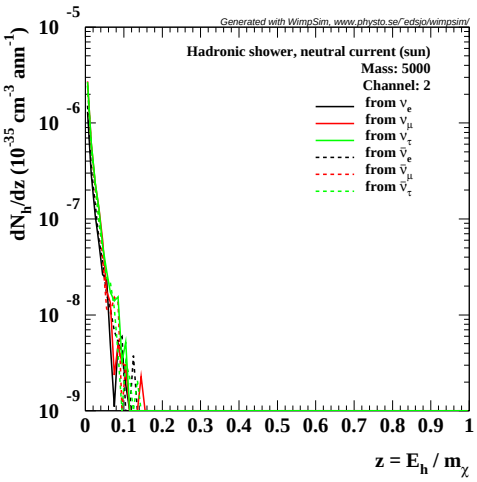
18.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



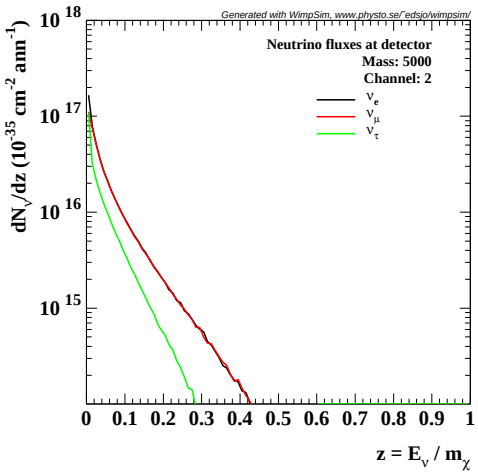


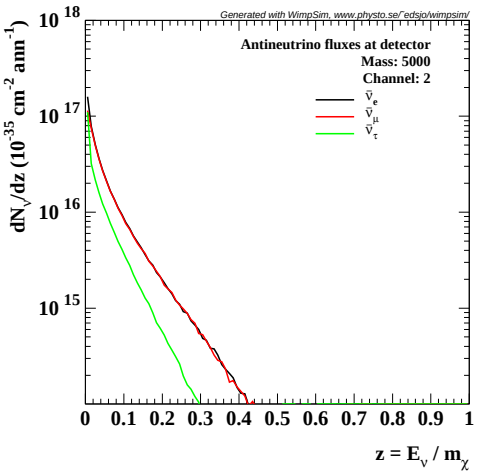
18.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



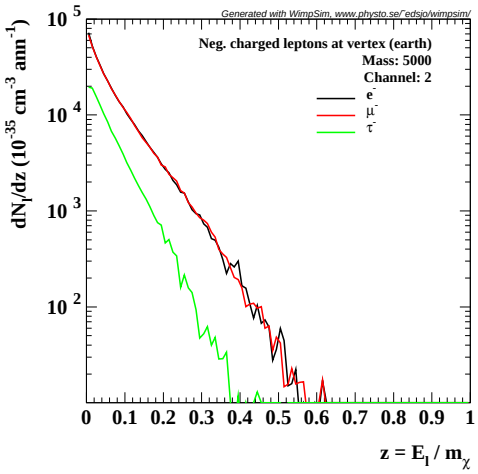


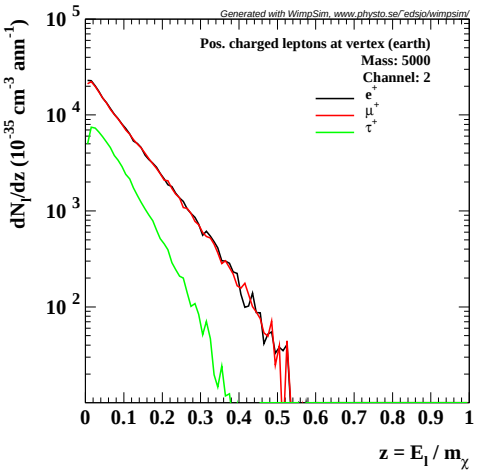
18.2.4 Neutrino fluxes at detector (Earth)



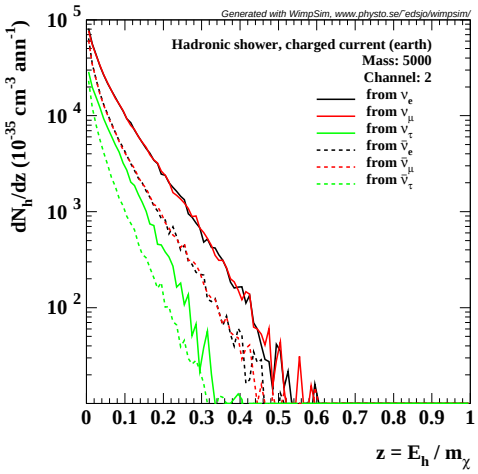


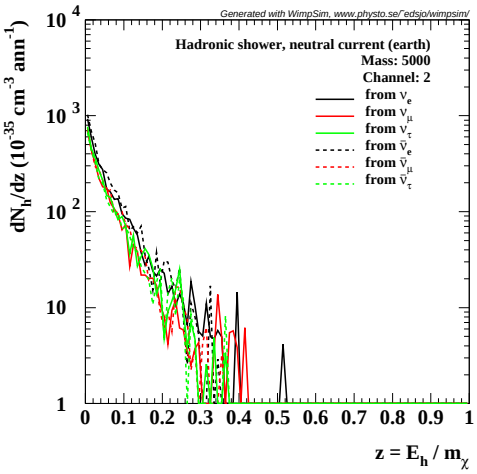
18.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



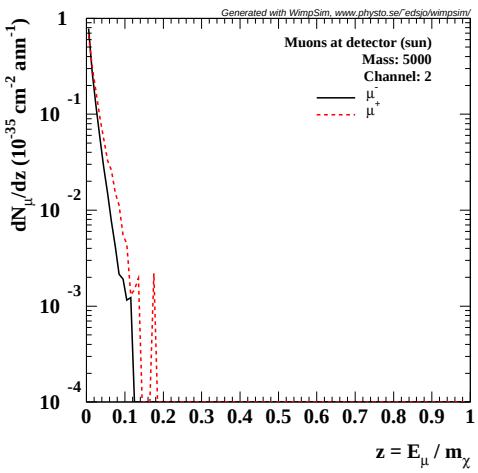


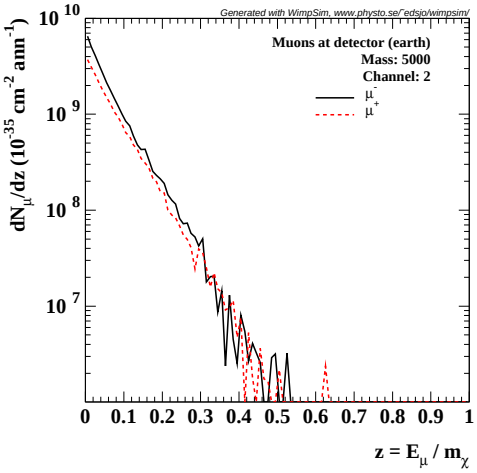
18.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





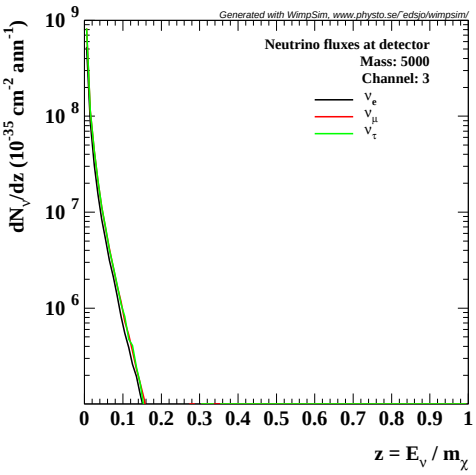
18.2.7 Muons at detector (Sun/Earth)

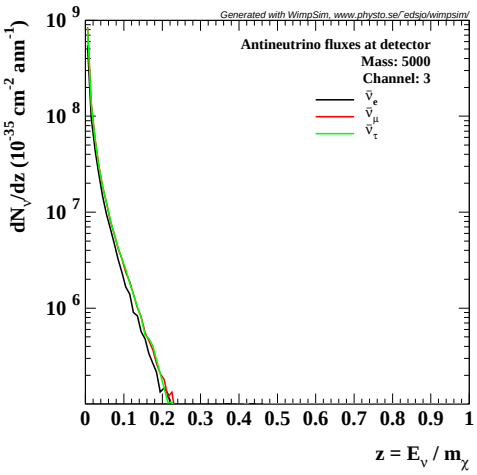




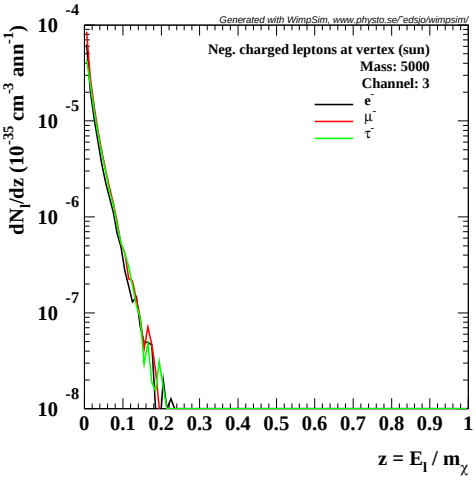
18.3 Channel 3 – $t\bar{t}$

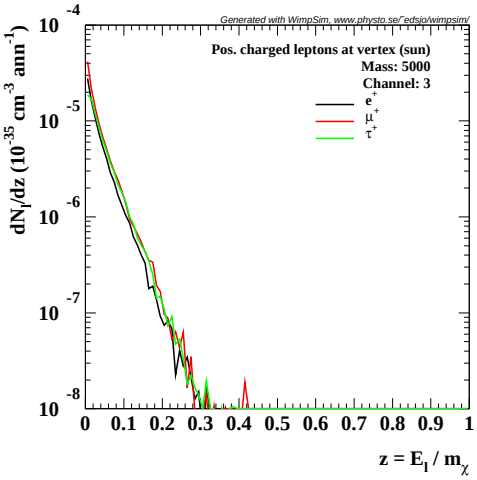
18.3.1 Neutrino fluxes at detector (Sun)



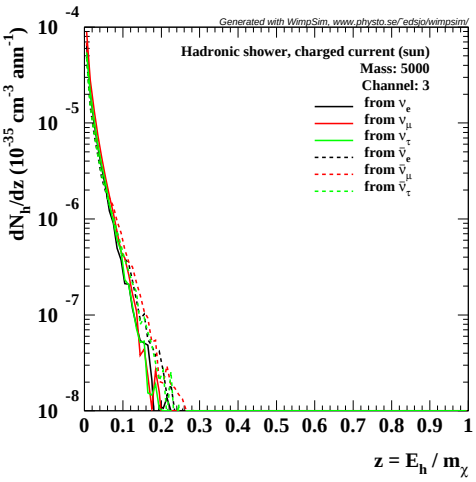


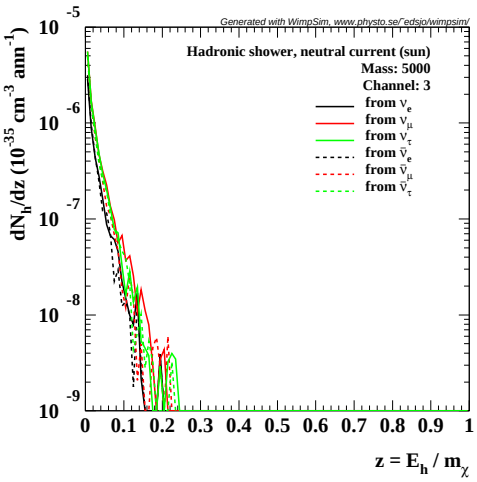
18.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



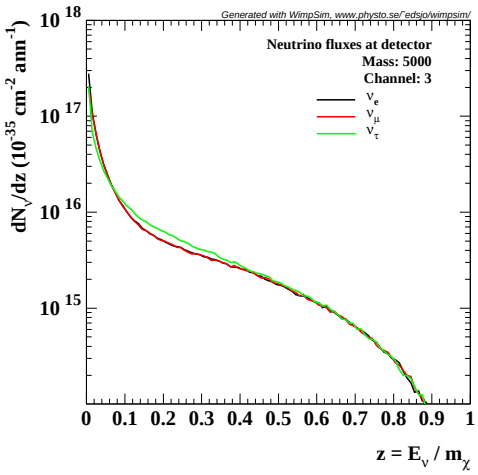


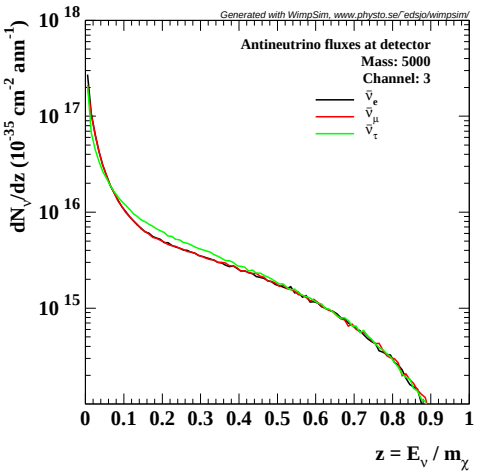
18.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



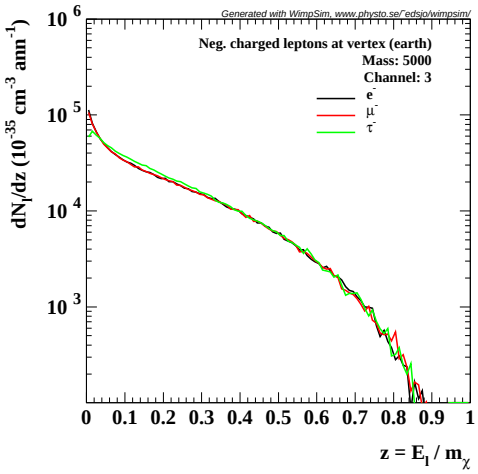


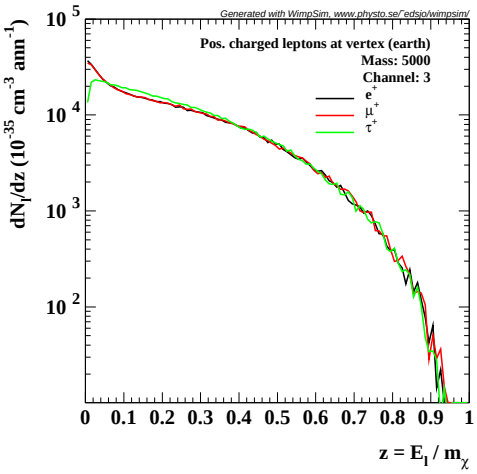
18.3.4 Neutrino fluxes at detector (Earth)



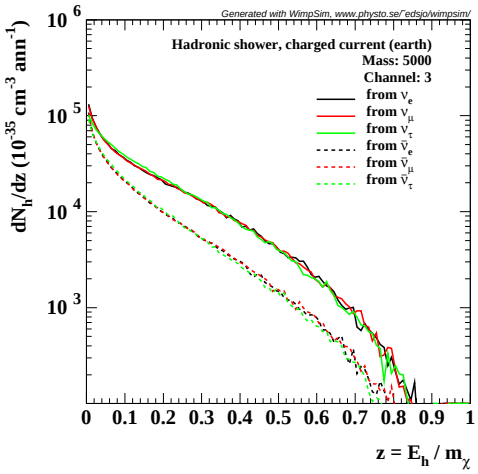


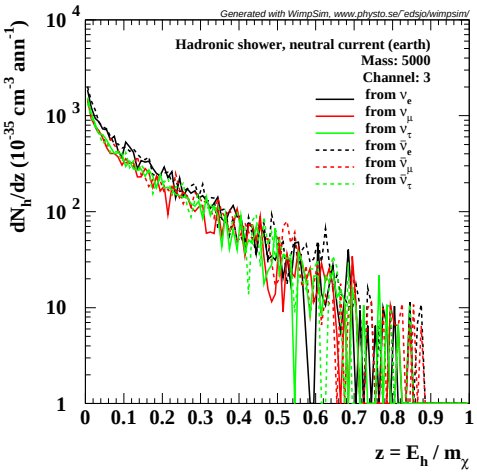
18.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



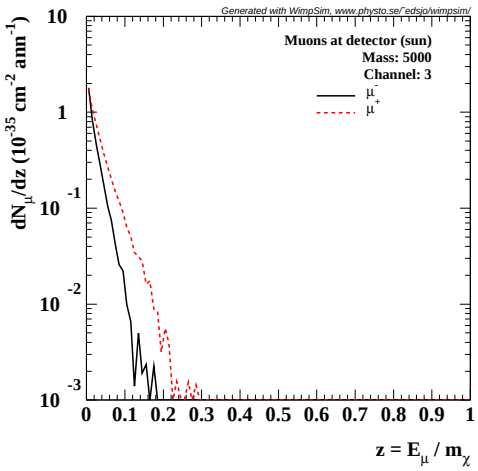


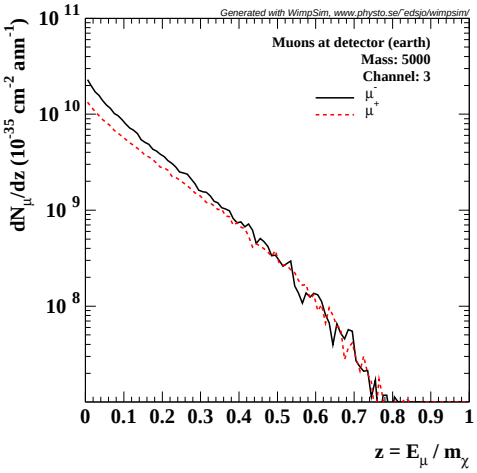
18.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





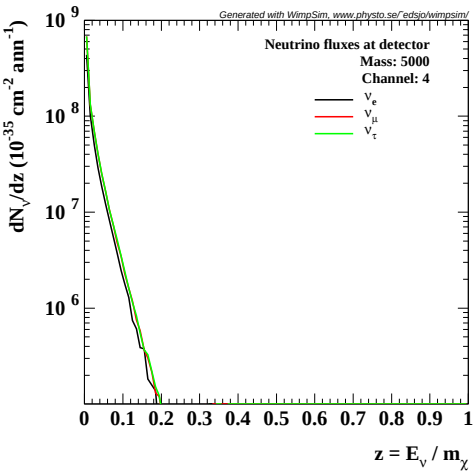
18.3.7 Muons at detector (Sun/Earth)

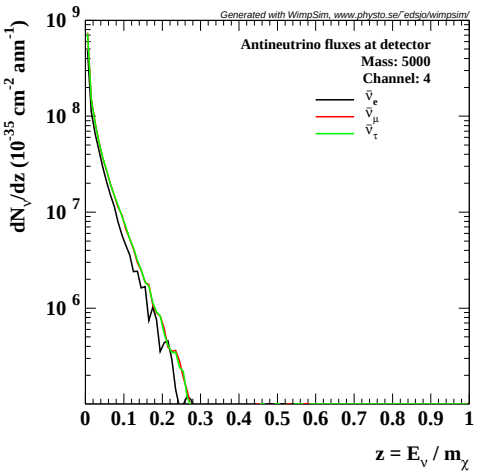




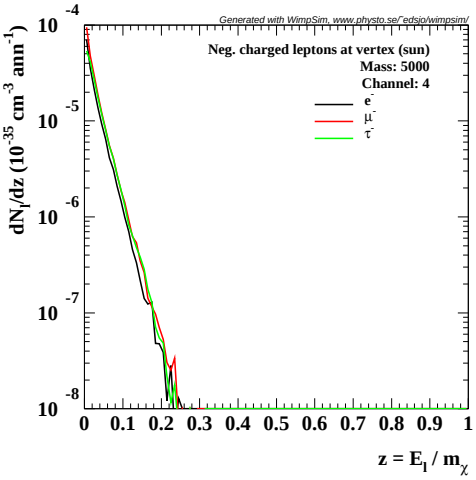
18.4 Channel 4 – $\tau^-\tau^+$

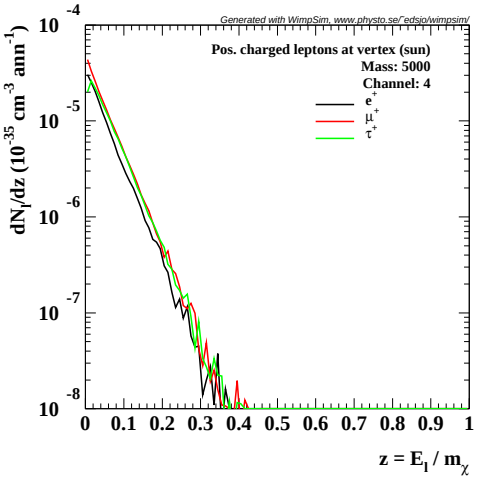
18.4.1 Neutrino fluxes at detector (Sun)



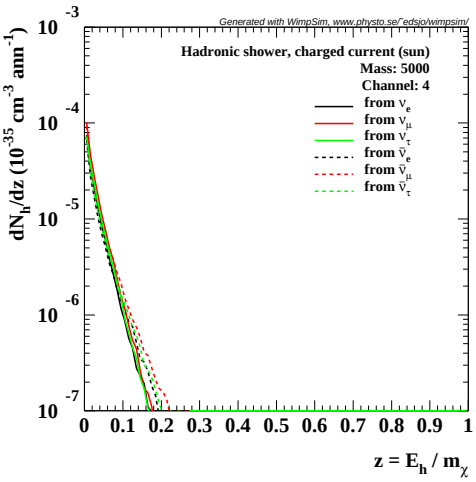


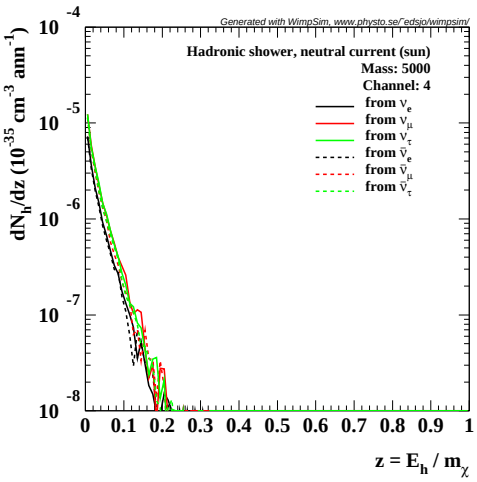
18.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



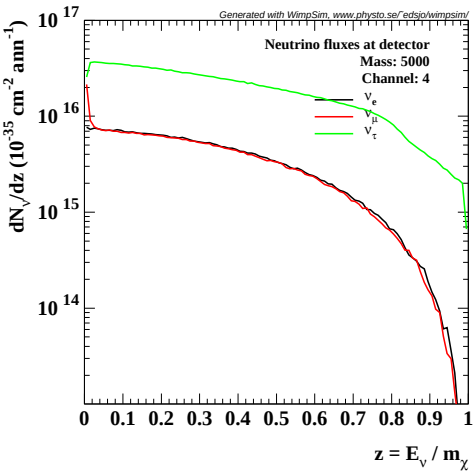


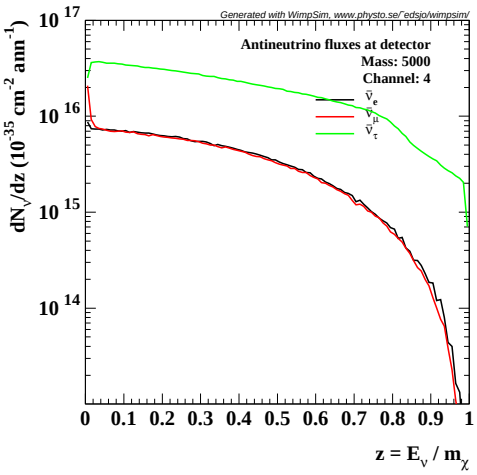
18.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



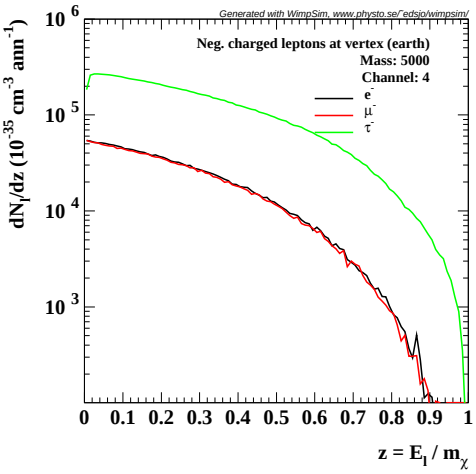


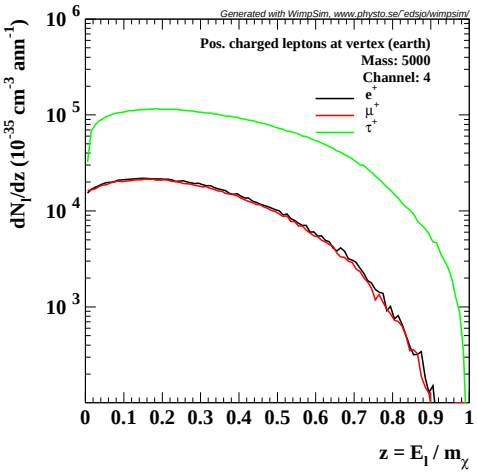
18.4.4 Neutrino fluxes at detector (Earth)



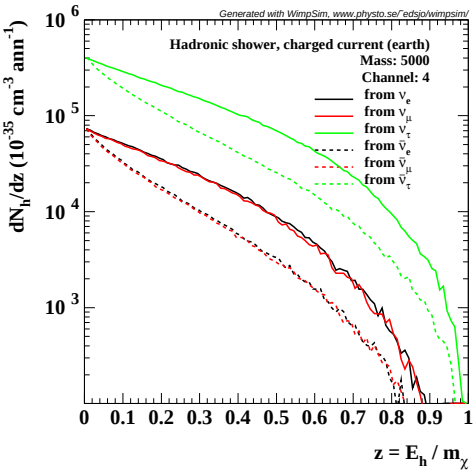


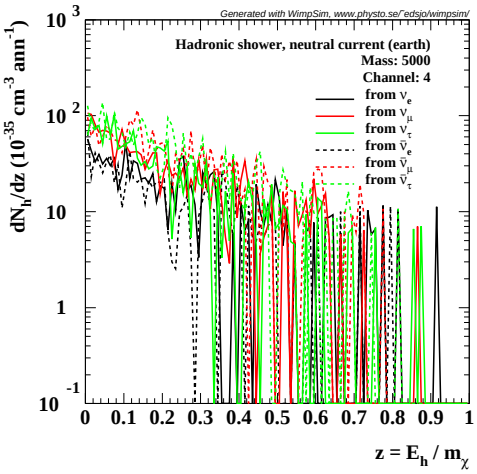
18.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



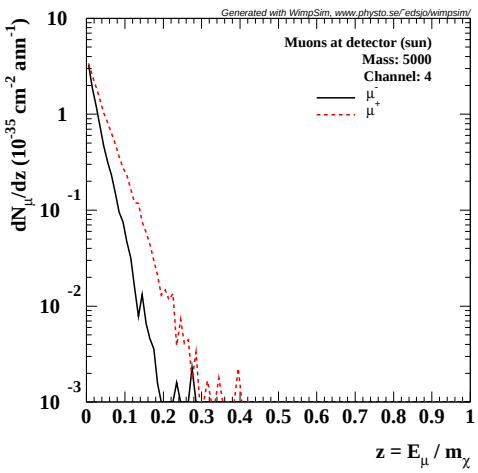


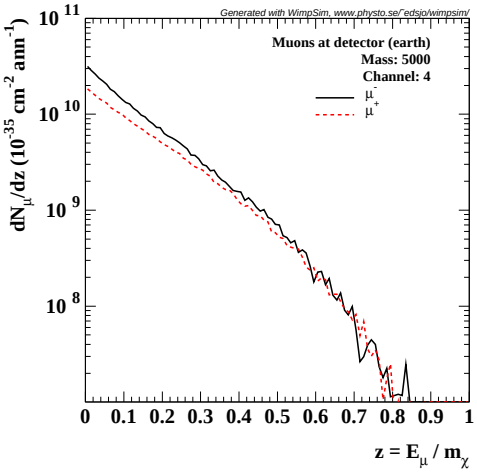
18.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





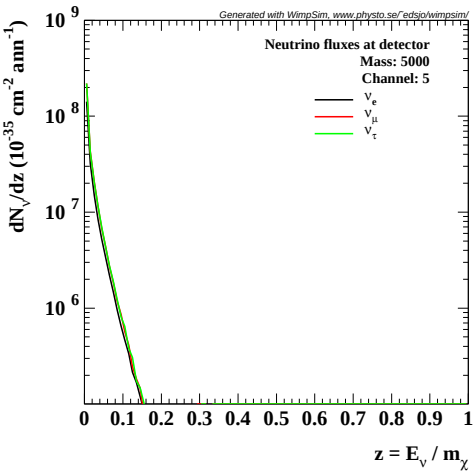
18.4.7 Muons at detector (Sun/Earth)

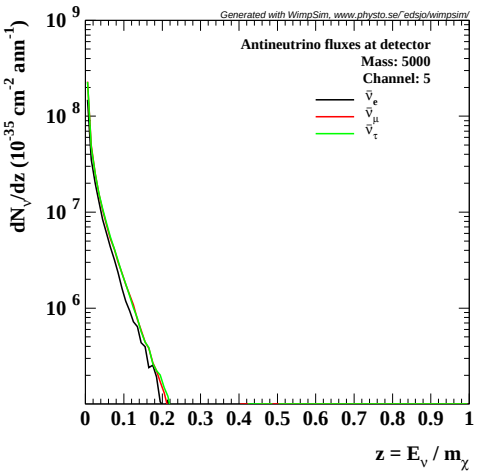




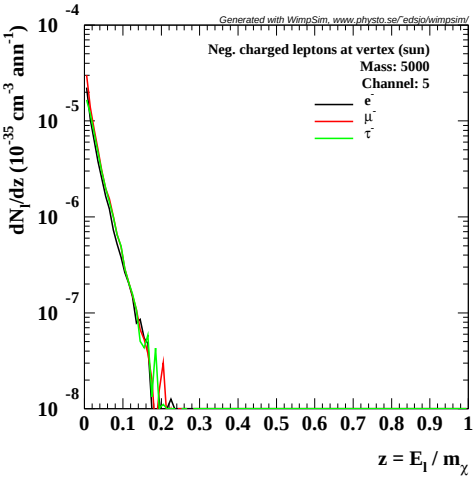
18.5 Channel 5 – W^-W^+

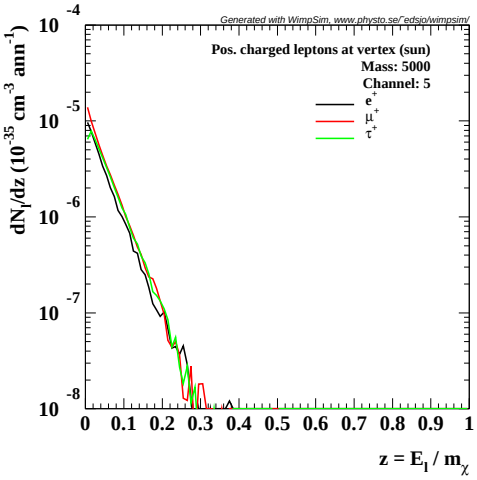
18.5.1 Neutrino fluxes at detector (Sun)



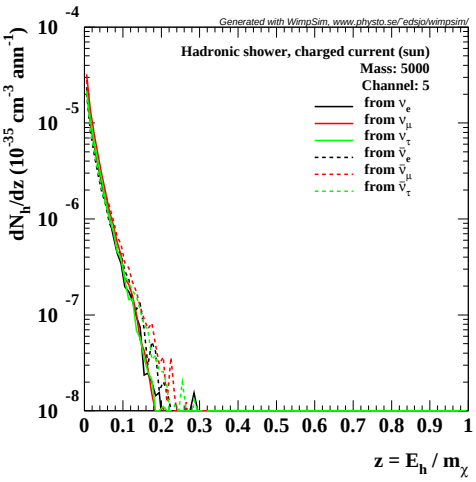


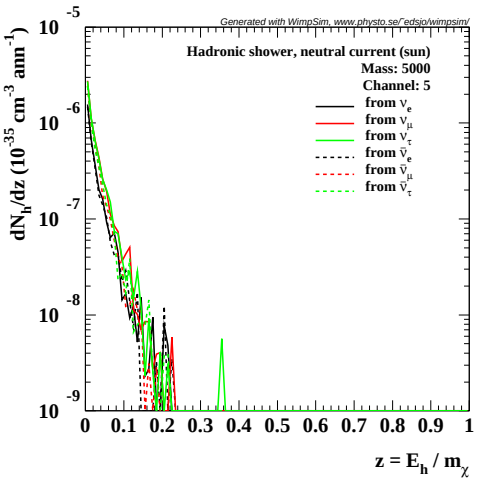
18.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



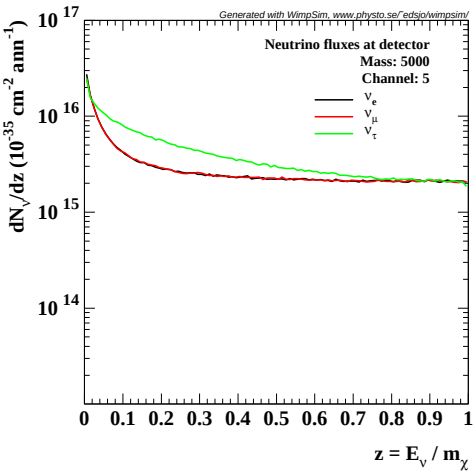


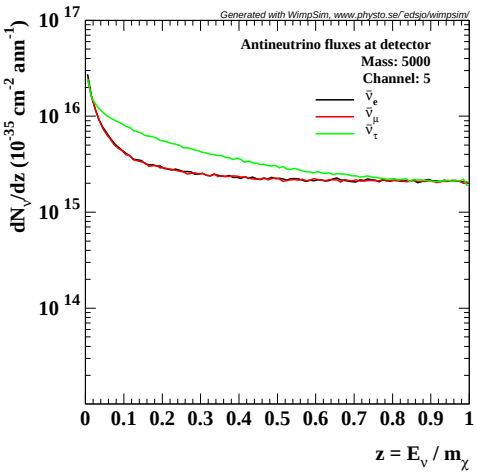
18.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



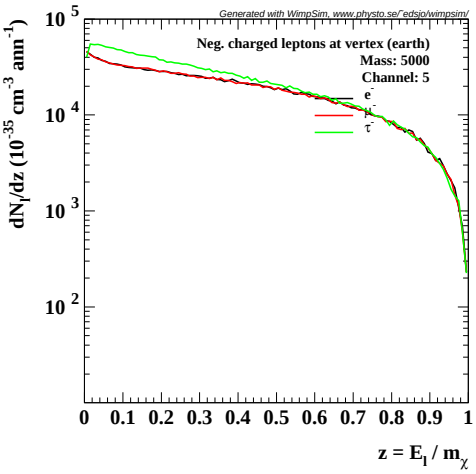


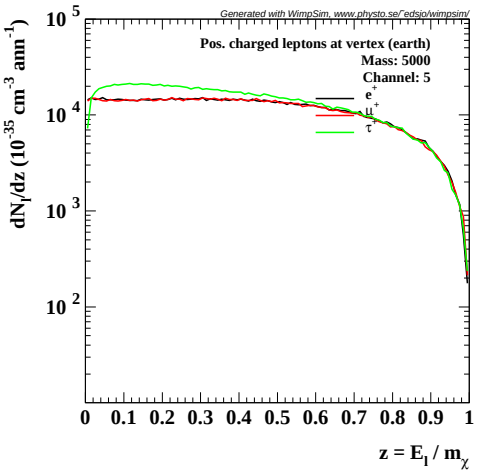
18.5.4 Neutrino fluxes at detector (Earth)



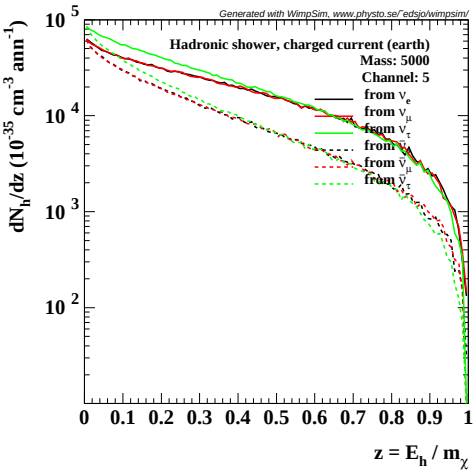


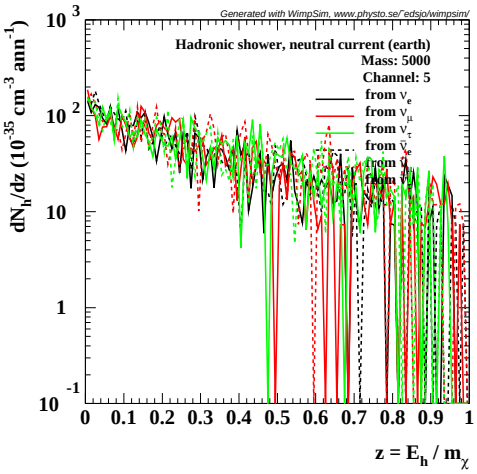
18.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



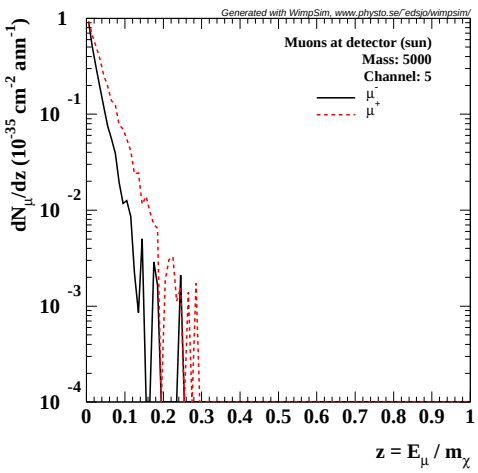


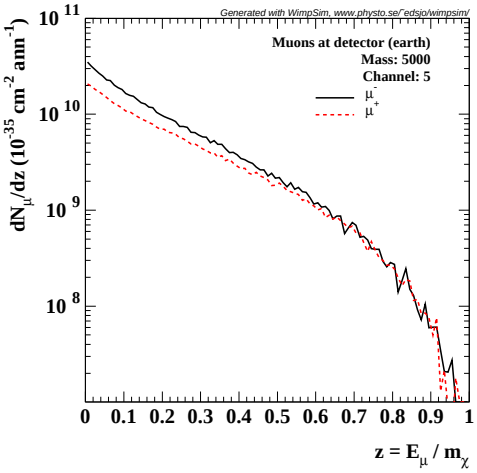
18.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





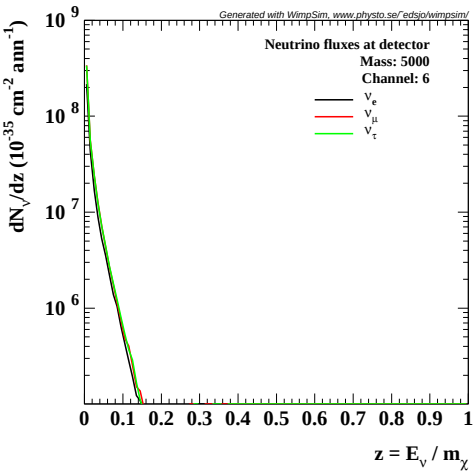
18.5.7 Muons at detector (Sun/Earth)

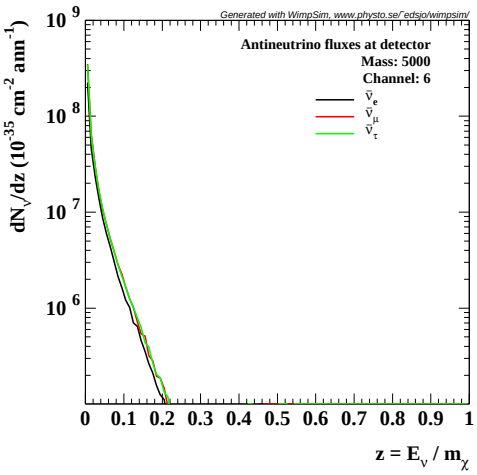




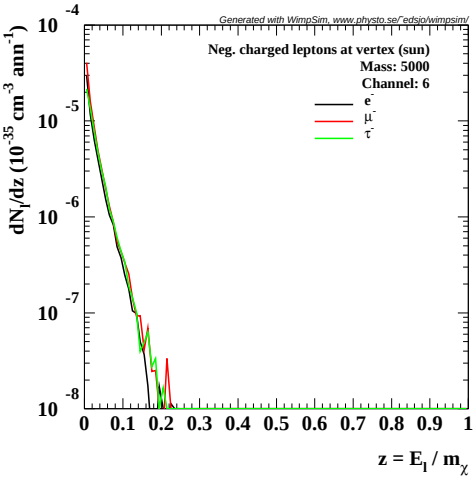
18.6 Channel 6 – $Z^0 Z^0$

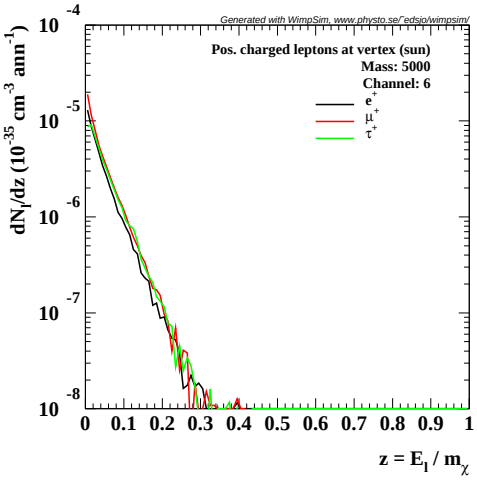
18.6.1 Neutrino fluxes at detector (Sun)



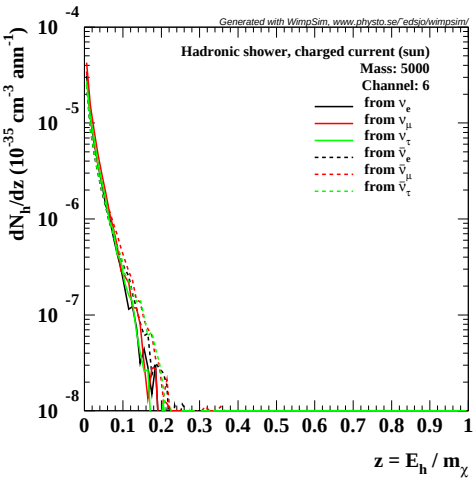


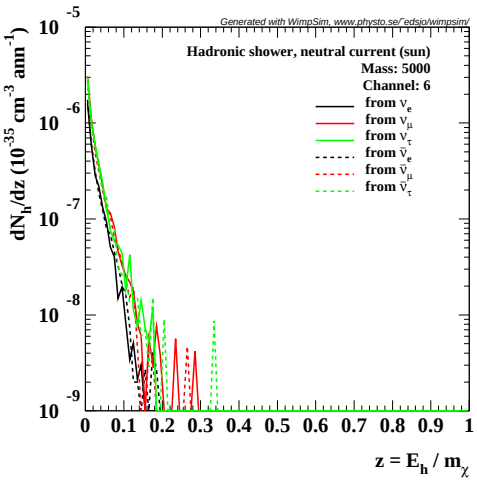
18.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



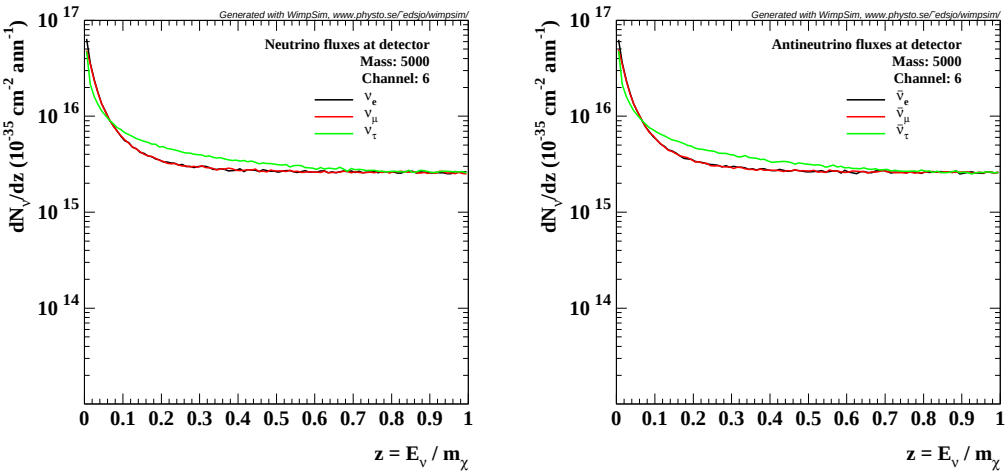


18.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)

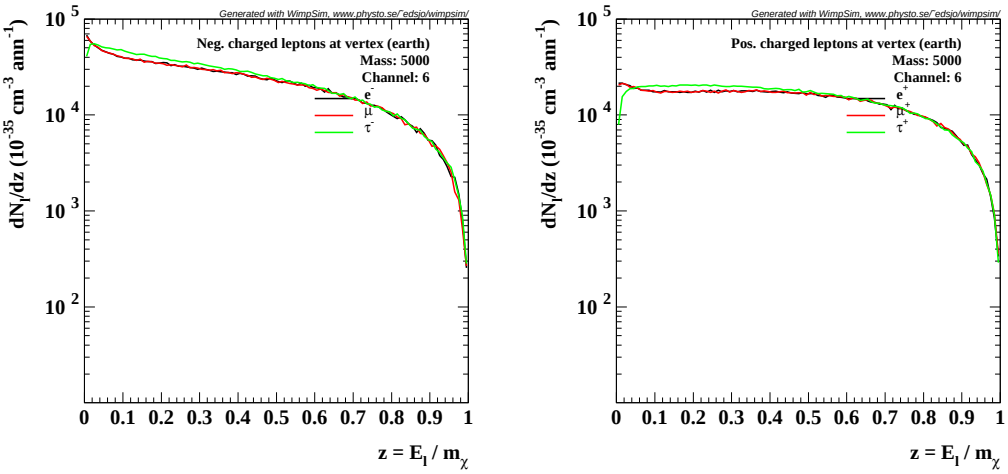




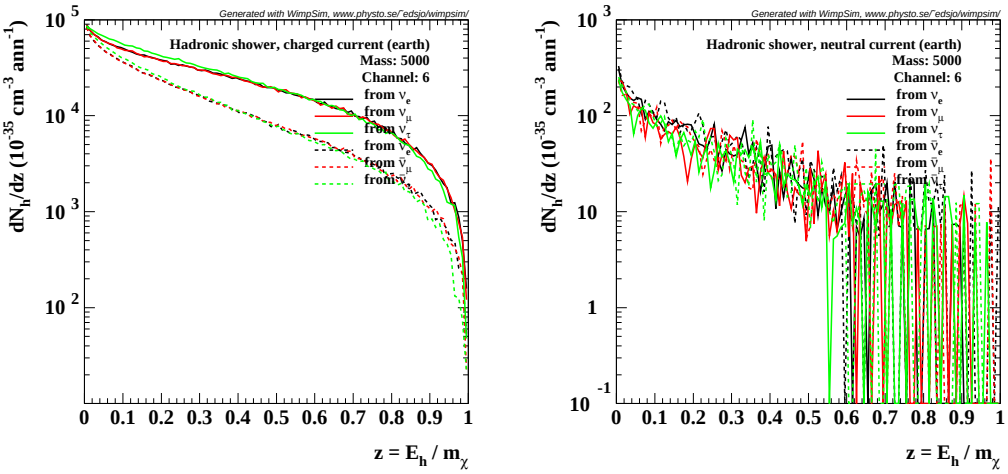
18.6.4 Neutrino fluxes at detector (Earth)



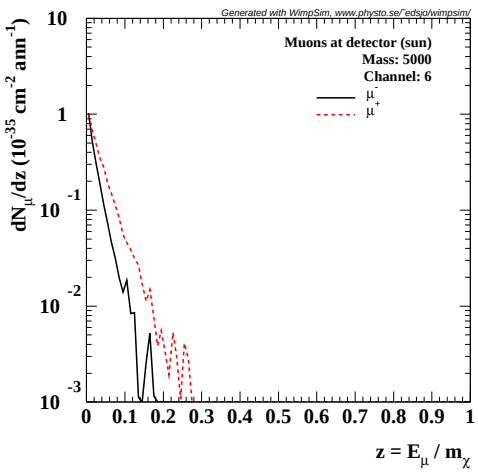
18.6.5 Charged leptons at neutrino-nucleon vertex (Earth)

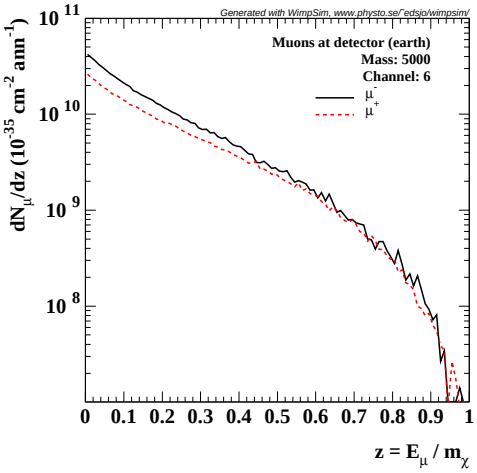


18.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)



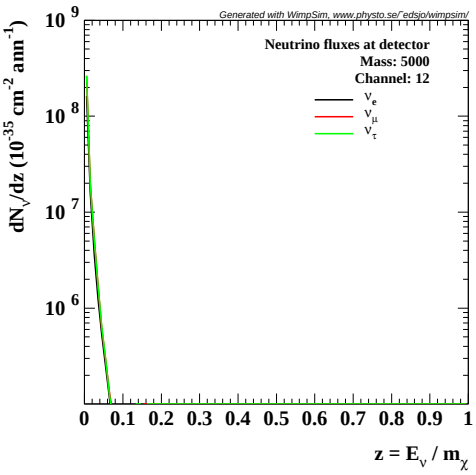
18.6.7 Muons at detector (Sun/Earth)

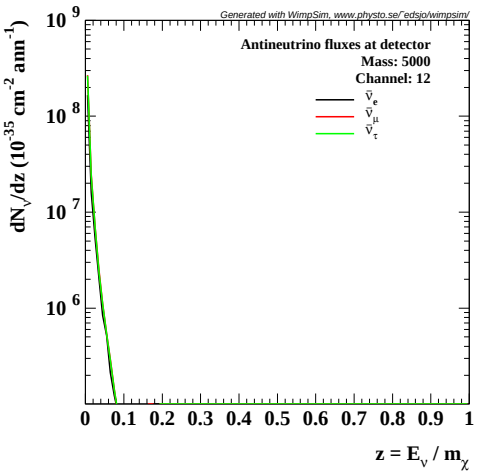




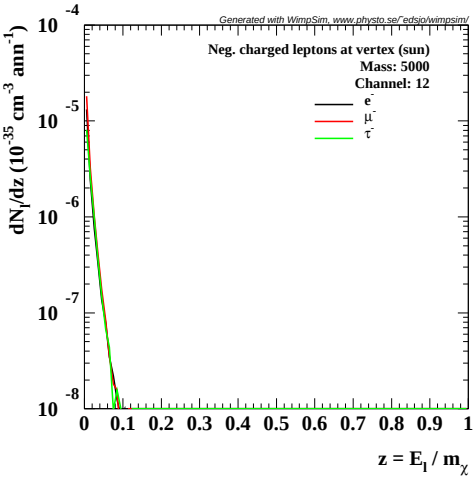
18.7 Channel 12 – gg

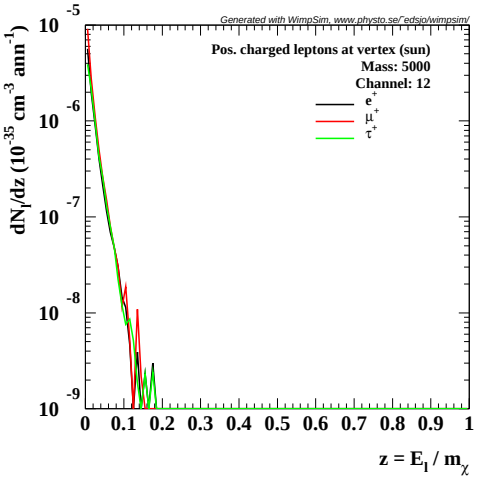
18.7.1 Neutrino fluxes at detector (Sun)



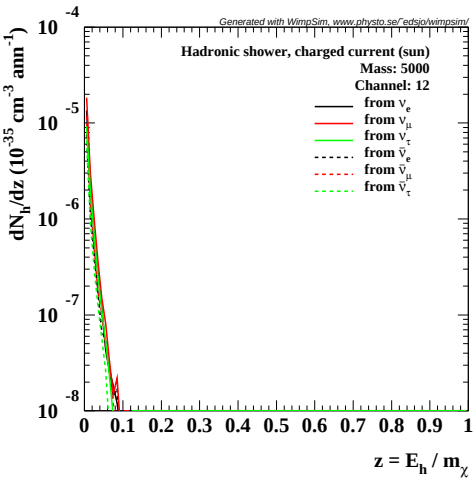


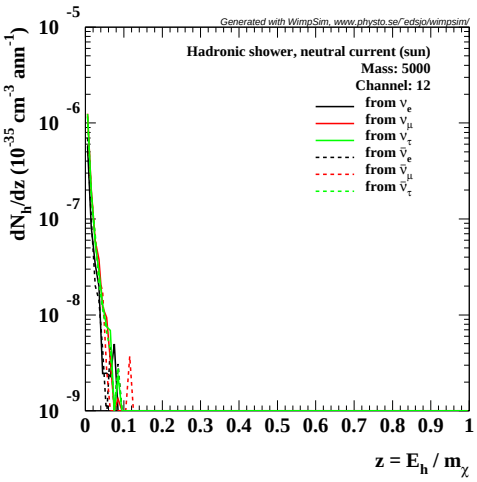
18.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



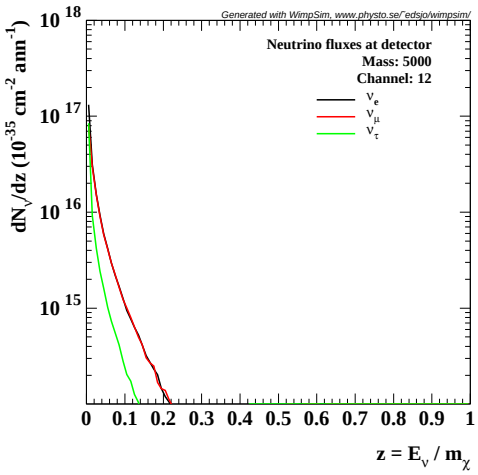


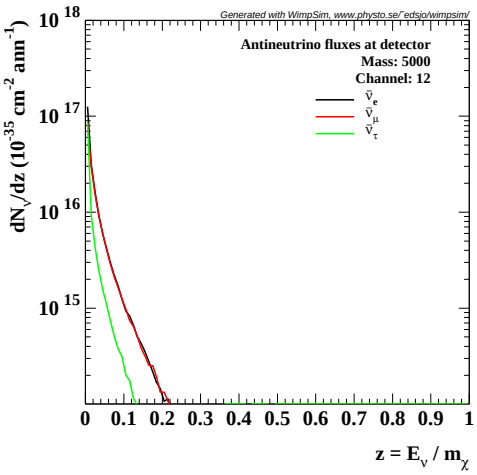
18.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



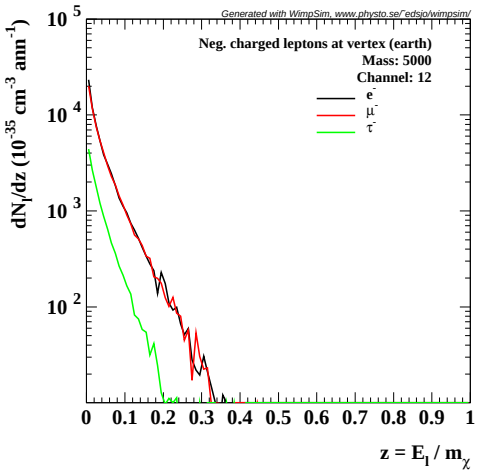


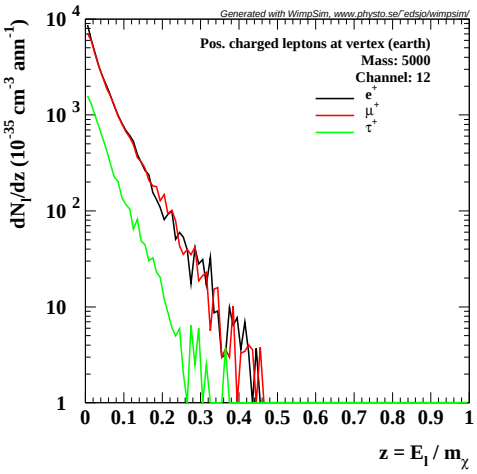
18.7.4 Neutrino fluxes at detector (Earth)



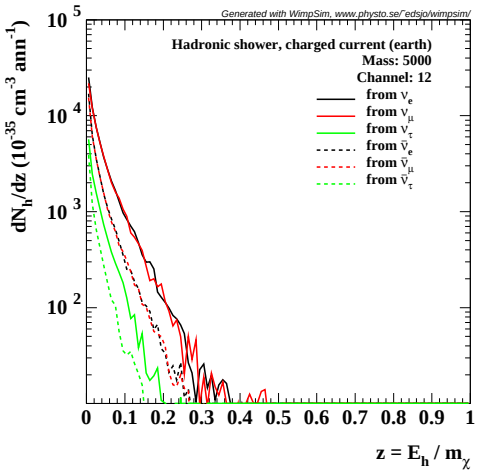


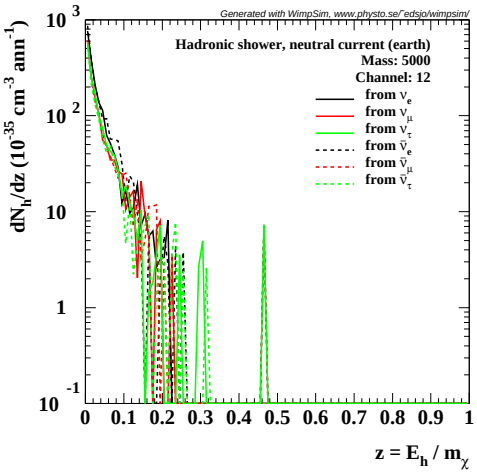
18.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



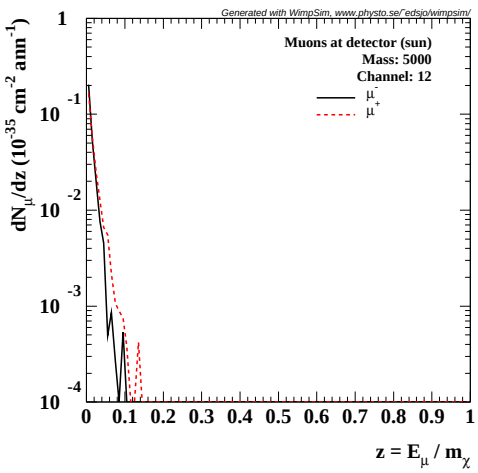


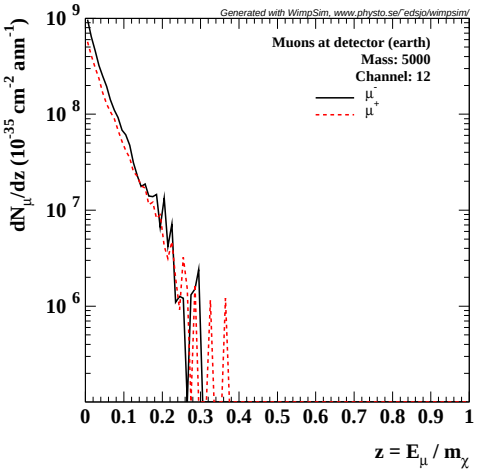
18.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





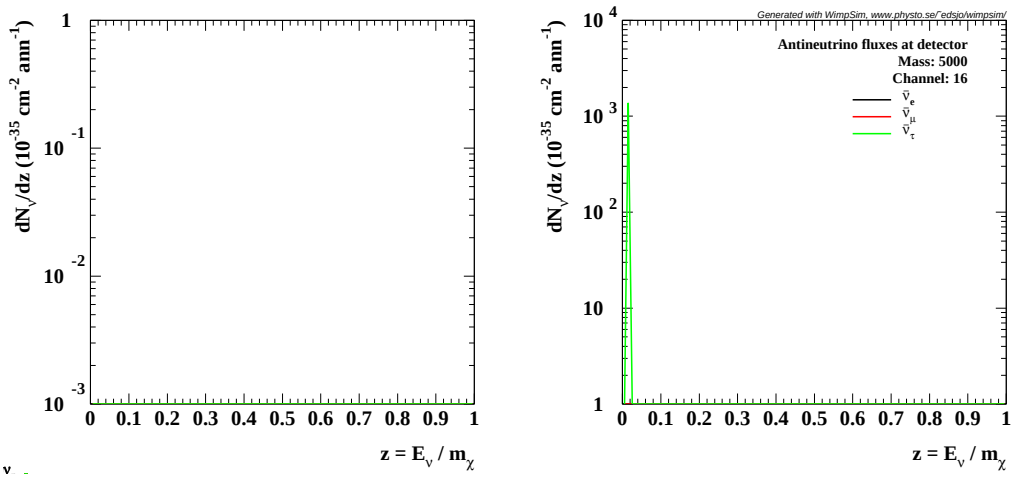
18.7.7 Muons at detector (Sun/Earth)



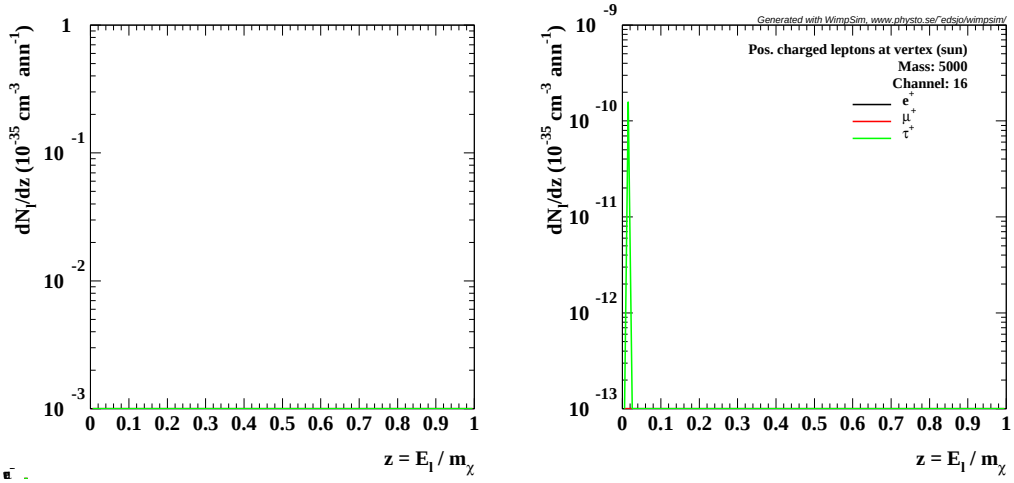


18.8 Channel 16 – $\nu_e\bar{\nu}_e$

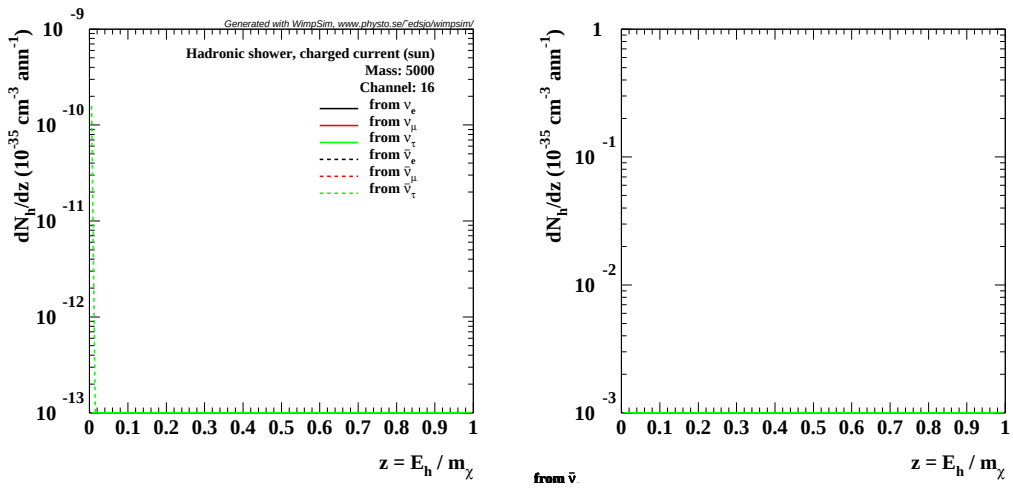
18.8.1 Neutrino fluxes at detector (Sun)



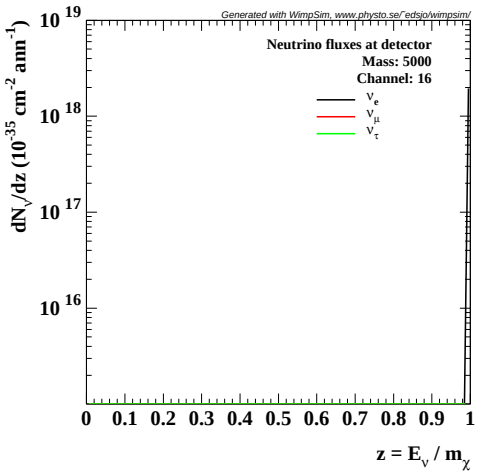
18.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

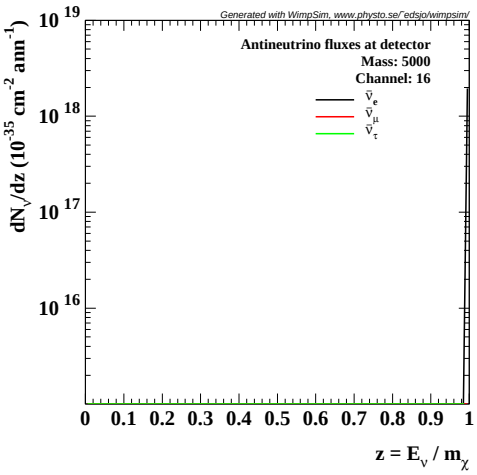


18.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

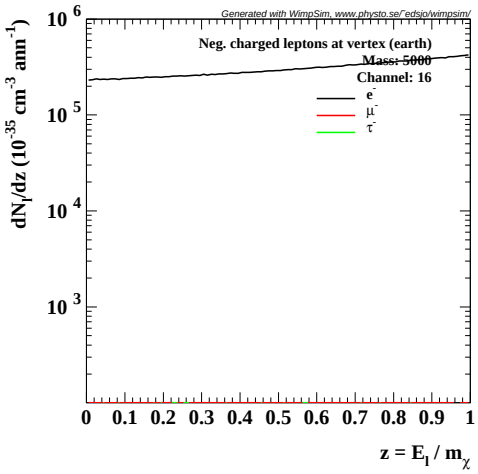


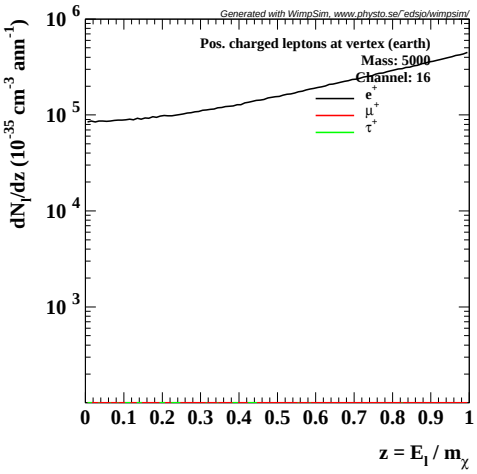
18.8.4 Neutrino fluxes at detector (Earth)



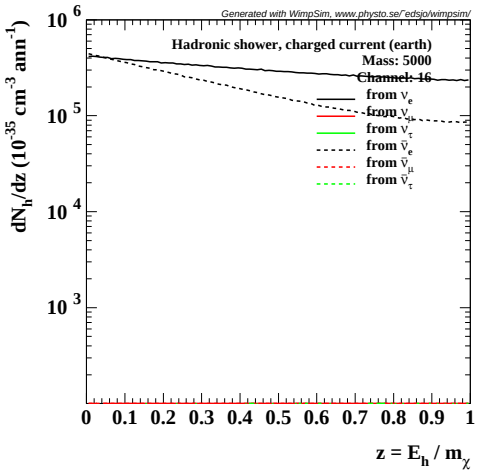


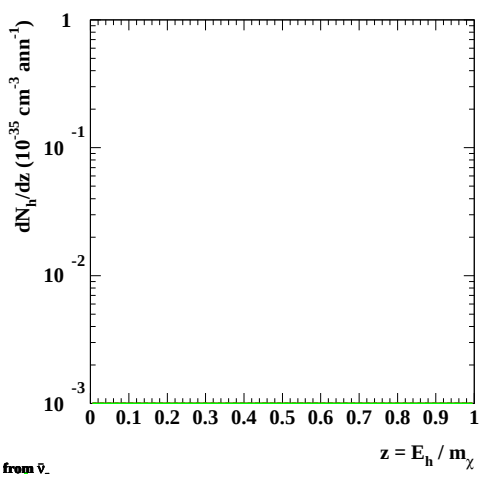
18.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





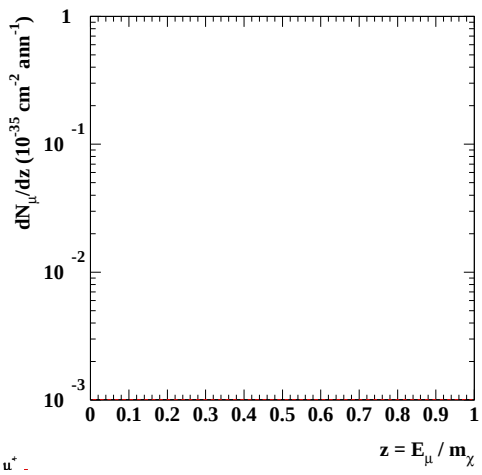
18.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

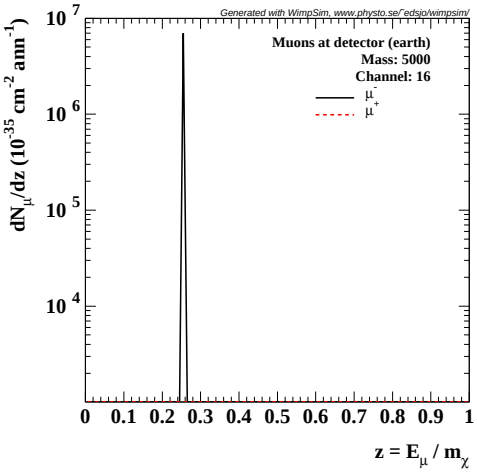




from $\bar{\nu}_\tau$

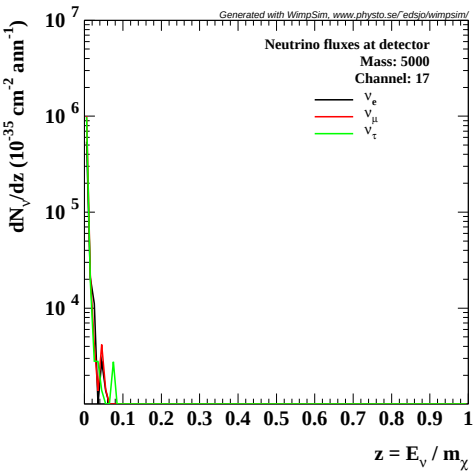
18.8.7 Muons at detector (Sun/Earth)

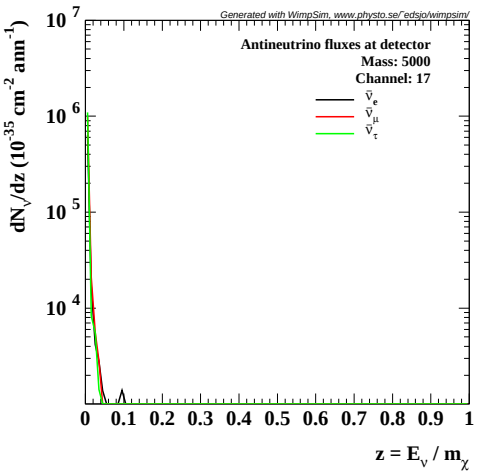




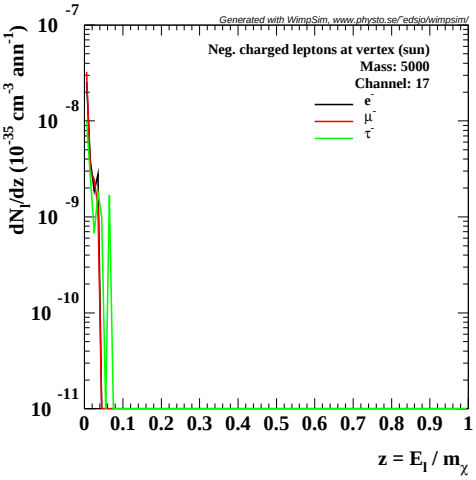
18.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

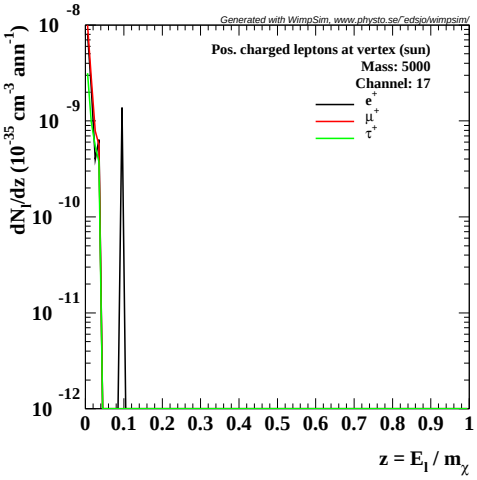
18.9.1 Neutrino fluxes at detector (Sun)



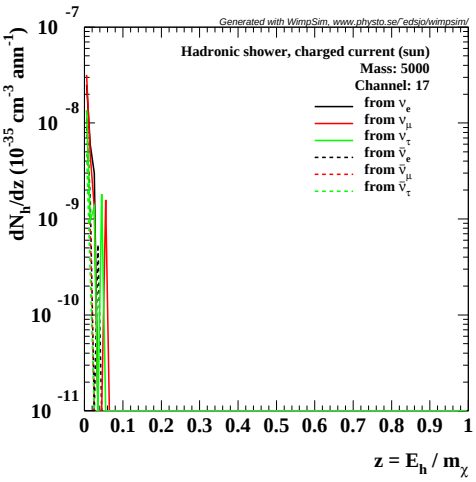


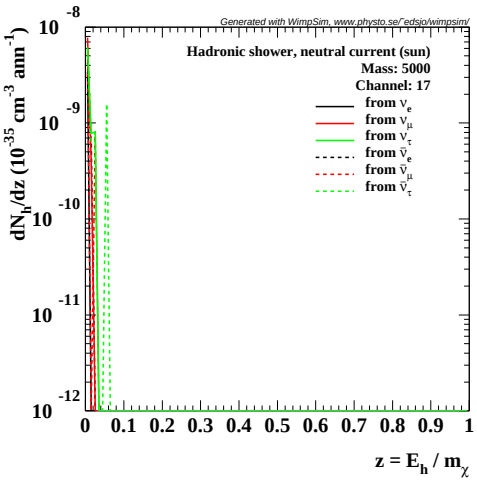
18.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



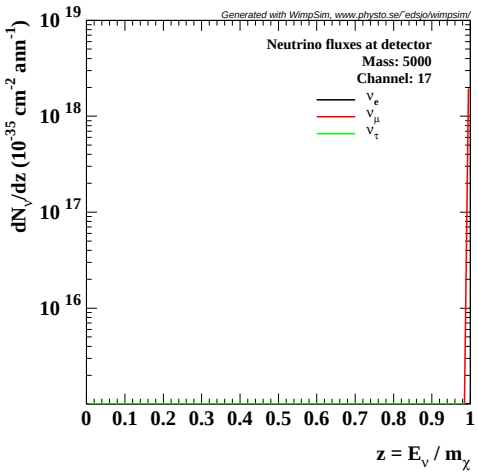


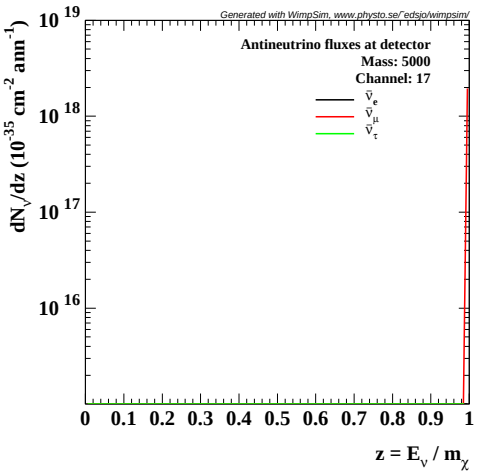
18.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



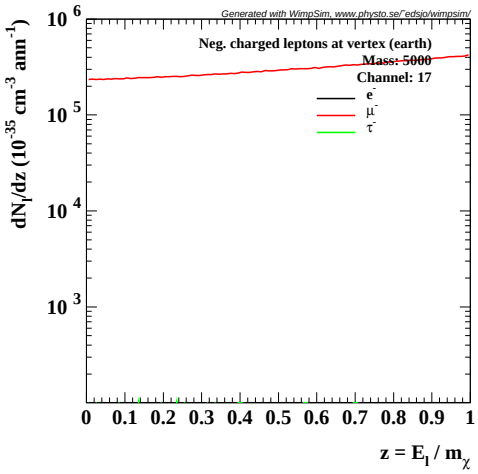


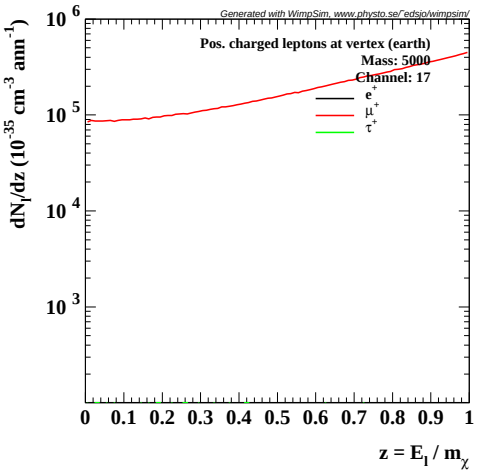
18.9.4 Neutrino fluxes at detector (Earth)



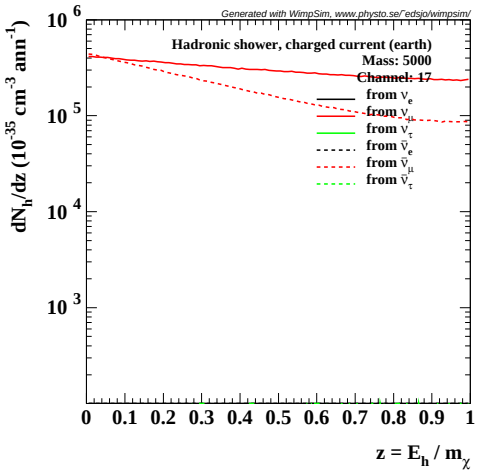


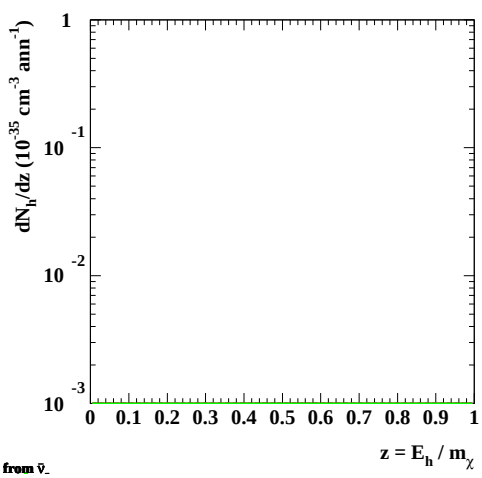
18.9.5 Charged leptons at neutrino-nucleon vertex (Earth)



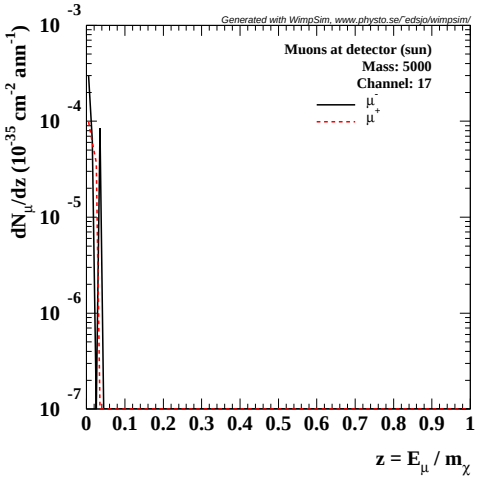


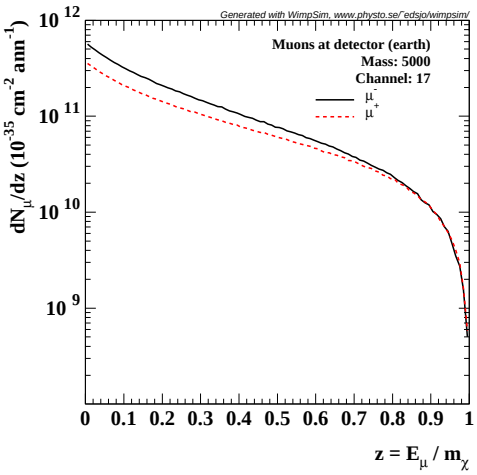
18.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)





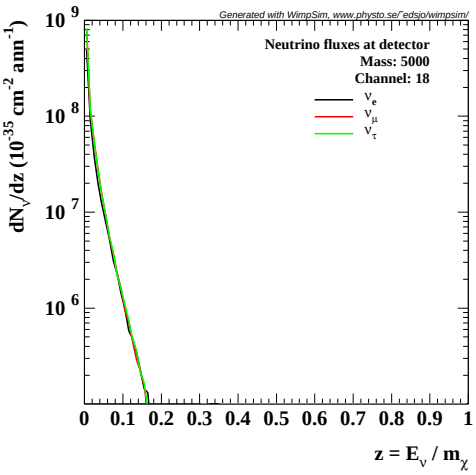
18.9.7 Muons at detector (Sun/Earth)

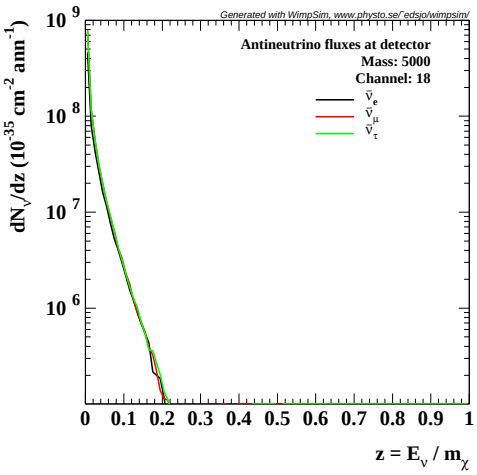




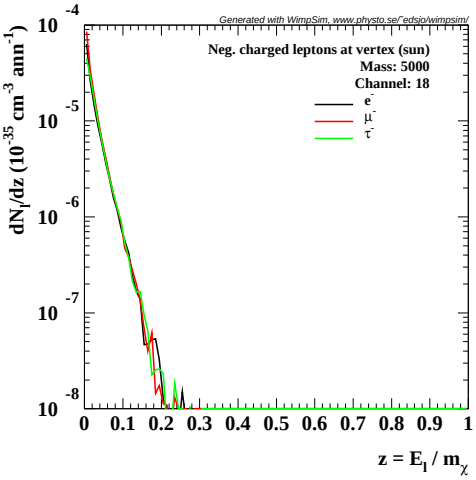
18.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

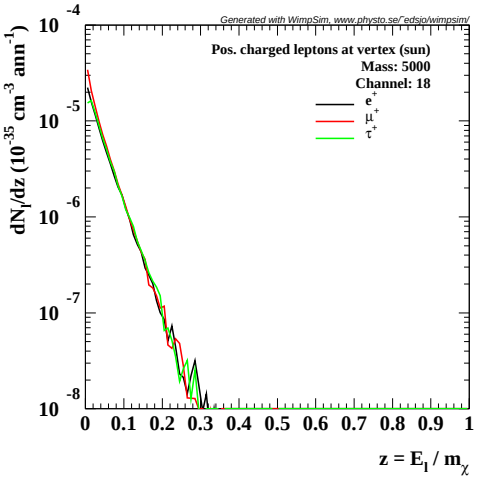
18.10.1 Neutrino fluxes at detector (Sun)



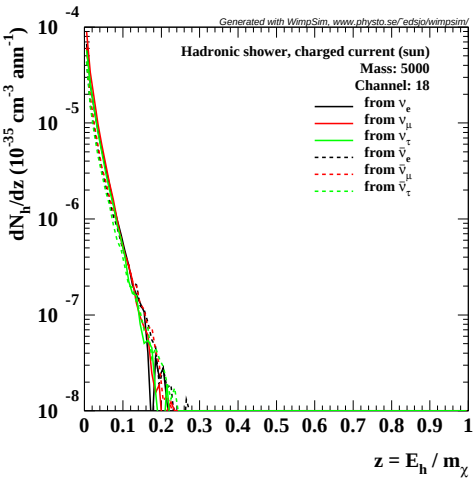


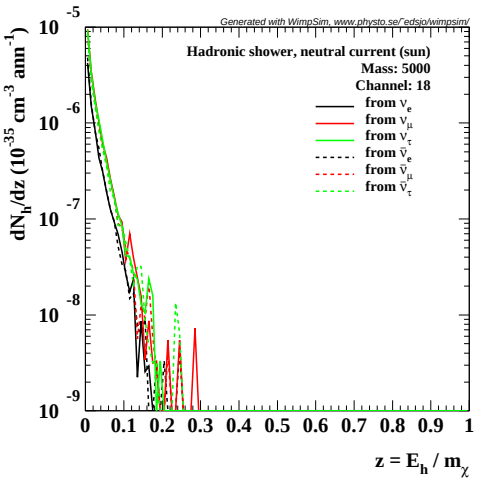
18.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



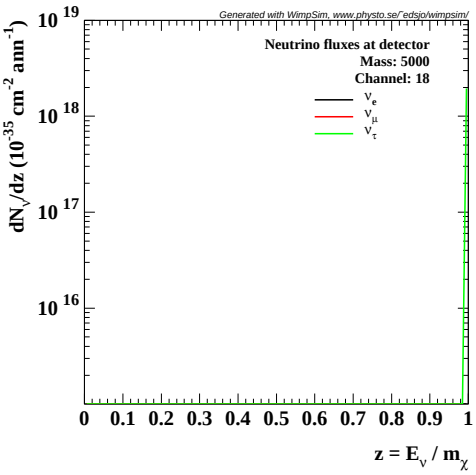


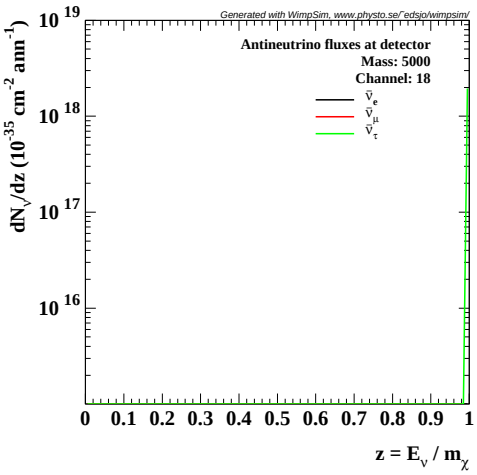
18.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



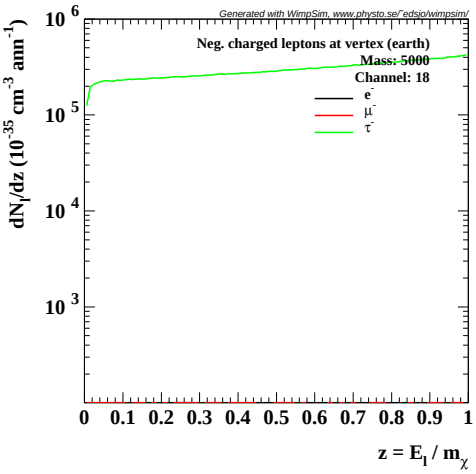


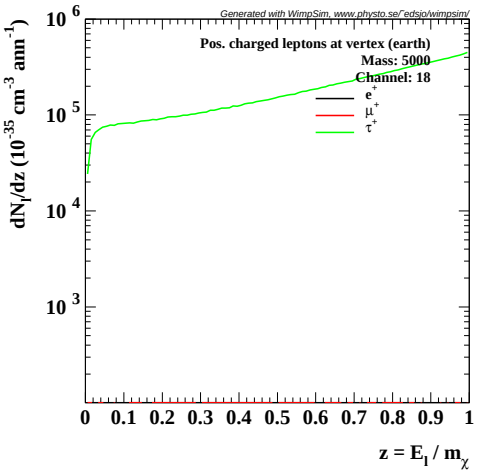
18.10.4 Neutrino fluxes at detector (Earth)



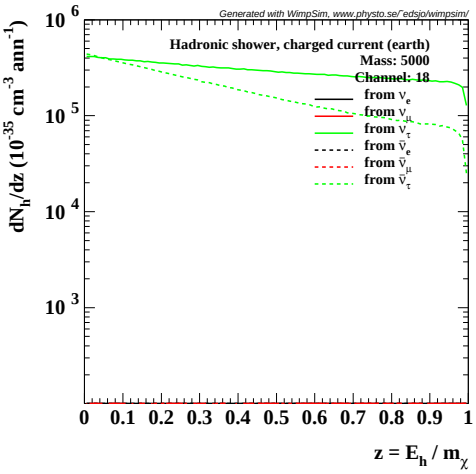


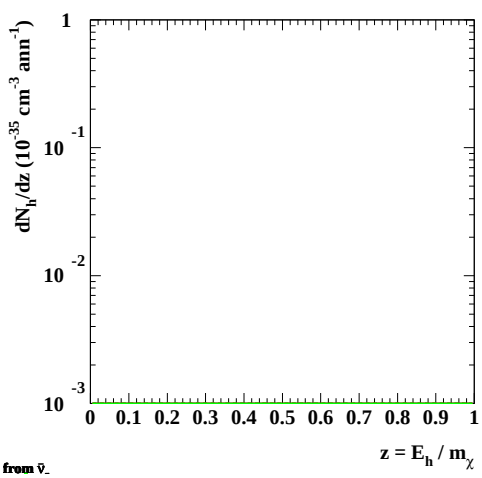
18.10.5 Charged leptons at neutrino-nucleon vertex (Earth)





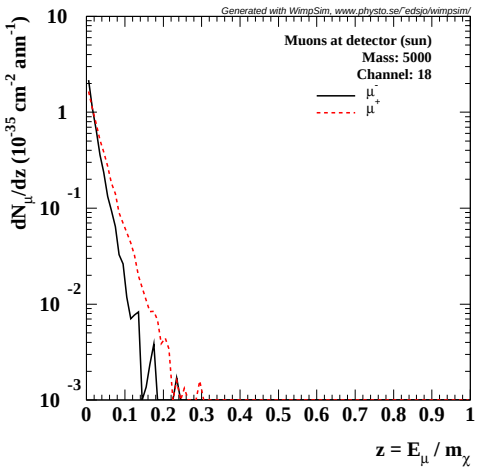
18.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)

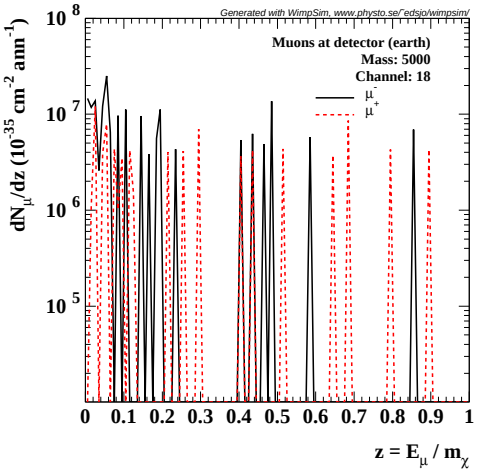




from $\bar{\nu}_\tau$

18.10.7 Muons at detector (Sun/Earth)

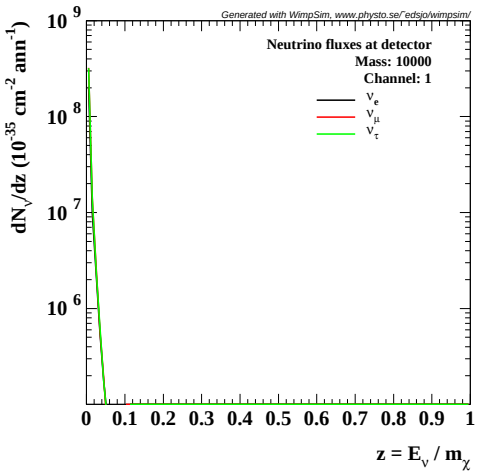


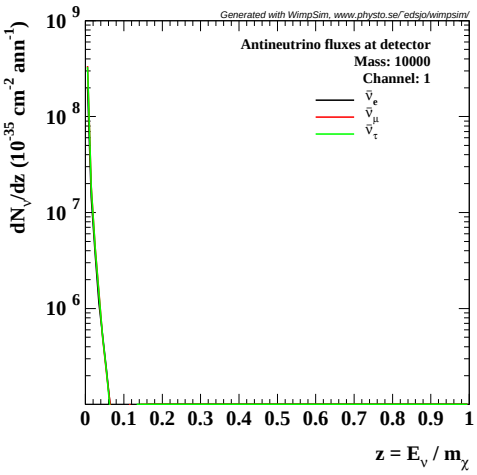


19 Mass 10000

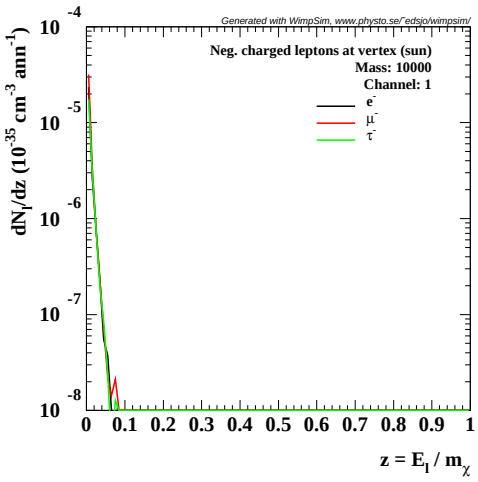
19.1 Channel 1 – $c\bar{c}$

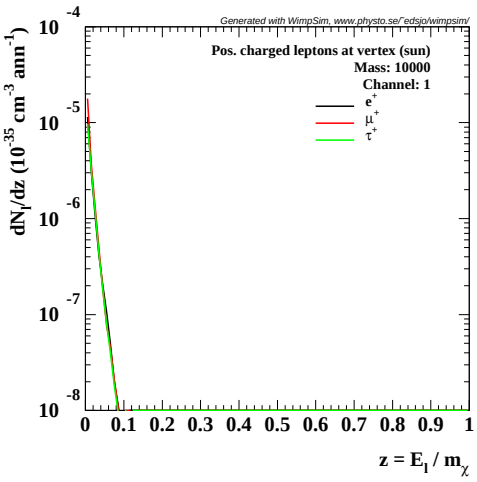
19.1.1 Neutrino fluxes at detector (Sun)



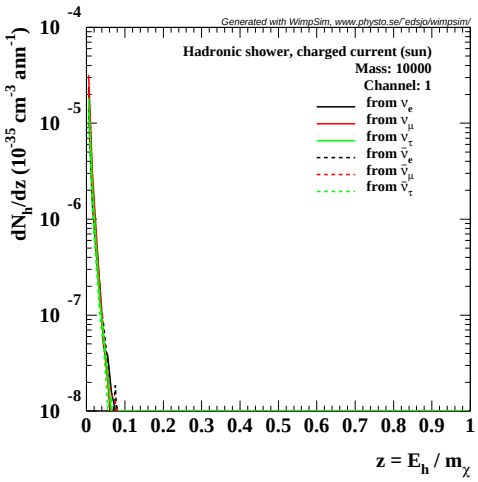


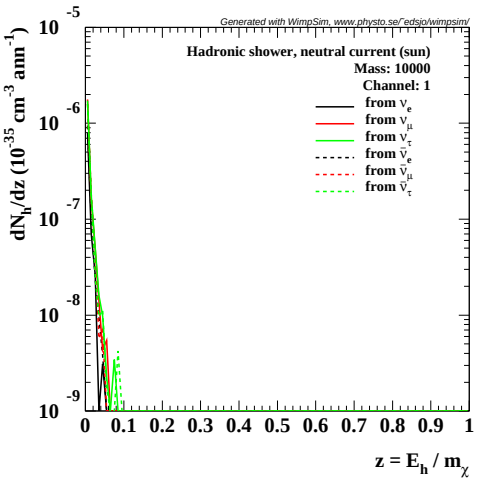
19.1.2 Charged leptons at neutrino-nucleon vertex (Sun)



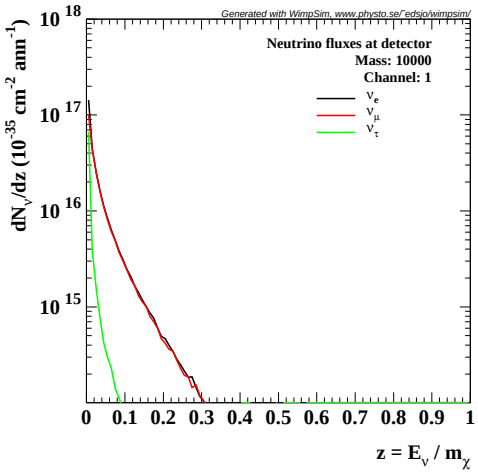


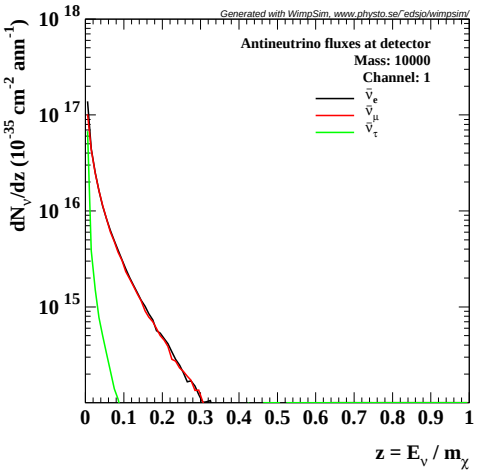
19.1.3 Hadronic shower at neutrino-nucleon vertex (Sun)



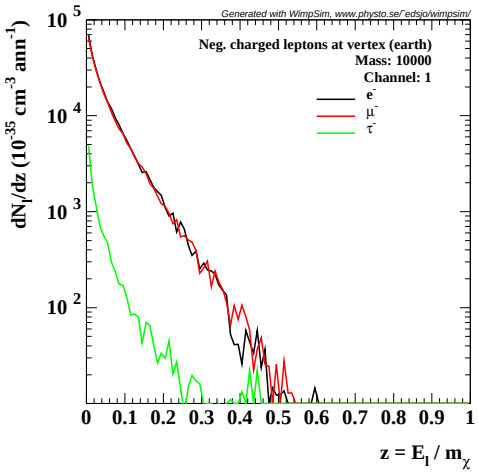


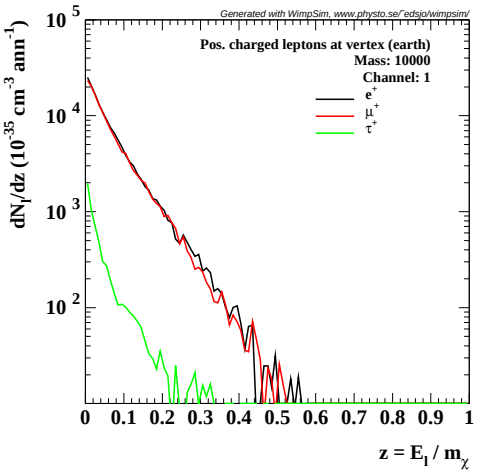
19.1.4 Neutrino fluxes at detector (Earth)



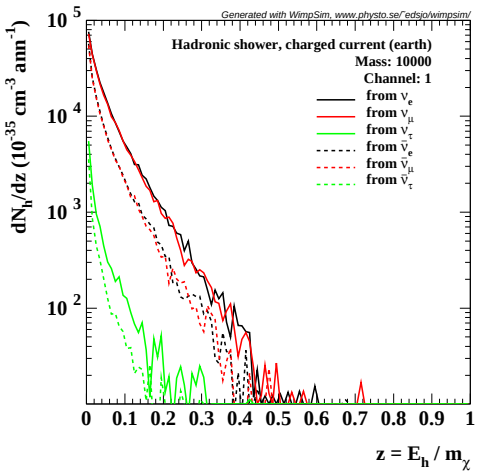


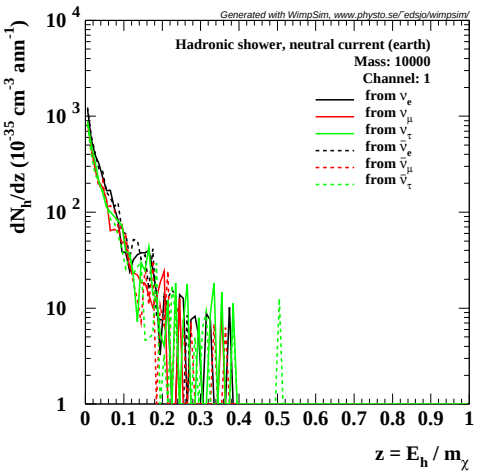
19.1.5 Charged leptons at neutrino-nucleon vertex (Earth)



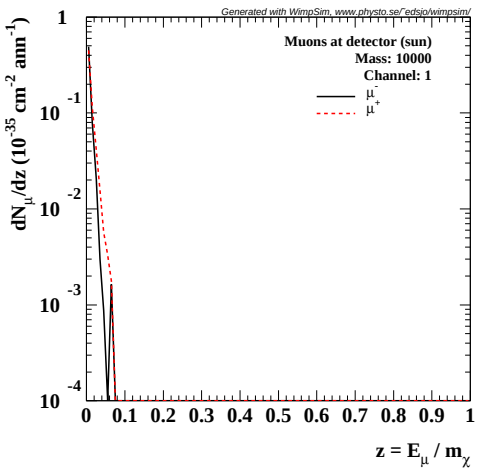


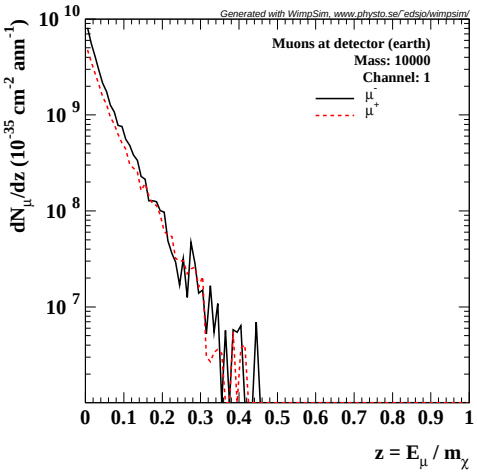
19.1.6 Hadronic shower at neutrino-nucleon vertex (Earth)





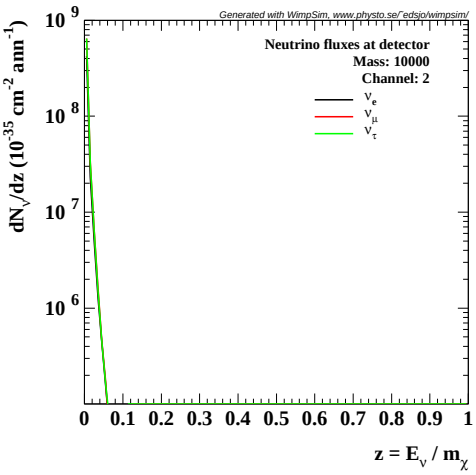
19.1.7 Muons at detector (Sun/Earth)

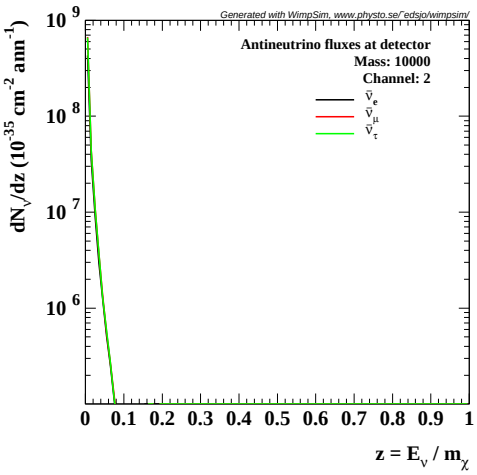




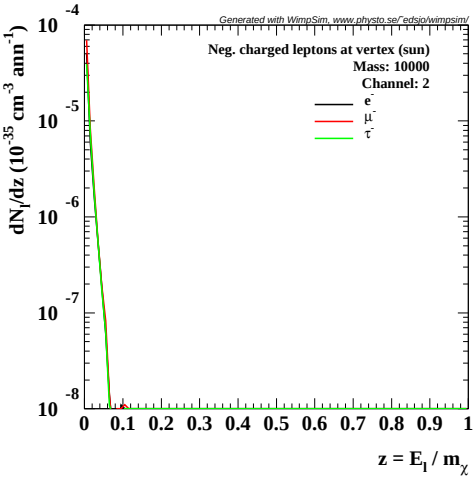
19.2 Channel 2 – $b\bar{b}$

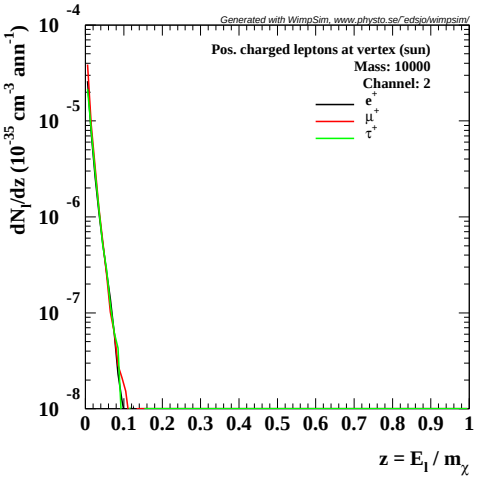
19.2.1 Neutrino fluxes at detector (Sun)



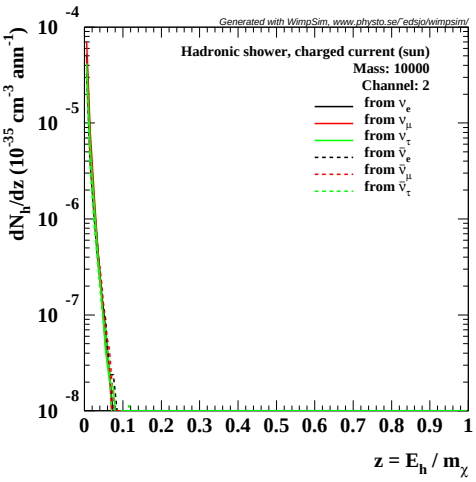


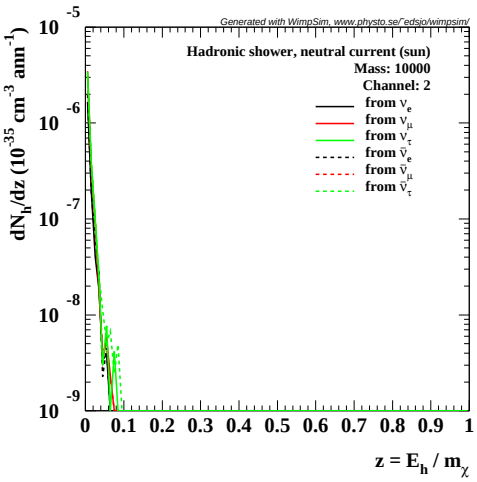
19.2.2 Charged leptons at neutrino-nucleon vertex (Sun)



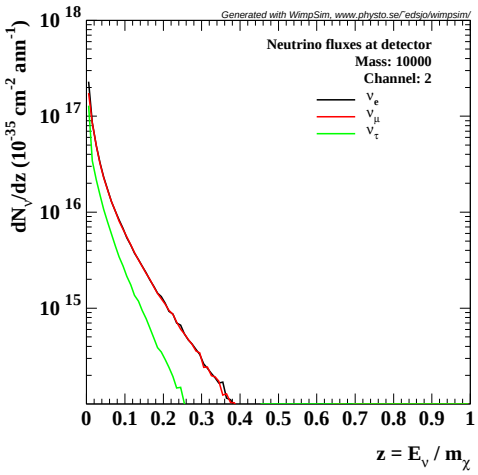


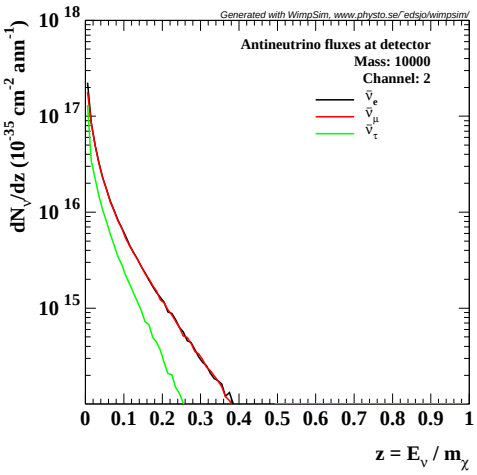
19.2.3 Hadronic shower at neutrino-nucleon vertex (Sun)



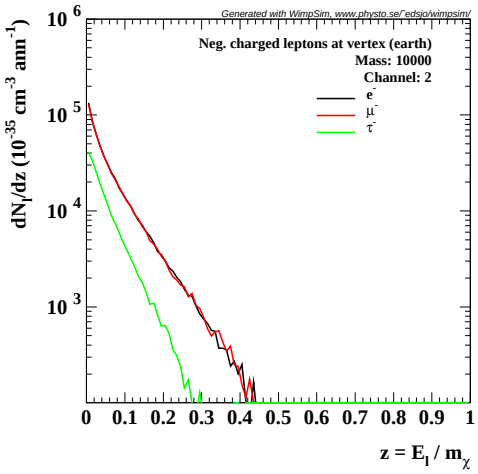


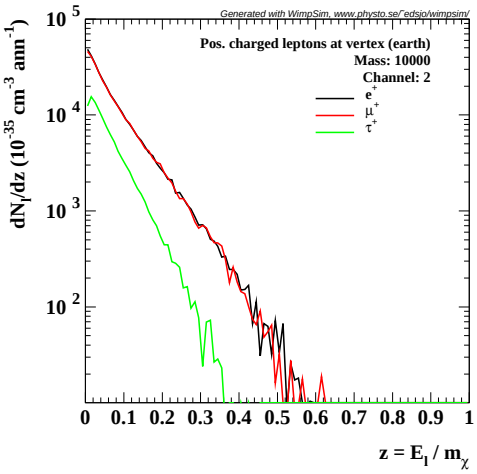
19.2.4 Neutrino fluxes at detector (Earth)



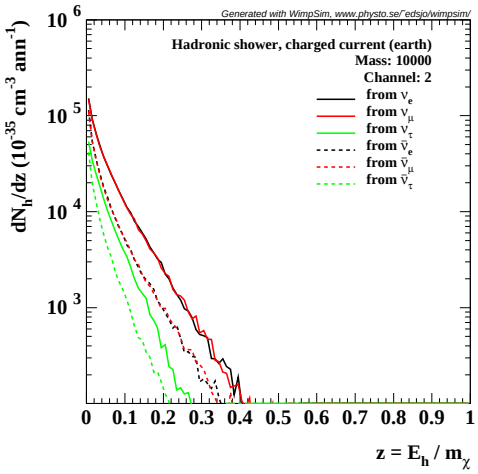


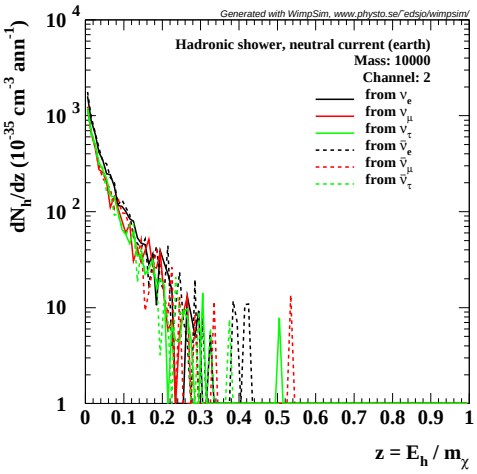
19.2.5 Charged leptons at neutrino-nucleon vertex (Earth)



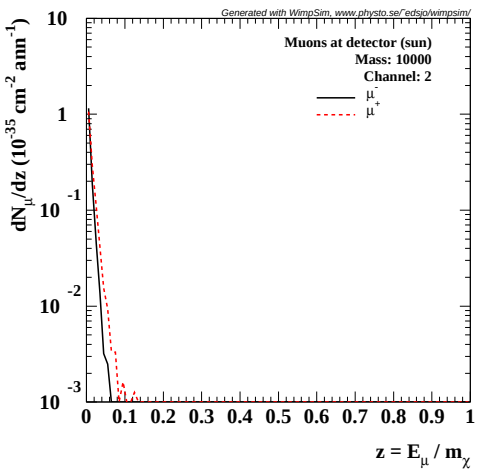


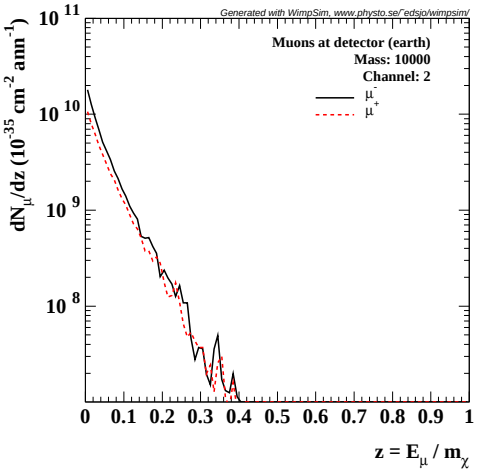
19.2.6 Hadronic shower at neutrino-nucleon vertex (Earth)





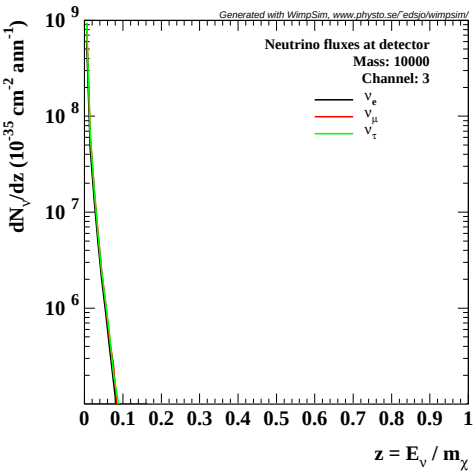
19.2.7 Muons at detector (Sun/Earth)

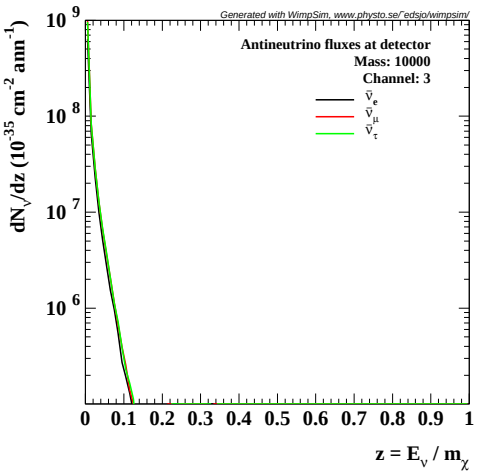




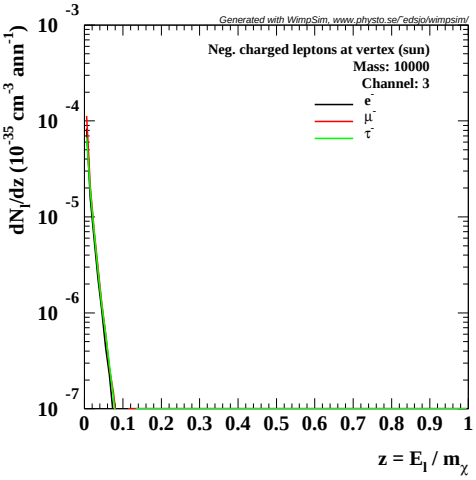
19.3 Channel 3 – $t\bar{t}$

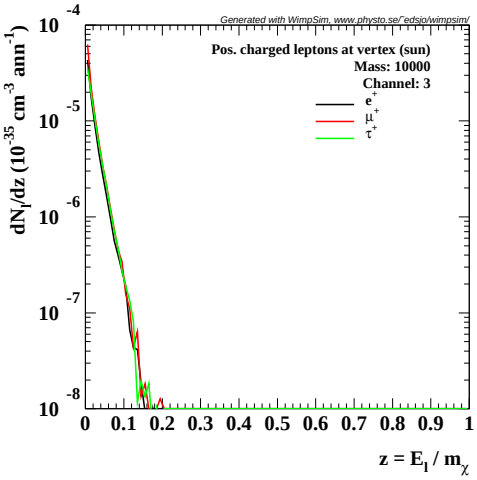
19.3.1 Neutrino fluxes at detector (Sun)



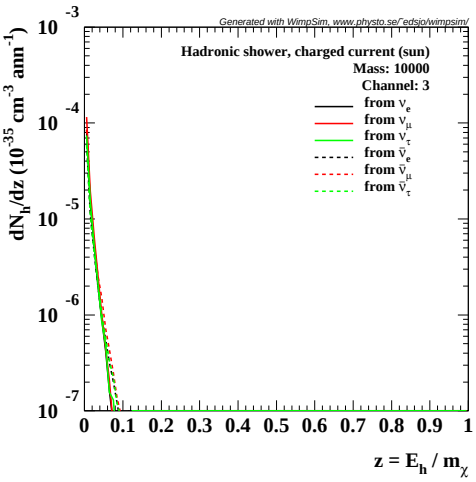


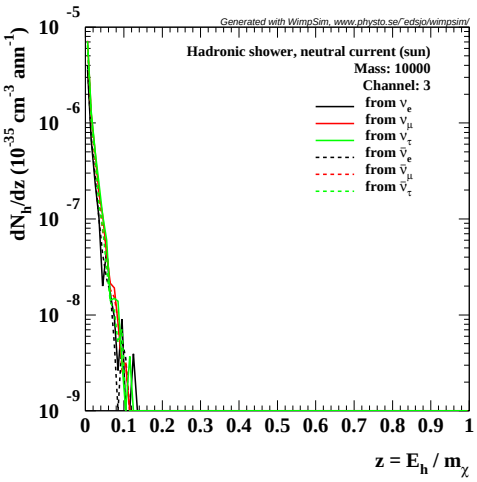
19.3.2 Charged leptons at neutrino-nucleon vertex (Sun)



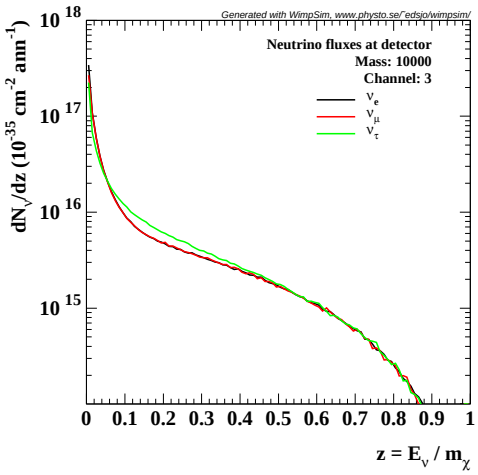


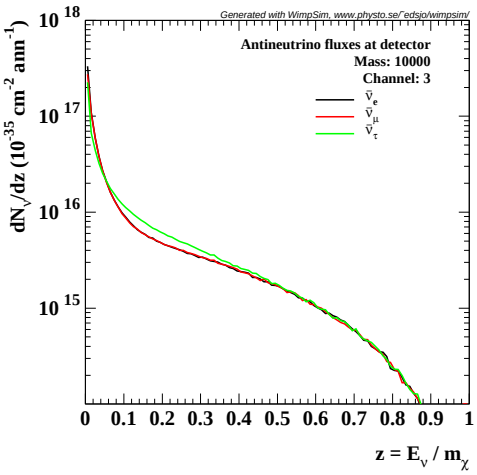
19.3.3 Hadronic shower at neutrino-nucleon vertex (Sun)



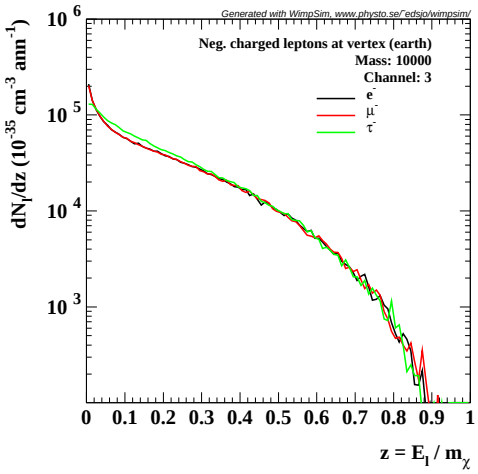


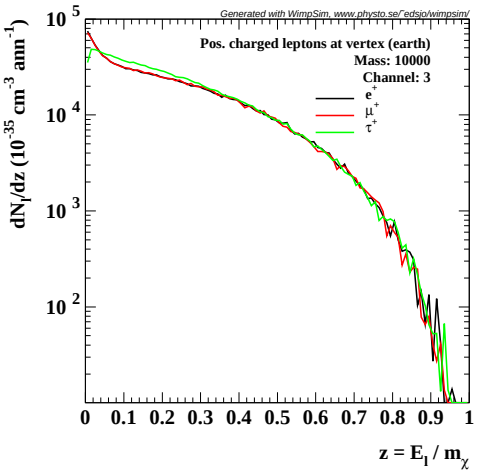
19.3.4 Neutrino fluxes at detector (Earth)



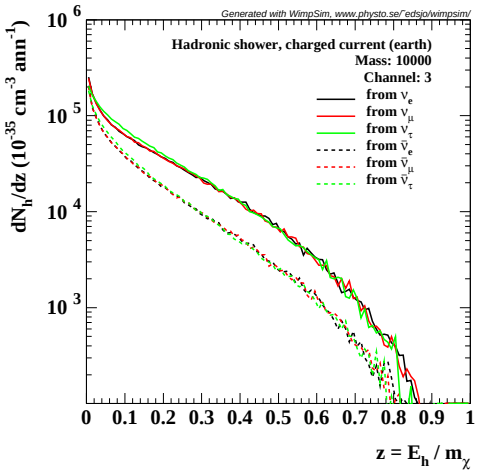


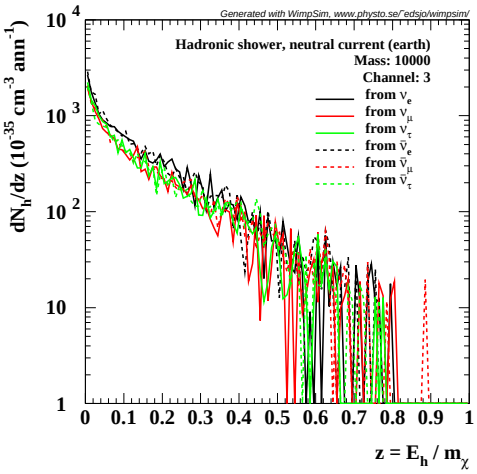
19.3.5 Charged leptons at neutrino-nucleon vertex (Earth)



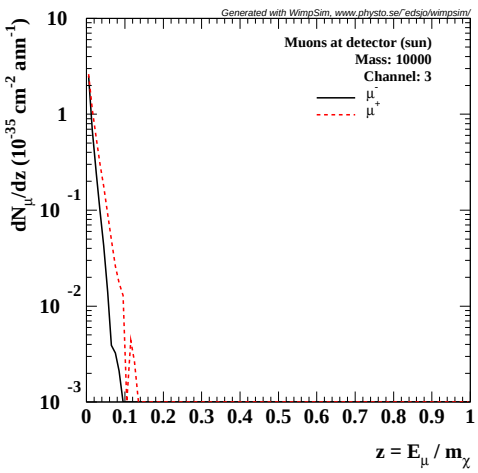


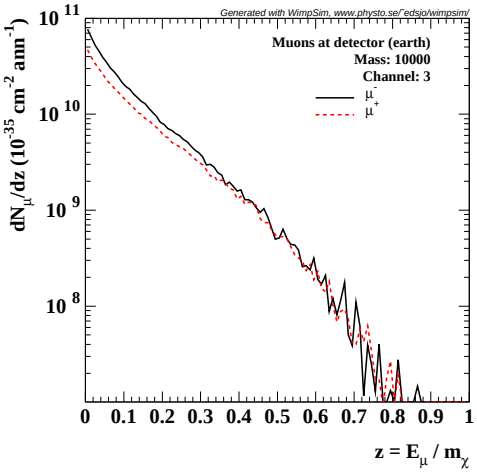
19.3.6 Hadronic shower at neutrino-nucleon vertex (Earth)





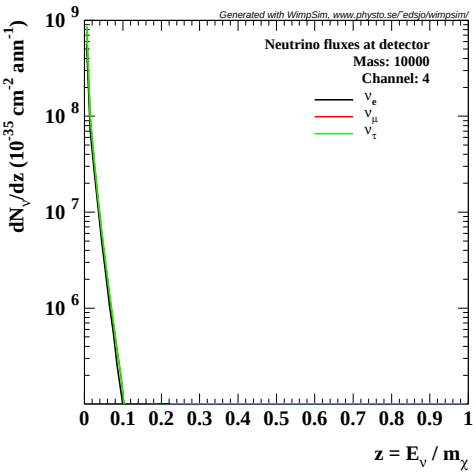
19.3.7 Muons at detector (Sun/Earth)

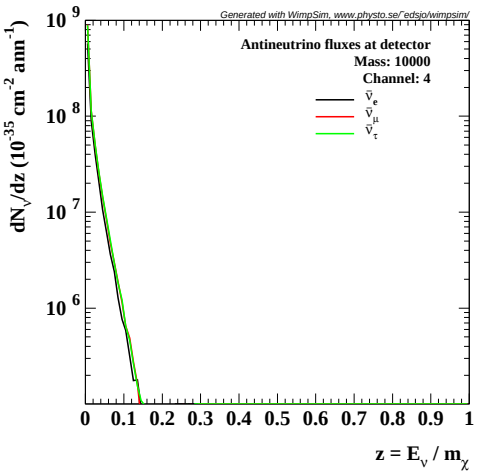




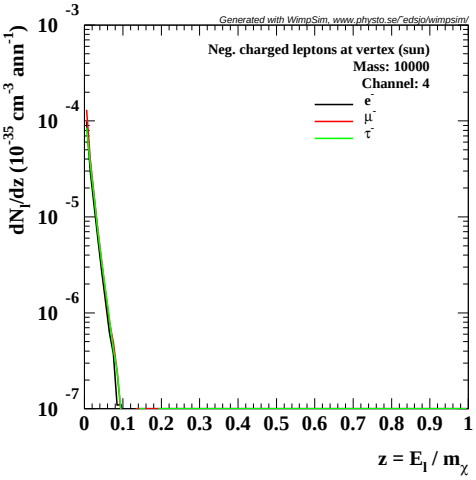
19.4 Channel 4 – $\tau^-\tau^+$

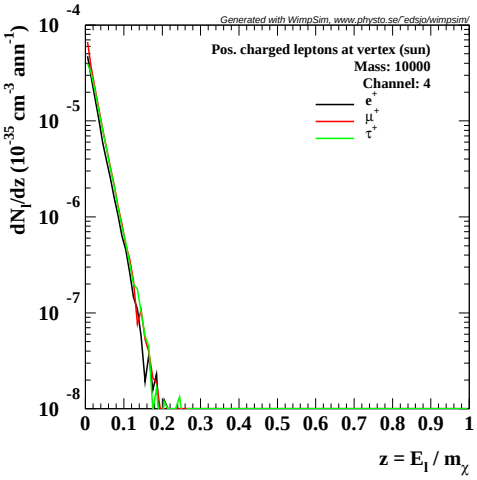
19.4.1 Neutrino fluxes at detector (Sun)



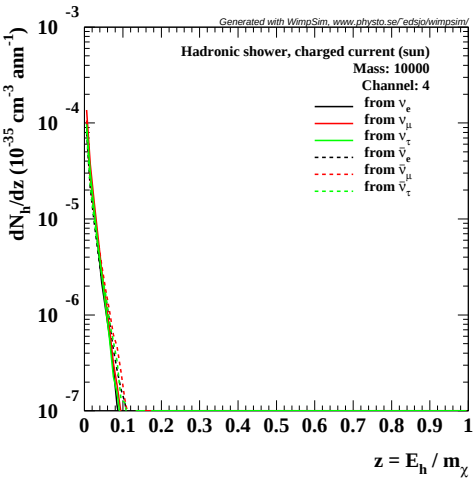


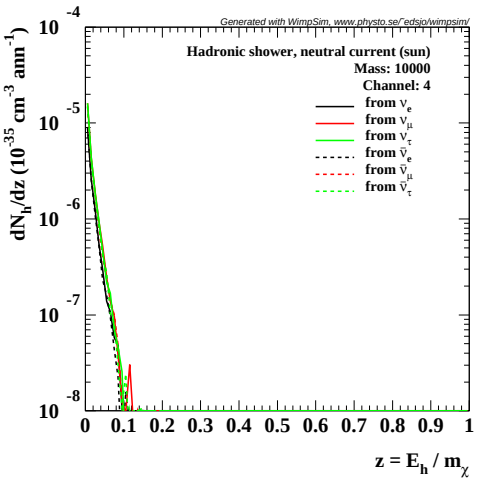
19.4.2 Charged leptons at neutrino-nucleon vertex (Sun)



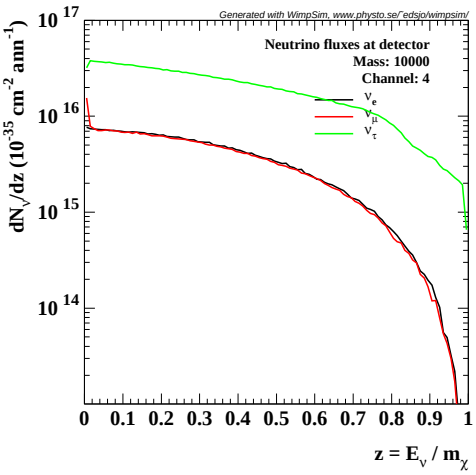


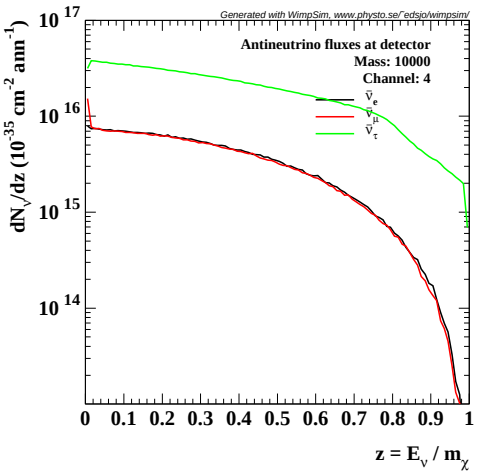
19.4.3 Hadronic shower at neutrino-nucleon vertex (Sun)



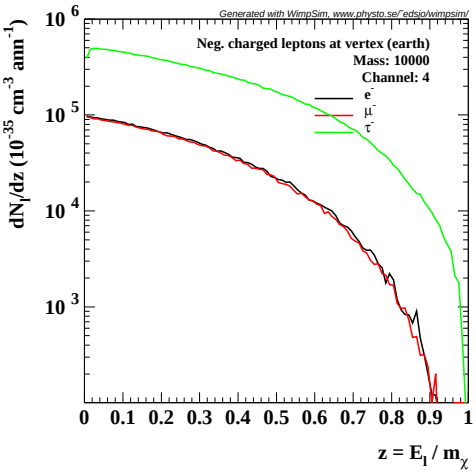


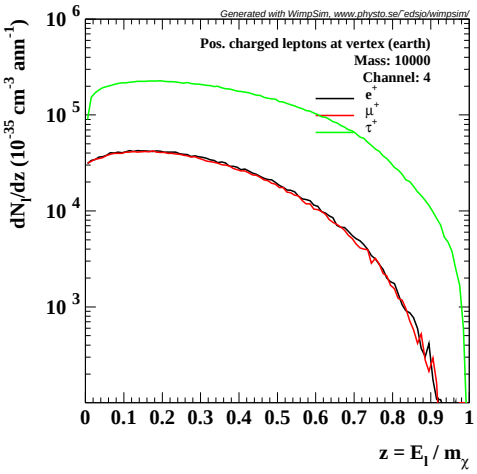
19.4.4 Neutrino fluxes at detector (Earth)



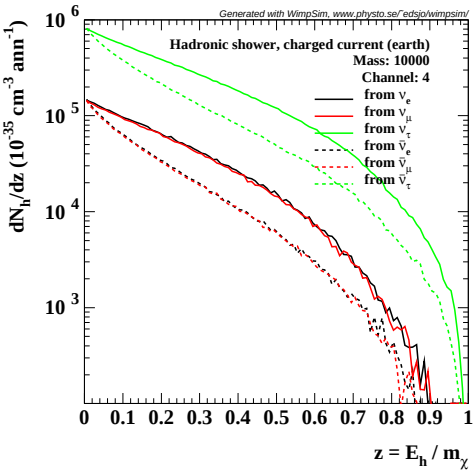


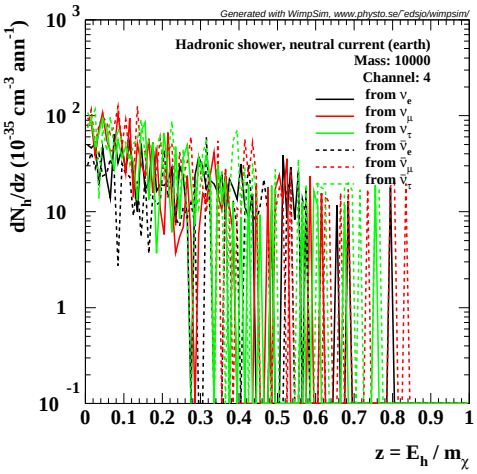
19.4.5 Charged leptons at neutrino-nucleon vertex (Earth)



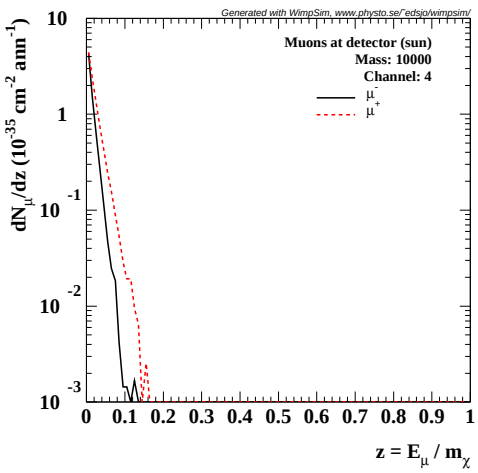


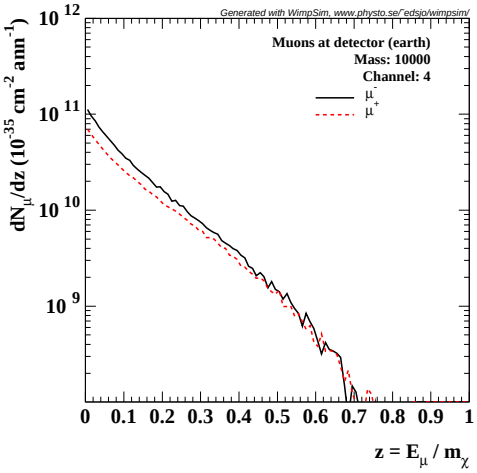
19.4.6 Hadronic shower at neutrino-nucleon vertex (Earth)





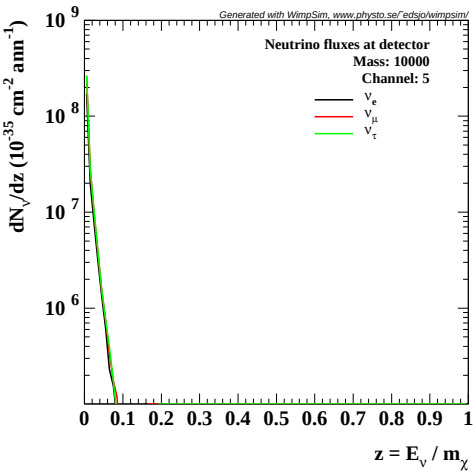
19.4.7 Muons at detector (Sun/Earth)

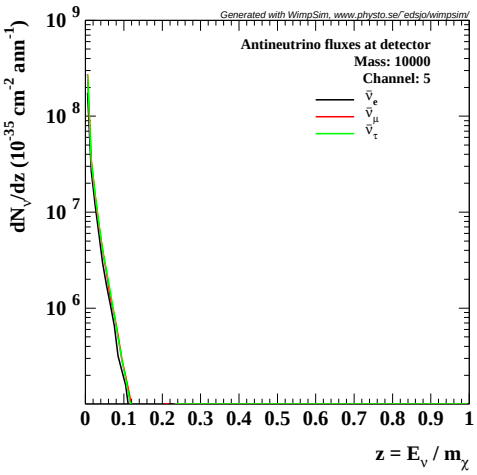




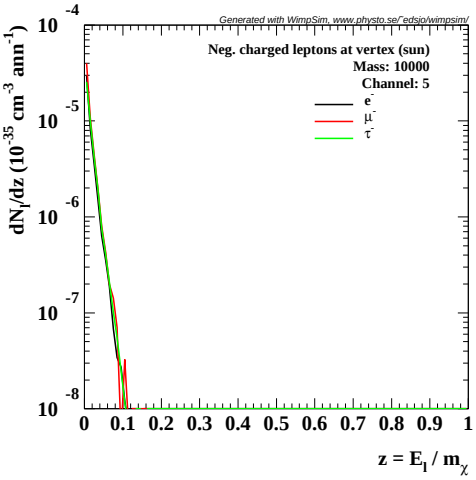
19.5 Channel 5 – W^-W^+

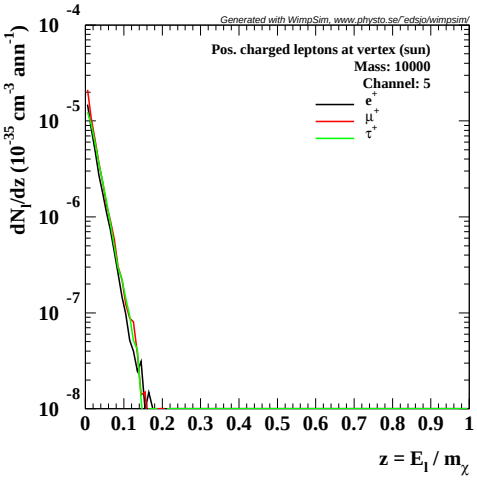
19.5.1 Neutrino fluxes at detector (Sun)



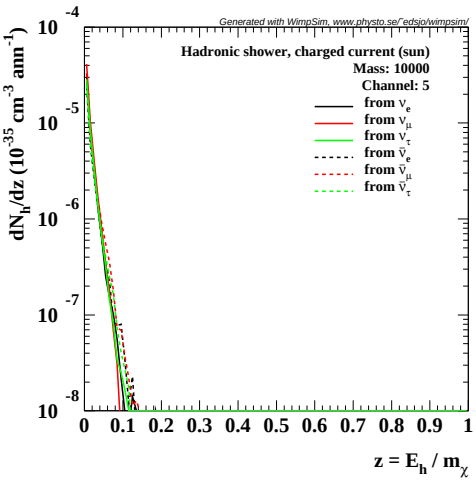


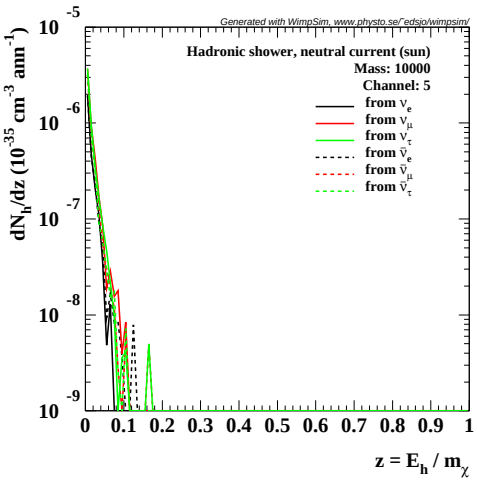
19.5.2 Charged leptons at neutrino-nucleon vertex (Sun)



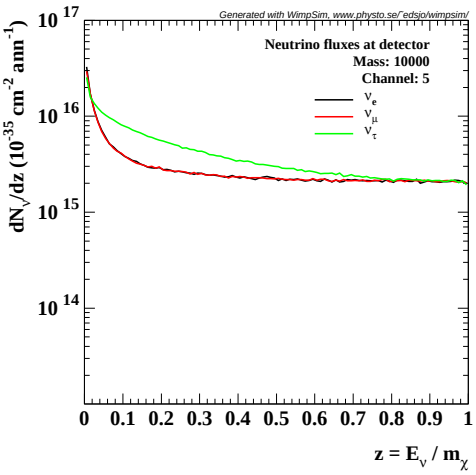


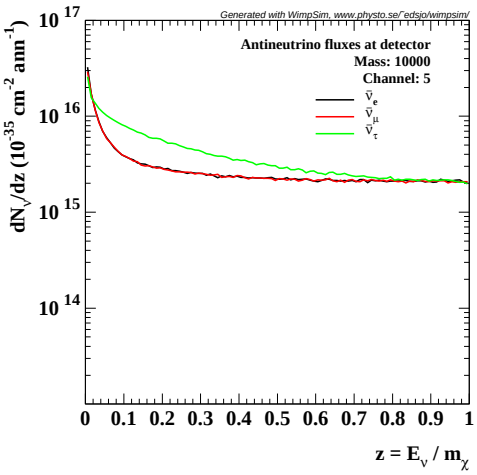
19.5.3 Hadronic shower at neutrino-nucleon vertex (Sun)



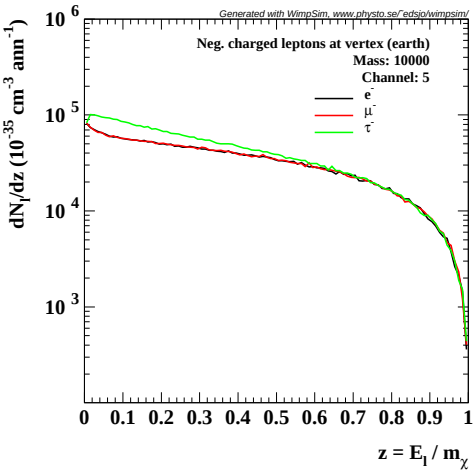


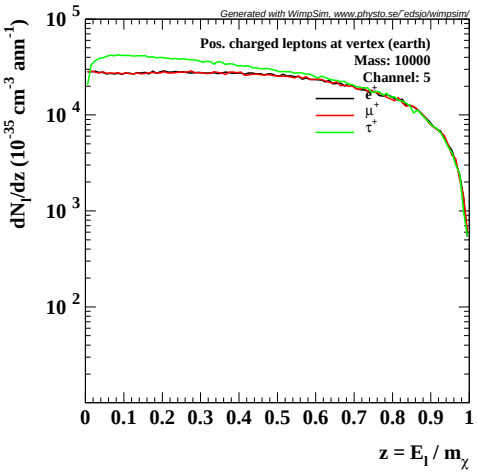
19.5.4 Neutrino fluxes at detector (Earth)



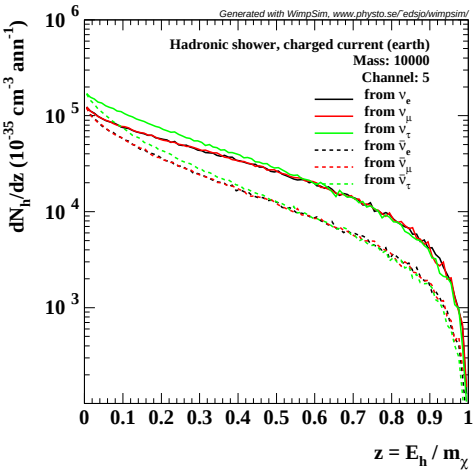


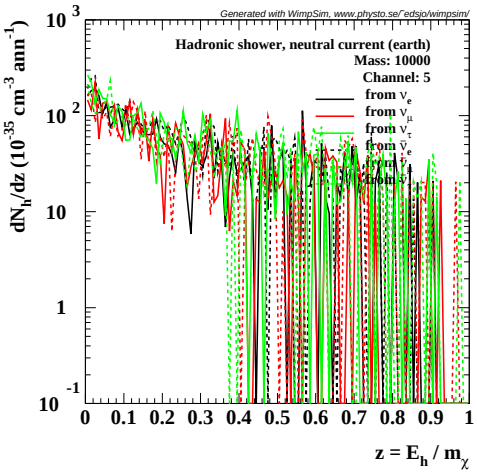
19.5.5 Charged leptons at neutrino-nucleon vertex (Earth)



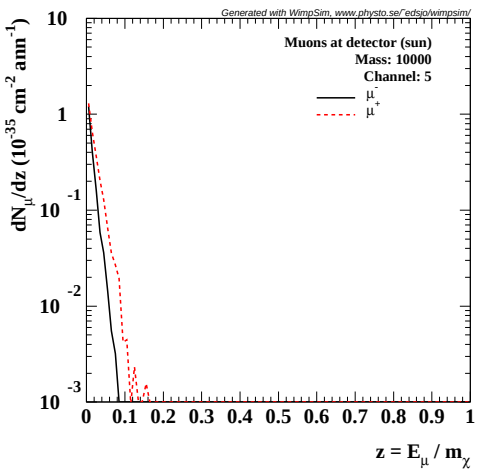


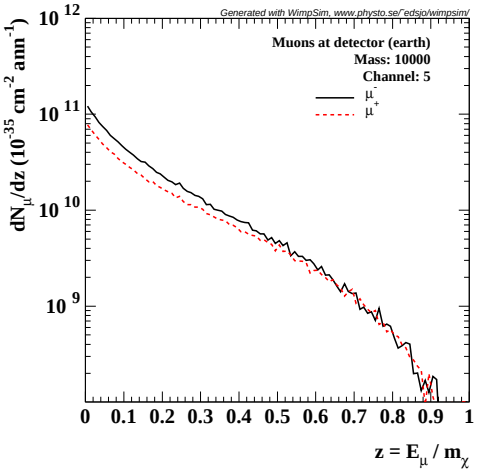
19.5.6 Hadronic shower at neutrino-nucleon vertex (Earth)





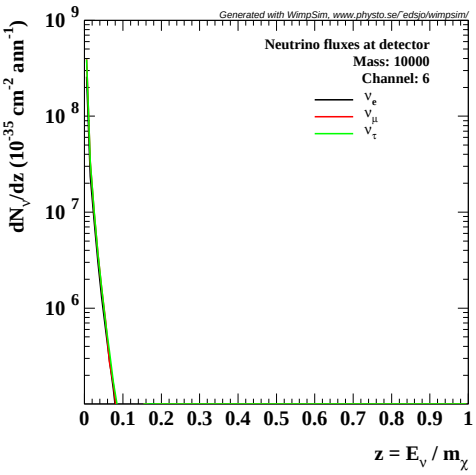
19.5.7 Muons at detector (Sun/Earth)

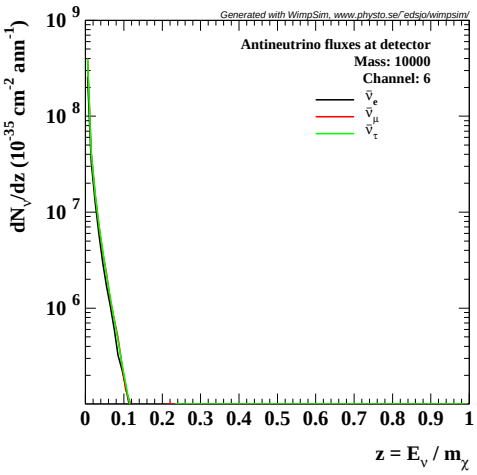




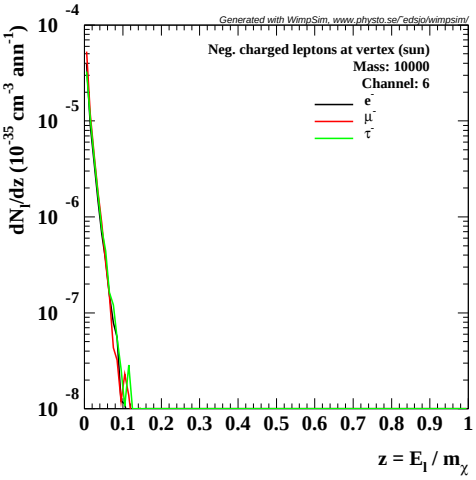
19.6 Channel 6 – $Z^0 Z^0$

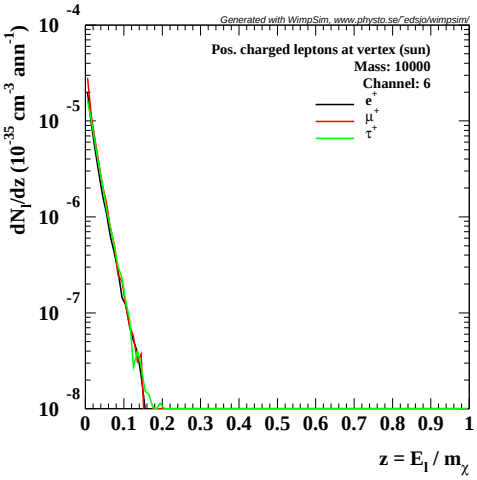
19.6.1 Neutrino fluxes at detector (Sun)



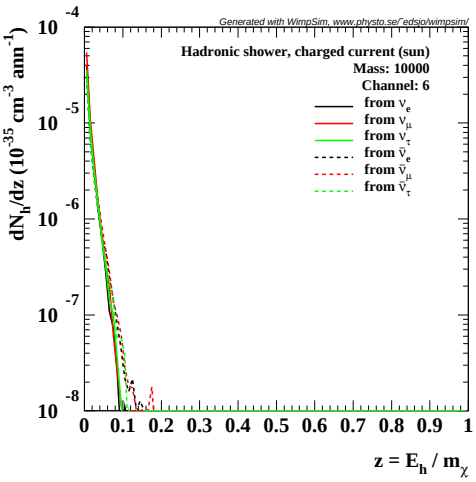


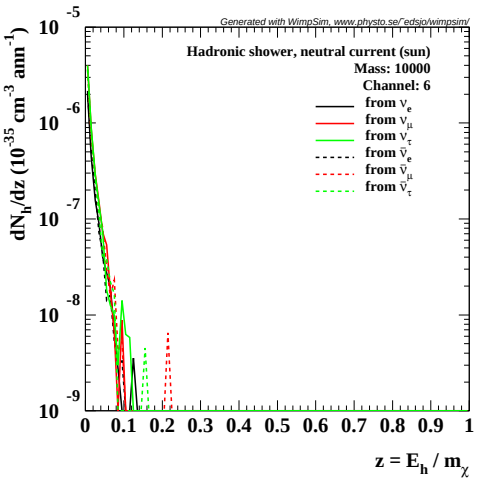
19.6.2 Charged leptons at neutrino-nucleon vertex (Sun)



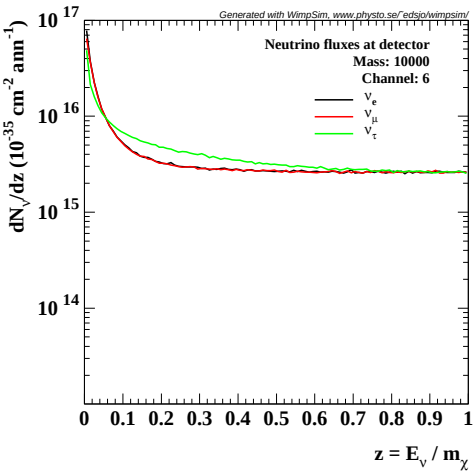


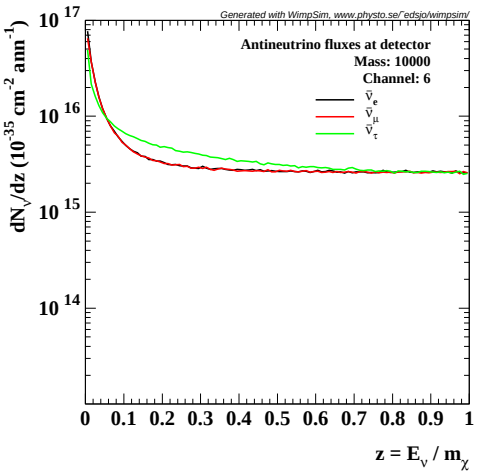
19.6.3 Hadronic shower at neutrino-nucleon vertex (Sun)



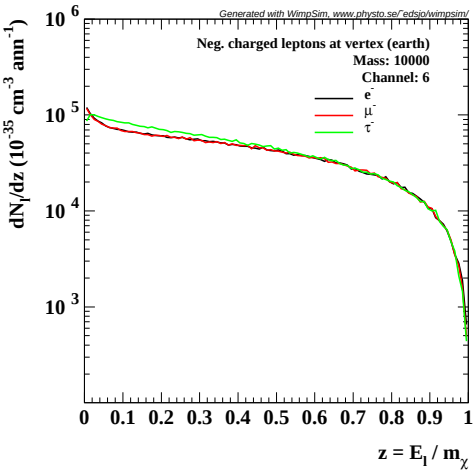


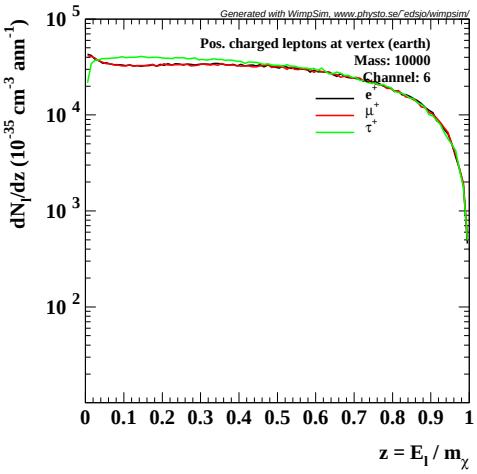
19.6.4 Neutrino fluxes at detector (Earth)



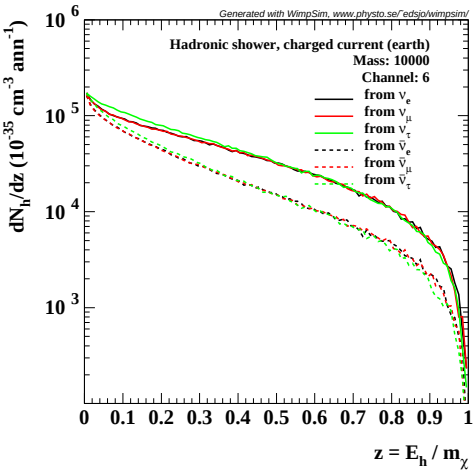


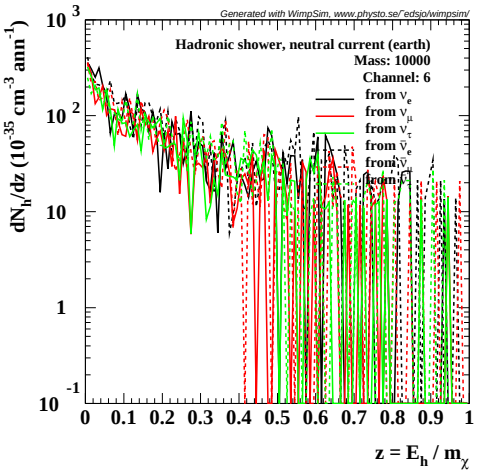
19.6.5 Charged leptons at neutrino-nucleon vertex (Earth)



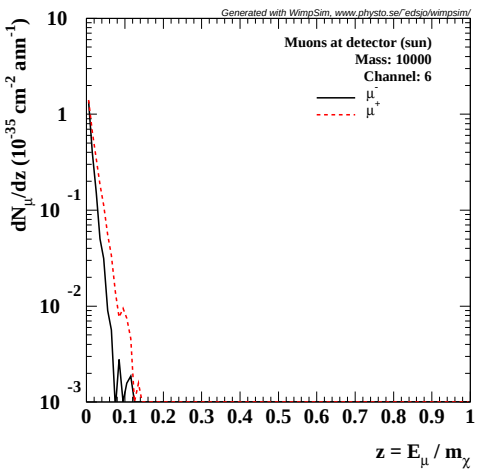


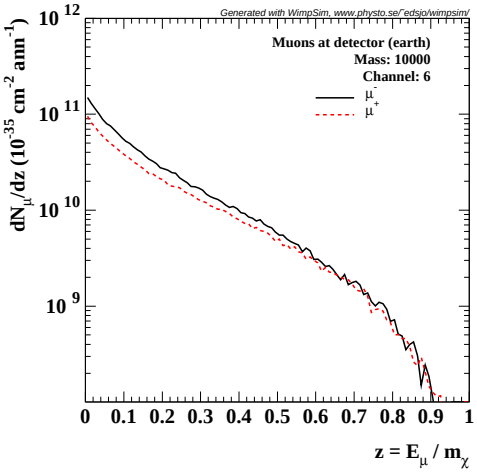
19.6.6 Hadronic shower at neutrino-nucleon vertex (Earth)





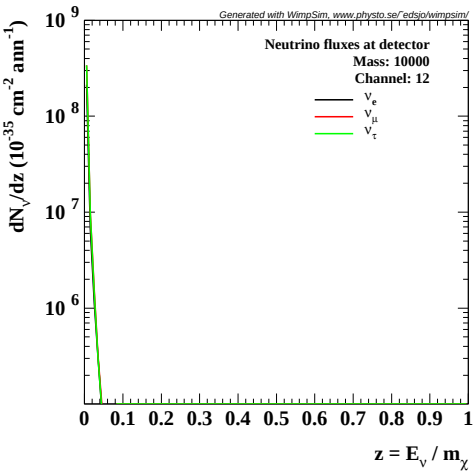
19.6.7 Muons at detector (Sun/Earth)

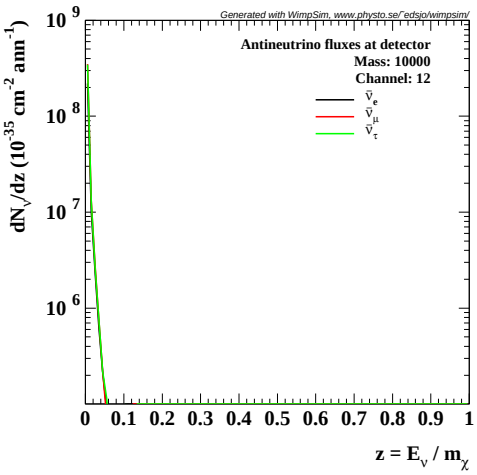




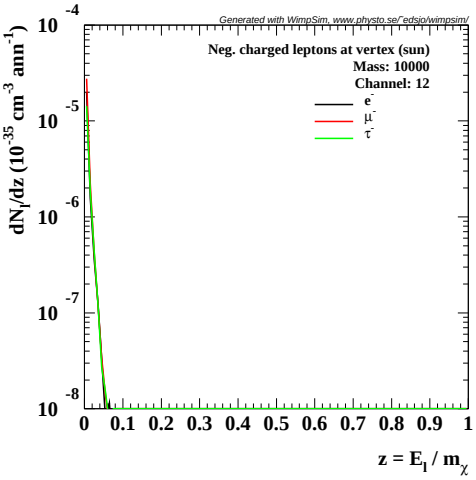
19.7 Channel 12 – gg

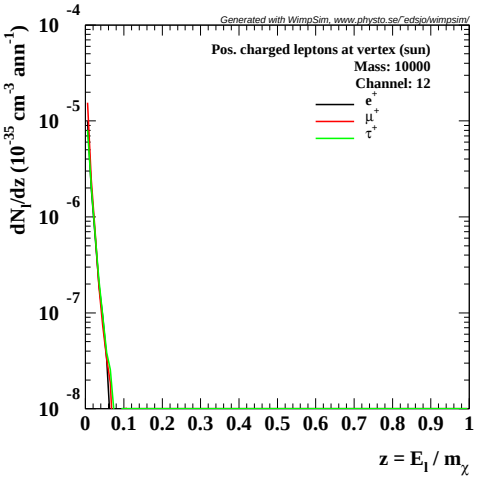
19.7.1 Neutrino fluxes at detector (Sun)



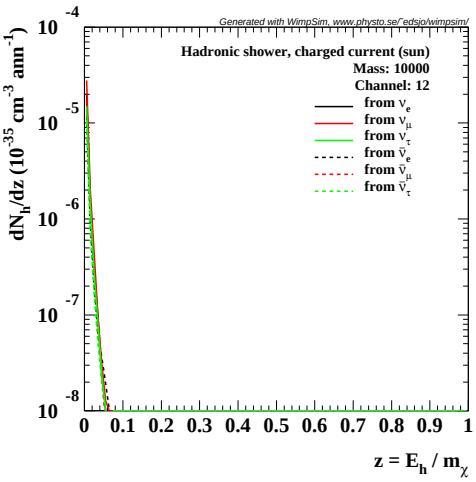


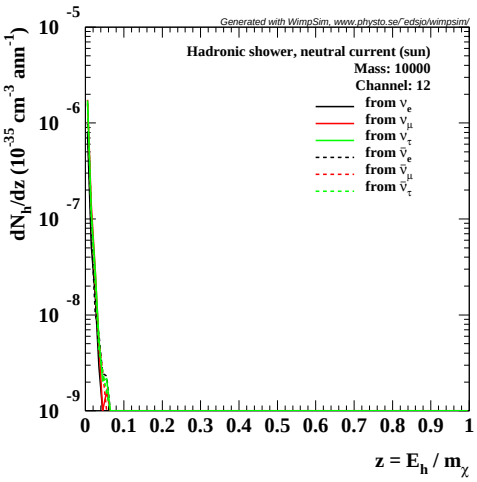
19.7.2 Charged leptons at neutrino-nucleon vertex (Sun)



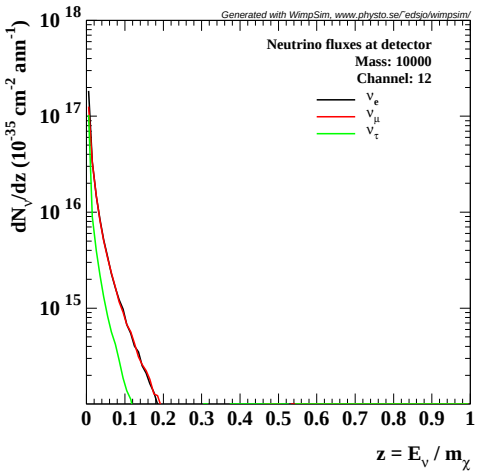


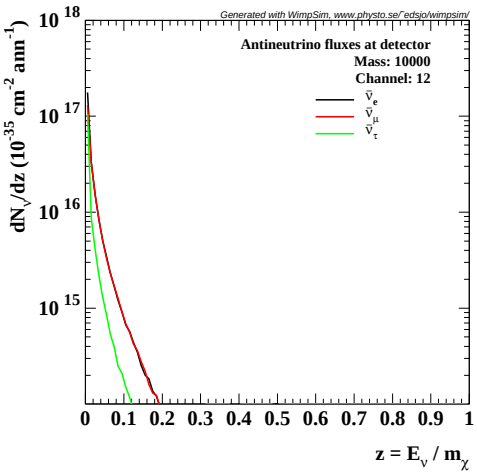
19.7.3 Hadronic shower at neutrino-nucleon vertex (Sun)



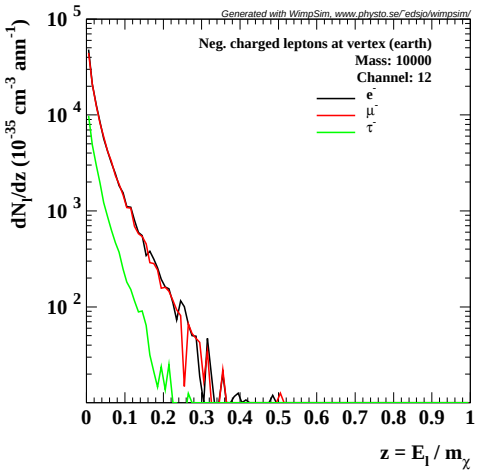


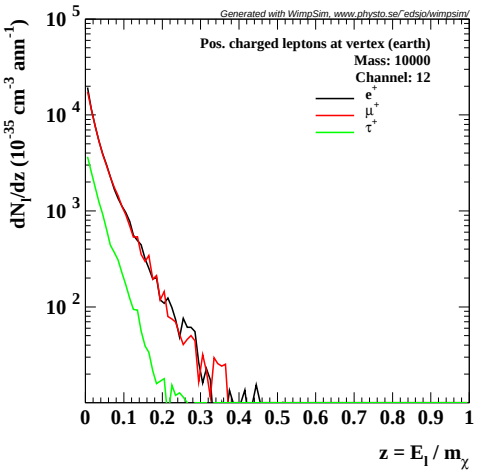
19.7.4 Neutrino fluxes at detector (Earth)



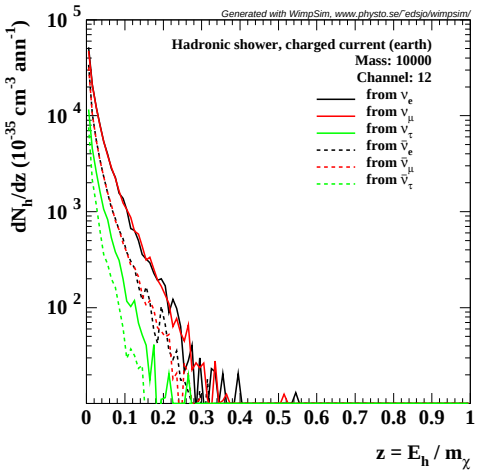


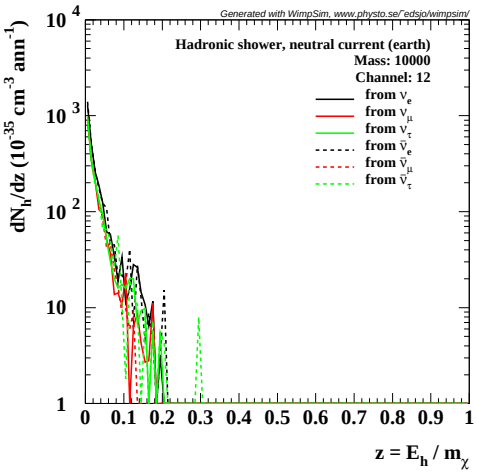
19.7.5 Charged leptons at neutrino-nucleon vertex (Earth)



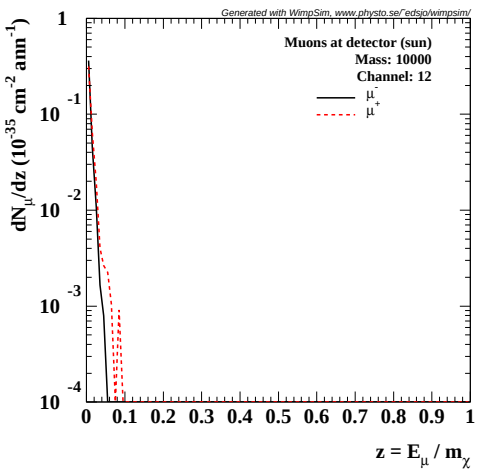


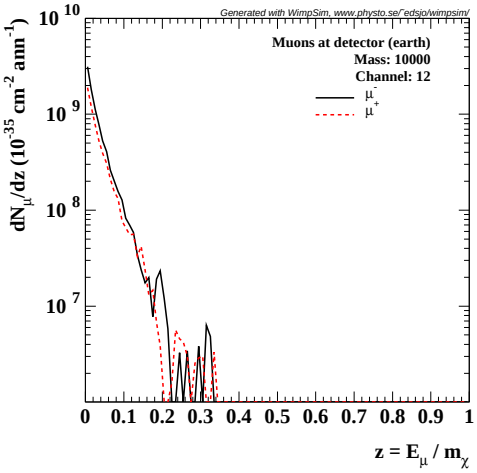
19.7.6 Hadronic shower at neutrino-nucleon vertex (Earth)





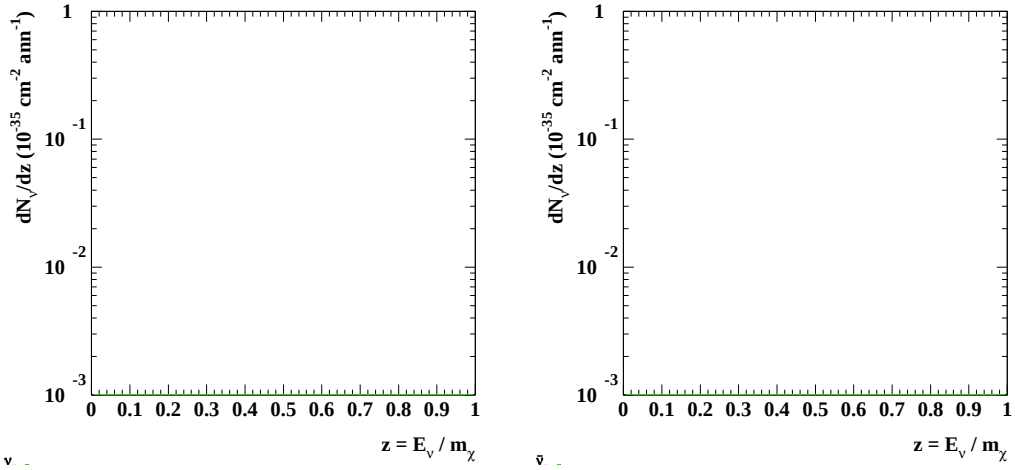
19.7.7 Muons at detector (Sun/Earth)



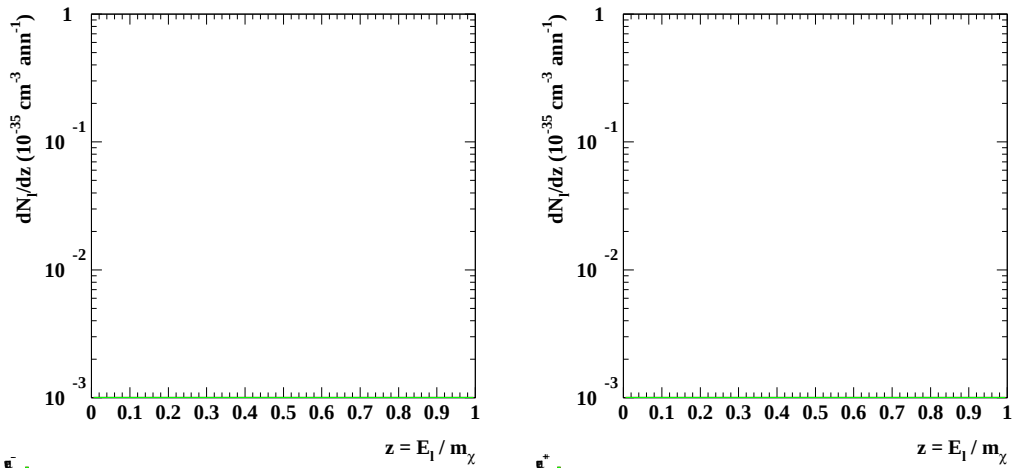


19.8 Channel 16 – $\nu_e \bar{\nu}_e$

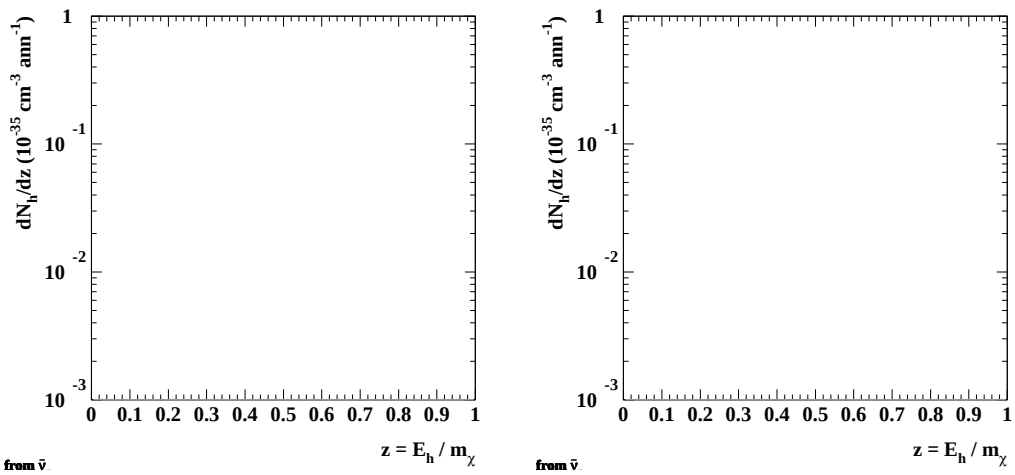
19.8.1 Neutrino fluxes at detector (Sun)



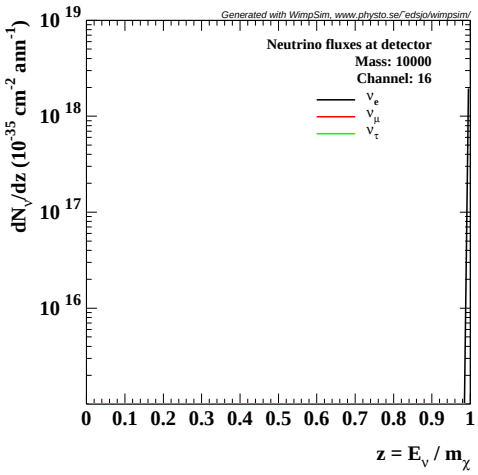
19.8.2 Charged leptons at neutrino-nucleon vertex (Sun)

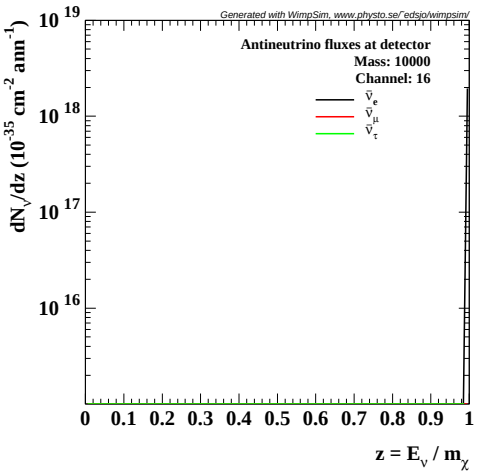


19.8.3 Hadronic shower at neutrino-nucleon vertex (Sun)

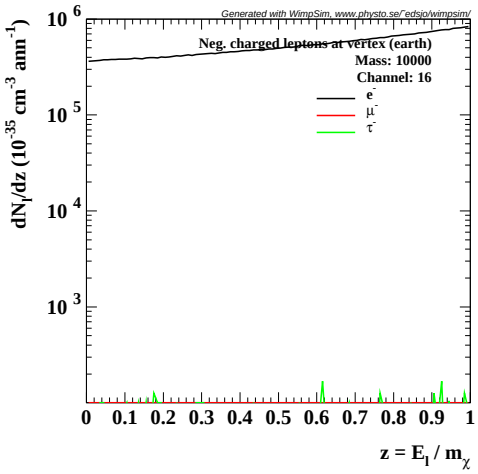


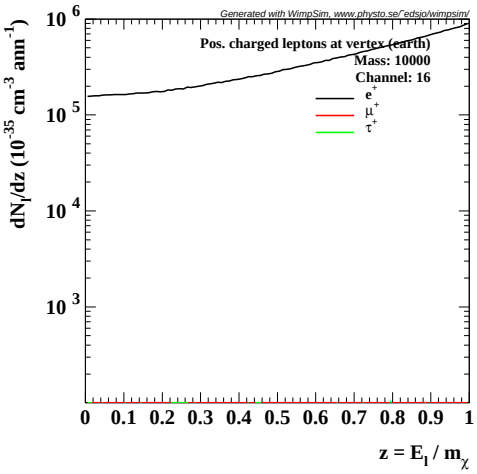
19.8.4 Neutrino fluxes at detector (Earth)



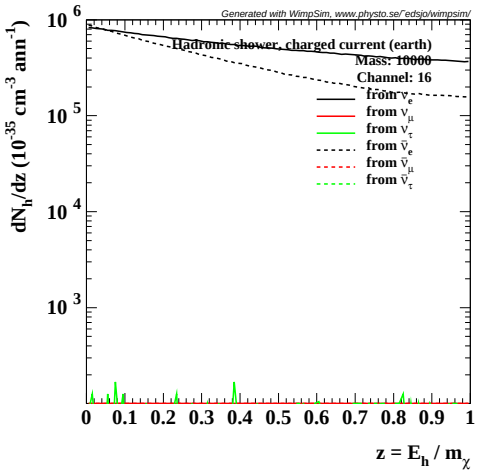


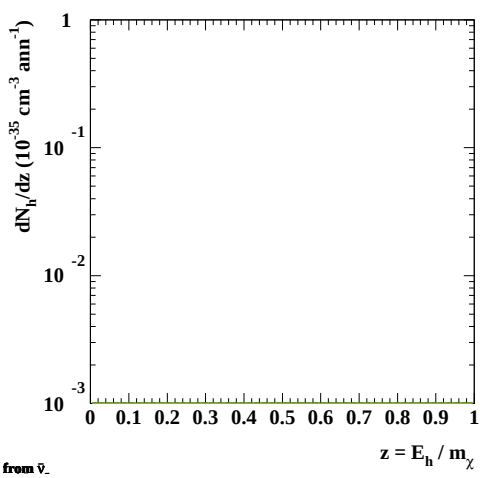
19.8.5 Charged leptons at neutrino-nucleon vertex (Earth)





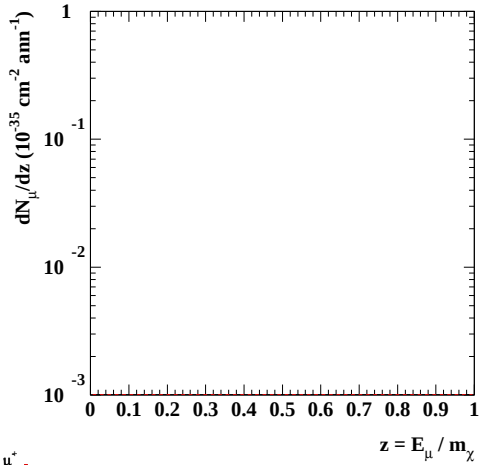
19.8.6 Hadronic shower at neutrino-nucleon vertex (Earth)

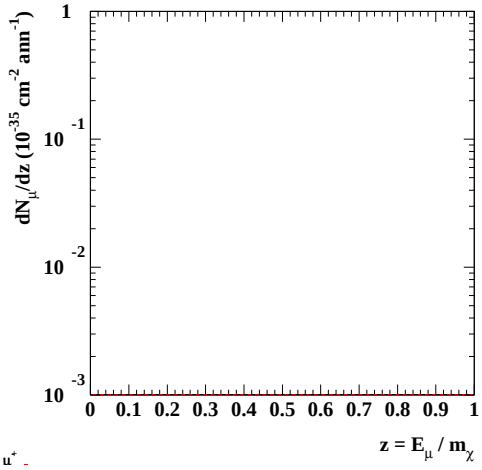




from $\bar{\nu}_\tau$

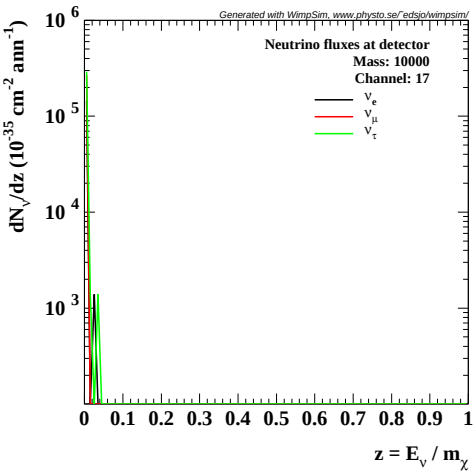
19.8.7 Muons at detector (Sun/Earth)

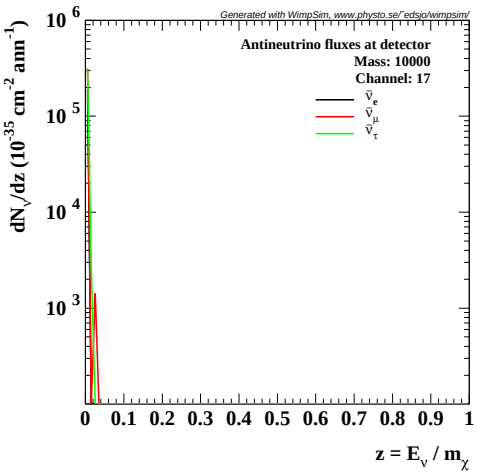




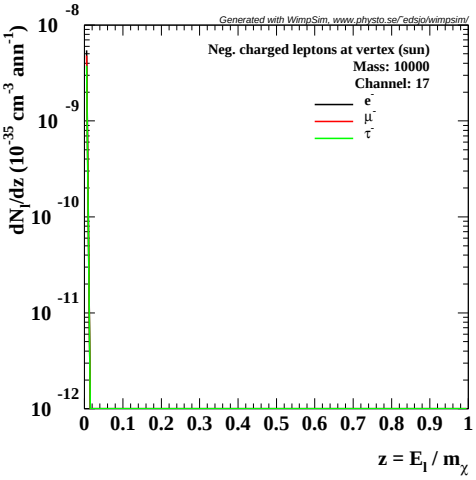
19.9 Channel 17 – $\nu_\mu \bar{\nu}_\mu$

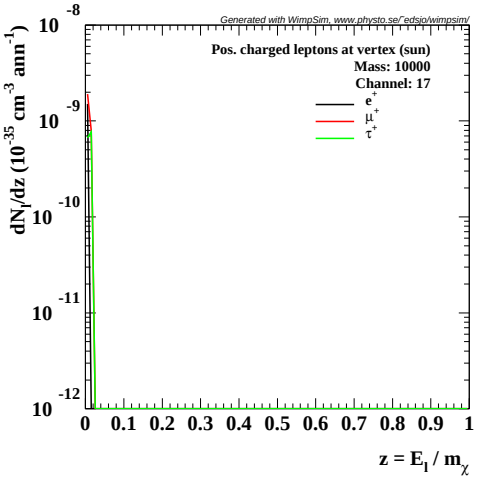
19.9.1 Neutrino fluxes at detector (Sun)



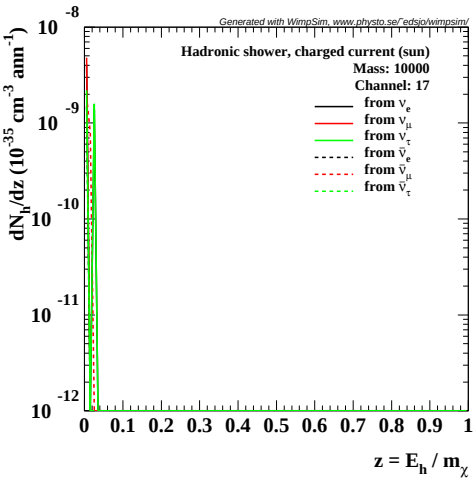


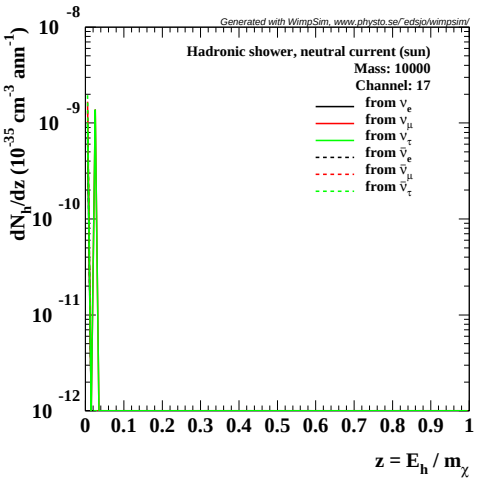
19.9.2 Charged leptons at neutrino-nucleon vertex (Sun)



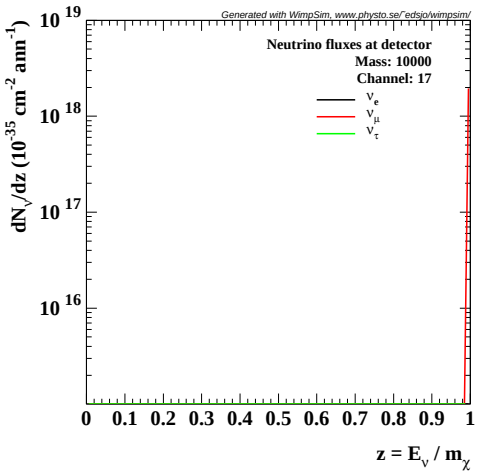


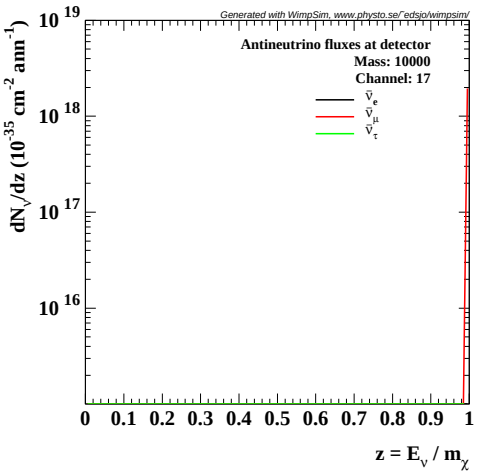
19.9.3 Hadronic shower at neutrino-nucleon vertex (Sun)



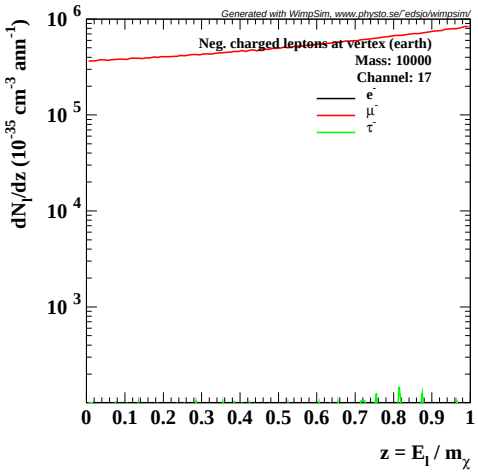


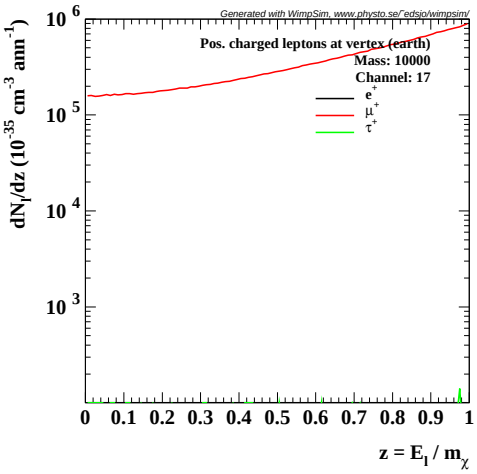
19.9.4 Neutrino fluxes at detector (Earth)



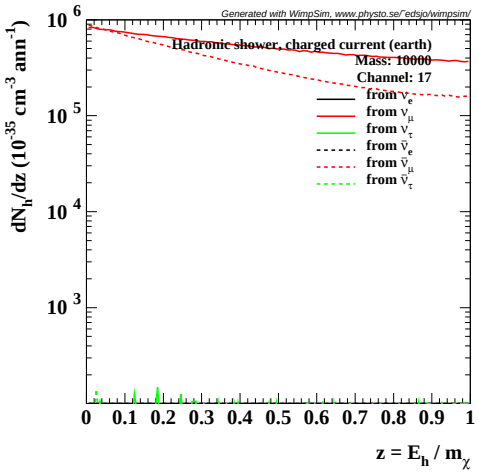


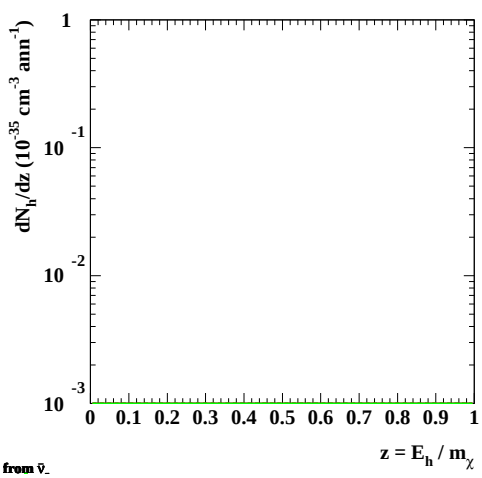
19.9.5 Charged leptons at neutrino-nucleon vertex (Earth)





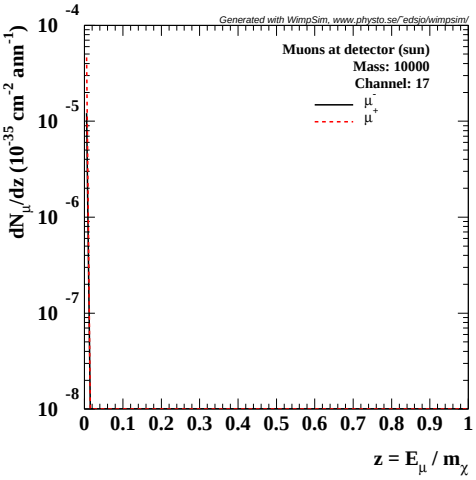
19.9.6 Hadronic shower at neutrino-nucleon vertex (Earth)

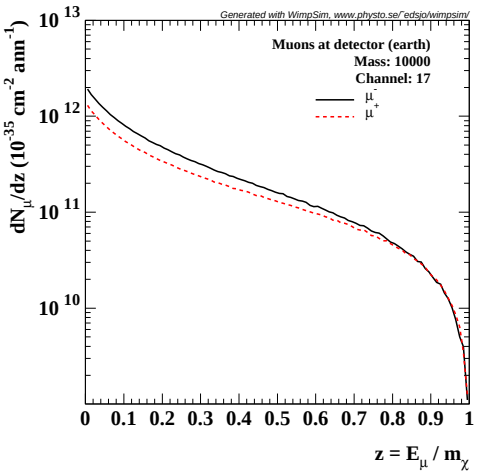




from $\bar{\nu}_\tau$

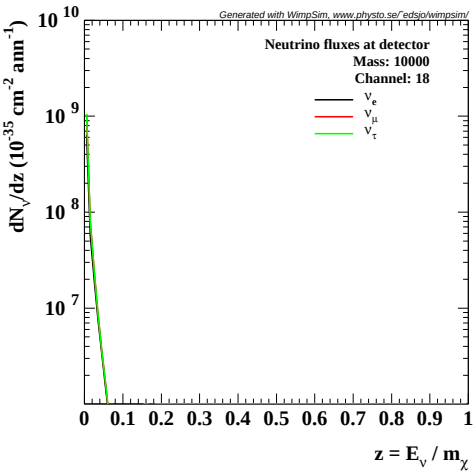
19.9.7 Muons at detector (Sun/Earth)

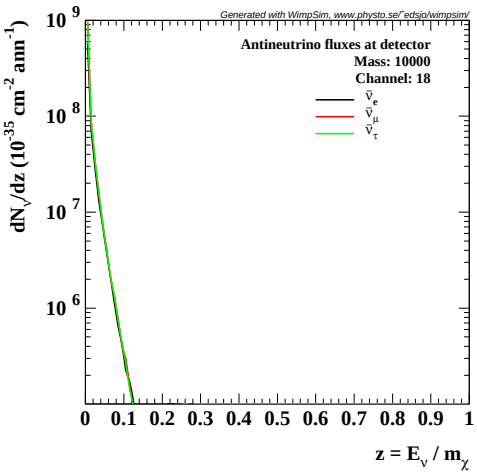




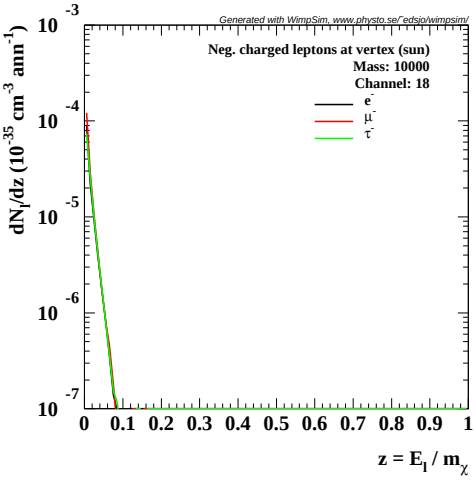
19.10 Channel 18 – $\nu_\tau \bar{\nu}_\tau$

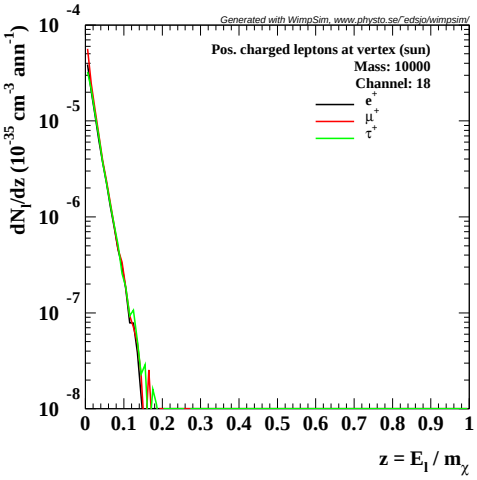
19.10.1 Neutrino fluxes at detector (Sun)



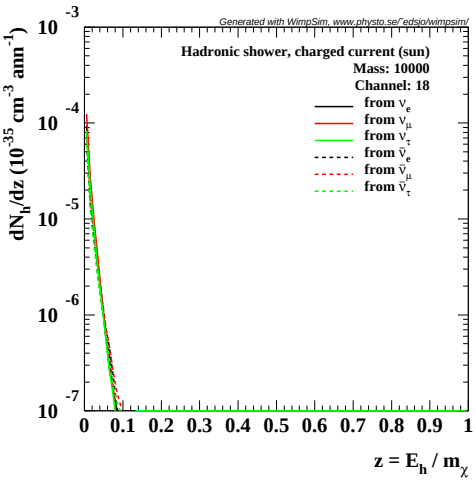


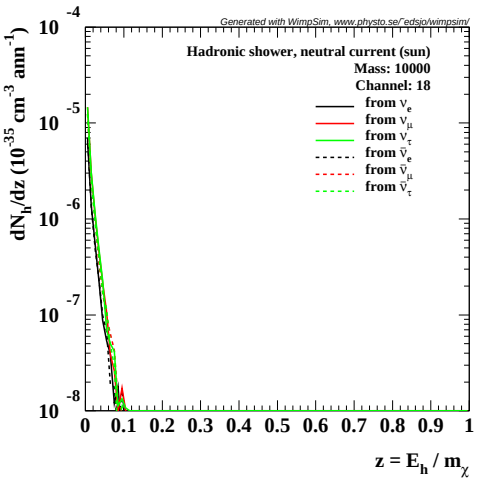
19.10.2 Charged leptons at neutrino-nucleon vertex (Sun)



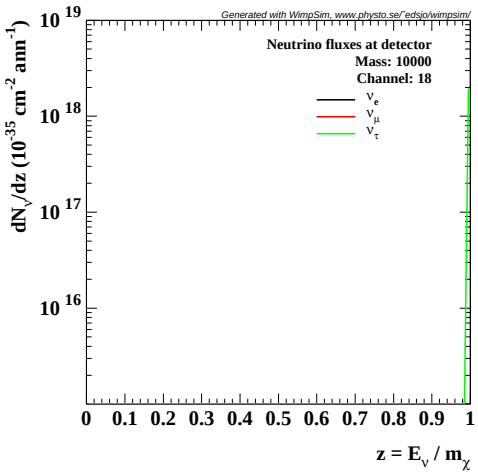


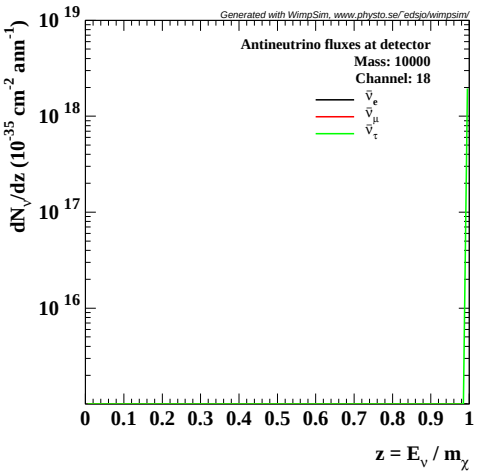
19.10.3 Hadronic shower at neutrino-nucleon vertex (Sun)



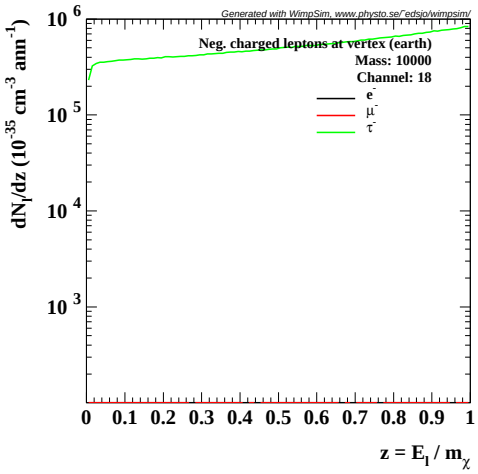


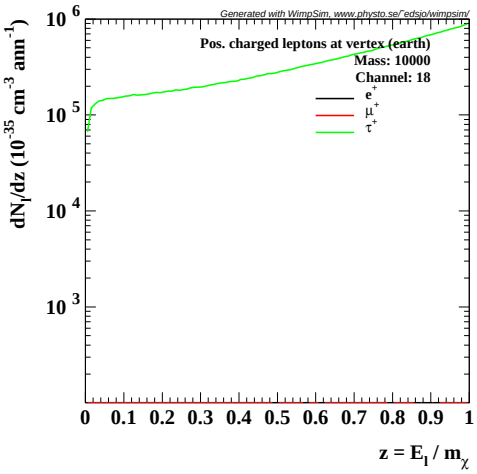
19.10.4 Neutrino fluxes at detector (Earth)



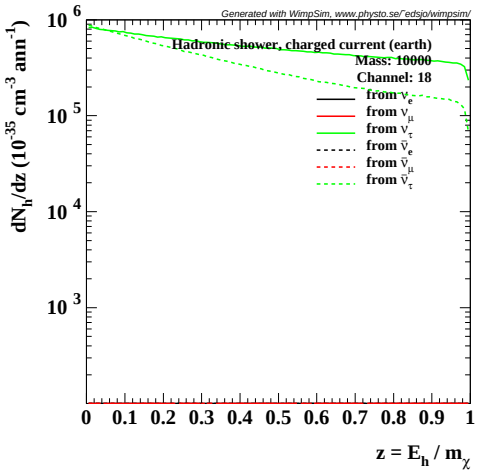


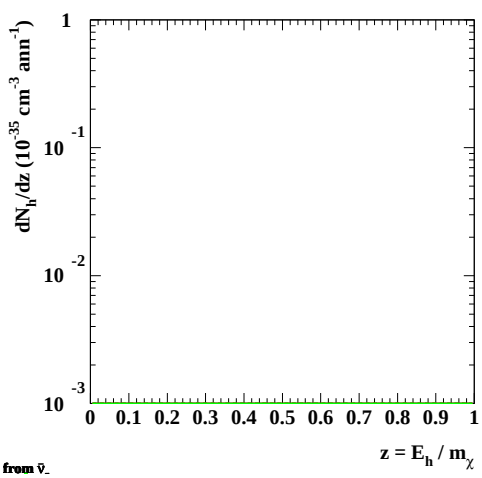
19.10.5 Charged leptons at neutrino-nucleon vertex (Earth)

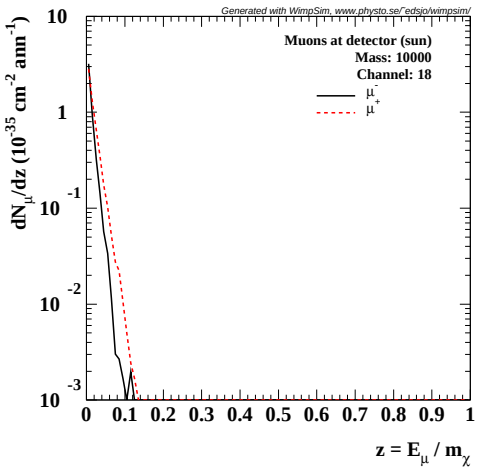
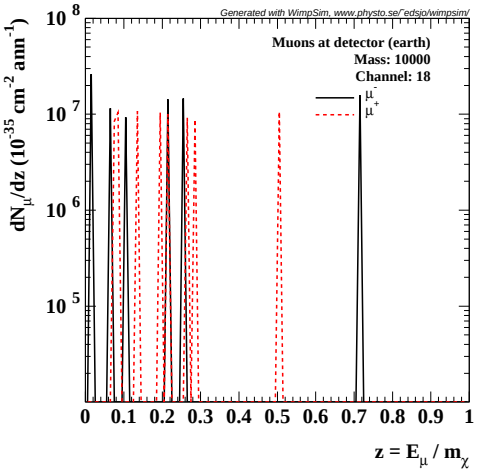




19.10.6 Hadronic shower at neutrino-nucleon vertex (Earth)





from $\bar{\nu}_\tau$

19.10.7 Muons at detector (Sun/Earth)