

Analysis of Reconstructed Wire Chamber Tracks

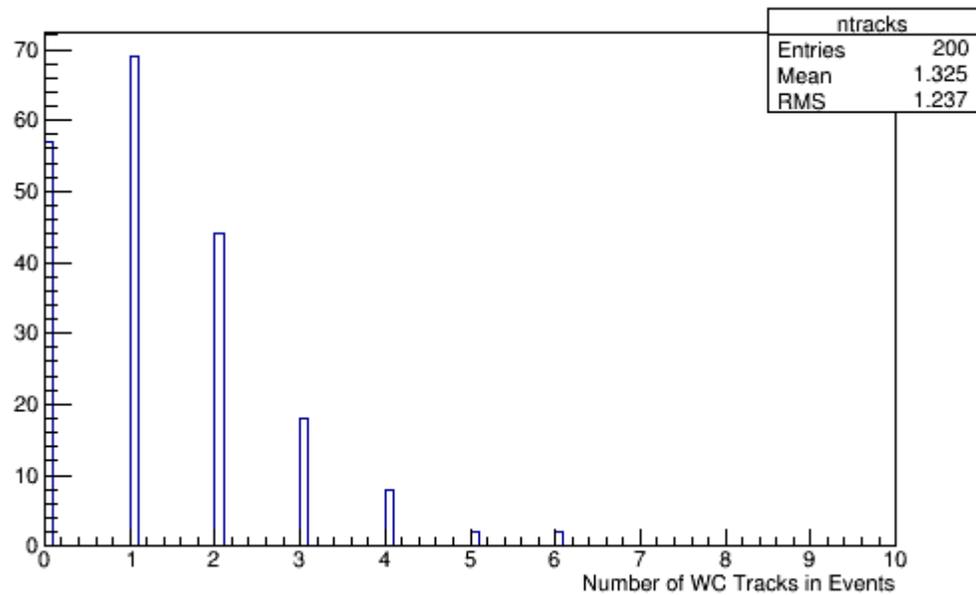
Matt Smylie

Modules

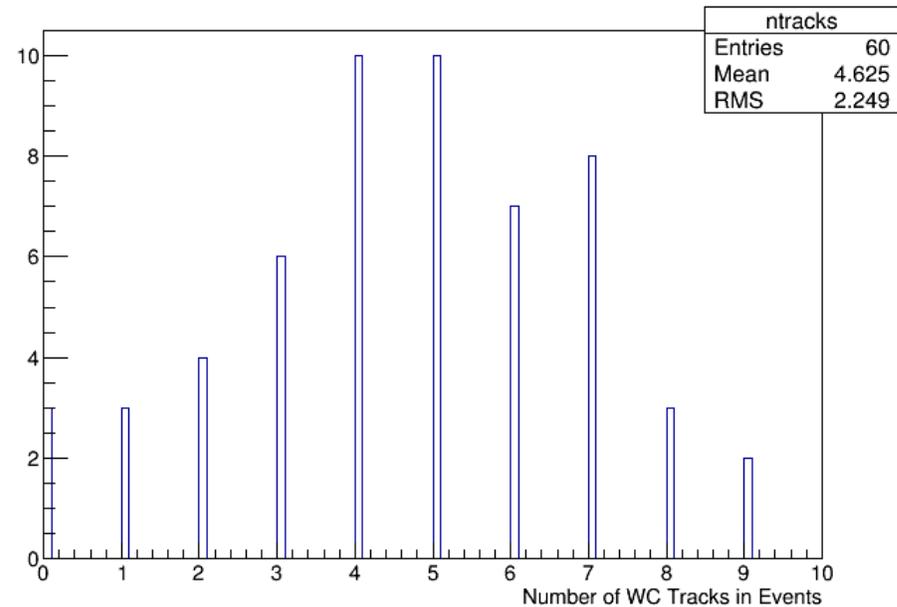
- LArIATRecoModule/WCTrackBuilder
 - Produces track objects.
- LArIATChecks/WCTrackAnalyzer
 - Generates histograms of data from the reconstructed tracks.

Graphs-Tracks per Spill

- Ran 200 spills from run 6308 and 60 spills from run 6263.

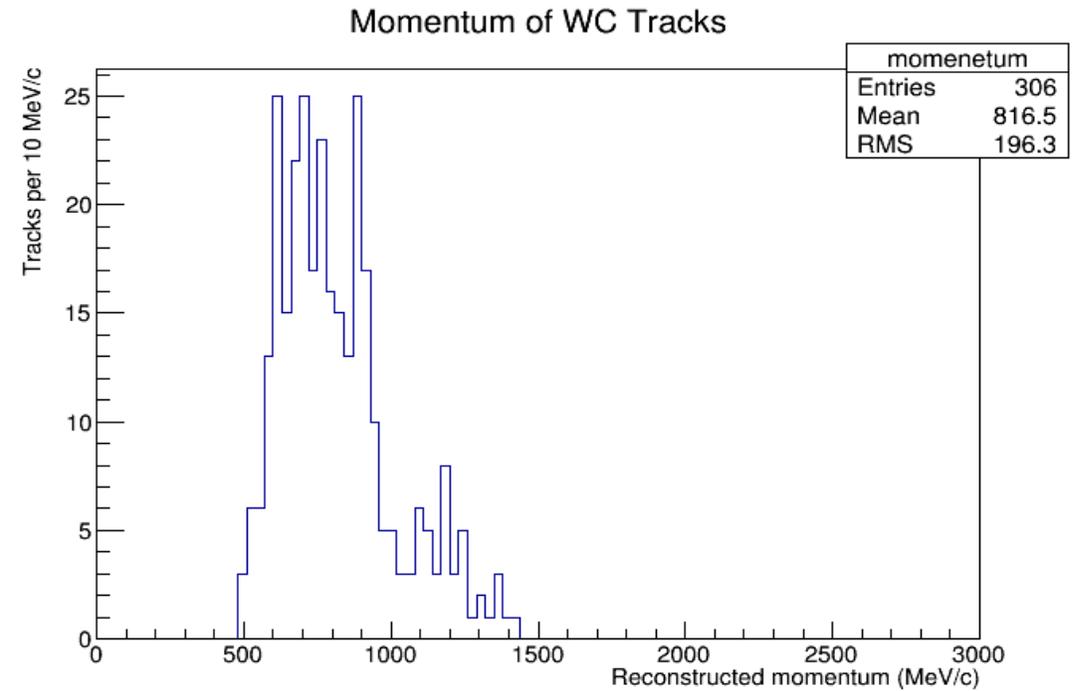
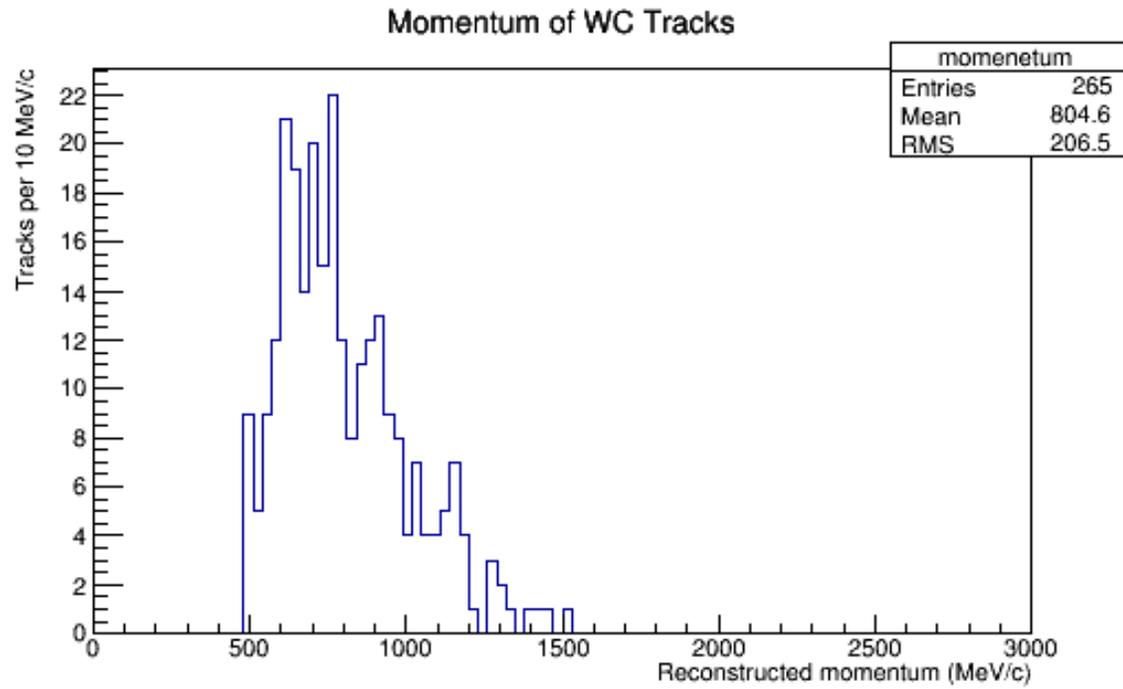


6308

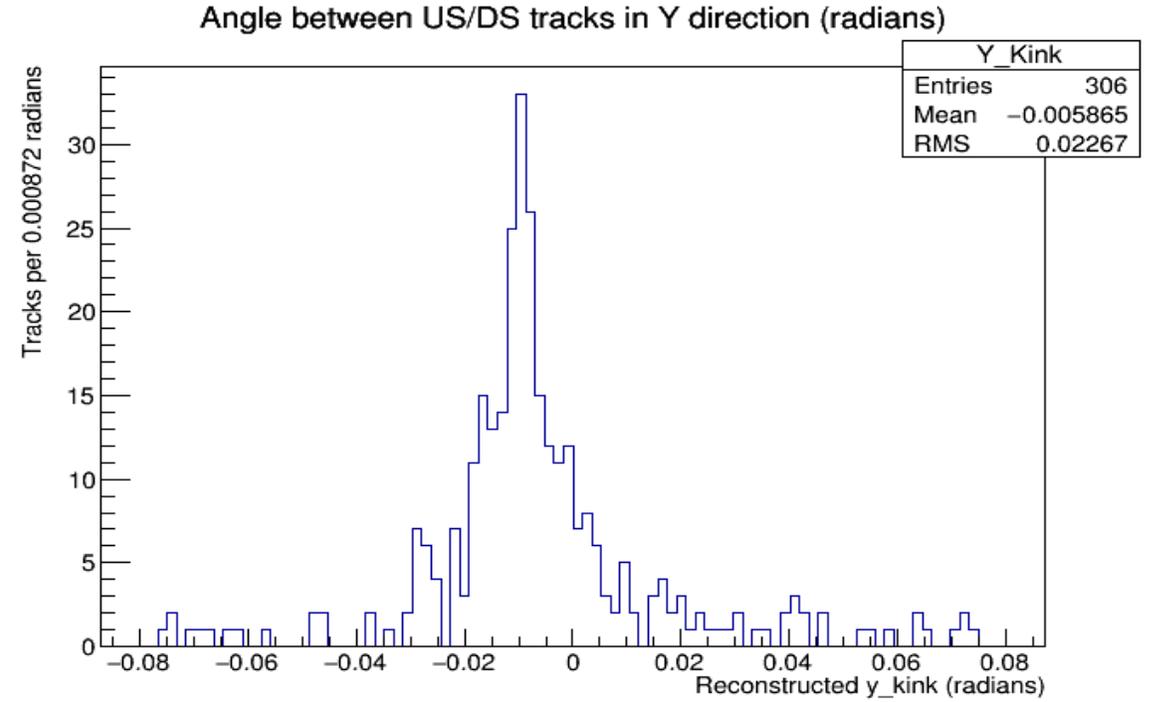
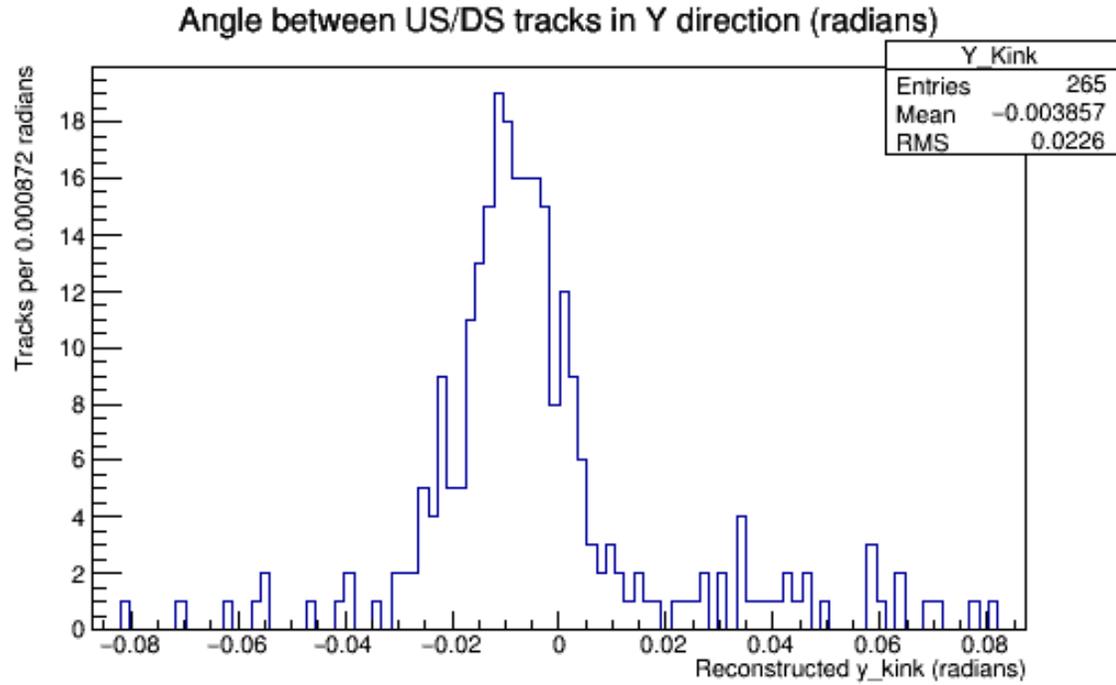


6263

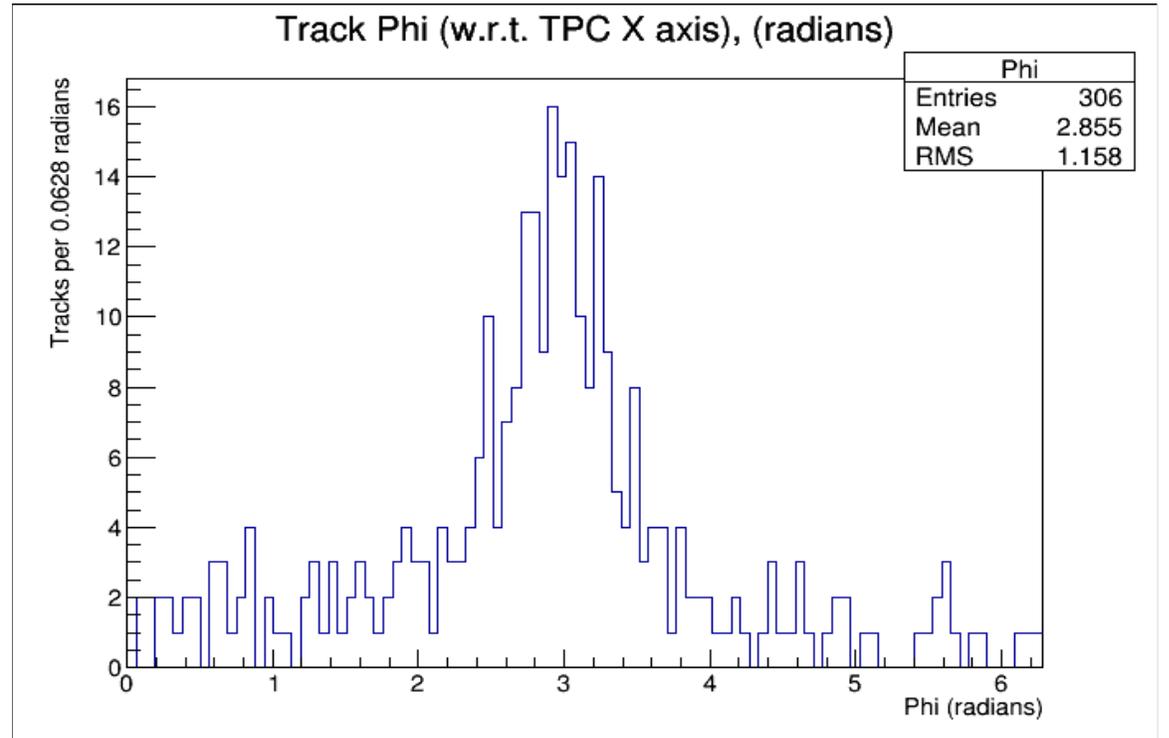
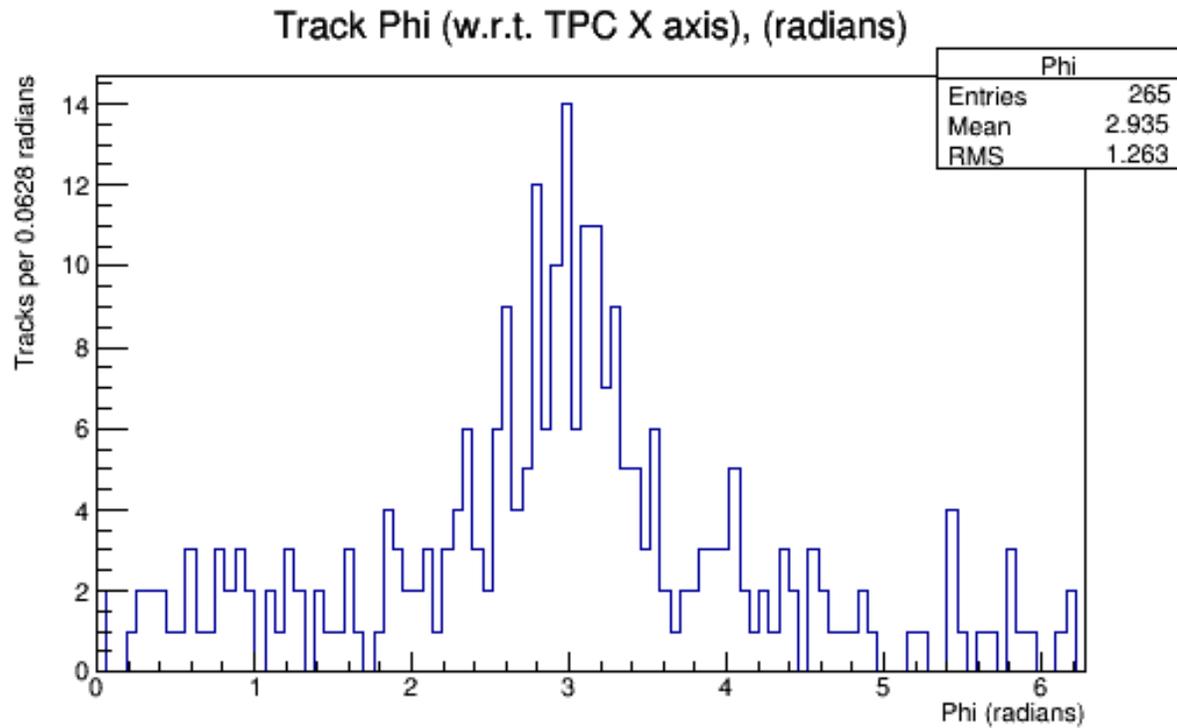
Momentum



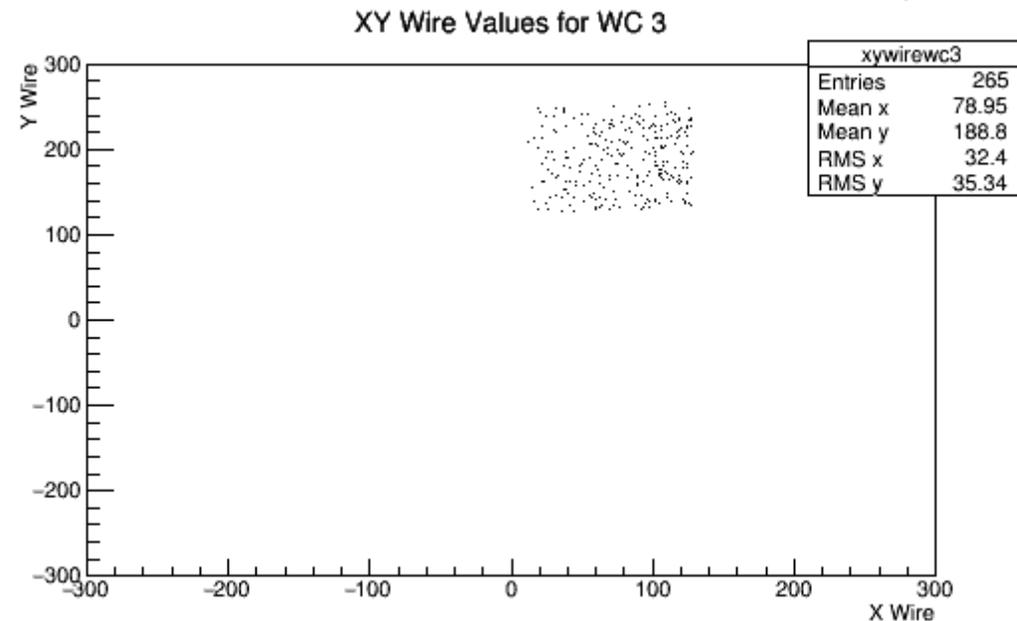
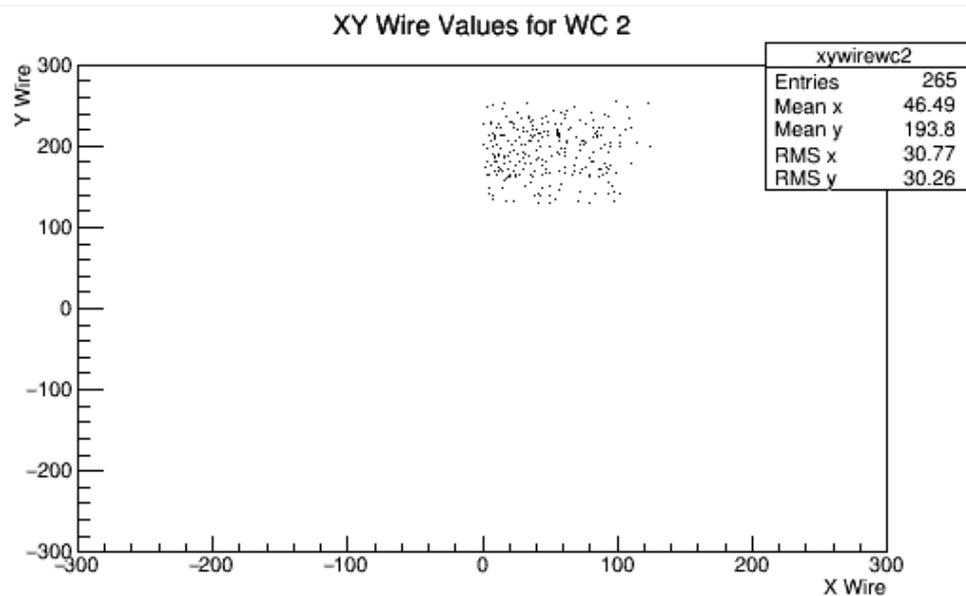
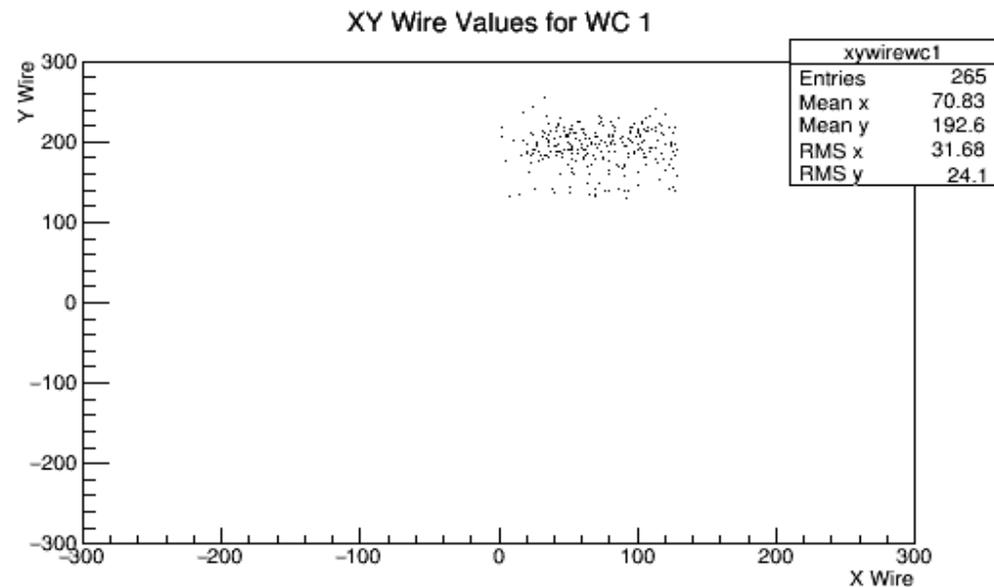
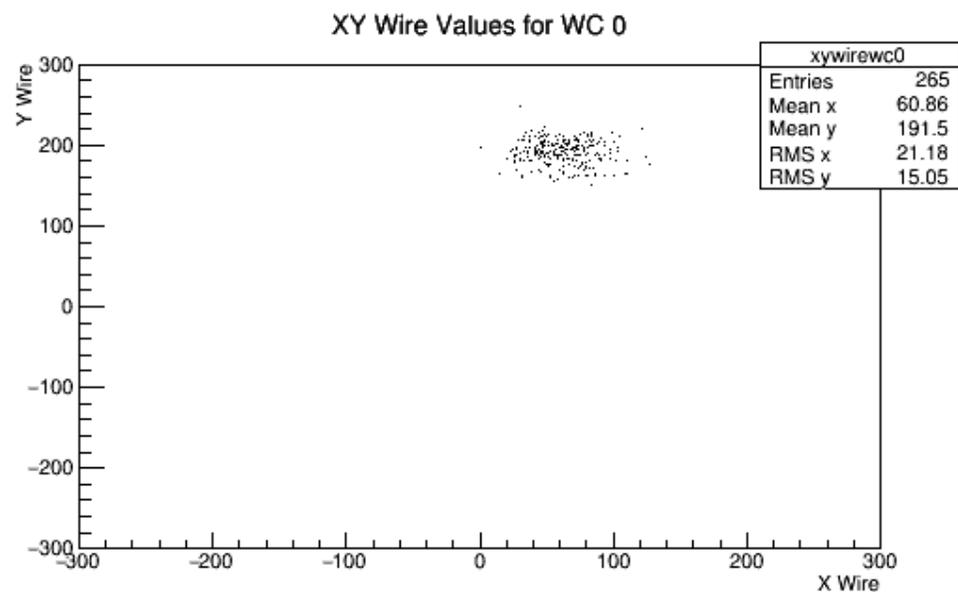
Y Kink



Phi (XY angle on entering TPC)

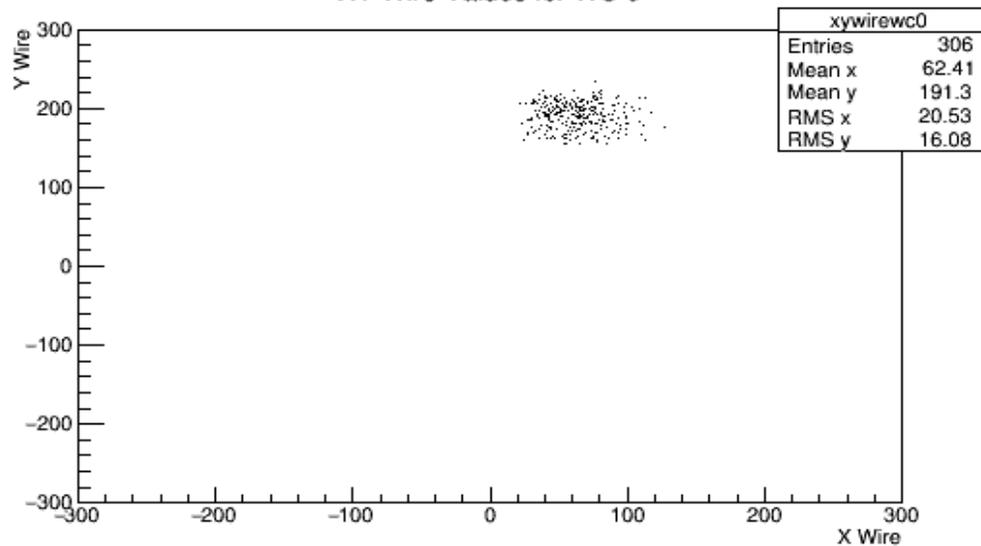


6308 WC Positions

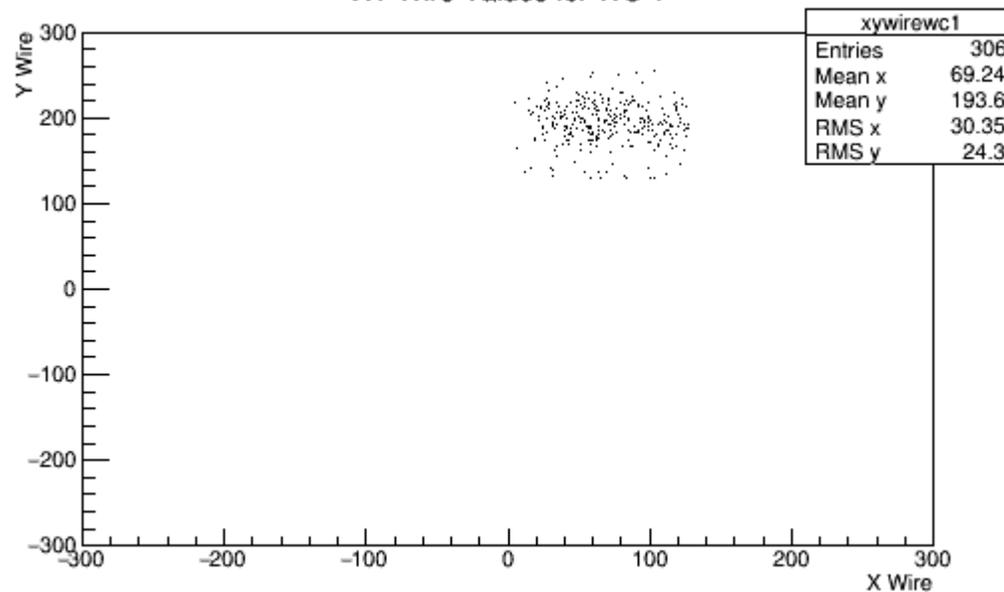


6263 WC Positions

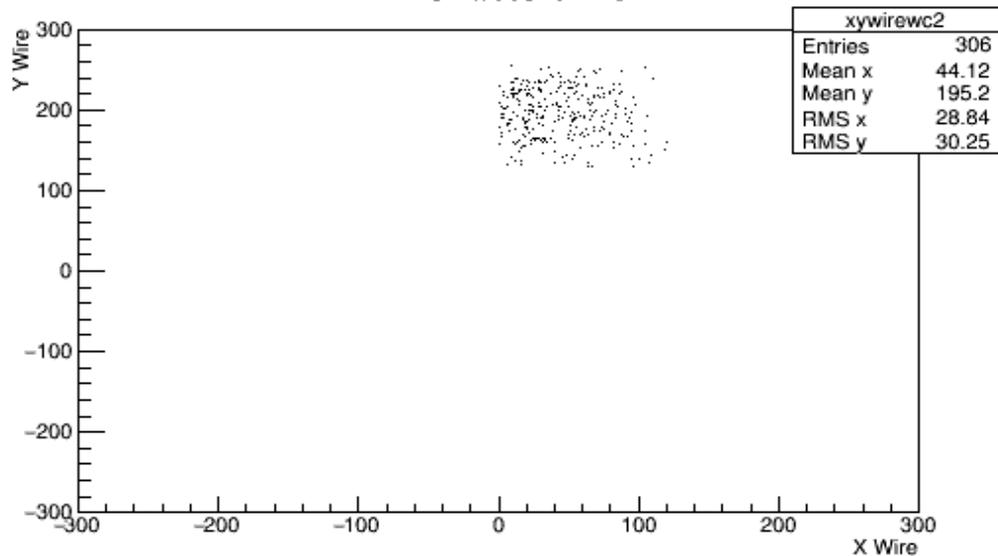
XY Wire Values for WC 0



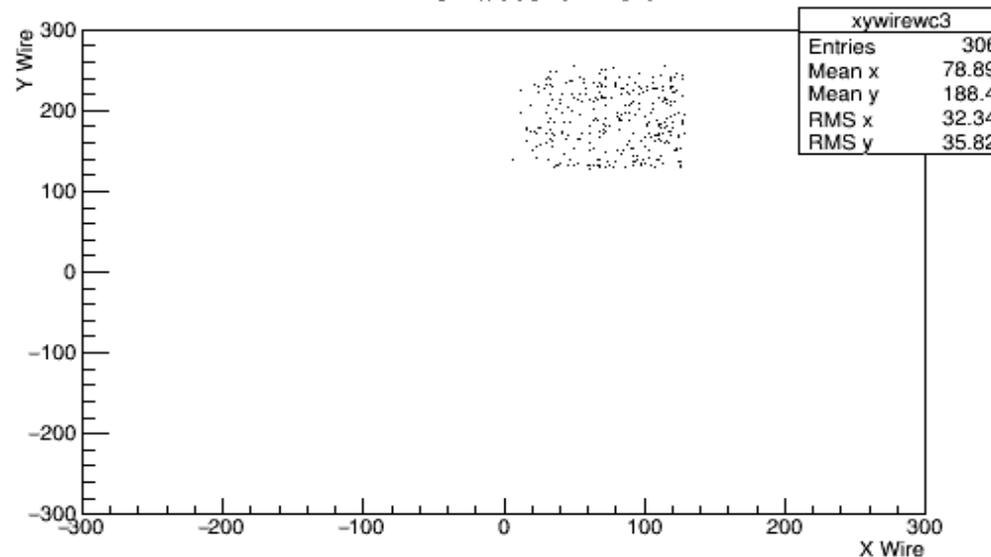
XY Wire Values for WC 1



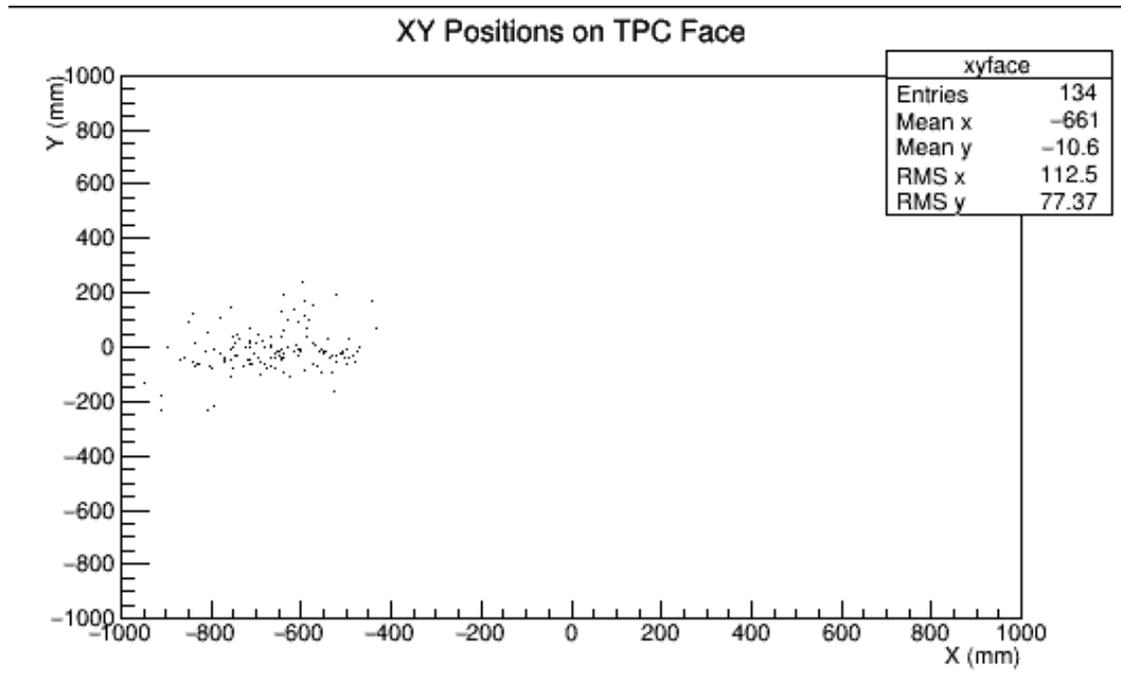
XY Wire Values for WC 2



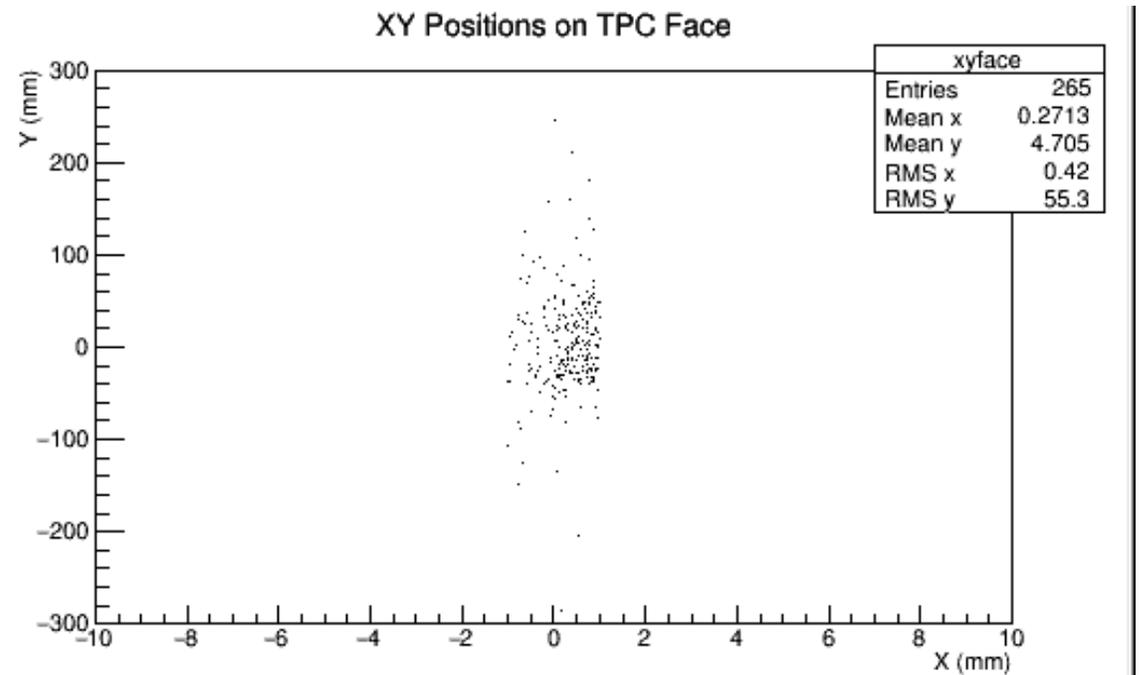
XY Wire Values for WC 3



6308 TPC XY Values

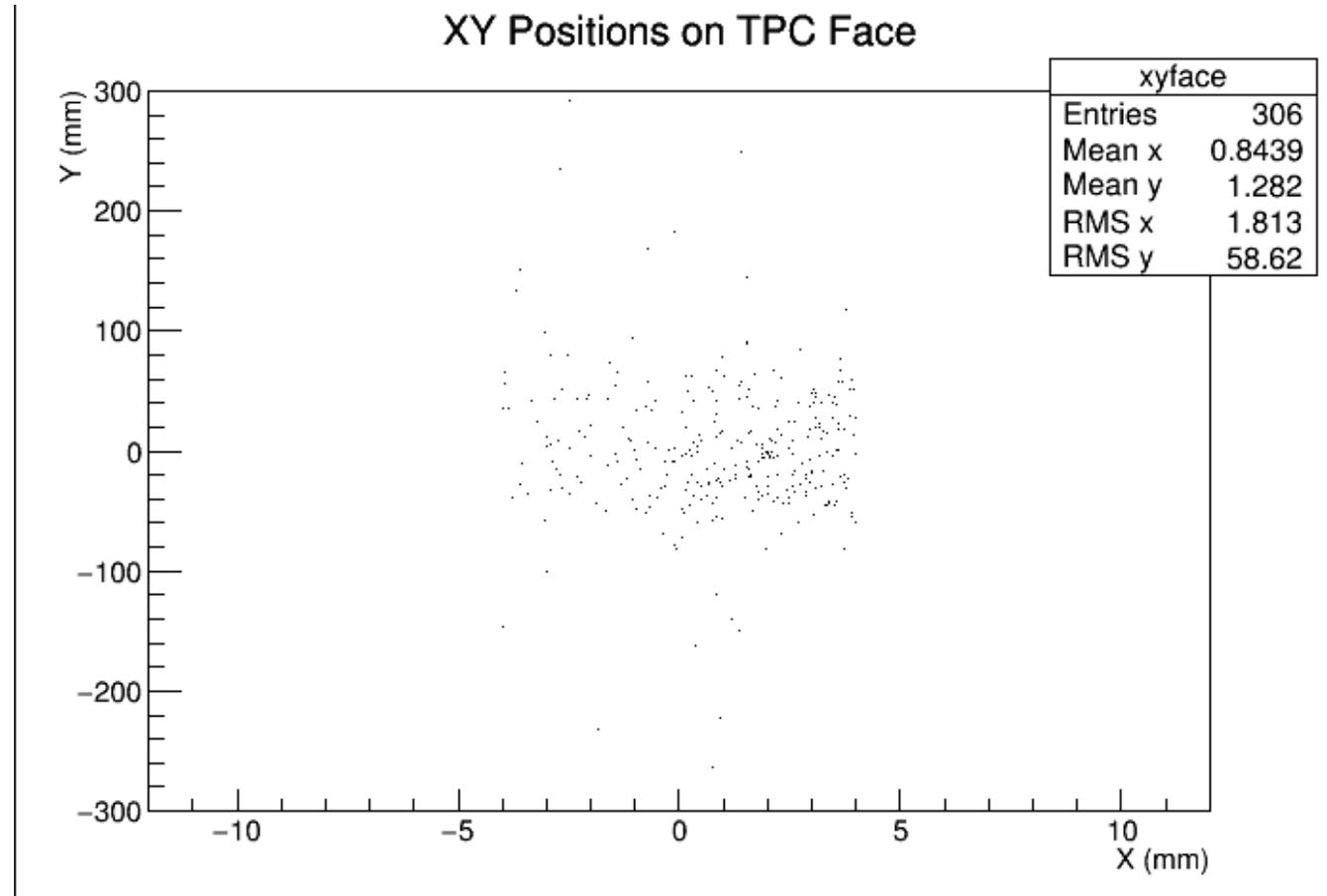


Old, bad geometry.



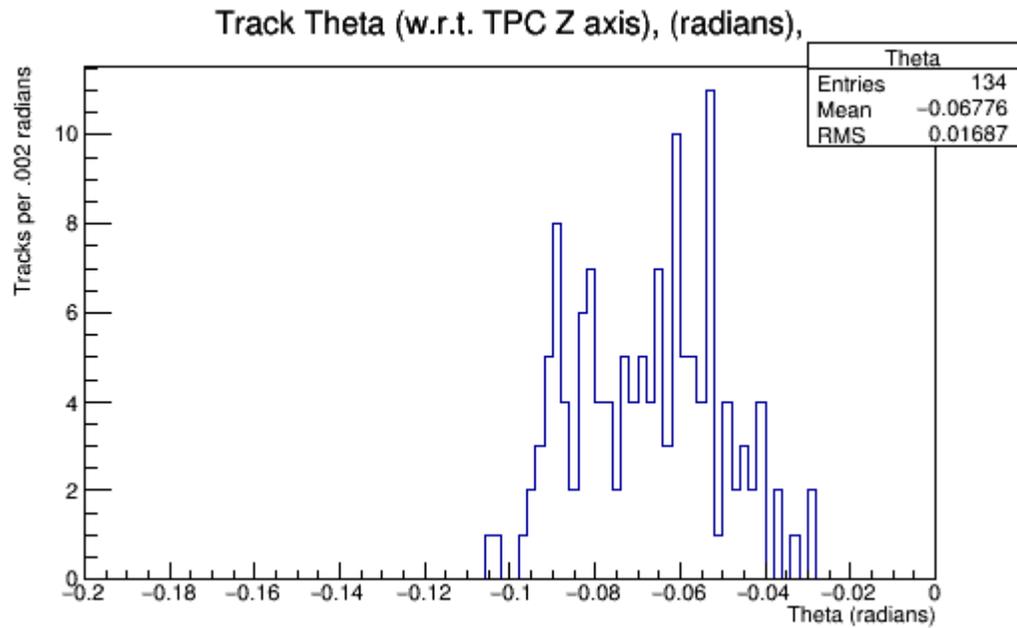
Sexy new geometry.

6263 TPC XY Values

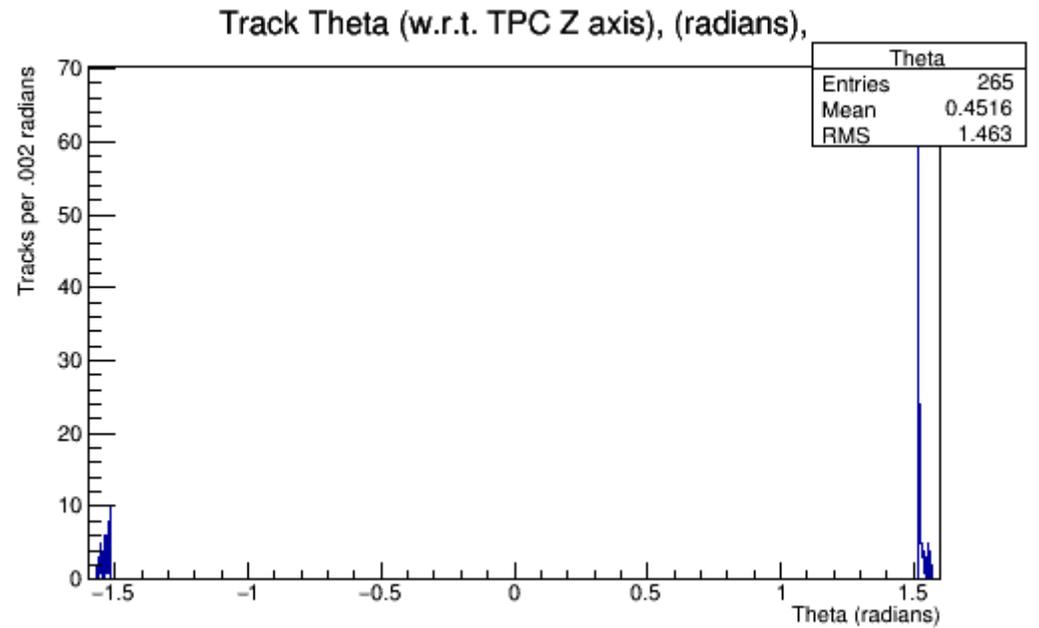


Theta (6308)

Old geometry.



New geometry.



Still to Do

- Plot number of tracks per trigger.
 - Better measure of efficiency.

Backup