

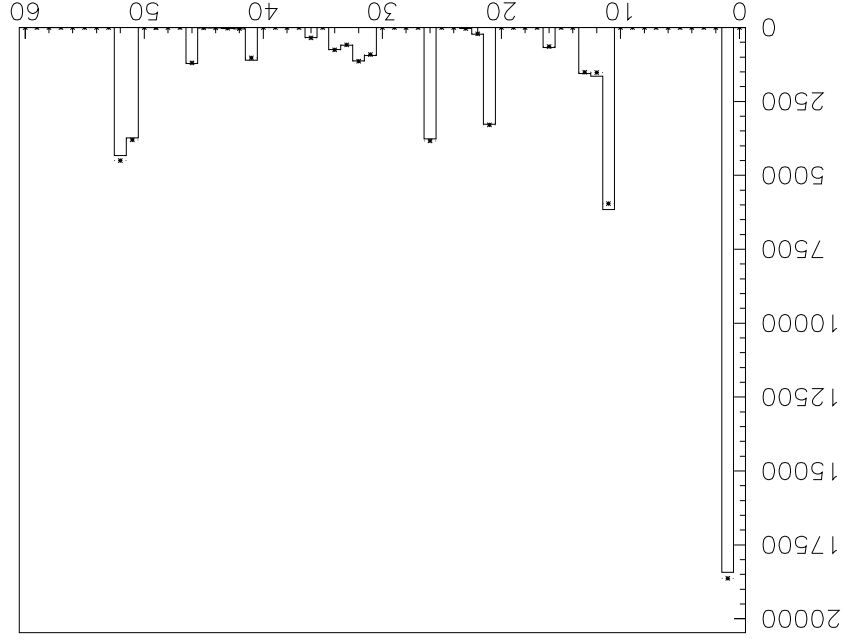
MC vector file status

I checked 0309 and 0407 version vector file.

convert nfs! file to vector file using convertNeut.

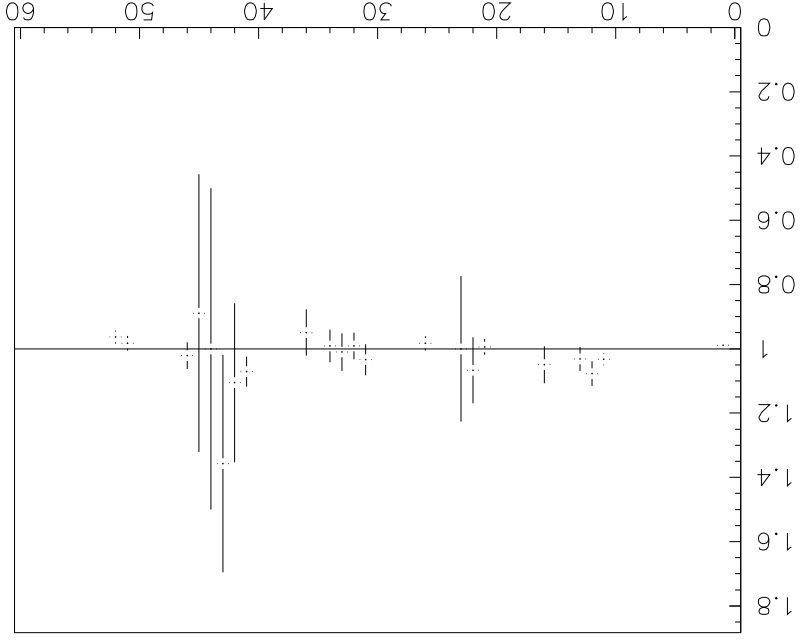
Z vertex is fixed 0, so I float Z vertex -400 to +200.

neutrino event mode distribution.

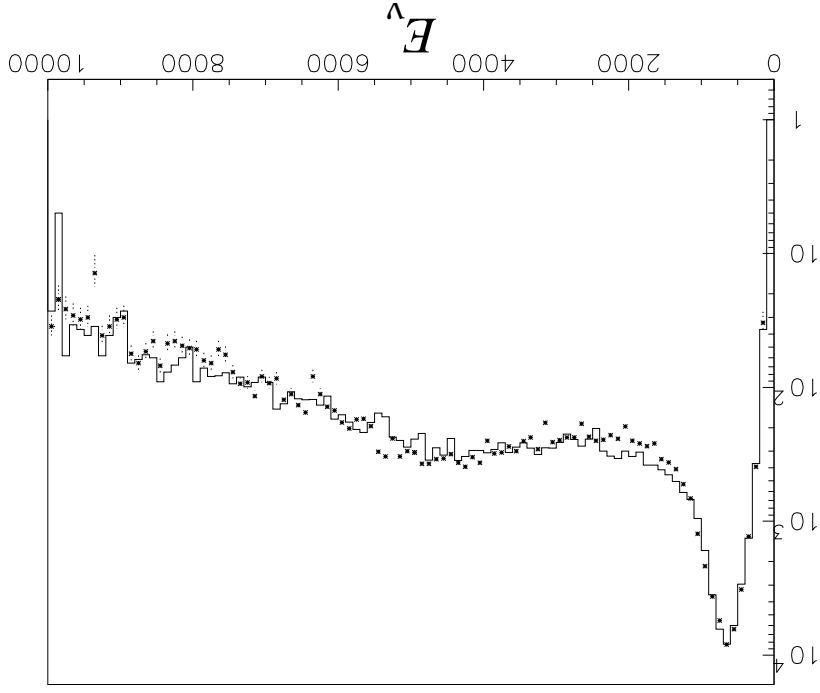


consistent within error.

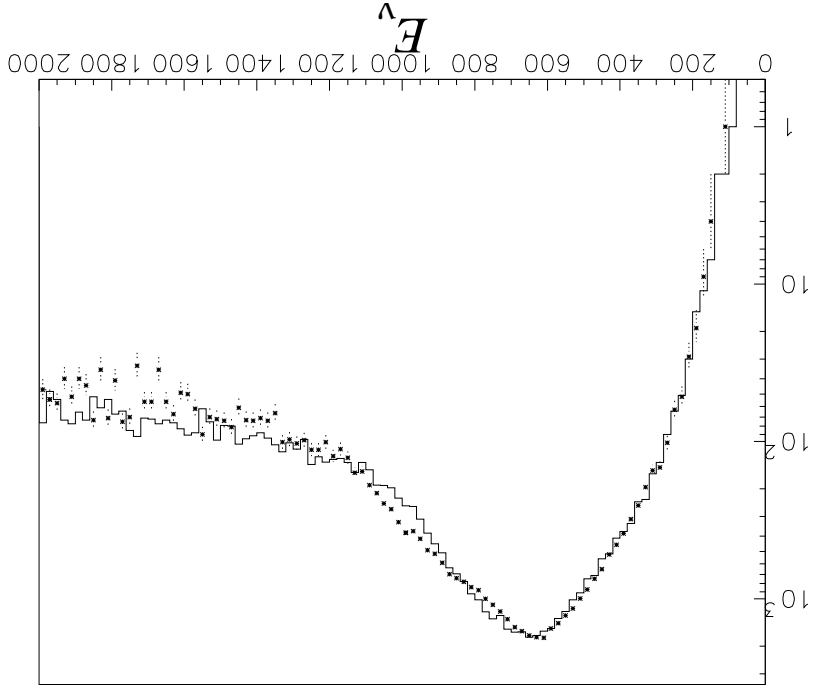
histogram : 0407  
dot : 0309  
left : mode dist  
right : 0407 divided by 0309



neutrino Energy.



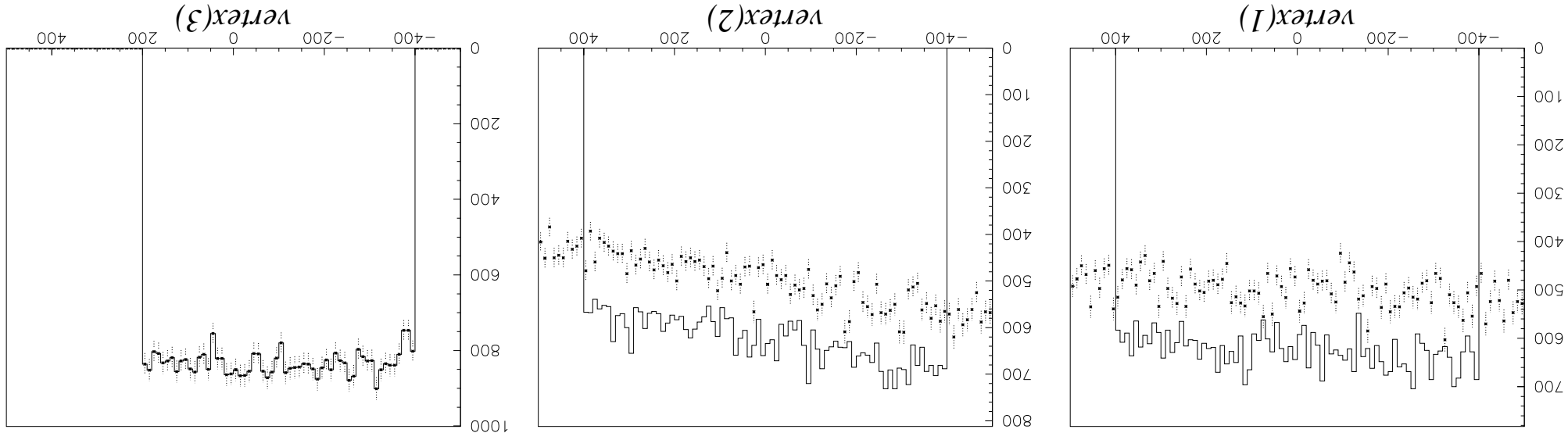
histogram : 0407  
dot : 0309



difference appears around 800 MeV. This is cause the difference of material and flux.

neutrino vertex distribution.

histogram : 0407  
dot : 0309

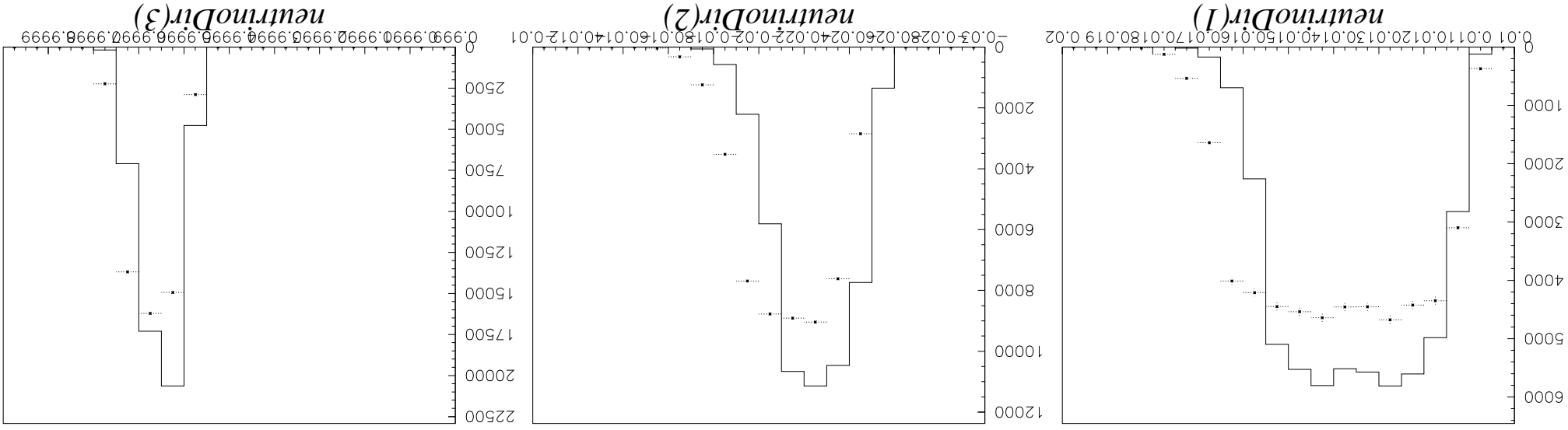


position.

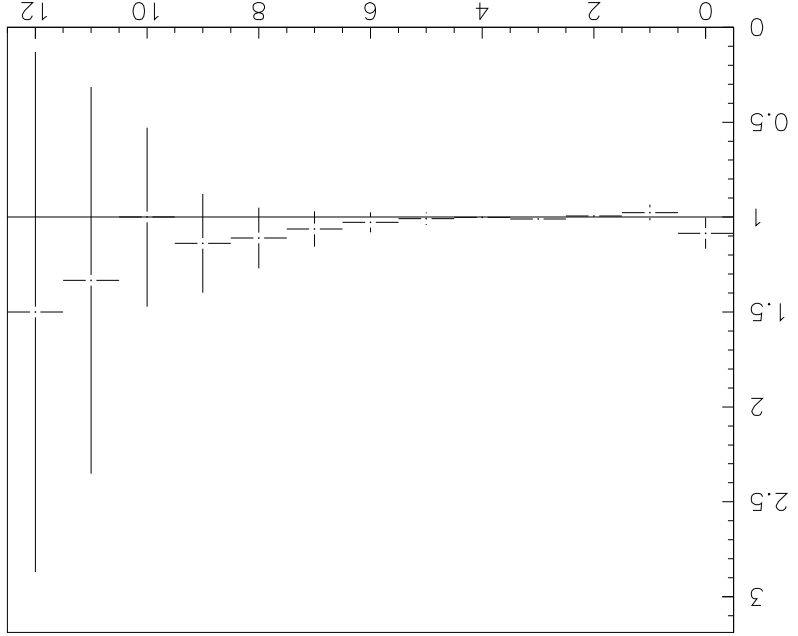
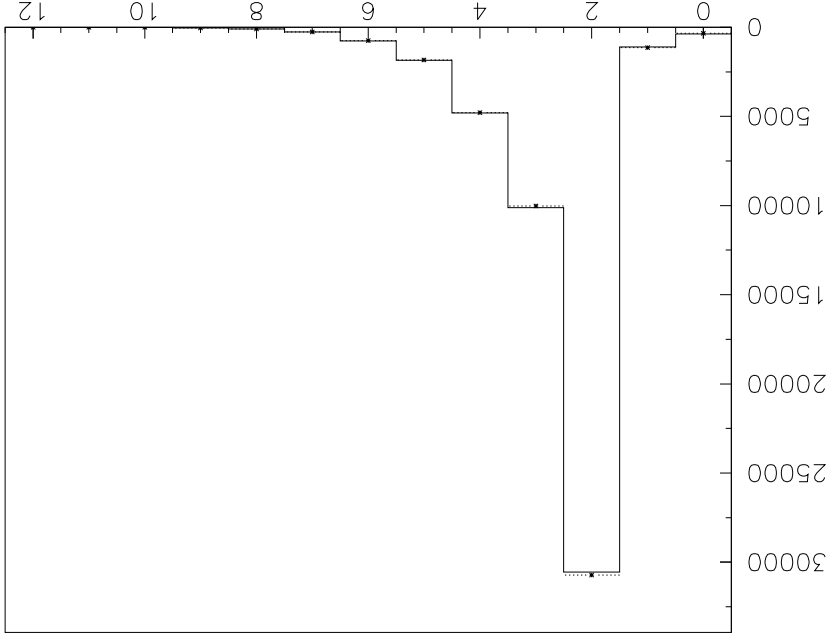
neutrino direction difference due to the difference of Detector

MEAN X	MEAN Y	MEAN Z	histogram	:	0407
0.01352	-0.02247	0.9997	dot	:	0309
0.01392	-0.02133	0.9997			

neutrino direction distribution.



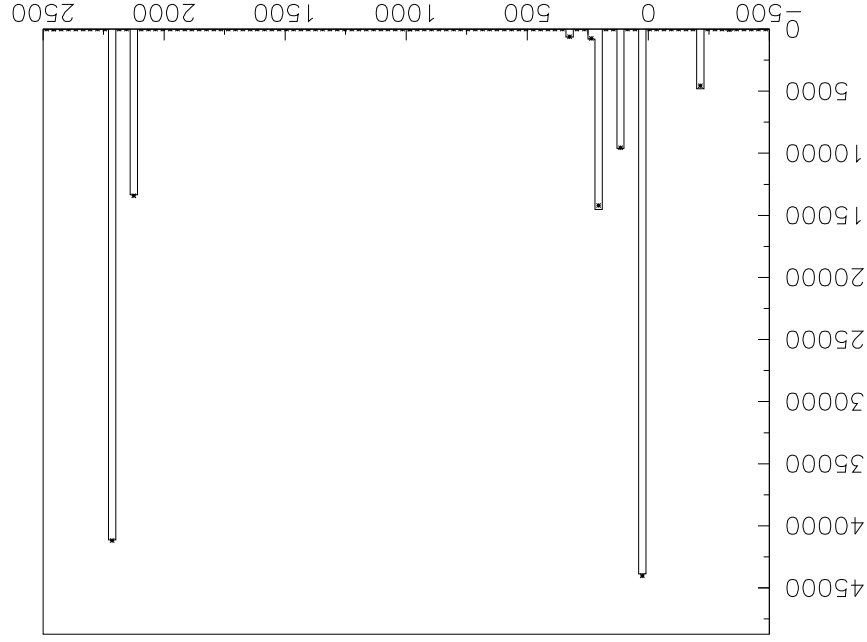
Number of produced particle



histogram : 0407 : # of particle dist  
dot : 0309 : right : 0407 divided by 0309

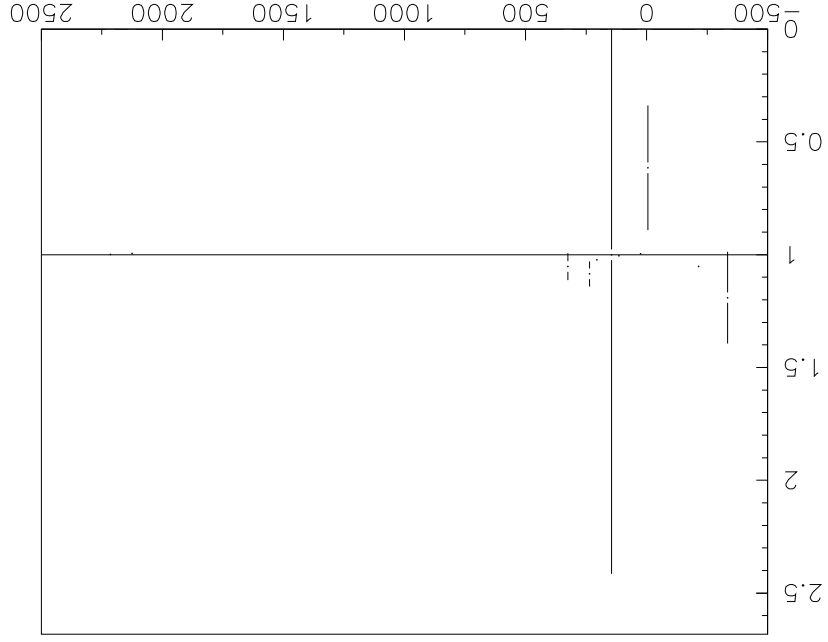
consistent within error.

produced particle ID



0407 : dot

0309 : right



0407 : left

0407 divided by 0309 : right

## MC production status

To generate MC from vector file by GEANT4, it takes about 1 hour / 1,000 evt.

Using condor, it takes about 1 hour / 500 evt. I don't know why. I finished MC generation (450,000 evt).