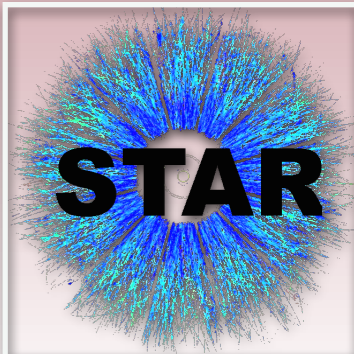

W Analysis on new tracking test sample



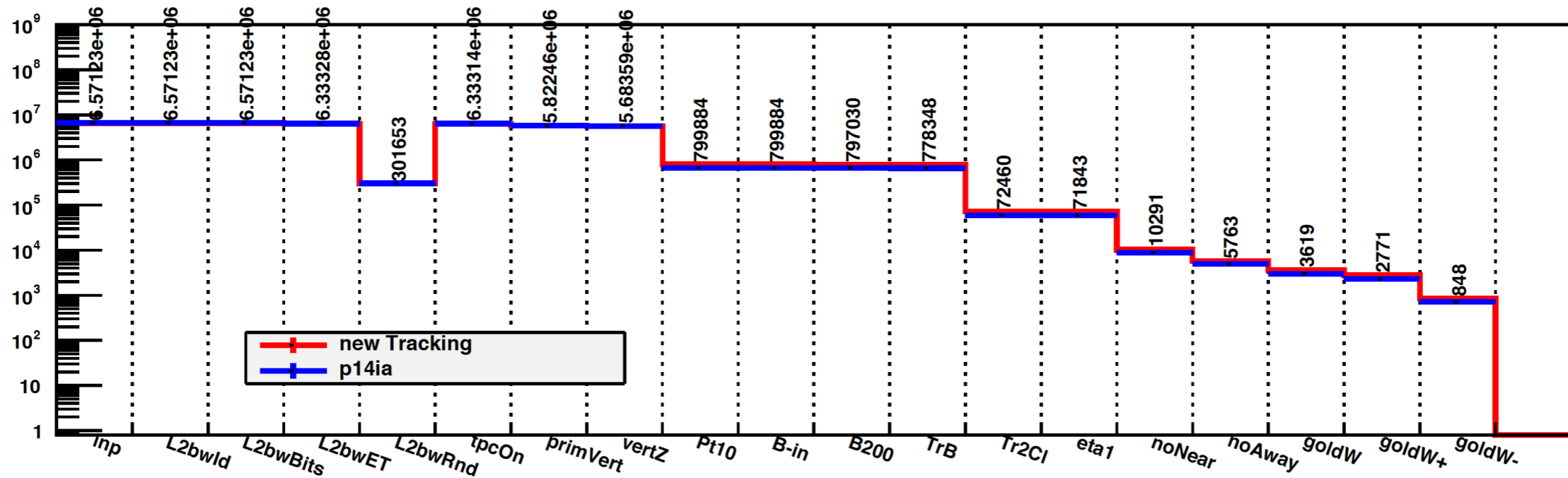
Devika Gunarathne



Notes

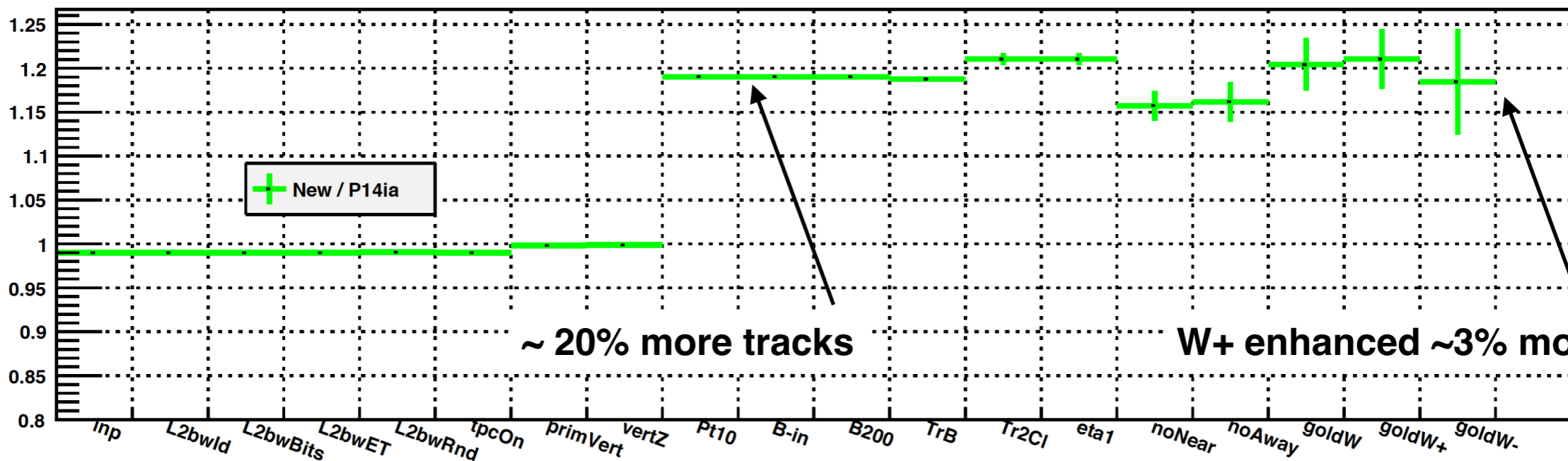
- # of runs Used in the study from period 1 = 624
- Some of the Jobs crashed due to “segmentation violation” for rest of the runs from the period1 of new tracking sample. [need to be investigate why?]
- Results looks promising and new tracking could solve the “eta-dip” seen at mid-rapidity.

Event Counts



New / Old

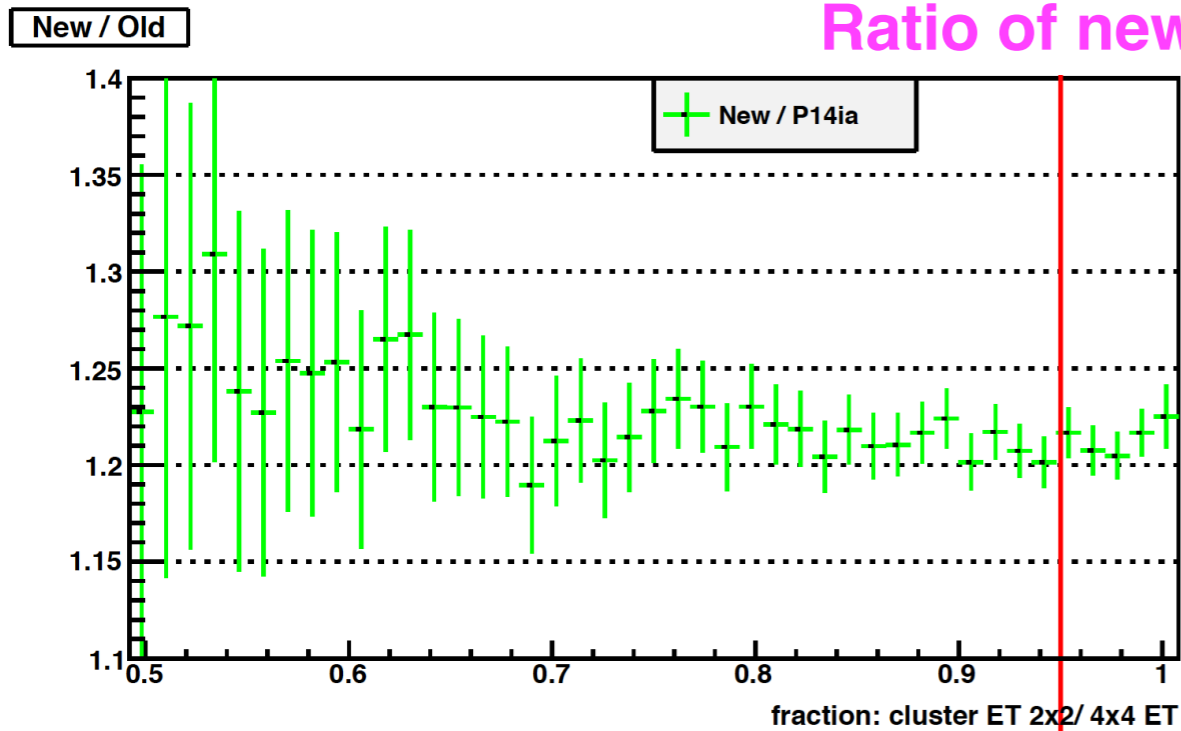
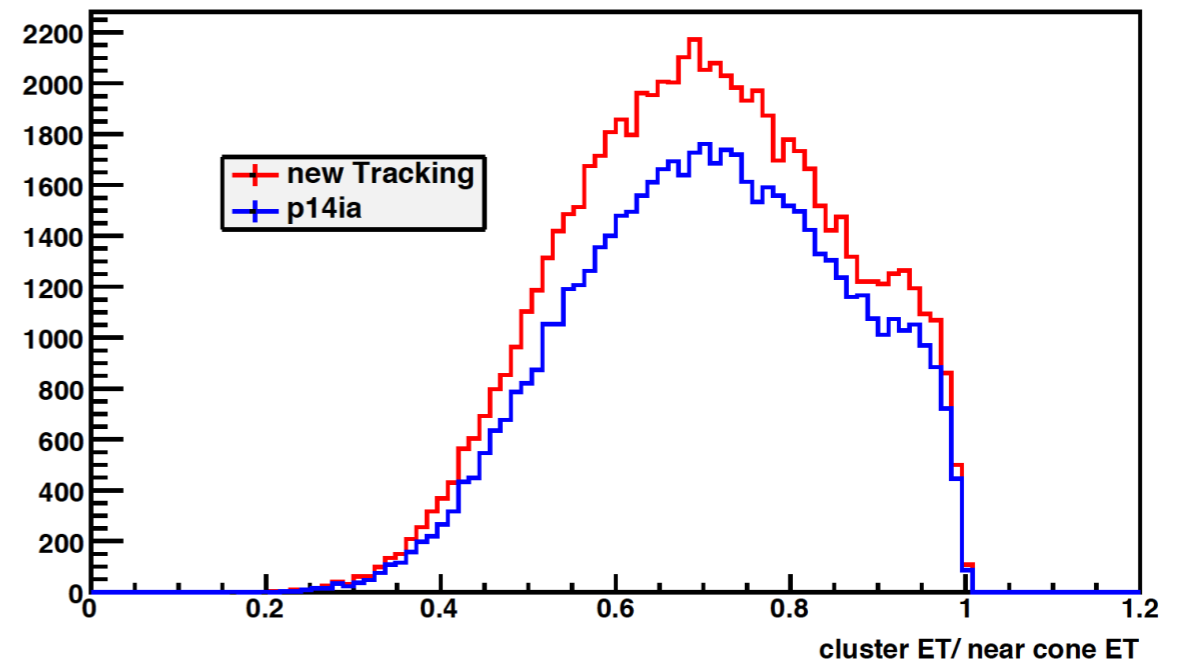
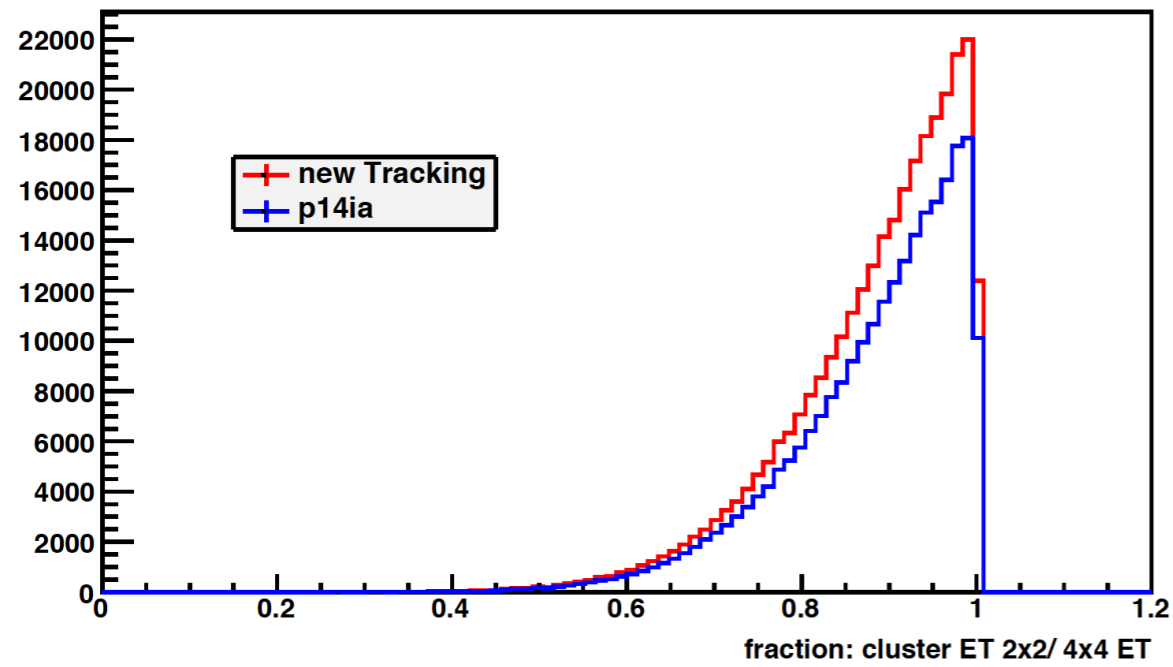
Ratio of new tracking to old tracking



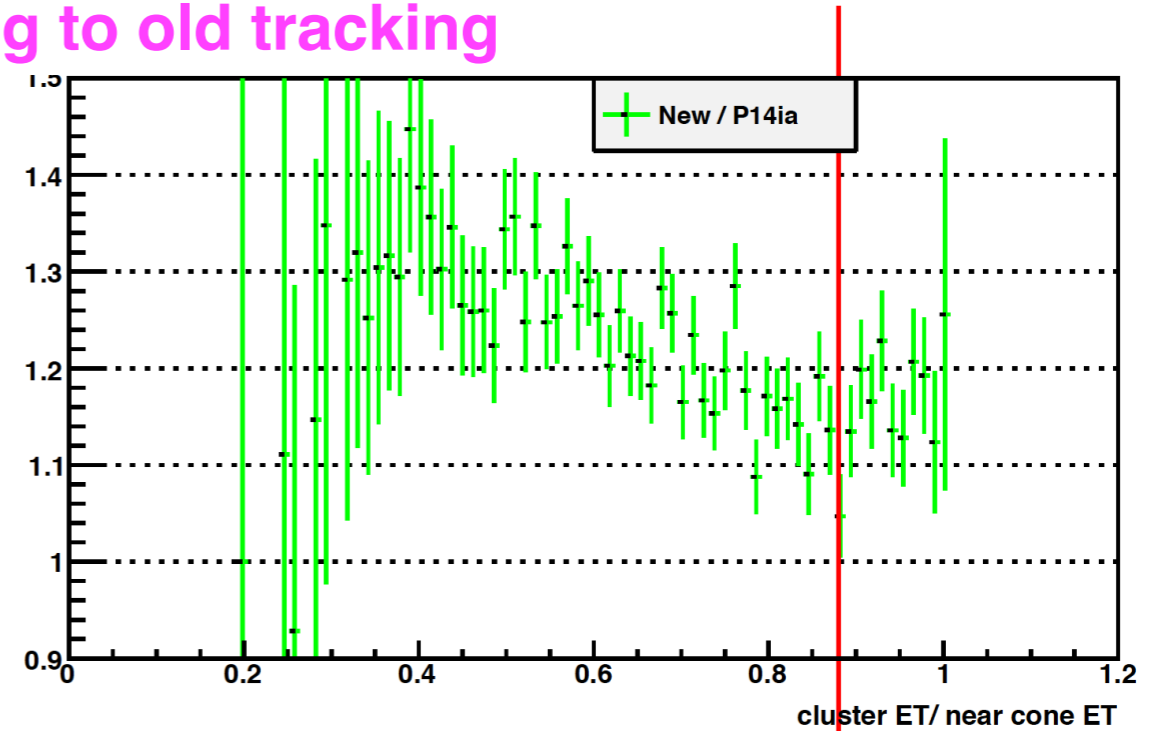
~ 20% more tracks

W+ enhanced ~3% more than W-

Isolation cuts

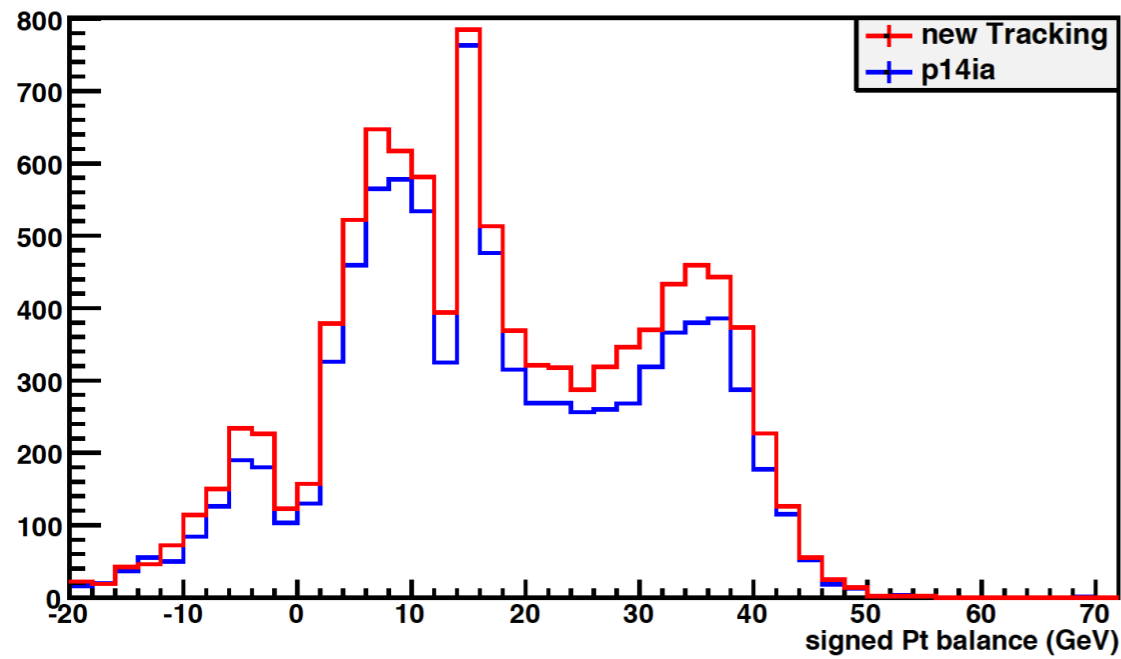


Ratio of new tracking to old tracking

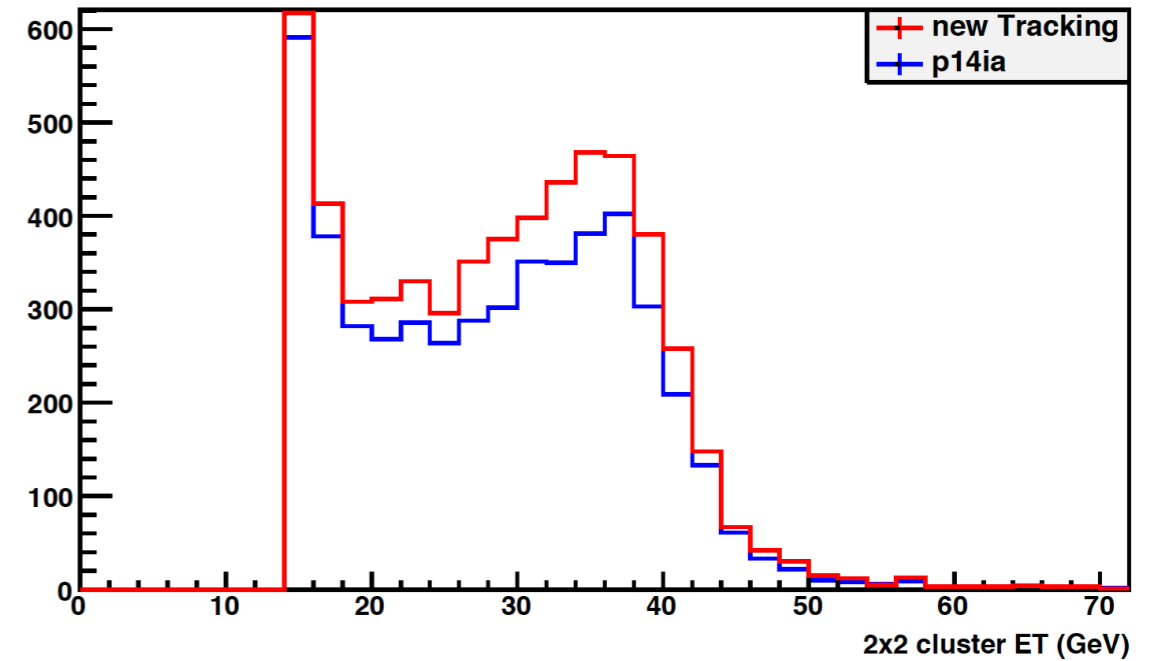


Final W Selection

Barrel: sPtBalance vs cluster ET

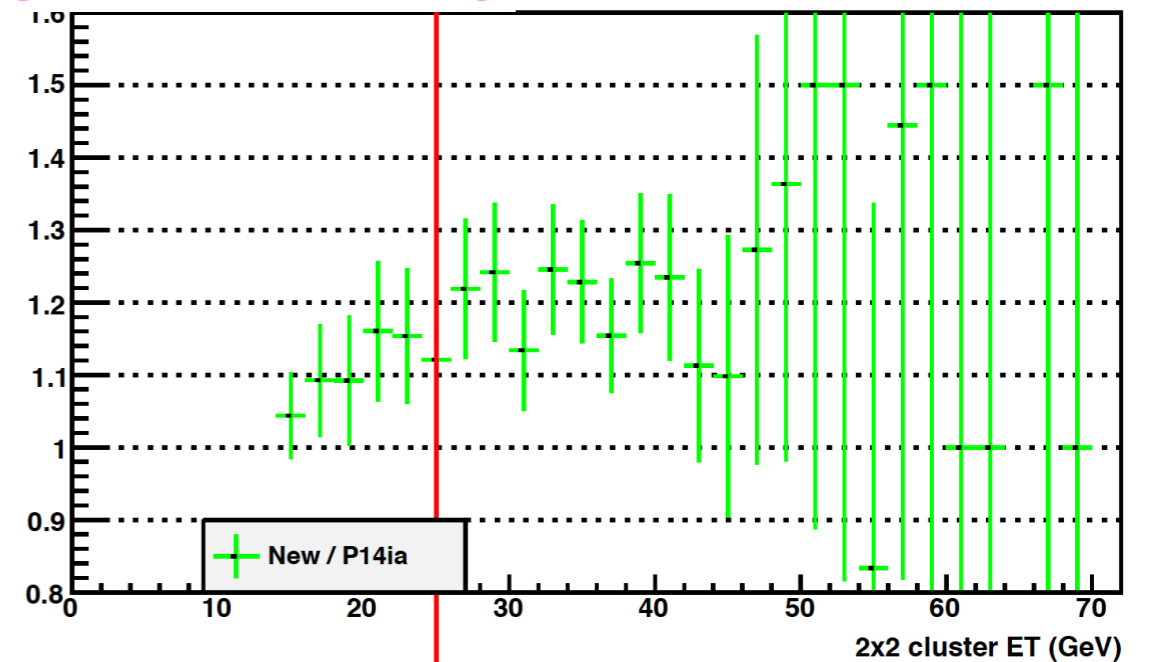
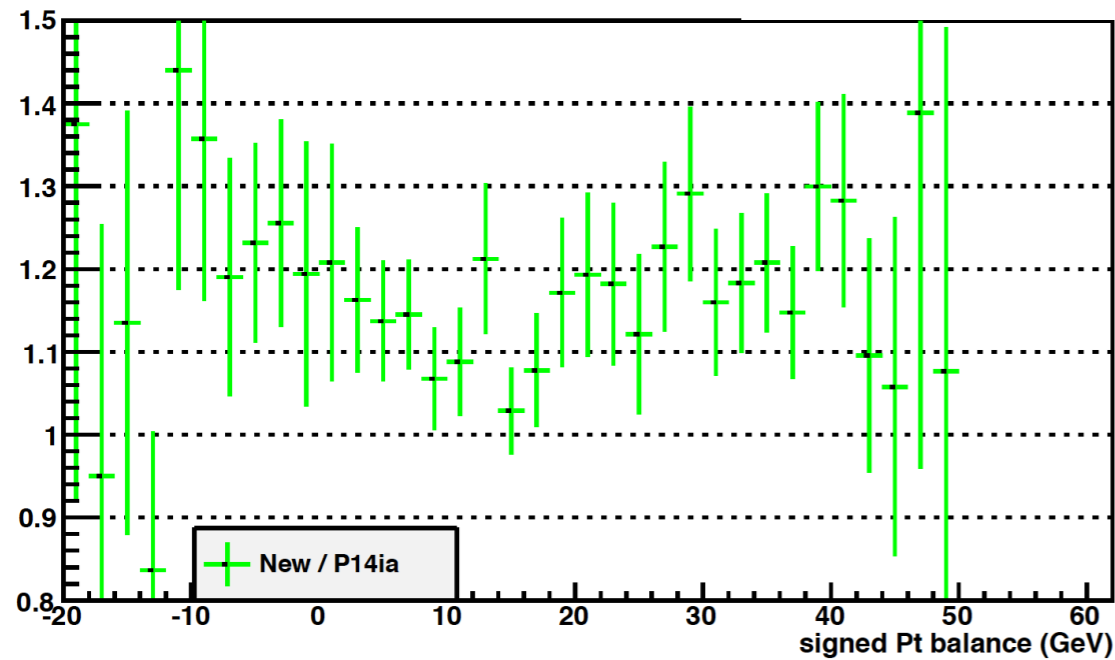


Barrel W: Final Selection : 2011Walgo

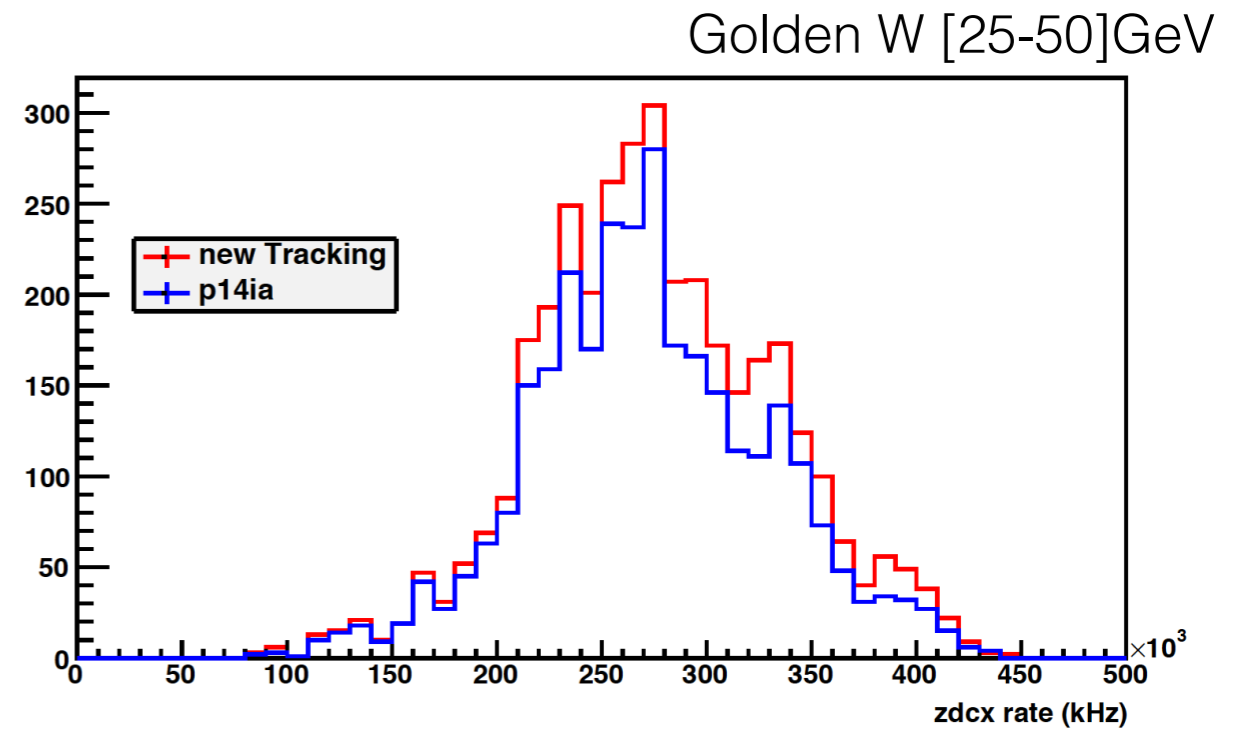
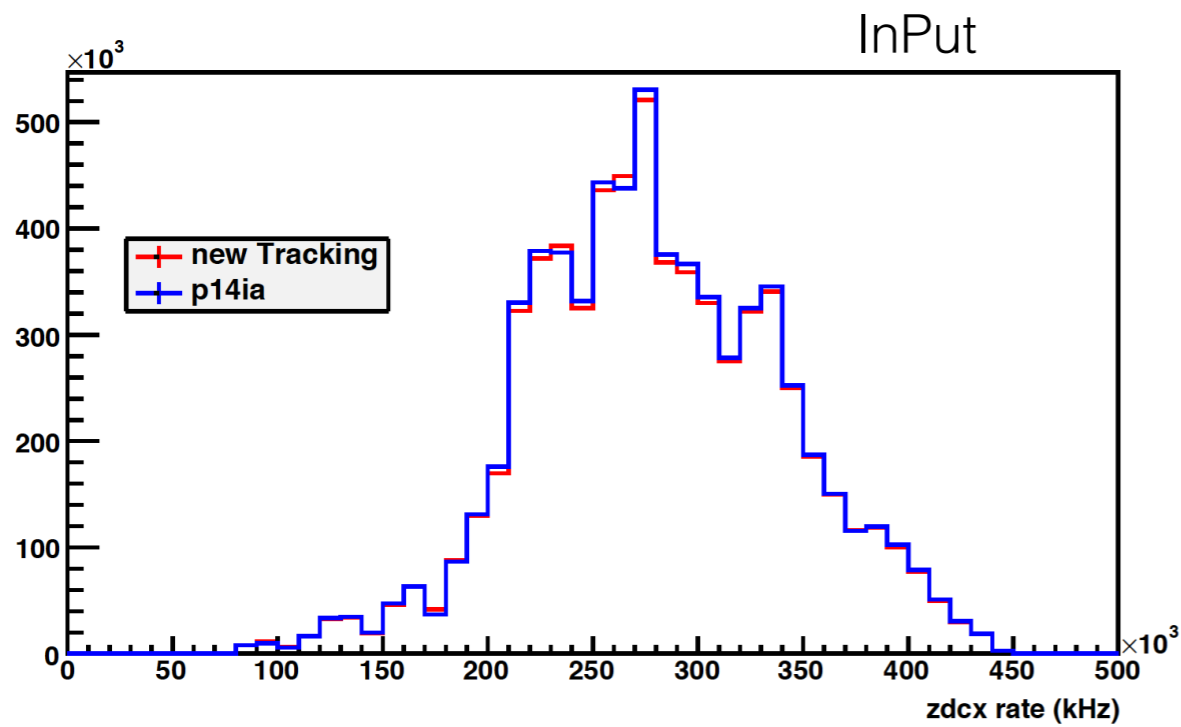


New / Old

Ratio of new tracking to old tracking

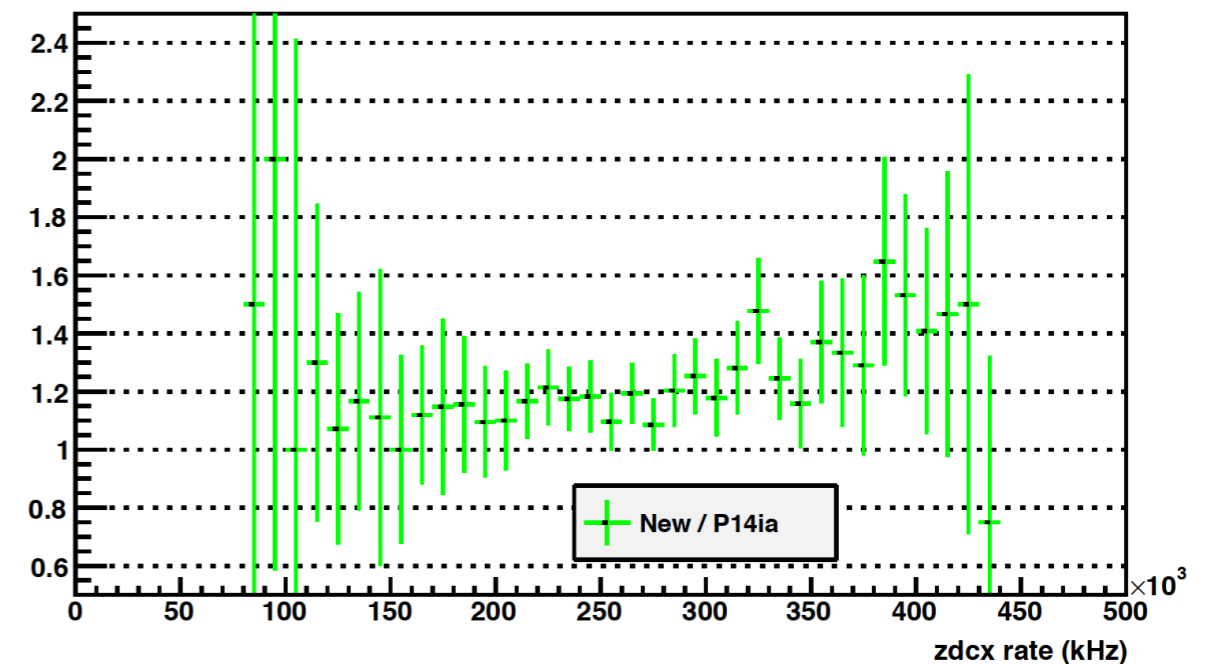
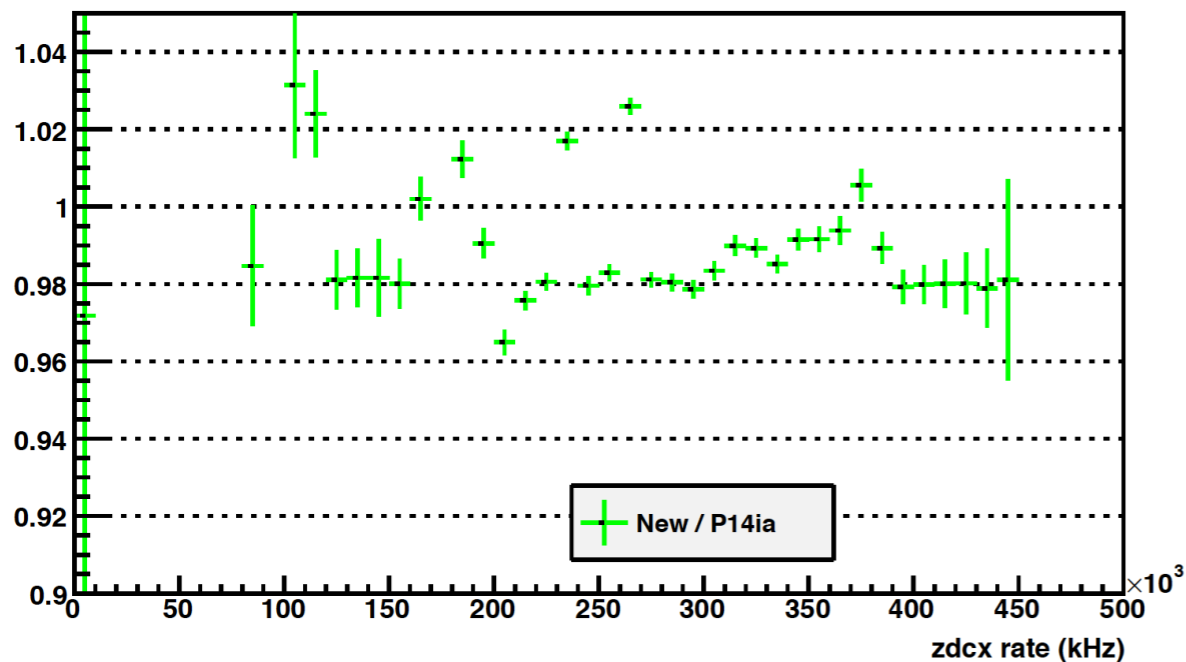


ZDC_X Distribution

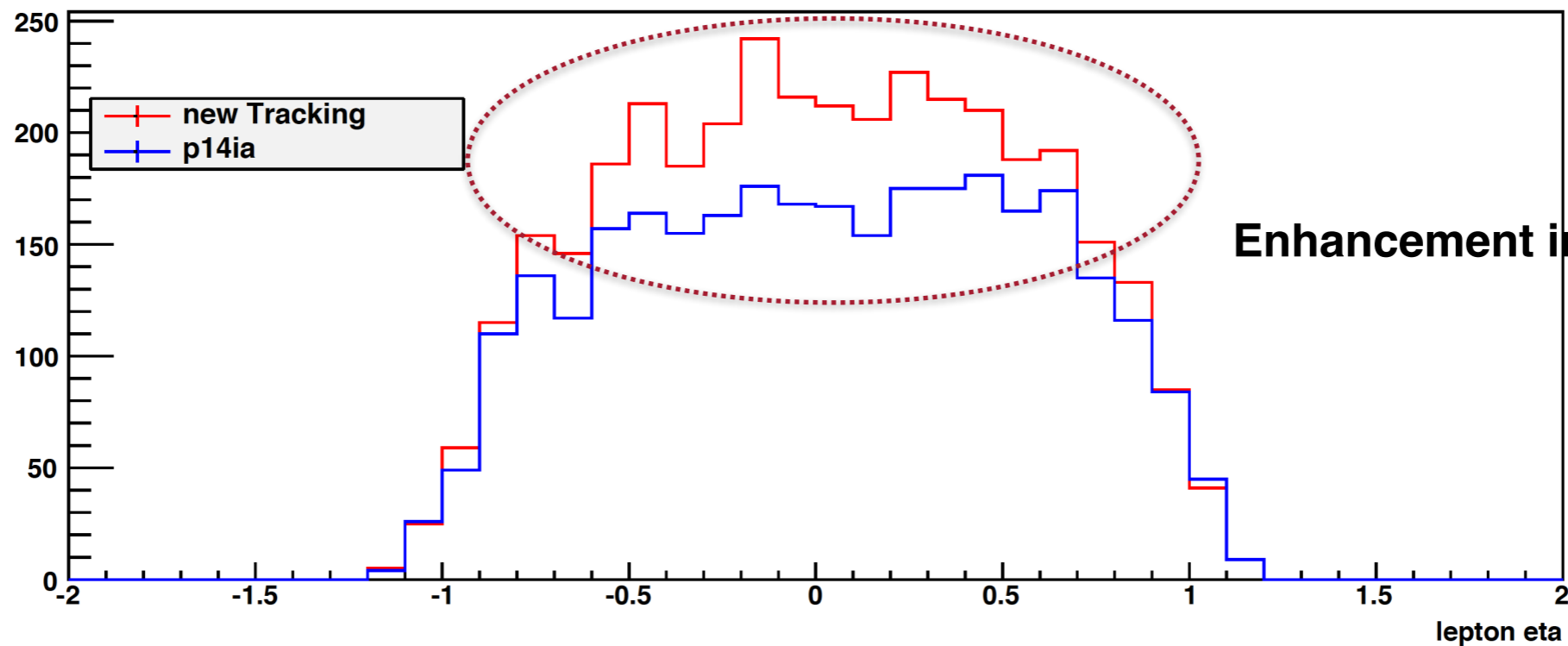


New / Old

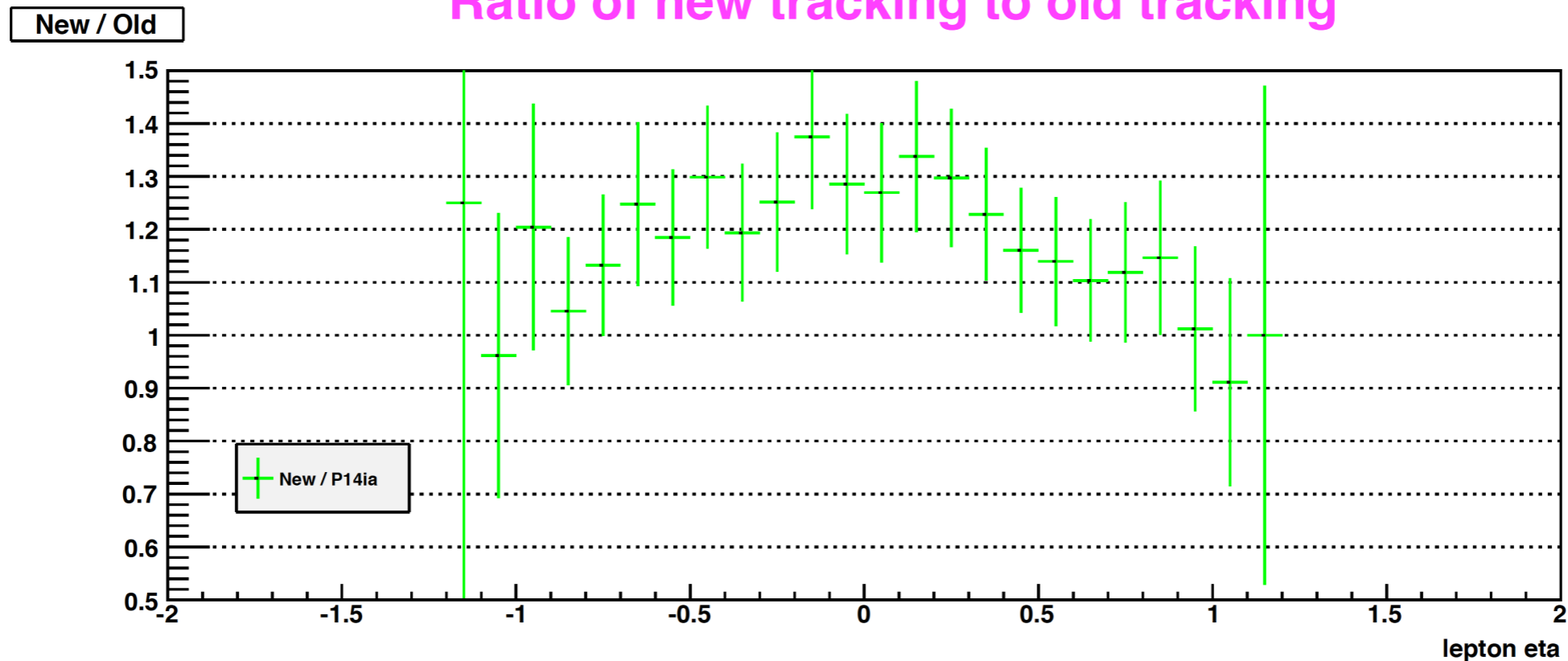
Ratio of new tracking to old tracking



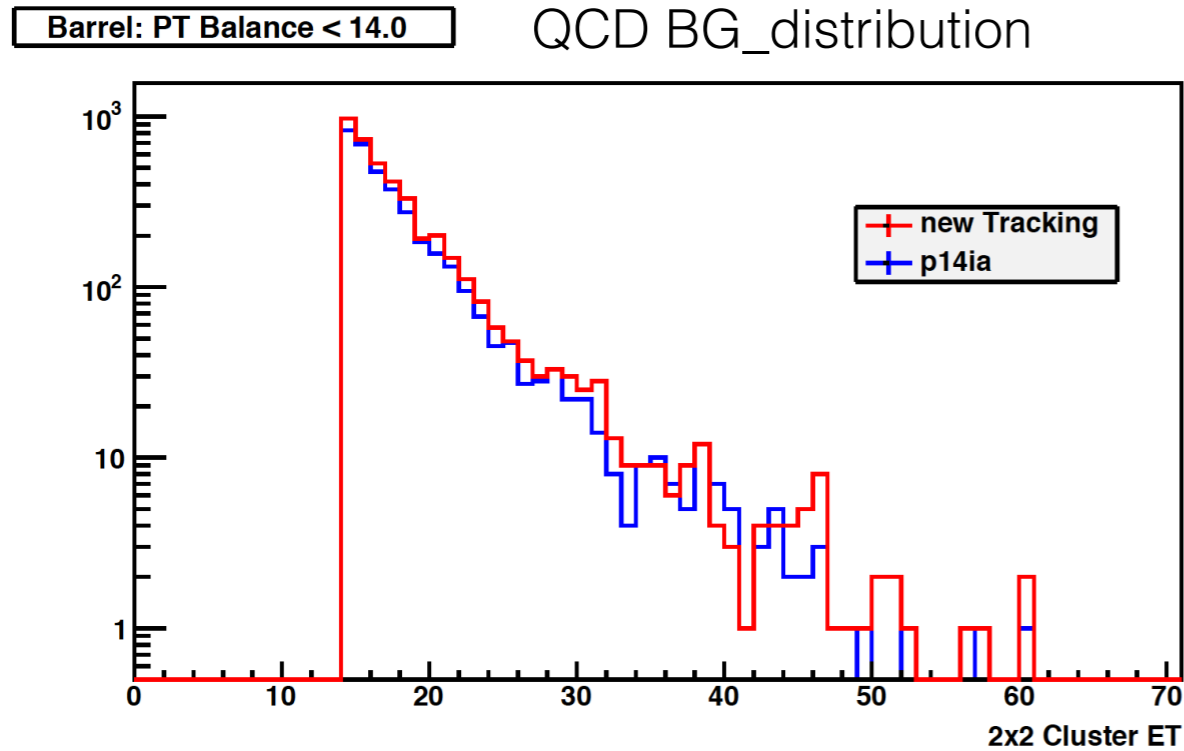
Golden W Eta Distribution



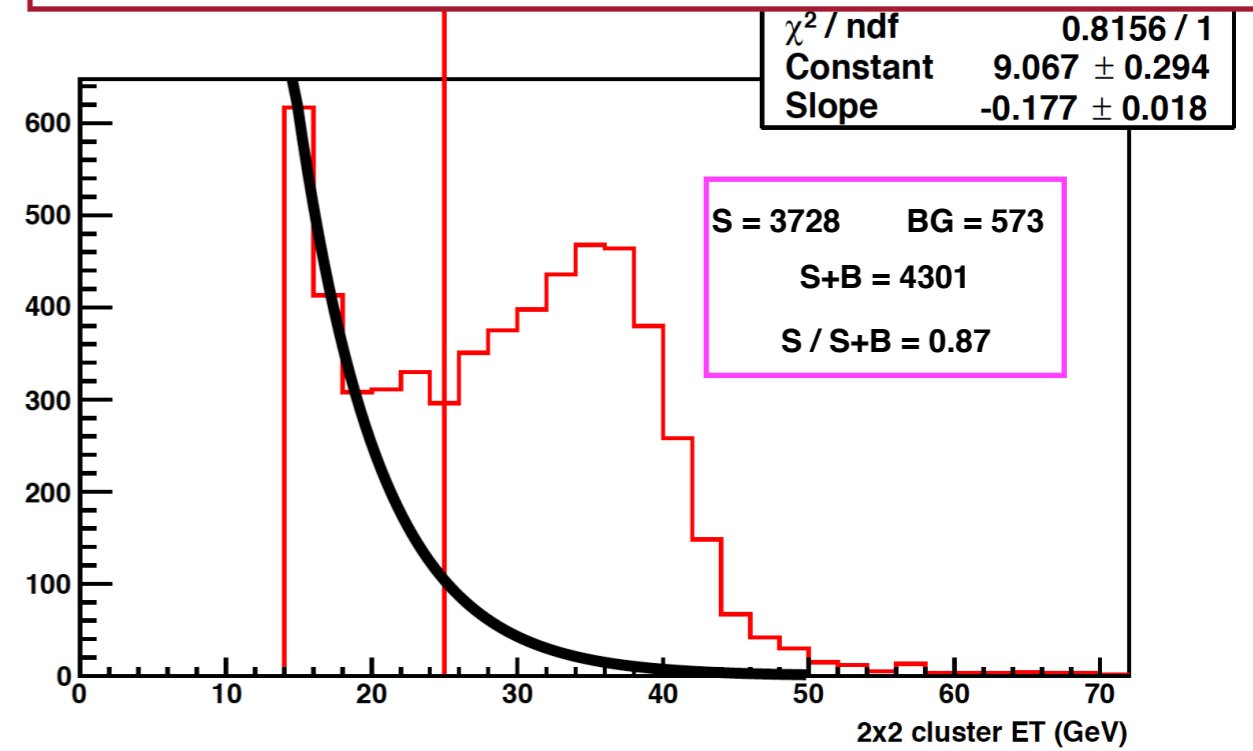
Ratio of new tracking to old tracking



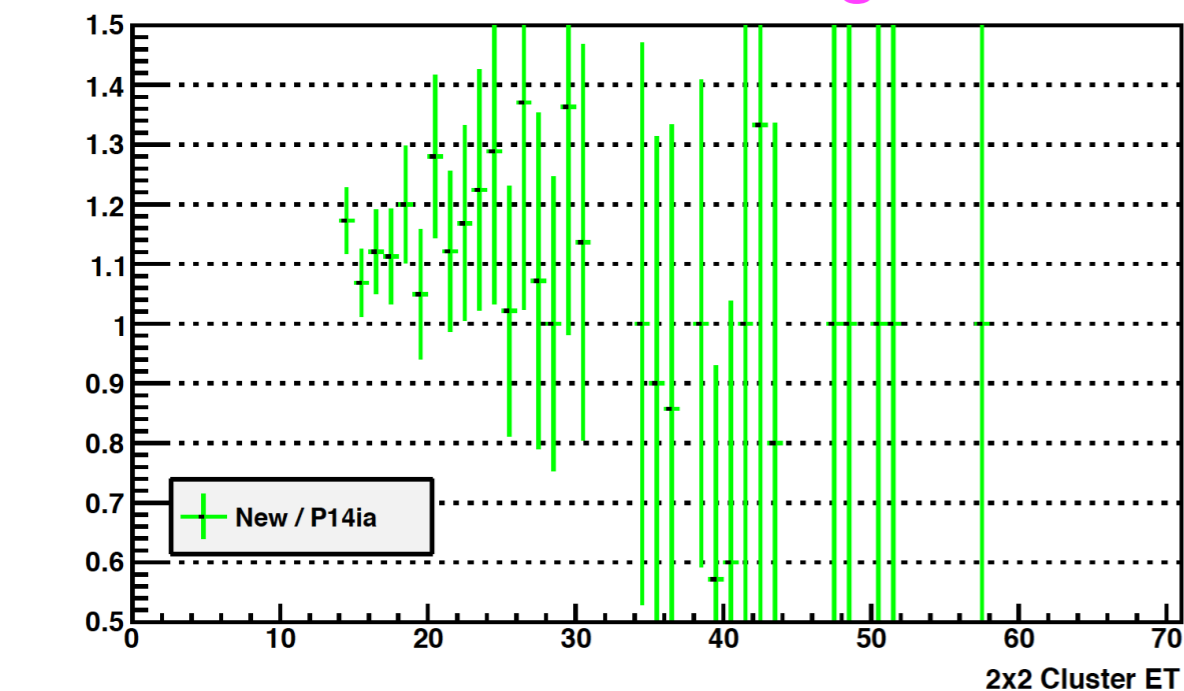
Background Ratio



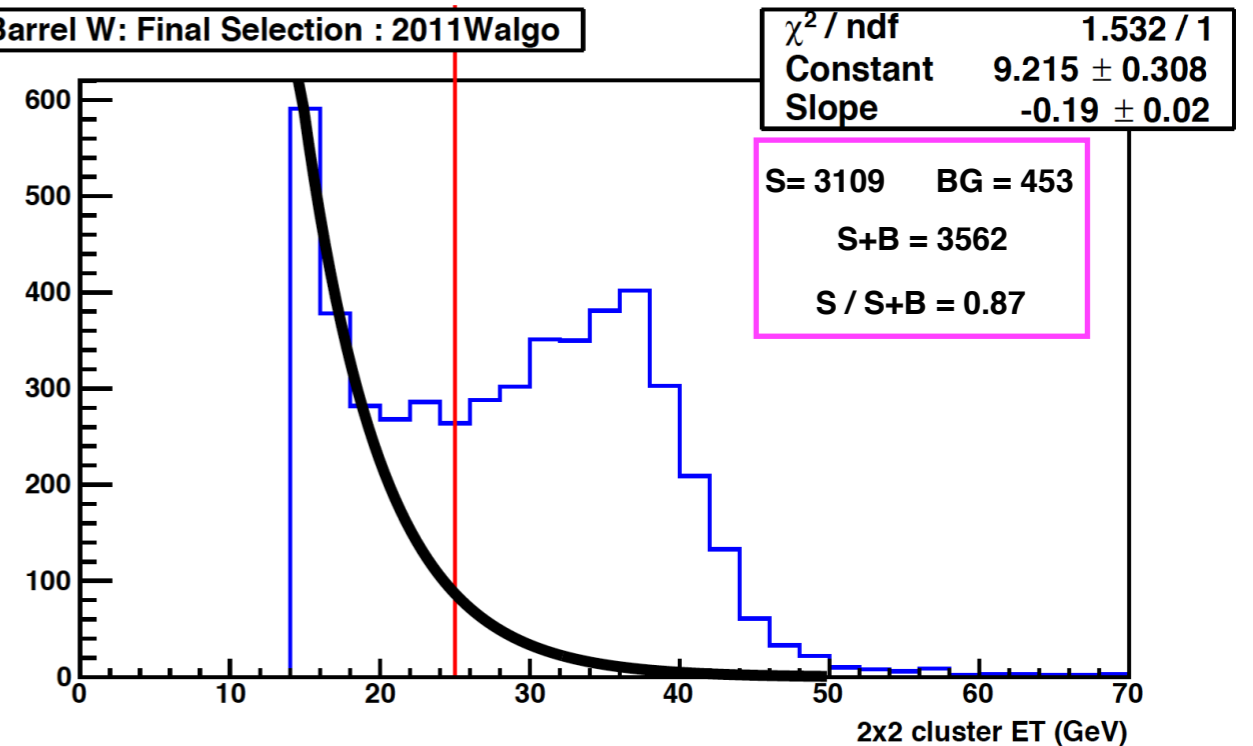
Fit with "expo" [14,19.9] GeV , integral [25,50] GeV



New / Old Ratio of new tracking to old tracking



Barrel W: Final Selection : 2011Walgo



Charge Separation

