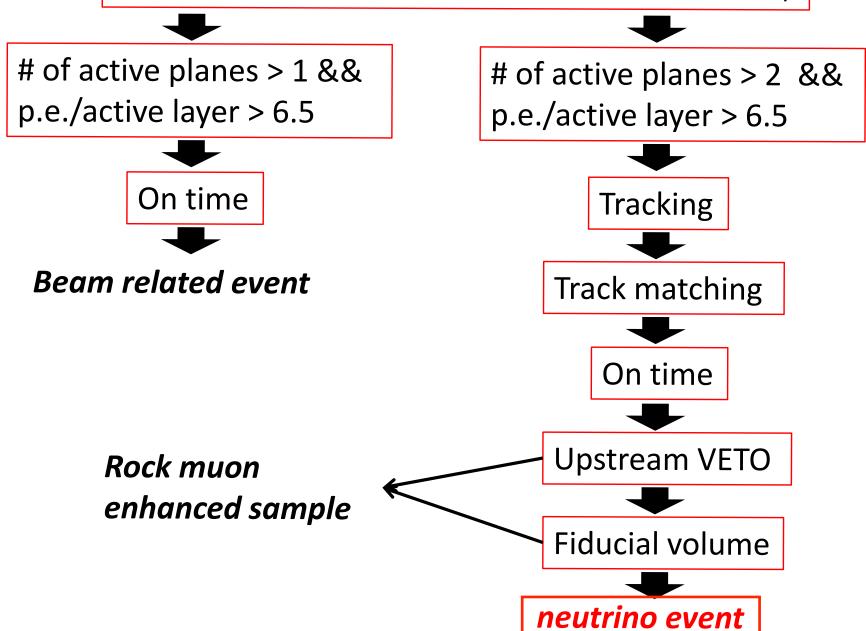


#### Analysis flow chart

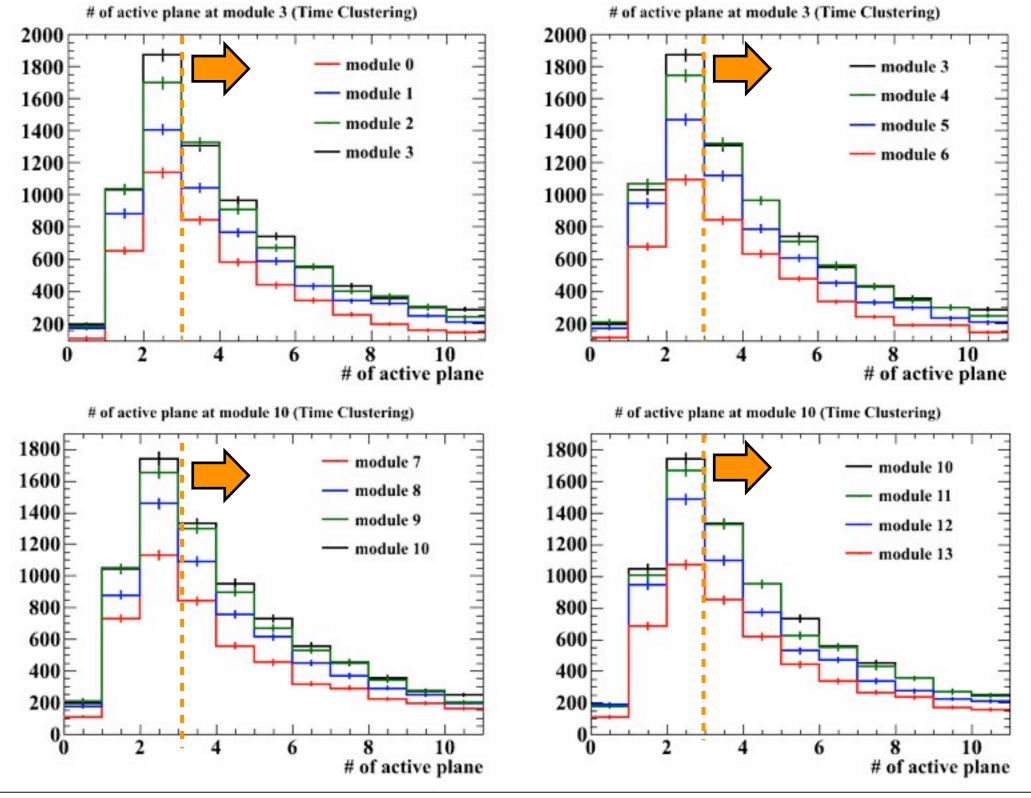
Make timing cluster (more than 4 hits within 100nsec)



3

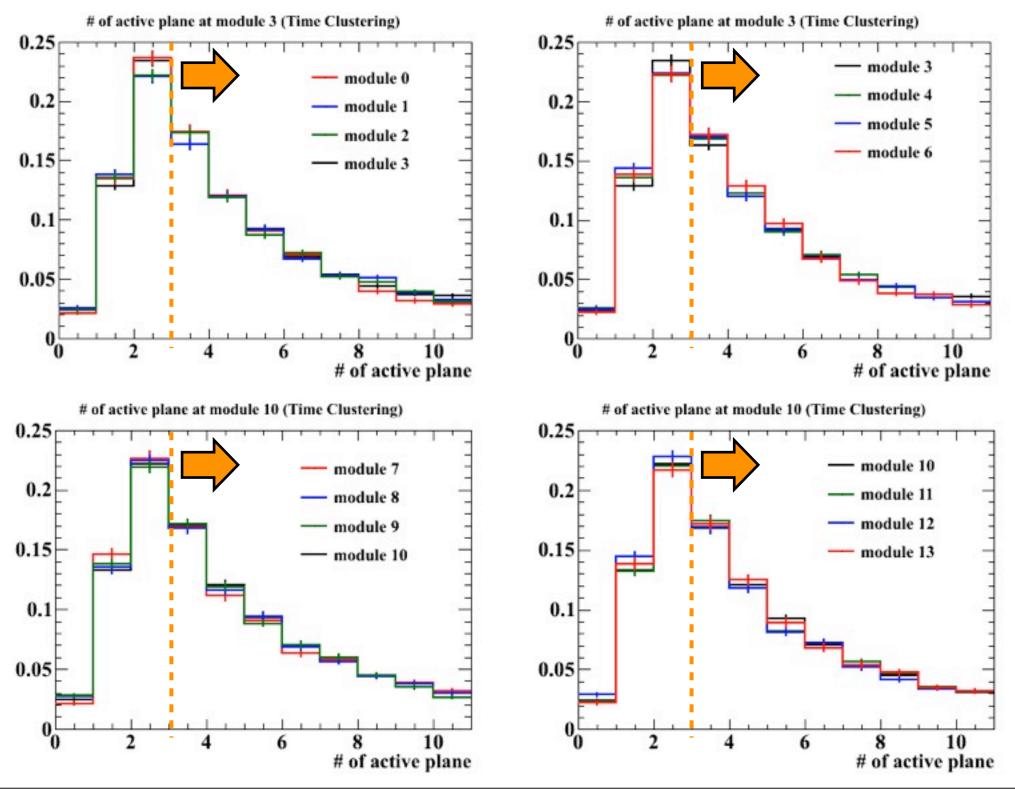
## # of active plane

• Time Cluster cut



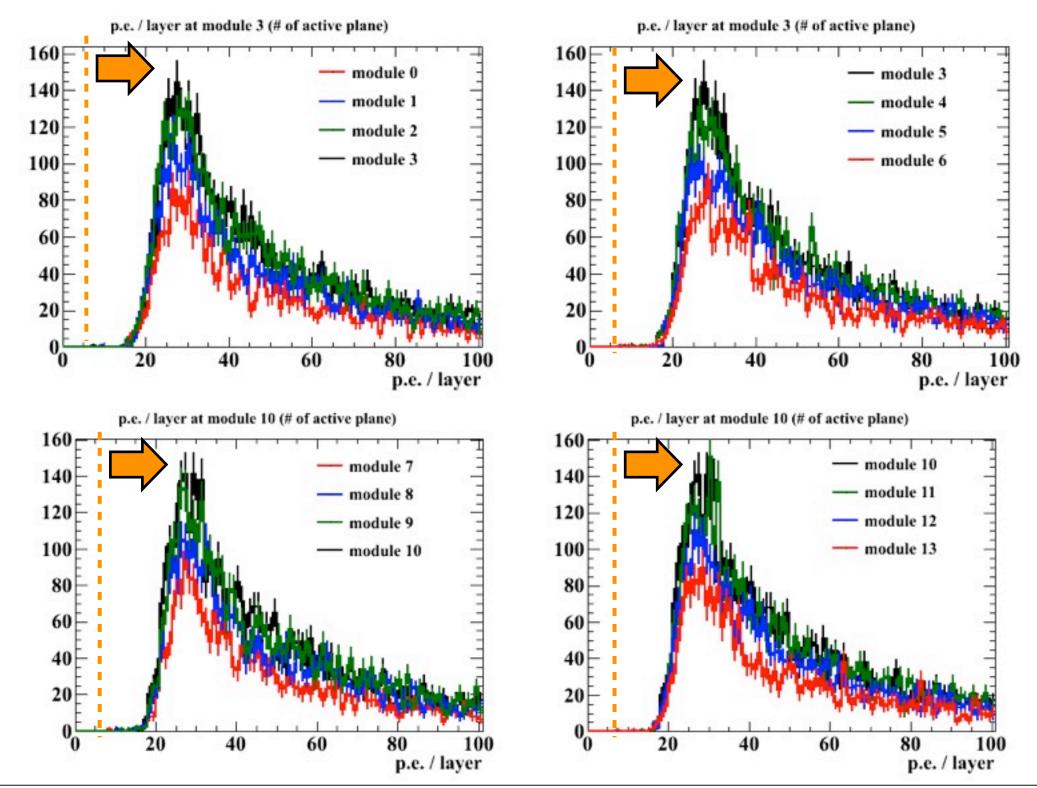
# Normalized # of active plane

• normalized by area



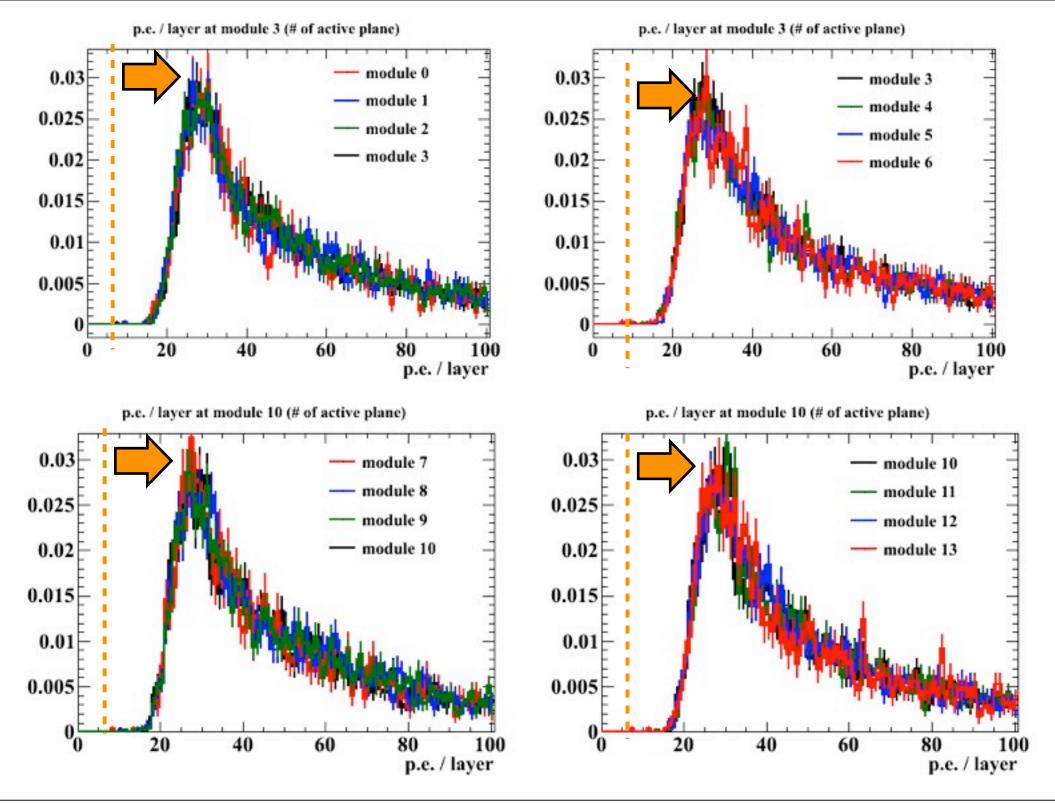
### p.e. / layer

- Time cluster cut
- # of active plane > 2



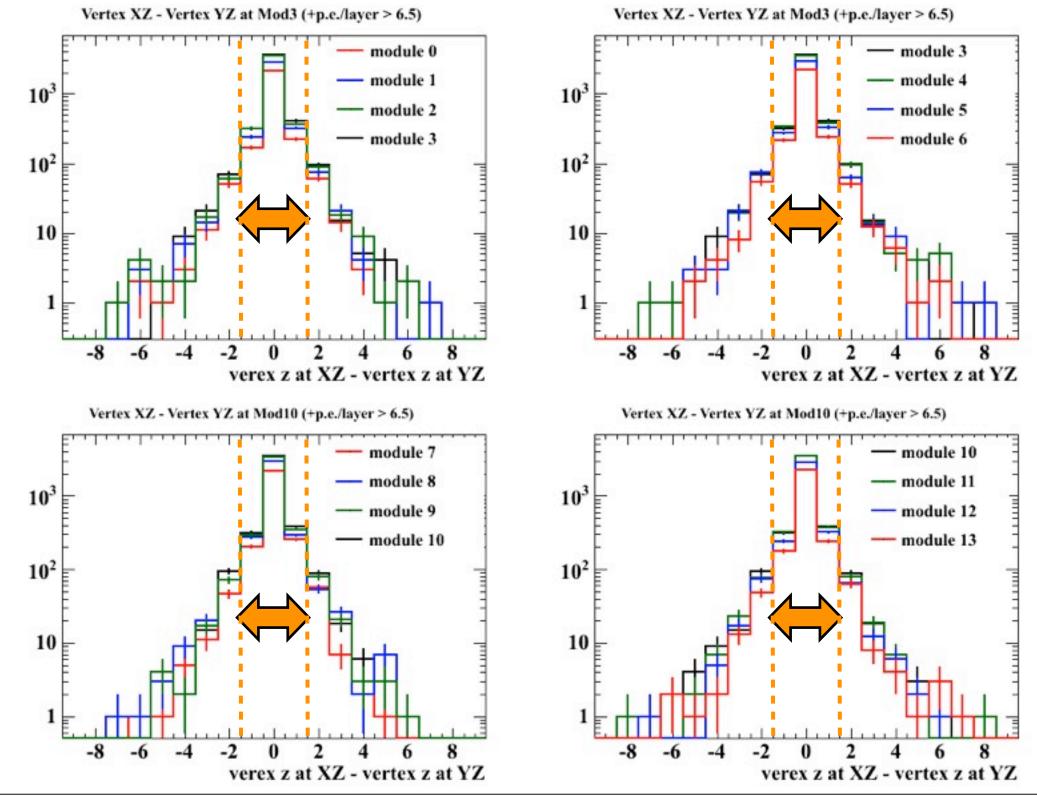
## Normalized p.e. / layer

• normalized by area



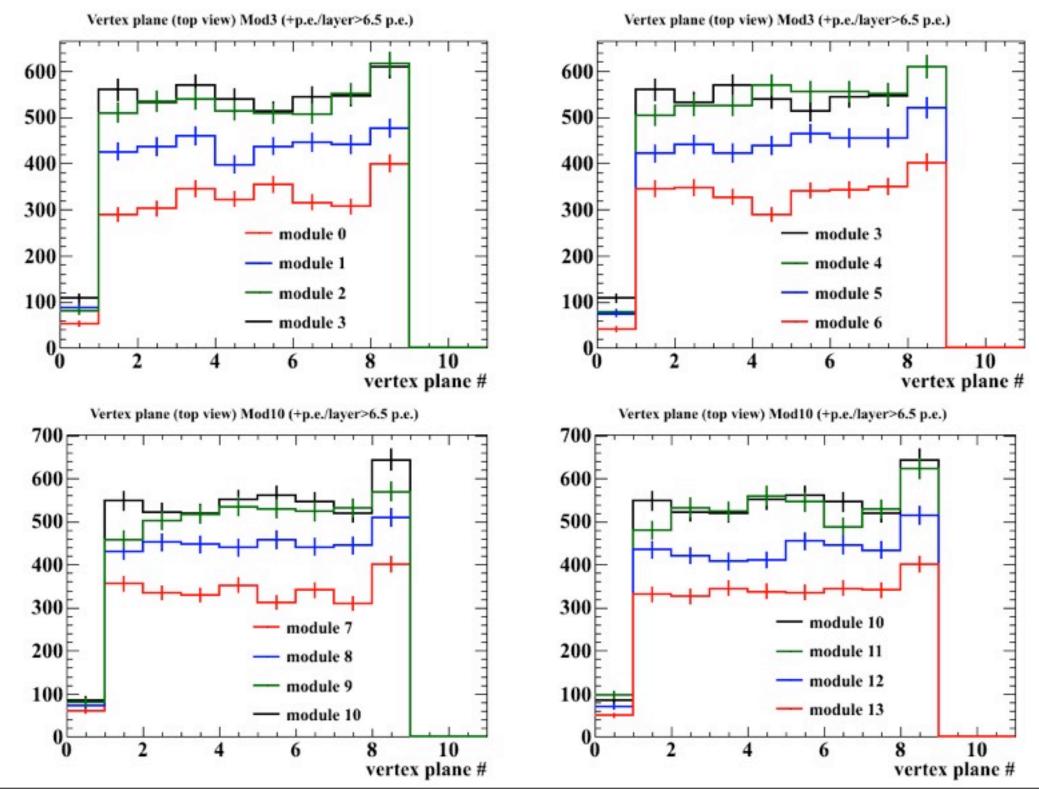
# XZ and YZ track matching

- Time Cluster cut
- # of active plane > 2
- p.e. / layer > 6.5
- Tracking

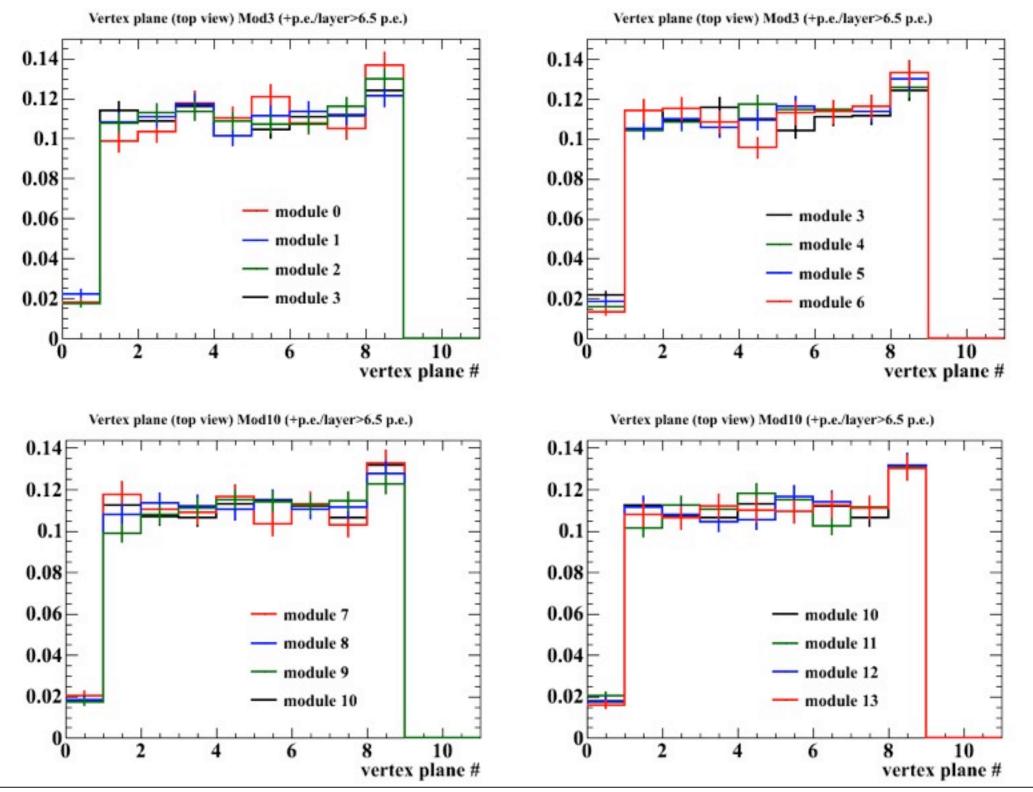


### Upstream VETO

- Time Cluster cut
- # of active plane > 2
- p.e. / layer > 6.5
- Tracking
- Track matching

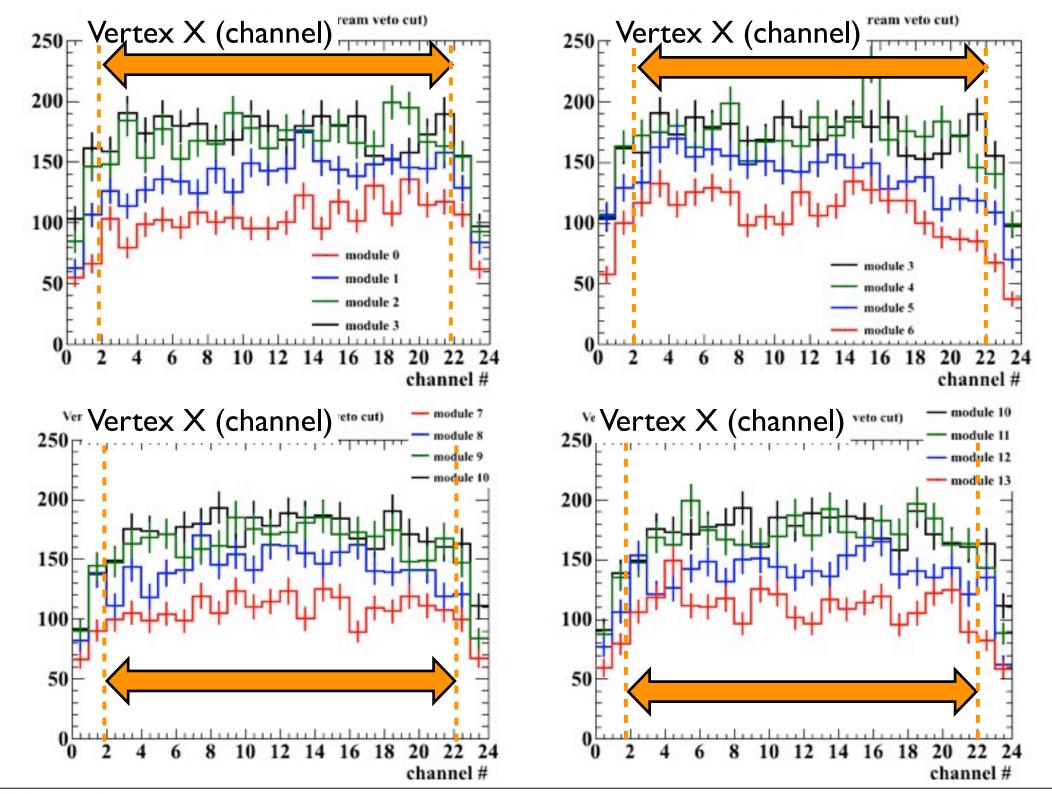


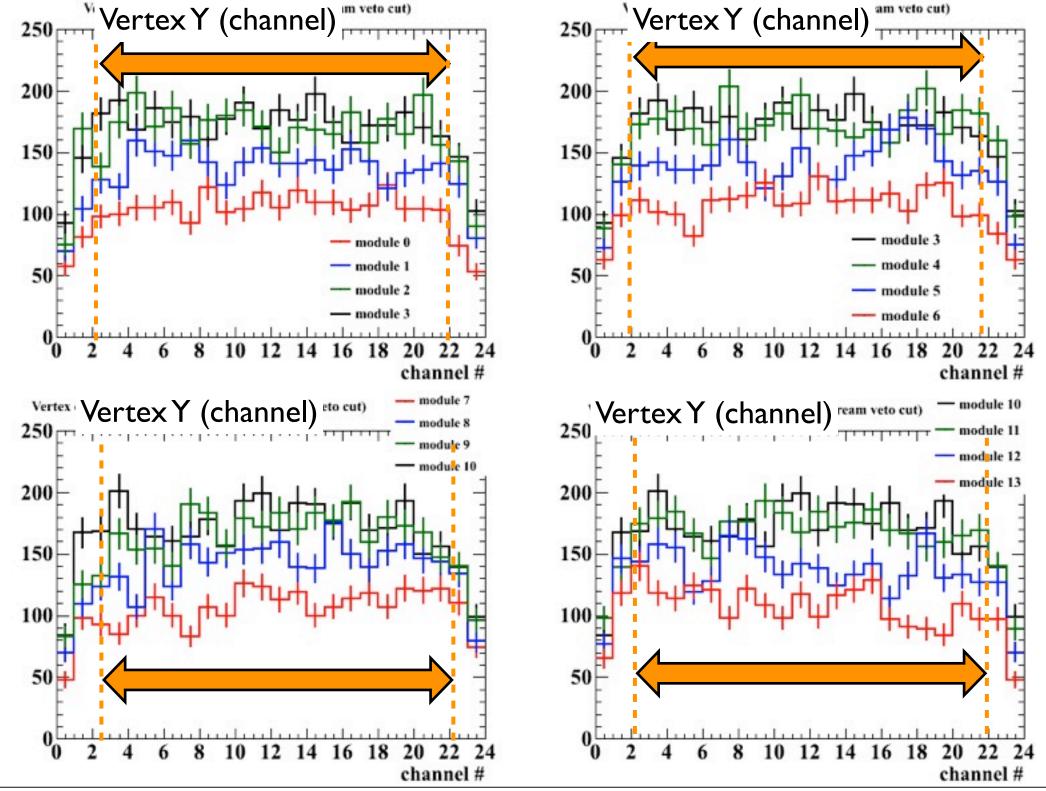
## Normalized Upstream VETO



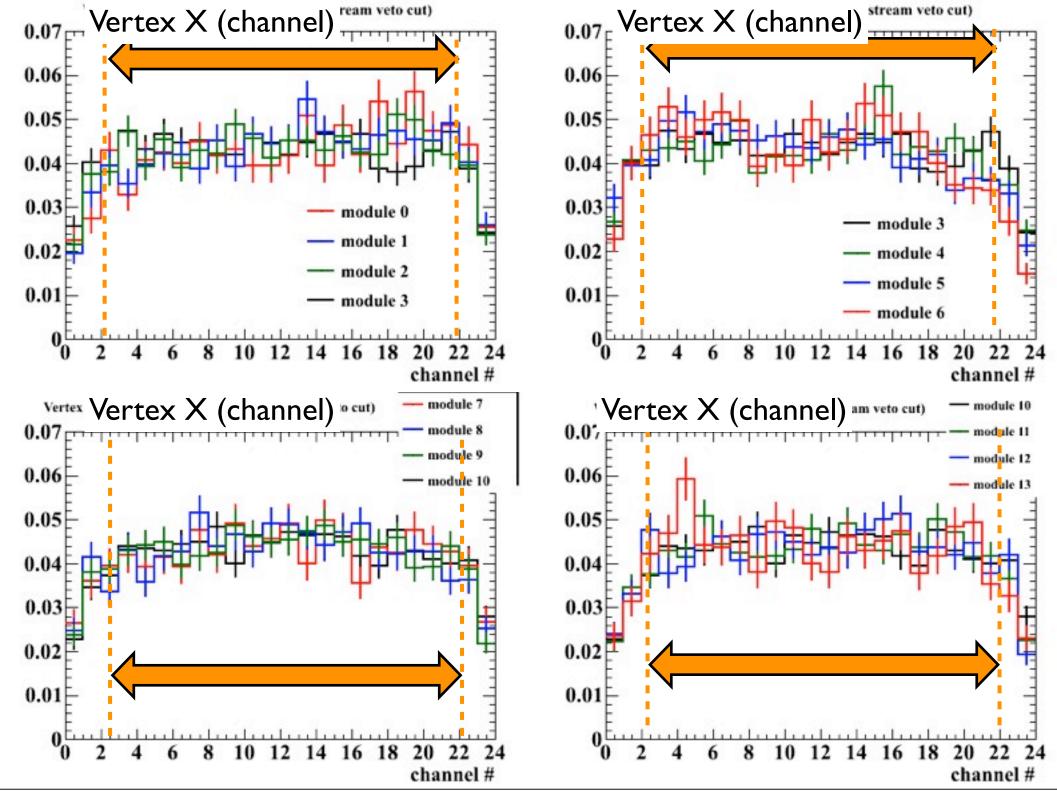
#### Fiducial volume cut

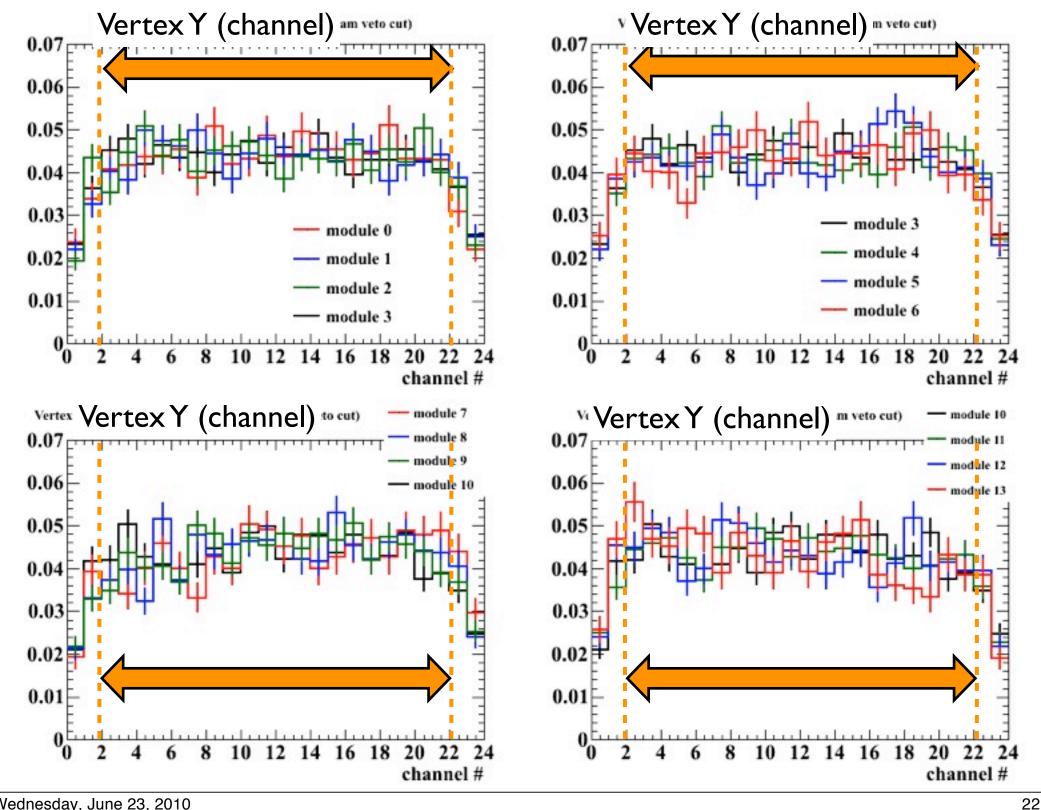
- Time Cluster cut
- # of active plane > 2
- p.e. / layer > 6.5
- Tracking
- Track matching
- Upstream VETO cut





## Normalized Fiducial volume cut





#### Next todo

- Compare Data vs MC plot after neutrino event selection
  - Normalize by pot.