V0fitter : secondary vertexing code finds the Vees event by event

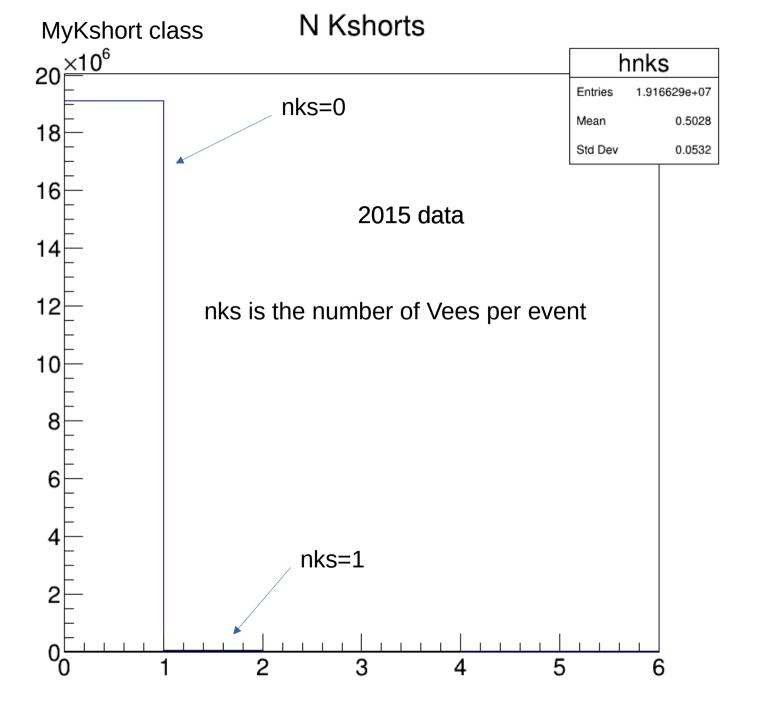
V0Producer : writes the Vees to the events
creates two branches in the ntuples : Kshort, Lambda
creates a collection of Vees

MyKshorts : class of Kshort collection way the analysis code gets access to the Vees

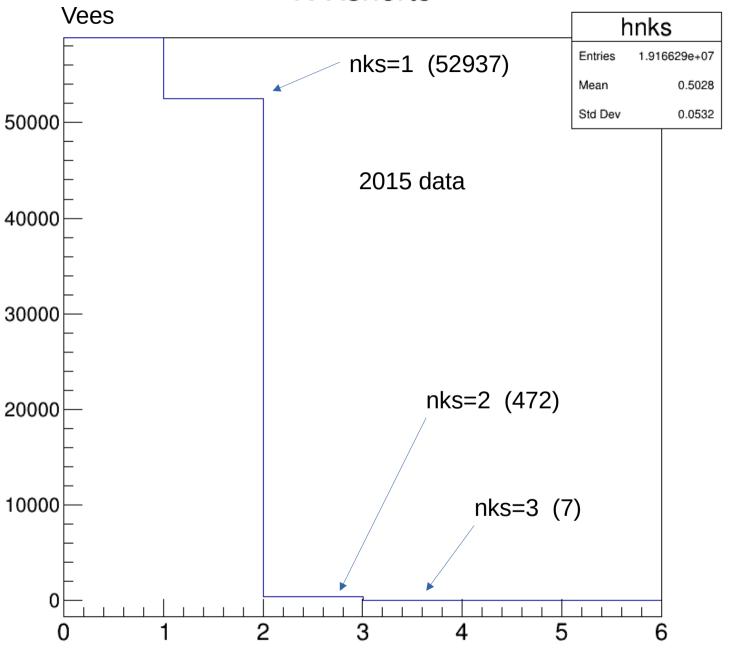
nks : counts the number of Vees per event (number of K0s) tags the <u>secondary</u> vertices

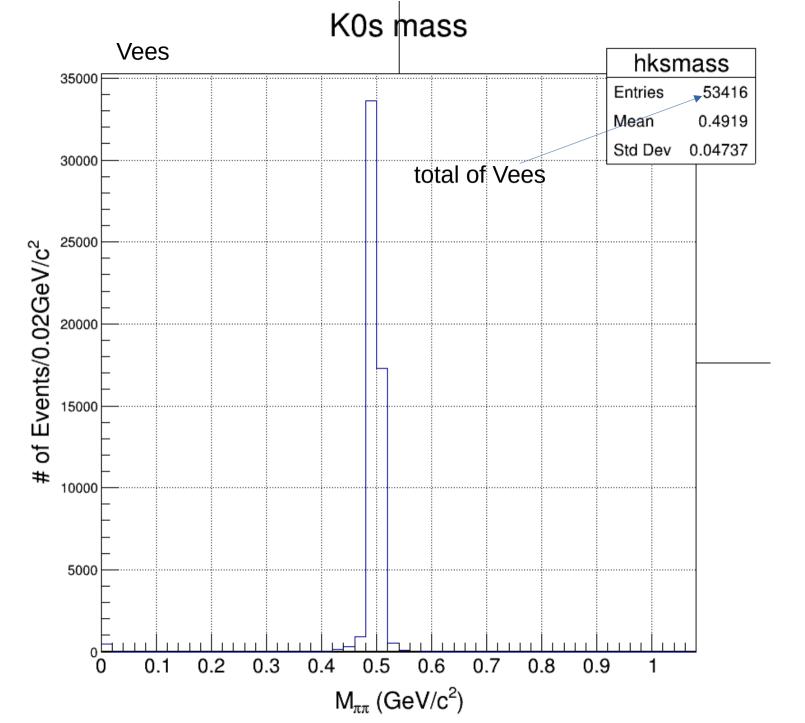
nvtx : counts the number of <u>primary</u> vertices

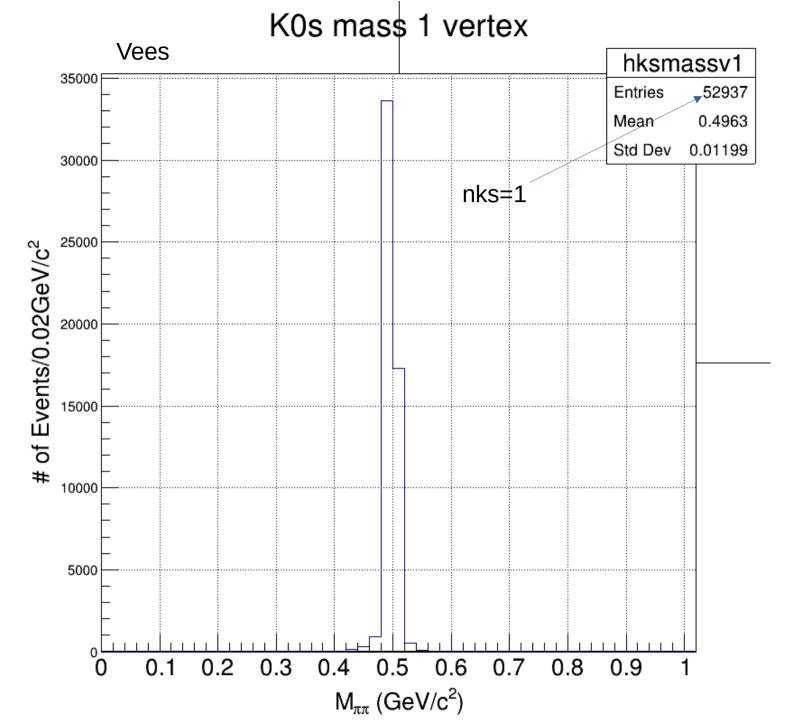
Study on Brian Drell's code: I am preparing a document to explain the the secondary vertexing...coming soon!

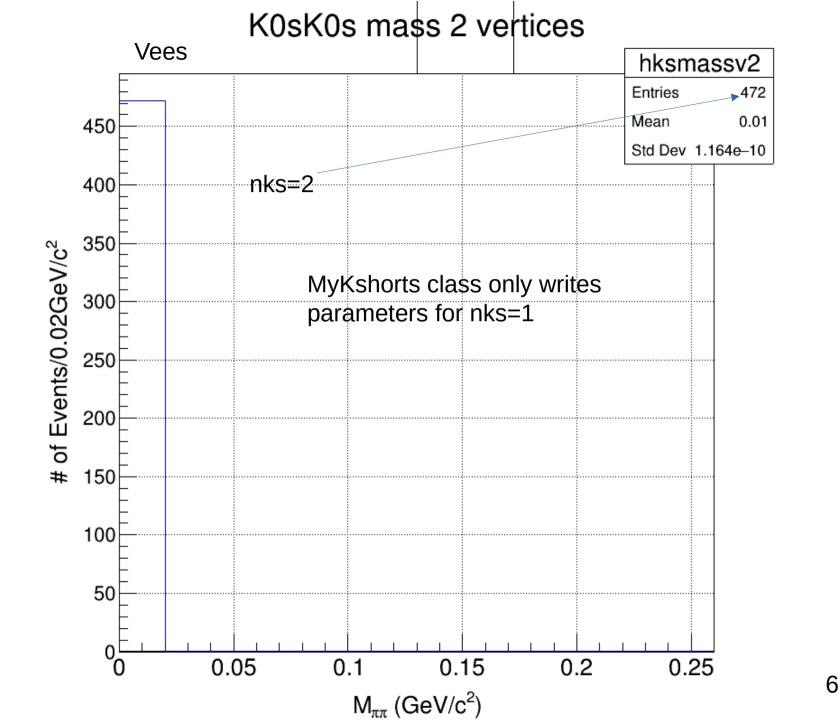


# N Kshorts

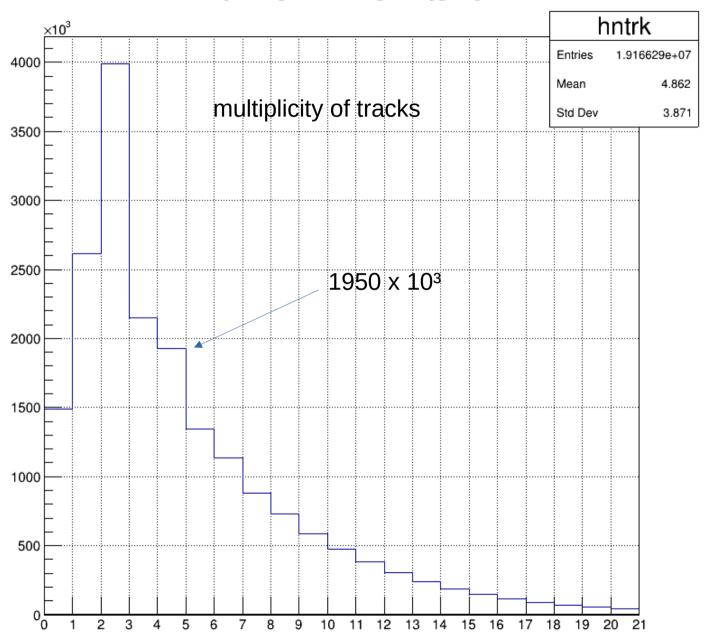




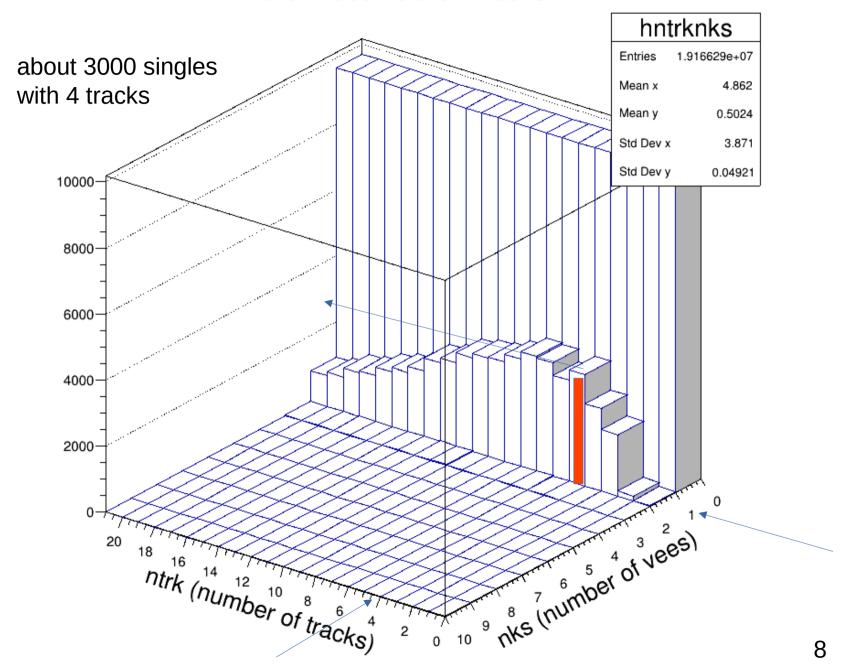




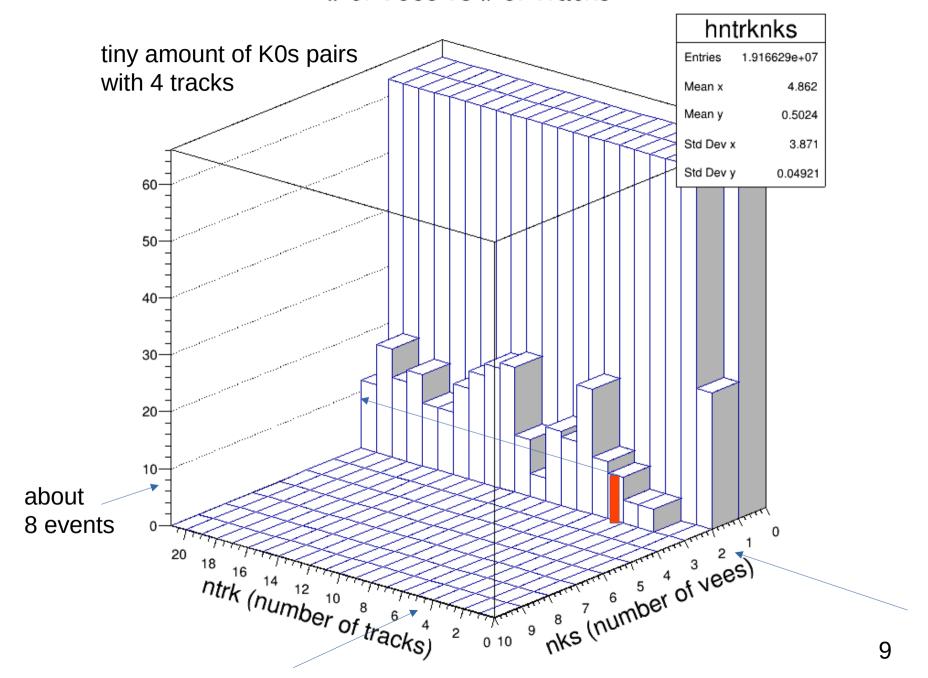
# Ntrk for nPixelHits>0



# of Vees vs # of Tracks



# of Vees vs # of Tracks



Fireworks:

cmsShow event display is not working on my Fedora 30

I have to reinstall all MESA libraries

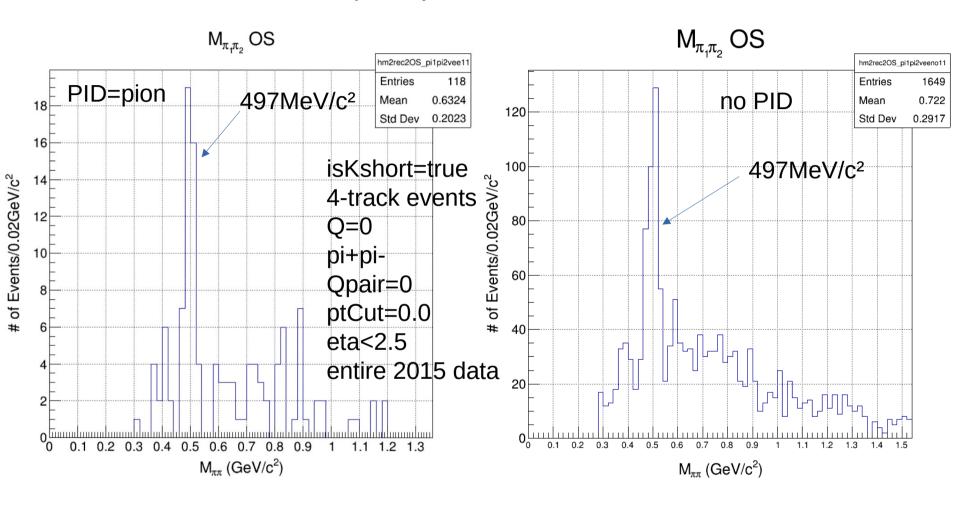
coming soon!

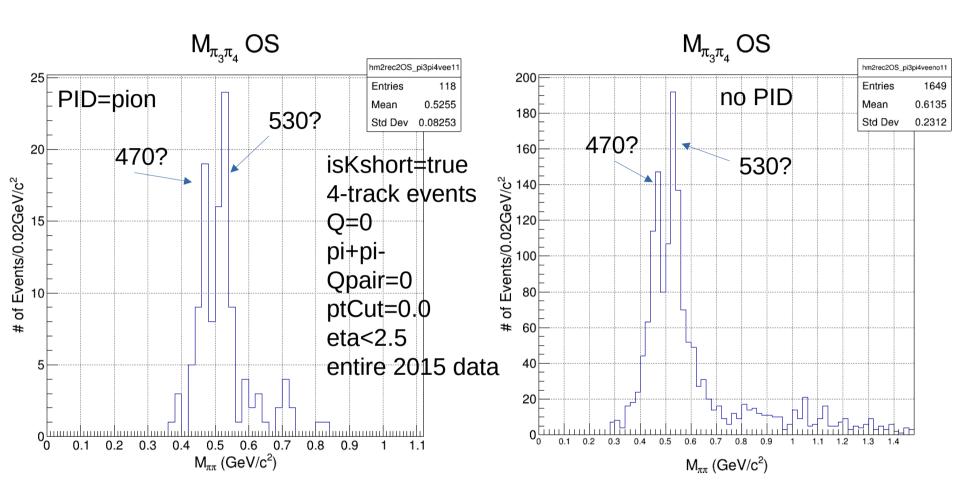
reprocessed the entire 2015 data: job#368

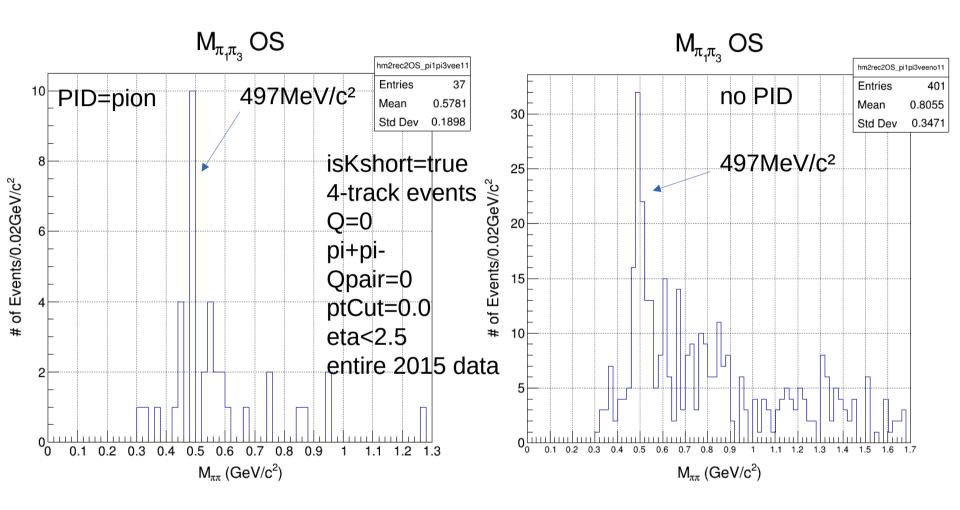
#### Notation:

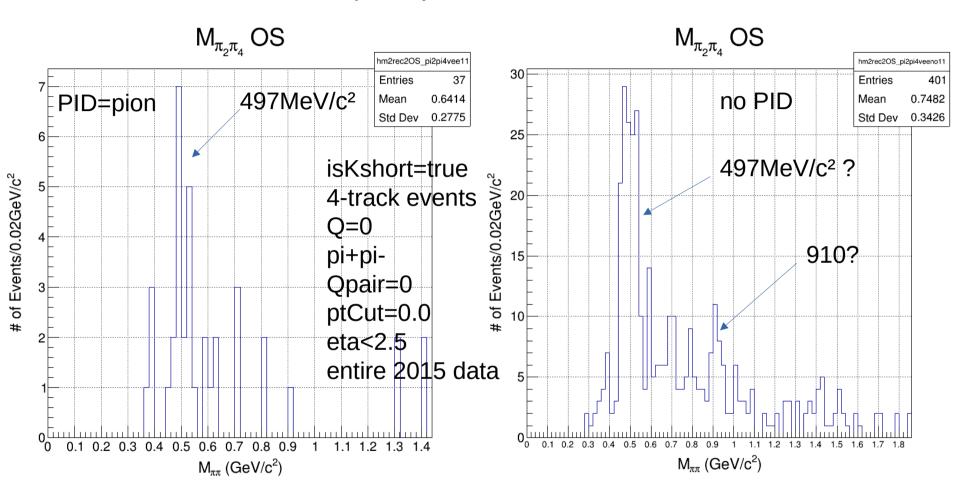
11 : one primary vertex & one Vee nvtx=1 and nks=1

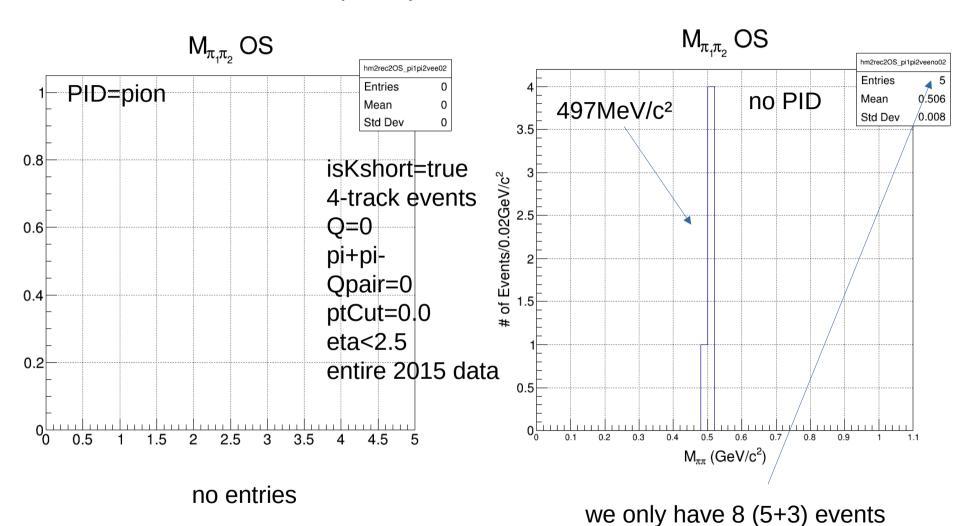
02 : no primary vertex & two Vees nvtx=0 and nks=2







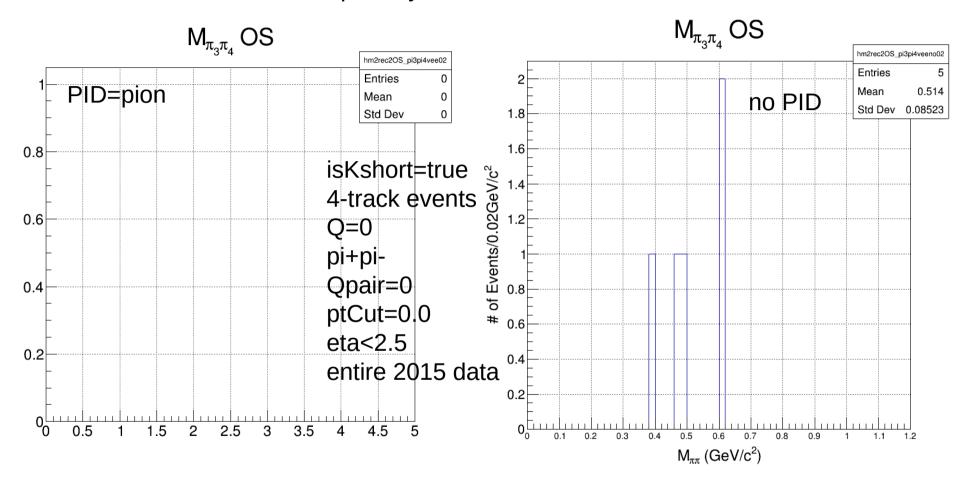




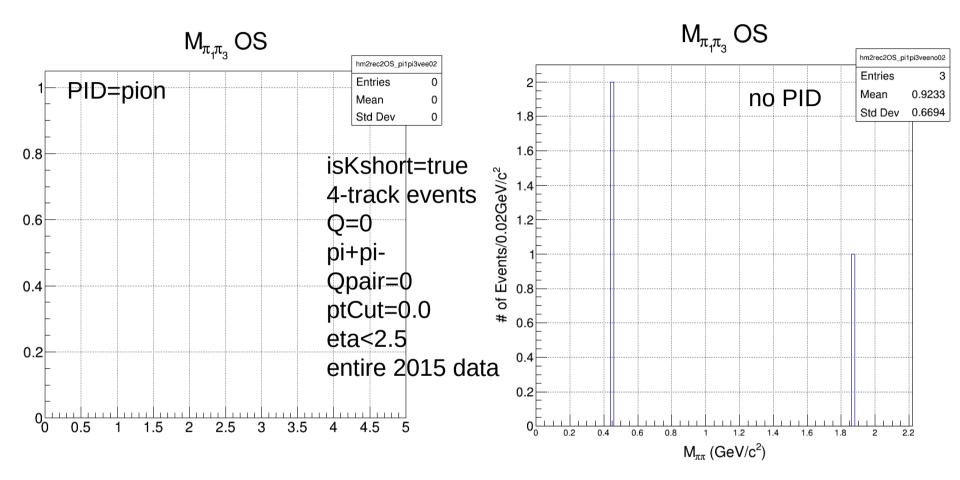
16

of K0sK0s with 4-tracks!

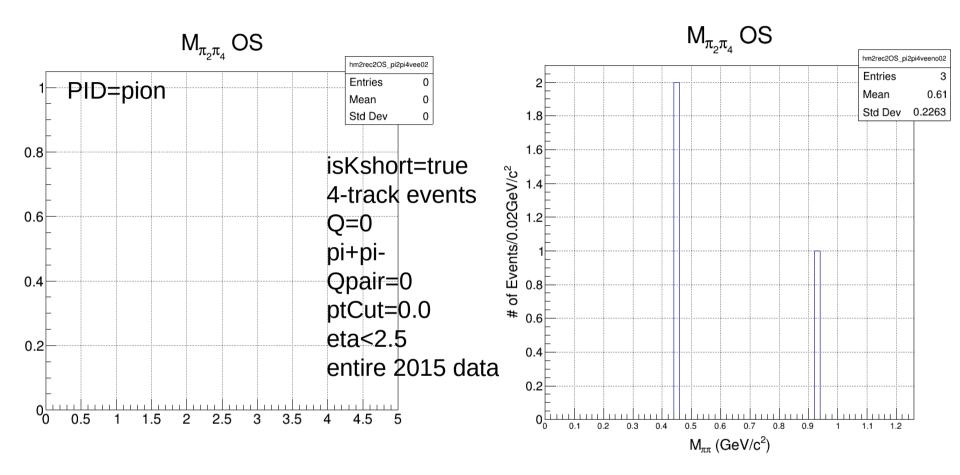
(see next slides)



no entries

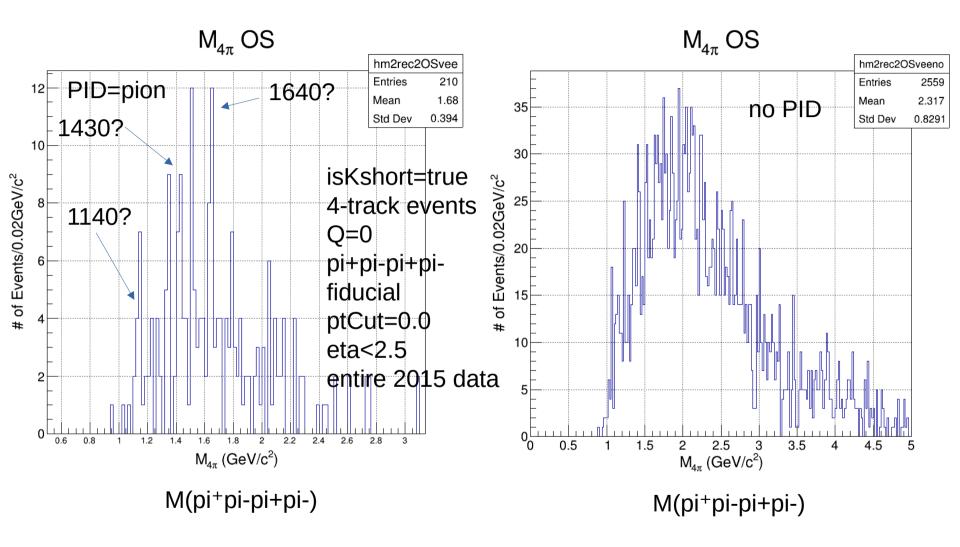


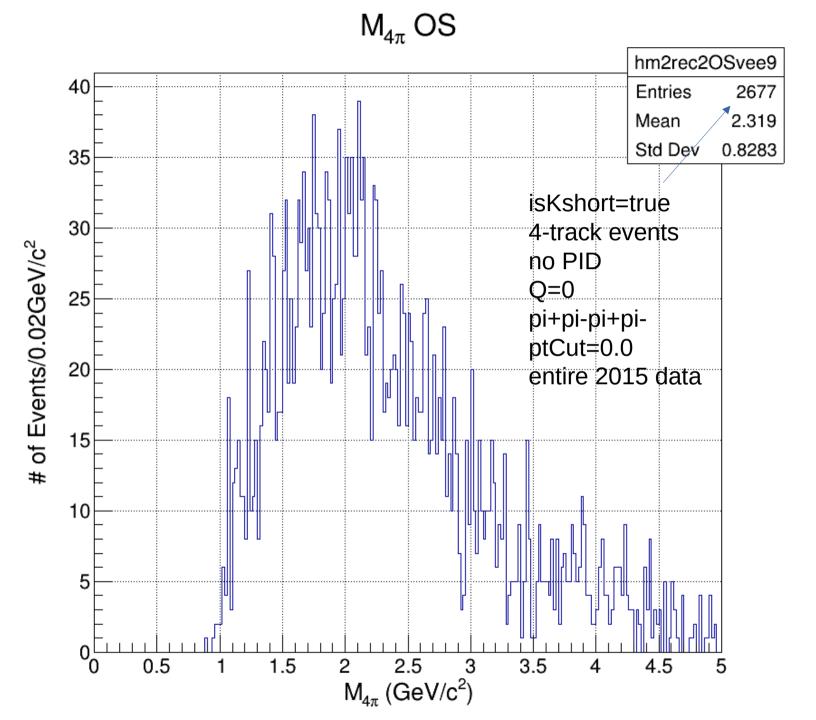
no entries

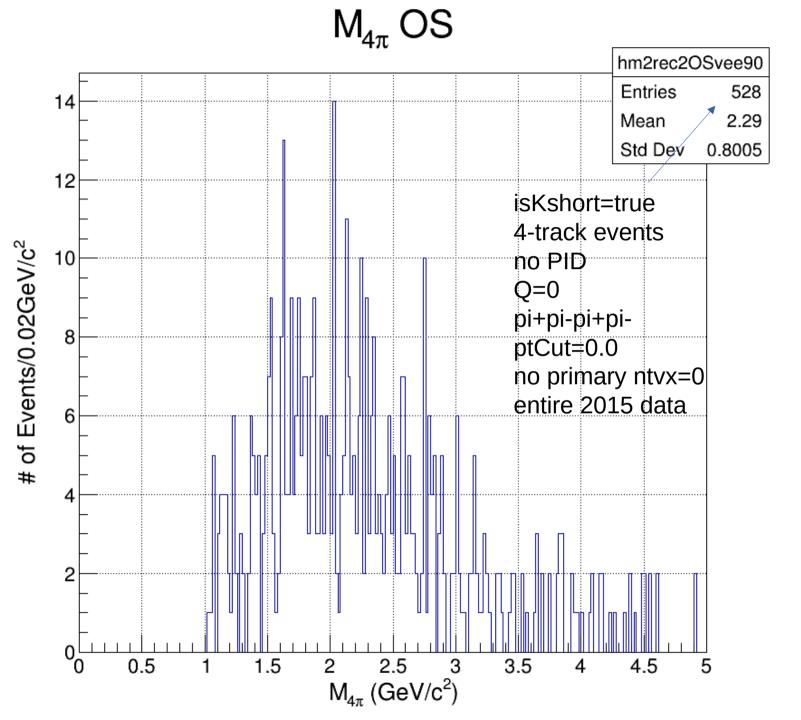


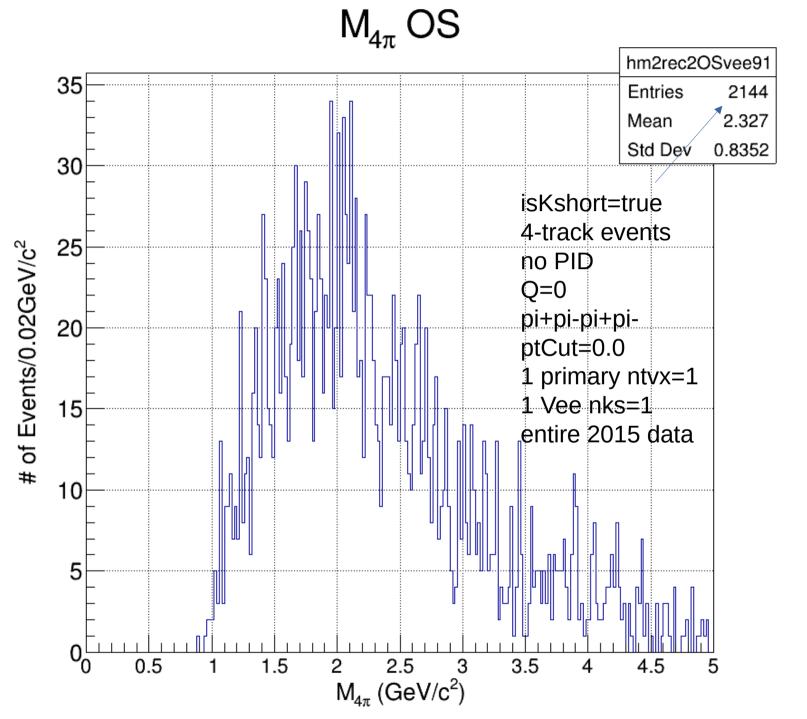
no entries

## 1 primary vertex & 1 Vee + 0 primary vertex & 2 Vees (tiny)

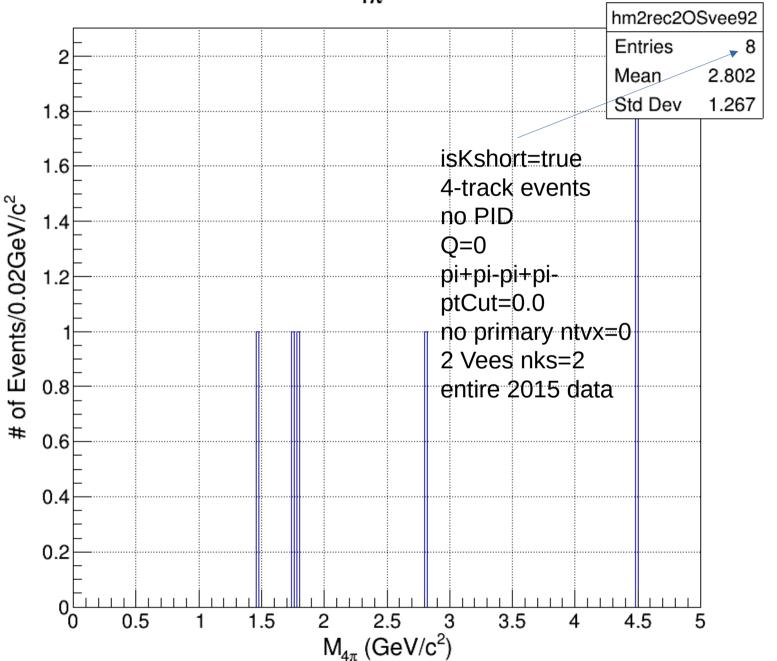


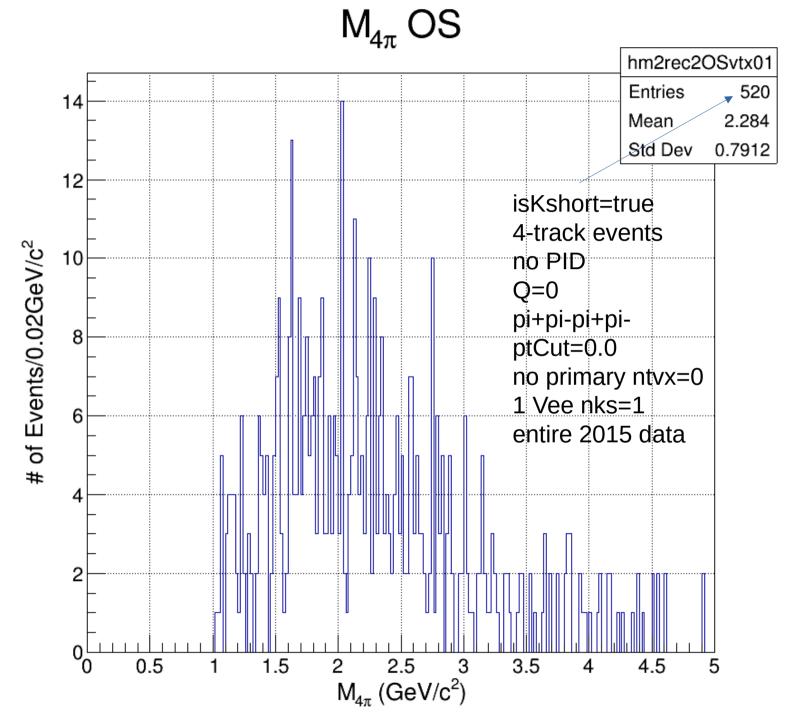






# $M_{4\pi}$ OS





keeping the next plots just for checking

# # of Primary Vertices vs # of Tracks

