
Yuri-P2 vs P14ig

[run 13 -official -P2]

apple- to -apple comparison

Devika Gunarathne

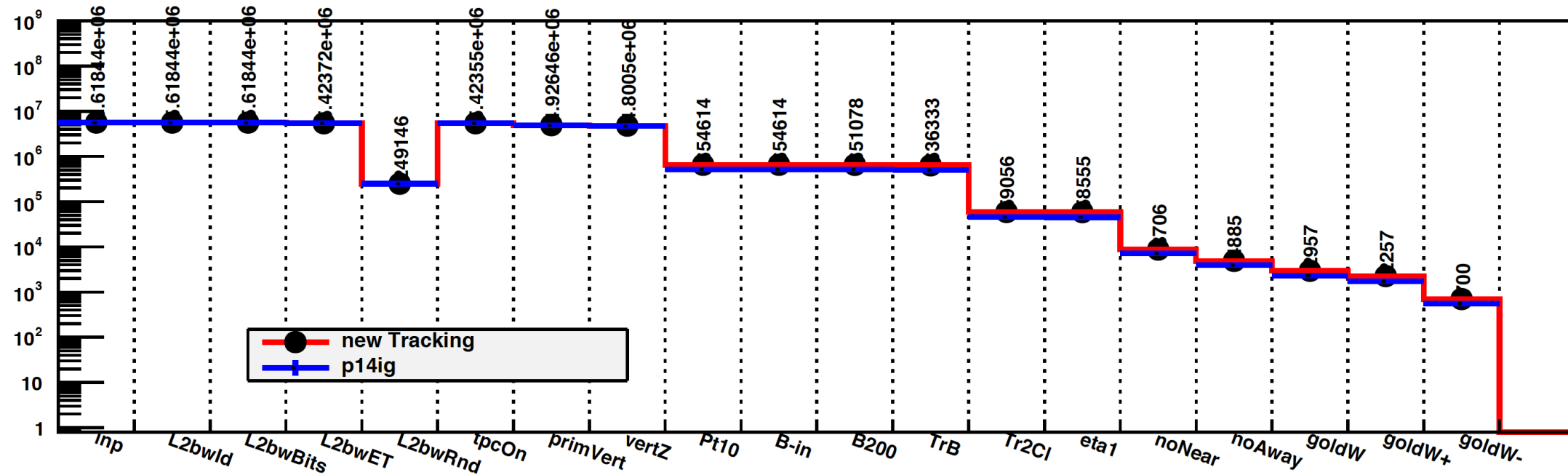
04-07-2016

Details / Notes

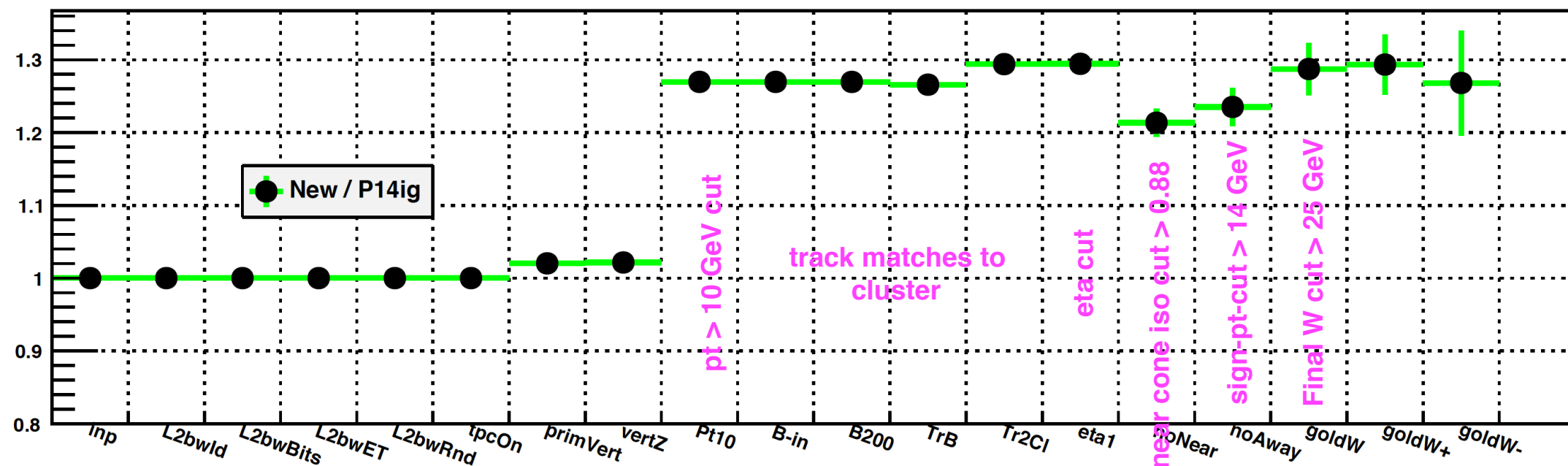
Production	Production Library [also W-code compiled ...]	Tracking	vertex finding	BEMC-gains	# of runs used in the comparison	# of events
P14ig [official run 13 - P2 (day 129-161)]	SL14ig	Sti	PPV_W	run 12 - 200 GeV	436	5618340
Yuri's - P2 (day 129-161)	DEV2/ TFG16a	StiCA [Yuri's code]	PPV_W	run 12 200 GeV	436	5618485

All the runs which were used for the comparison compared for # events processed. I chose runs which processed exactly same # of events or runs where events differ by 1 or 2 events. Yuri's production had ~ 100 runs with only 1 or 2 events higher. Since 1-2 events difference is negligible this can be considered as apple to apple.

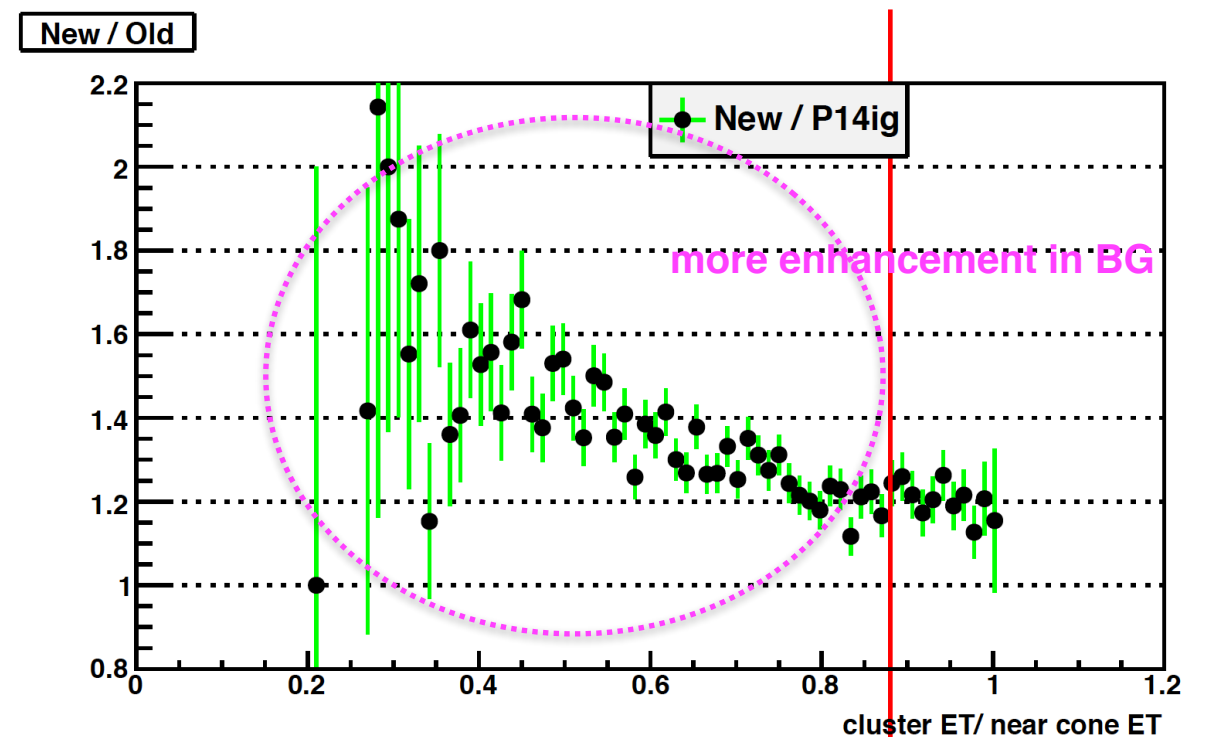
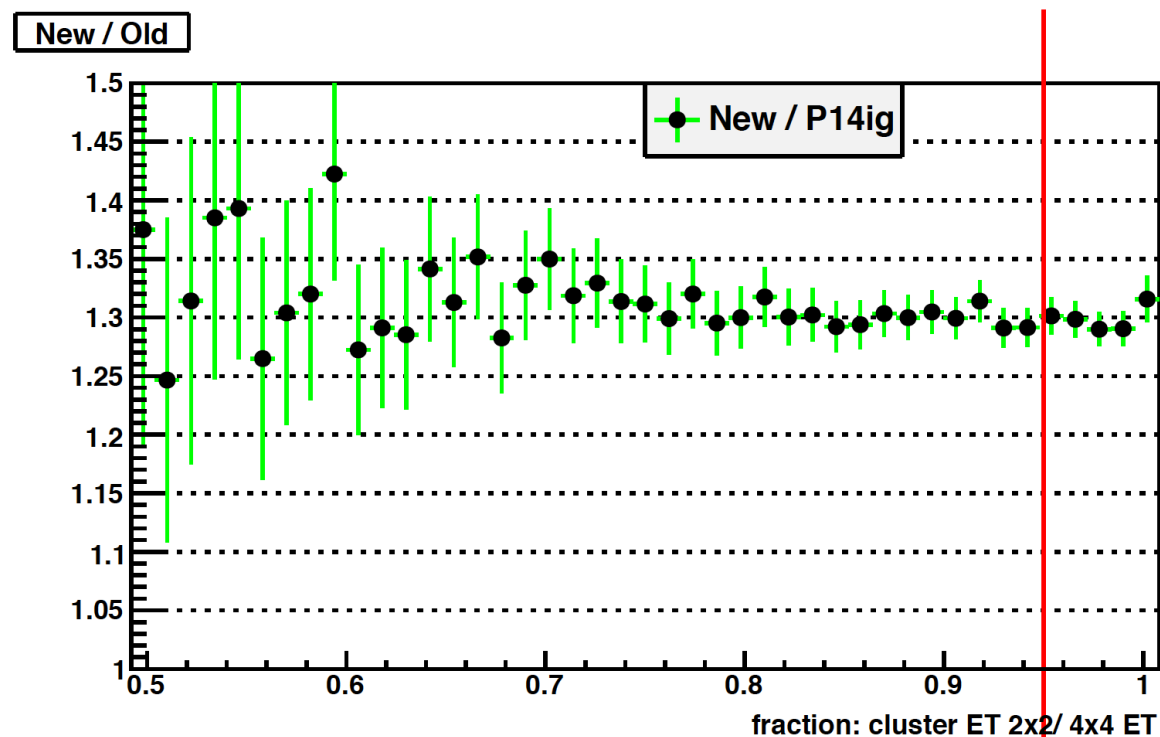
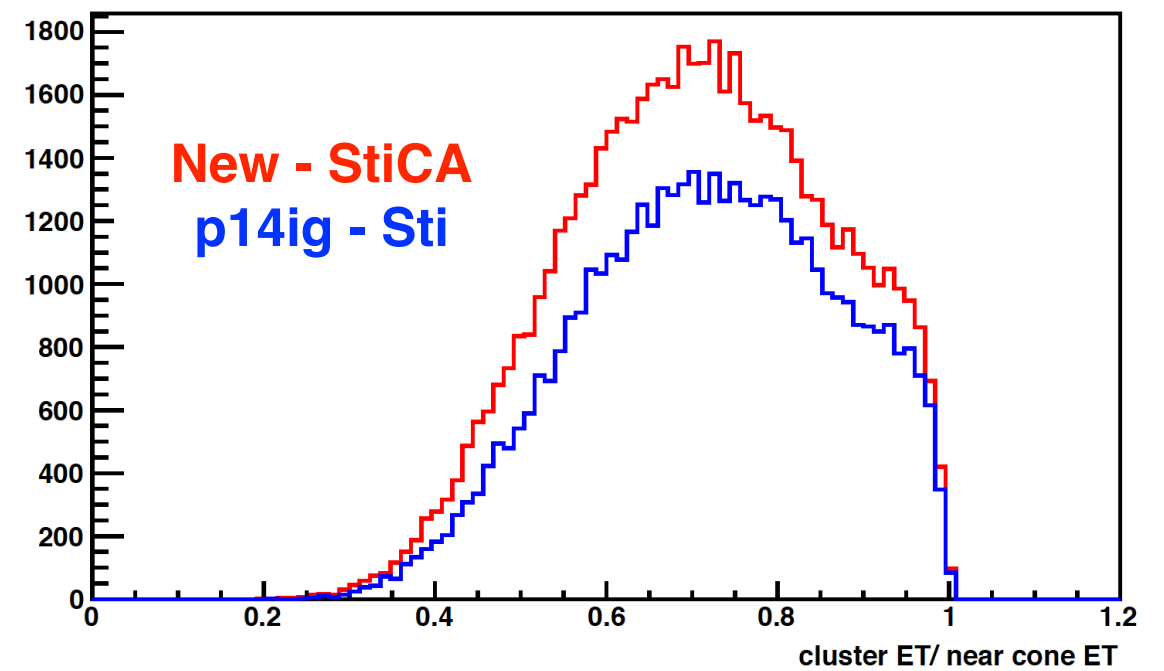
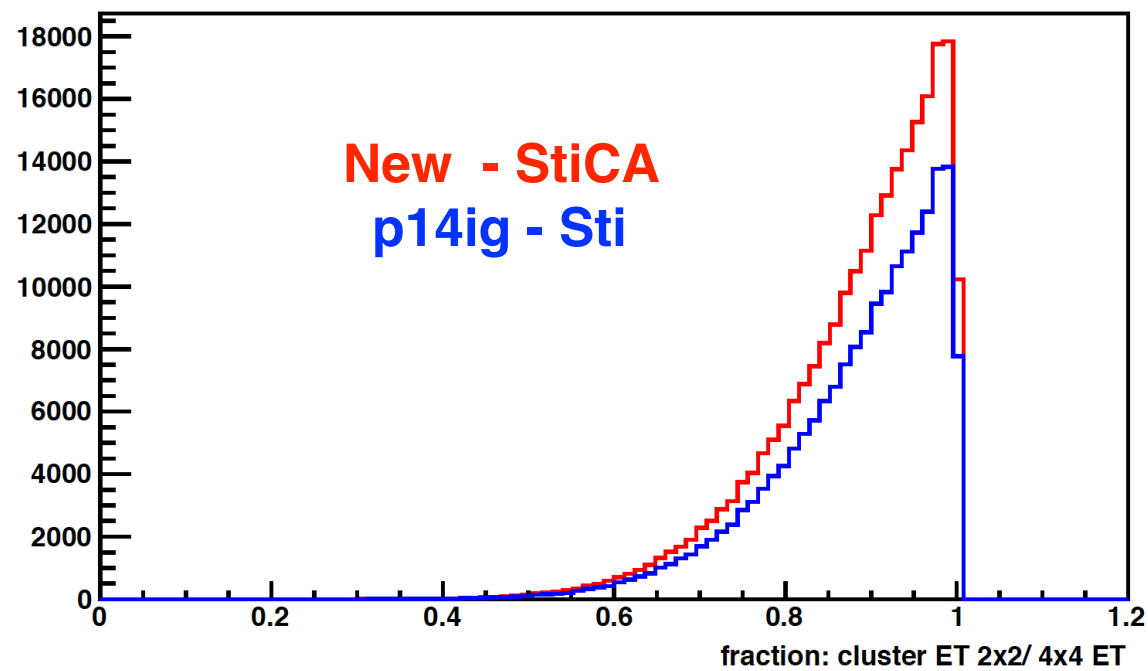
Events Counts



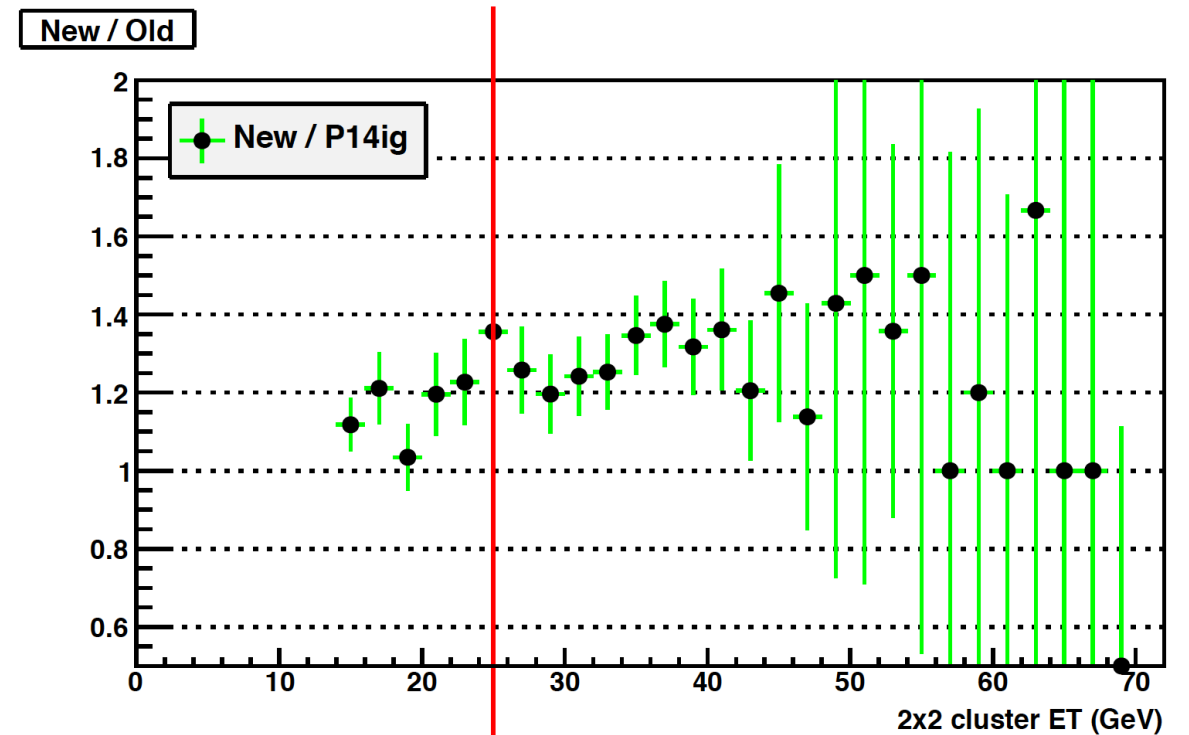
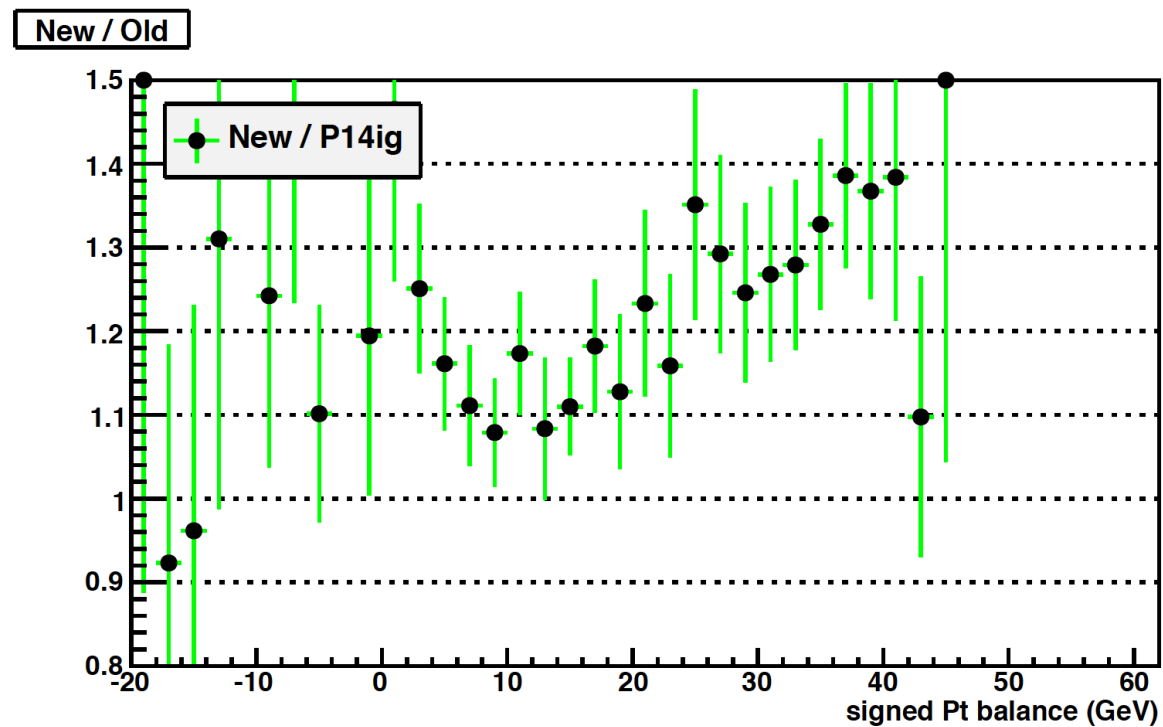
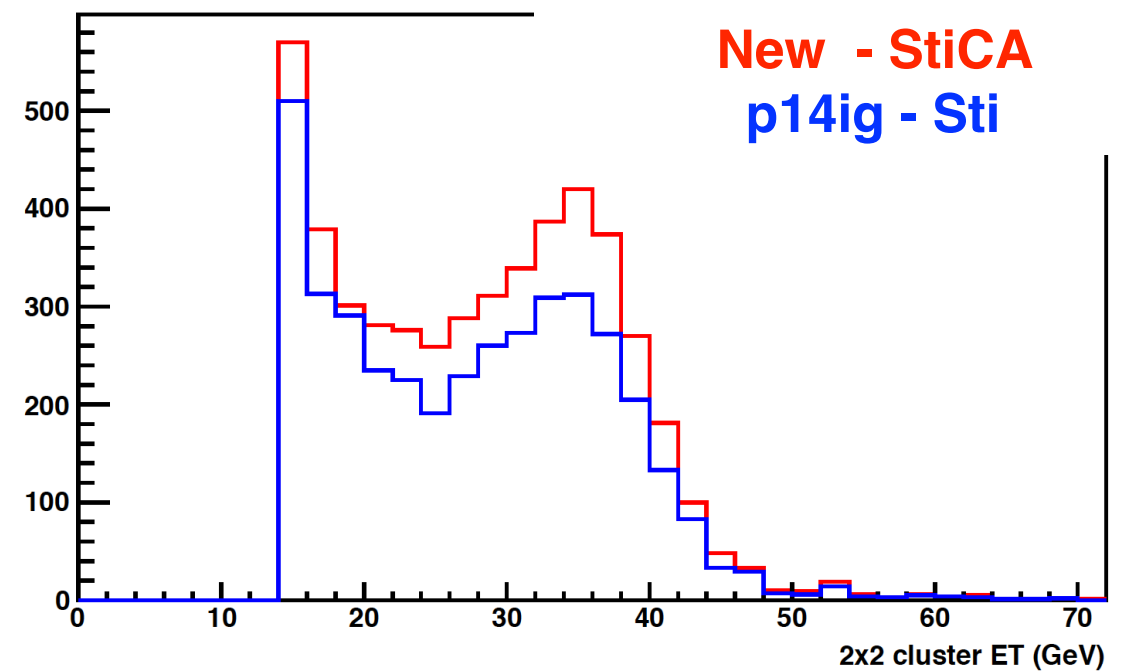
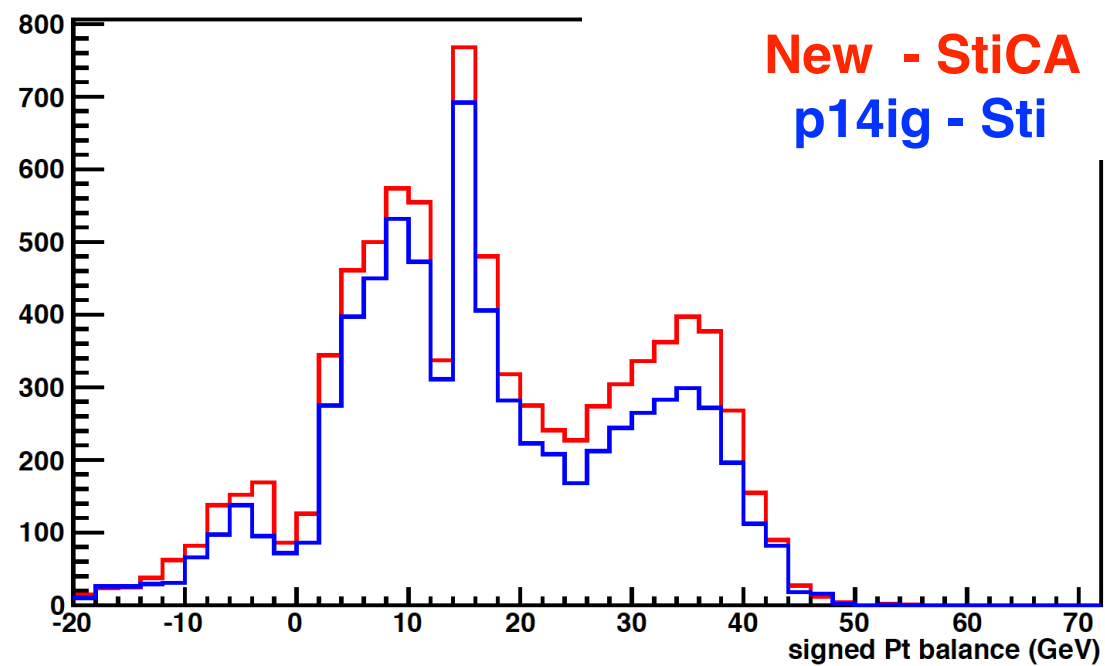
New / Old



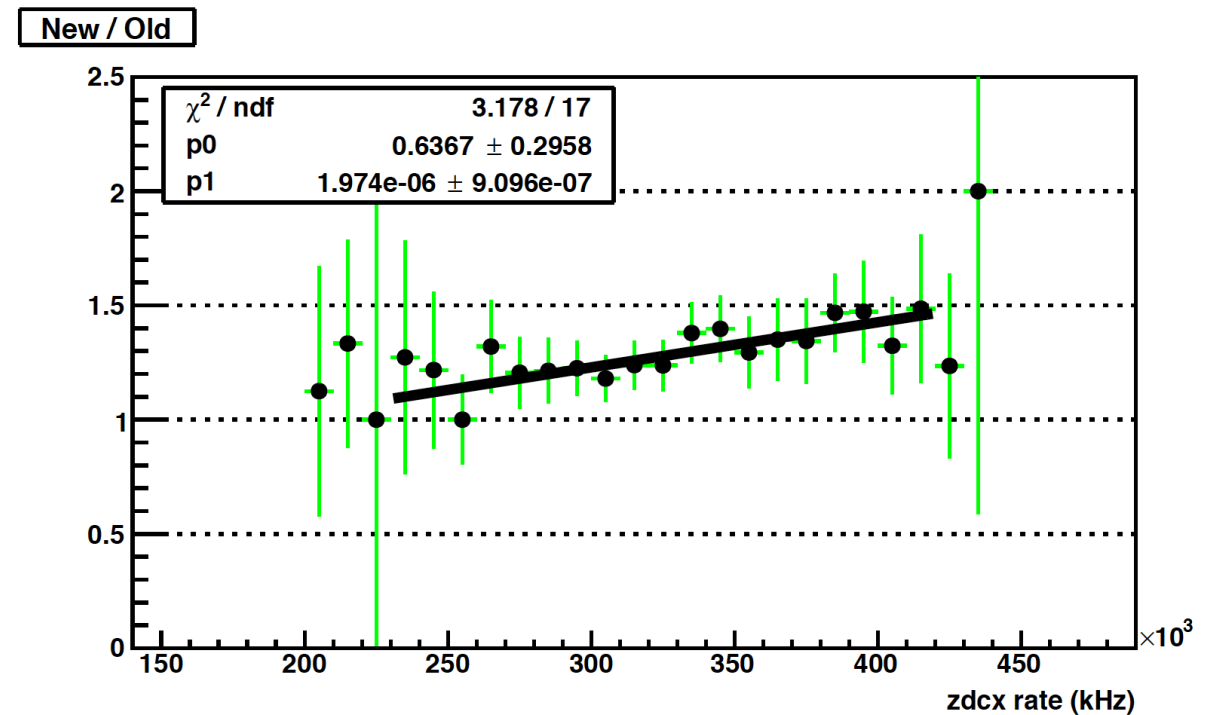
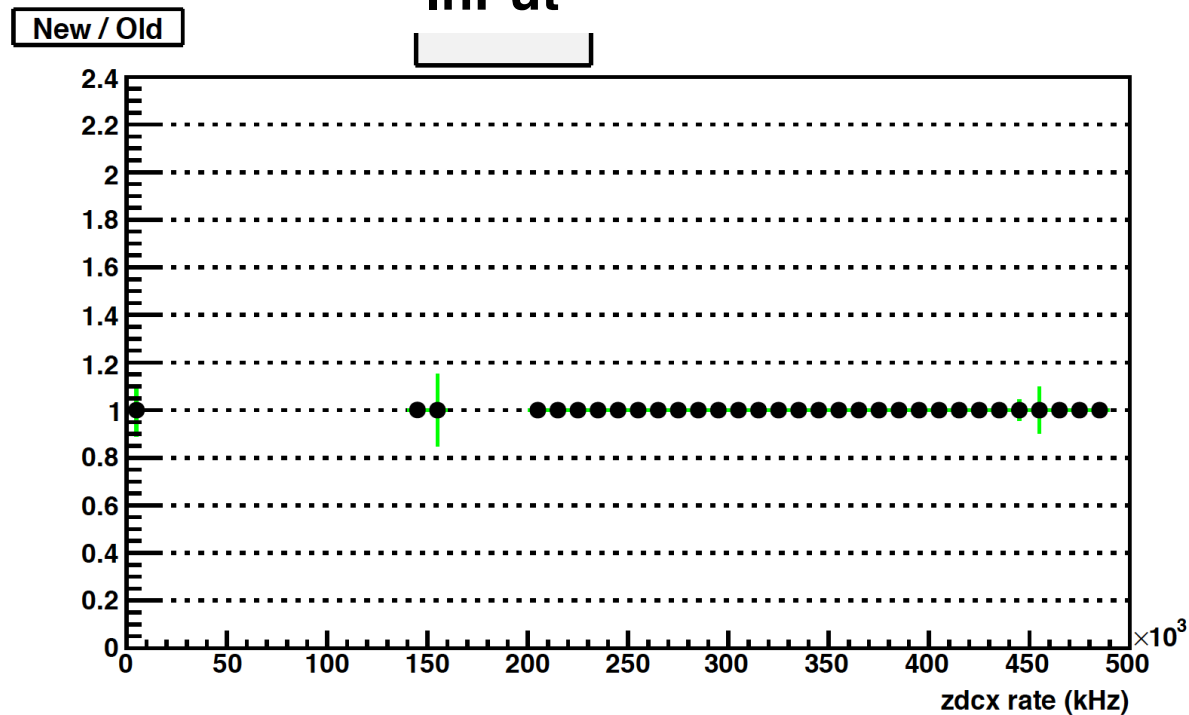
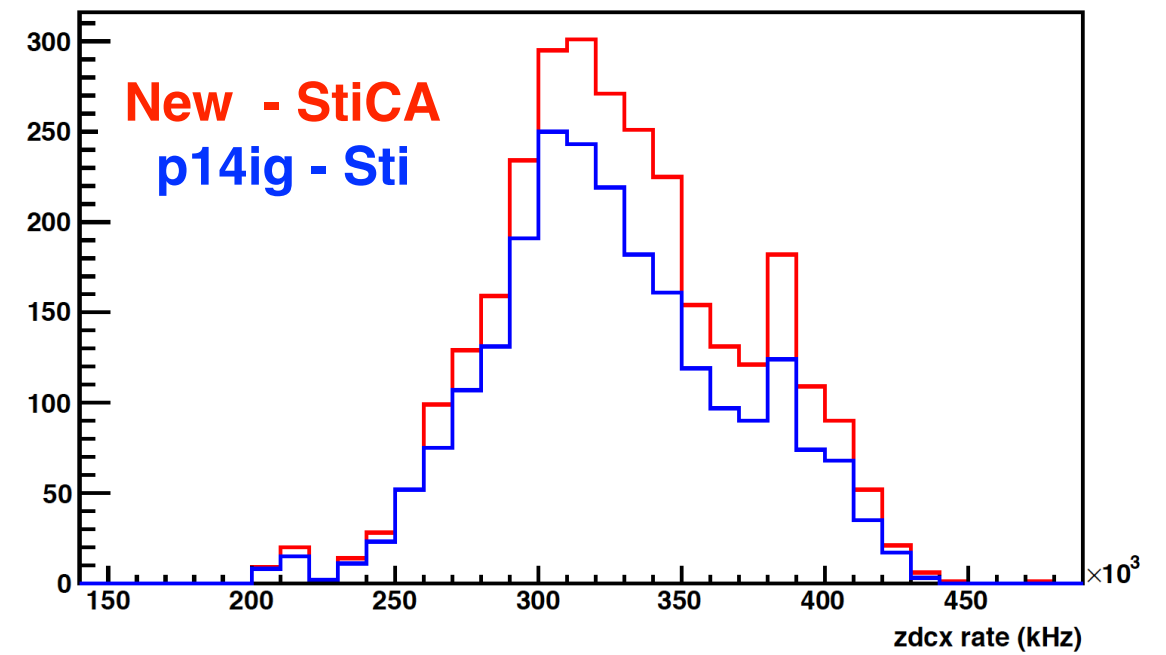
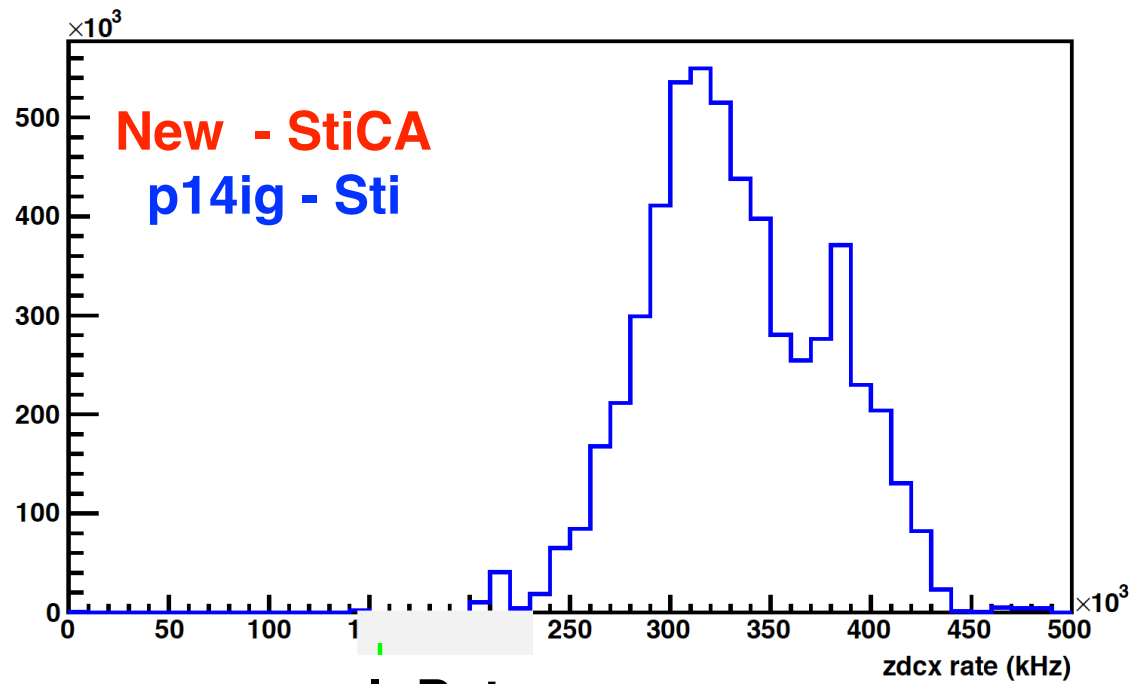
Isolation cuts



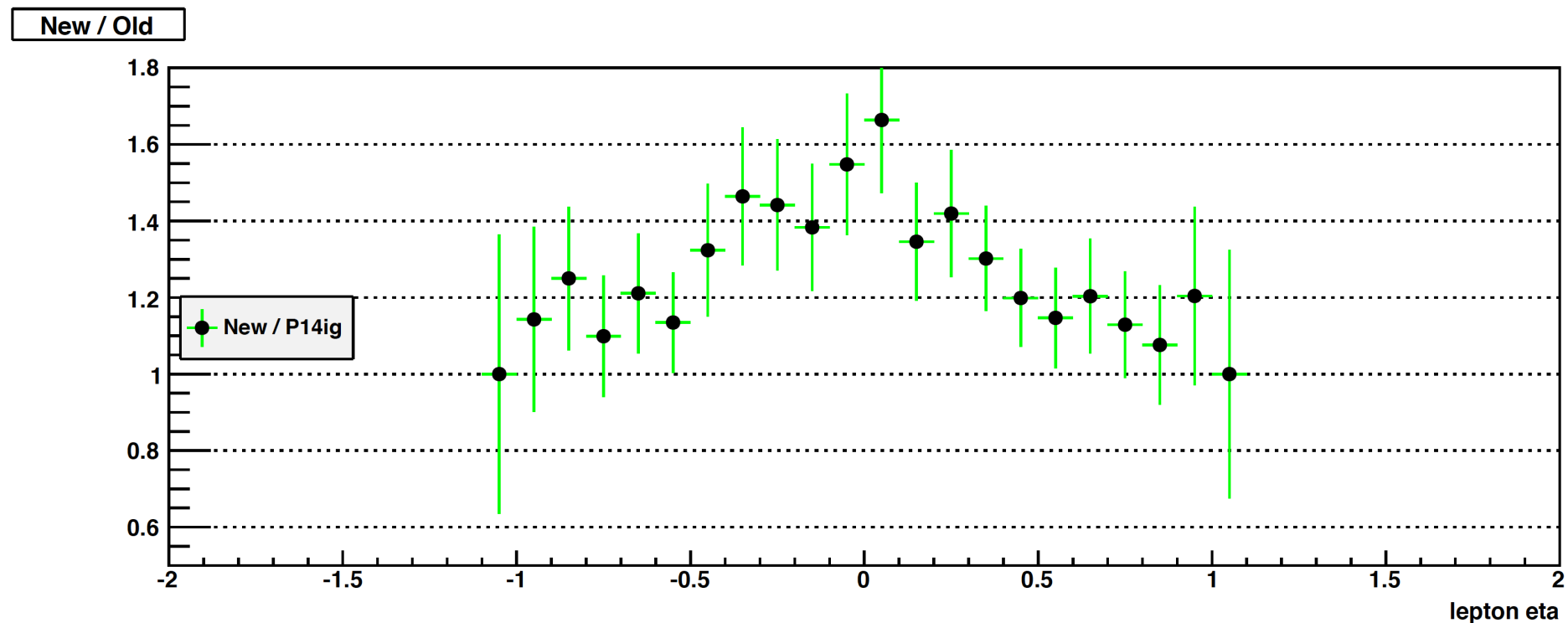
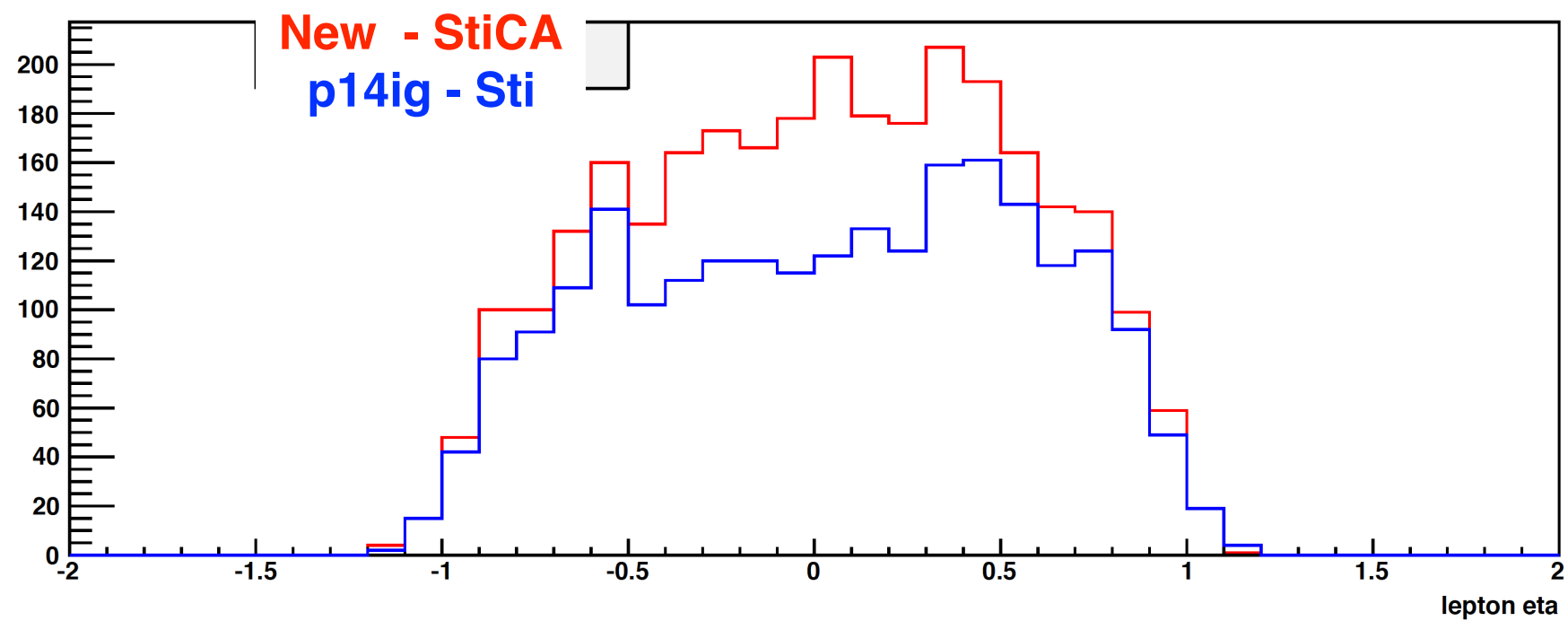
Sing Pt , Final W



Final W per ZDC

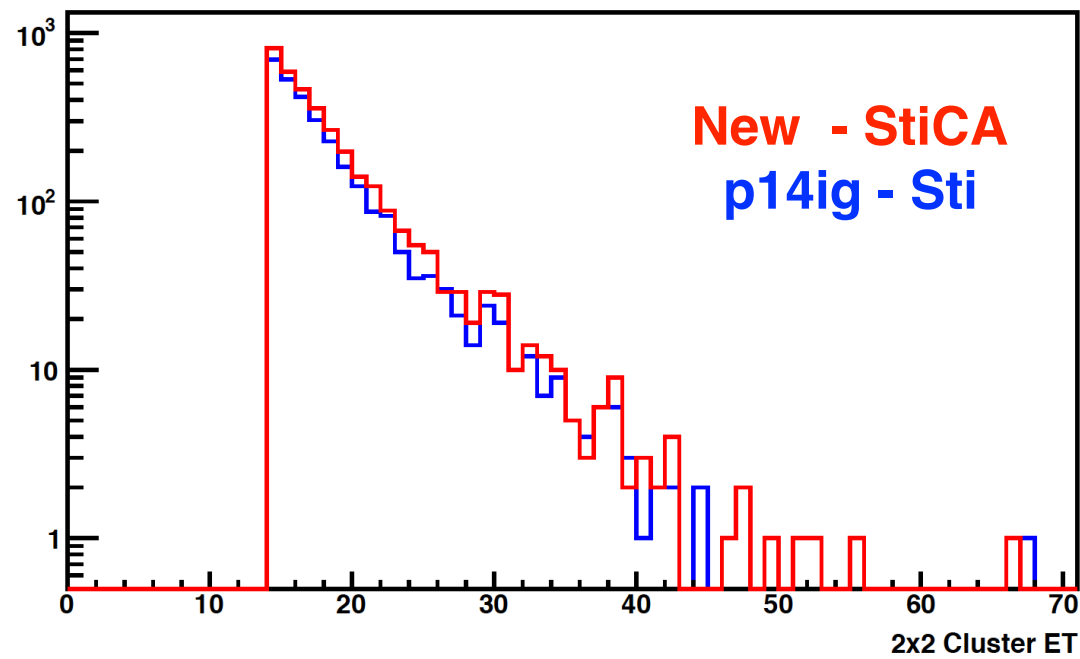


Final W Eta

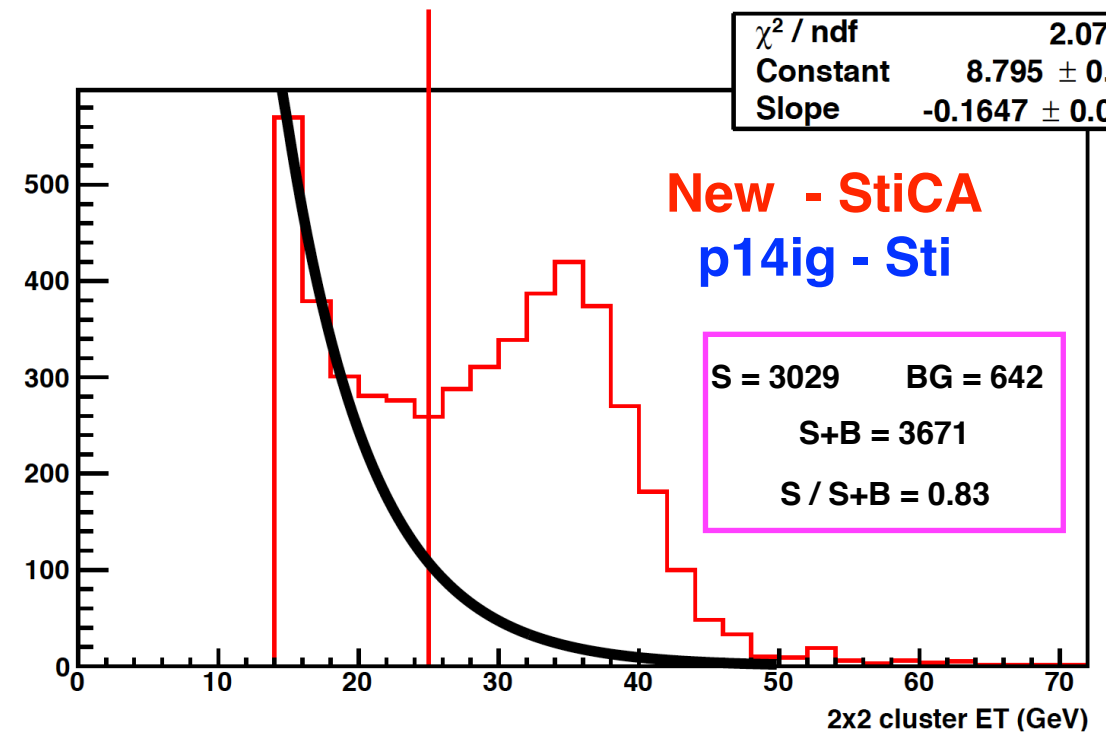


QCD BG

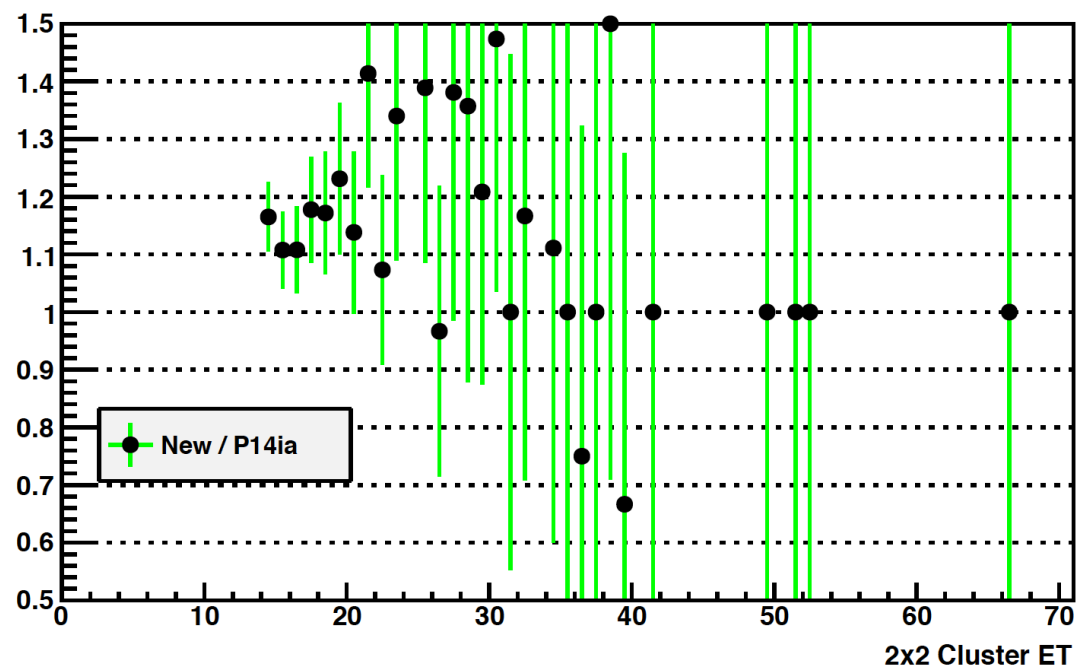
Barrel: PT Balance < 14.0



χ^2 / ndf 2.075 / 1
Constant 8.795 ± 0.308
Slope -0.1647 ± 0.0185

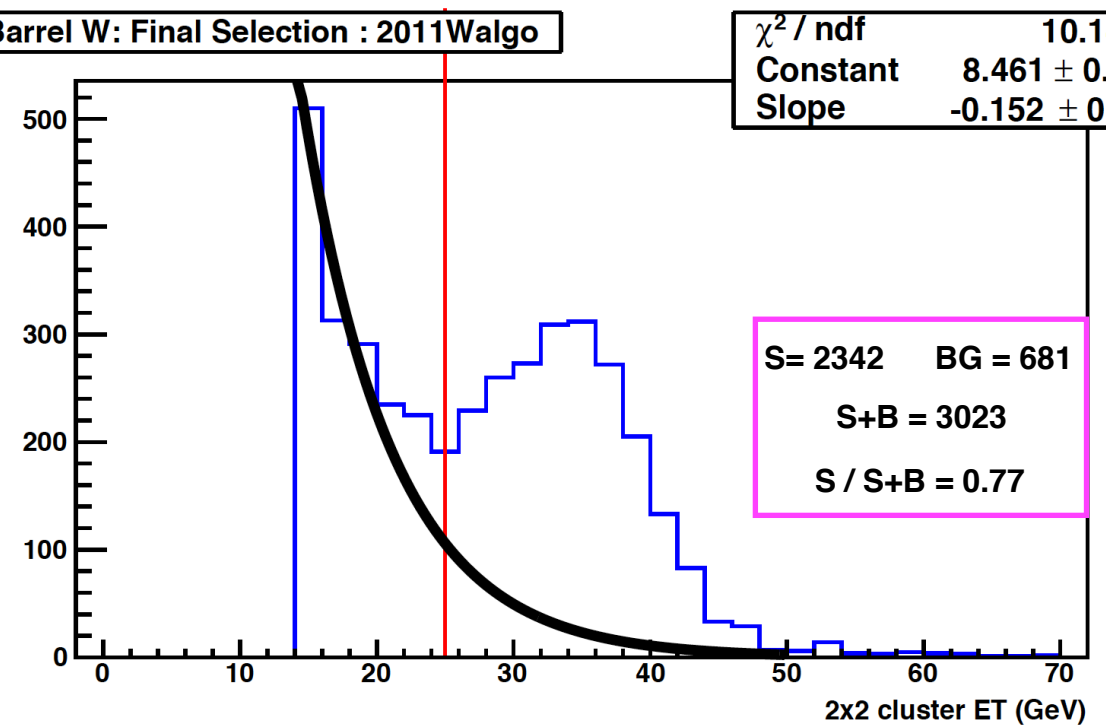


New / Old

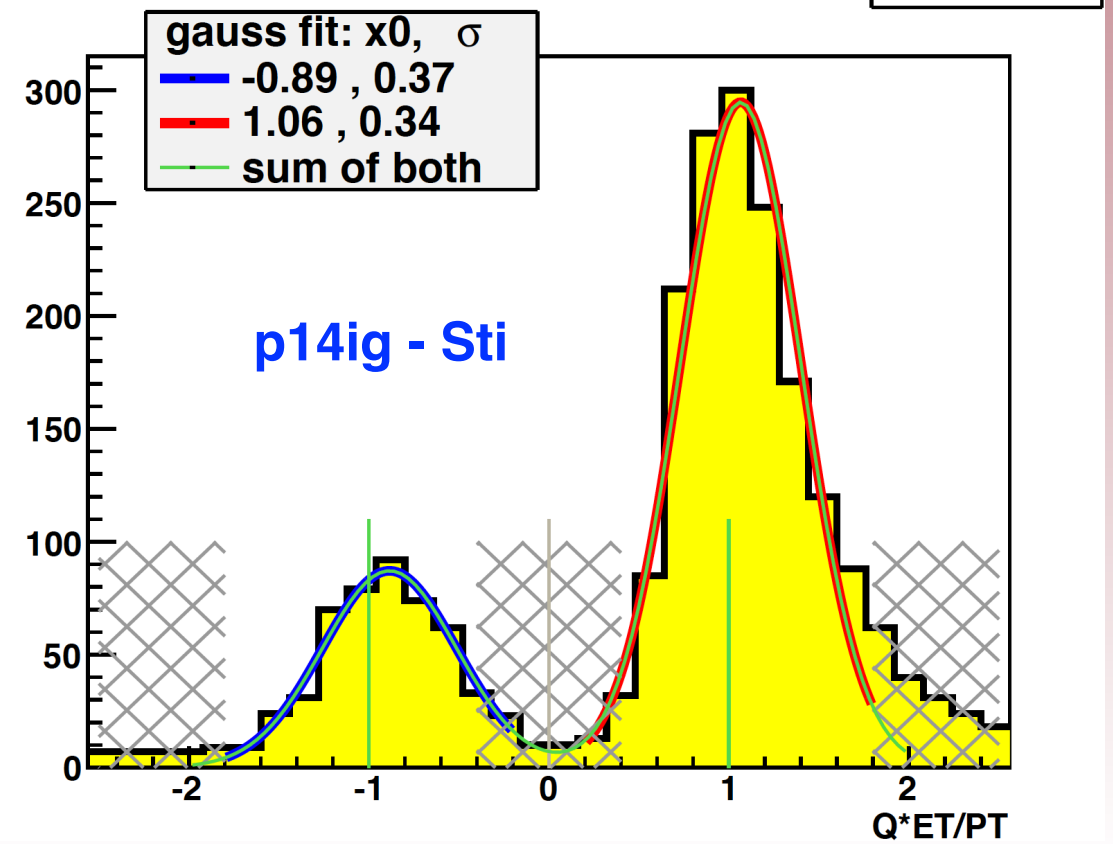
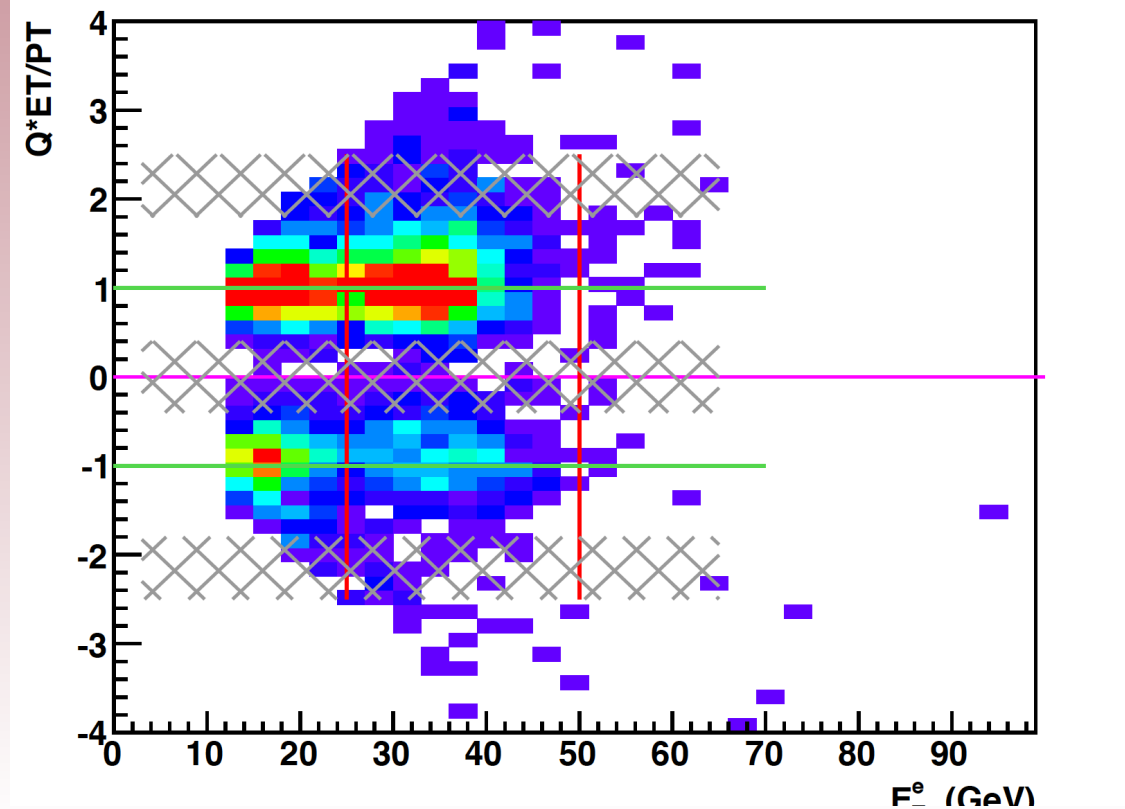
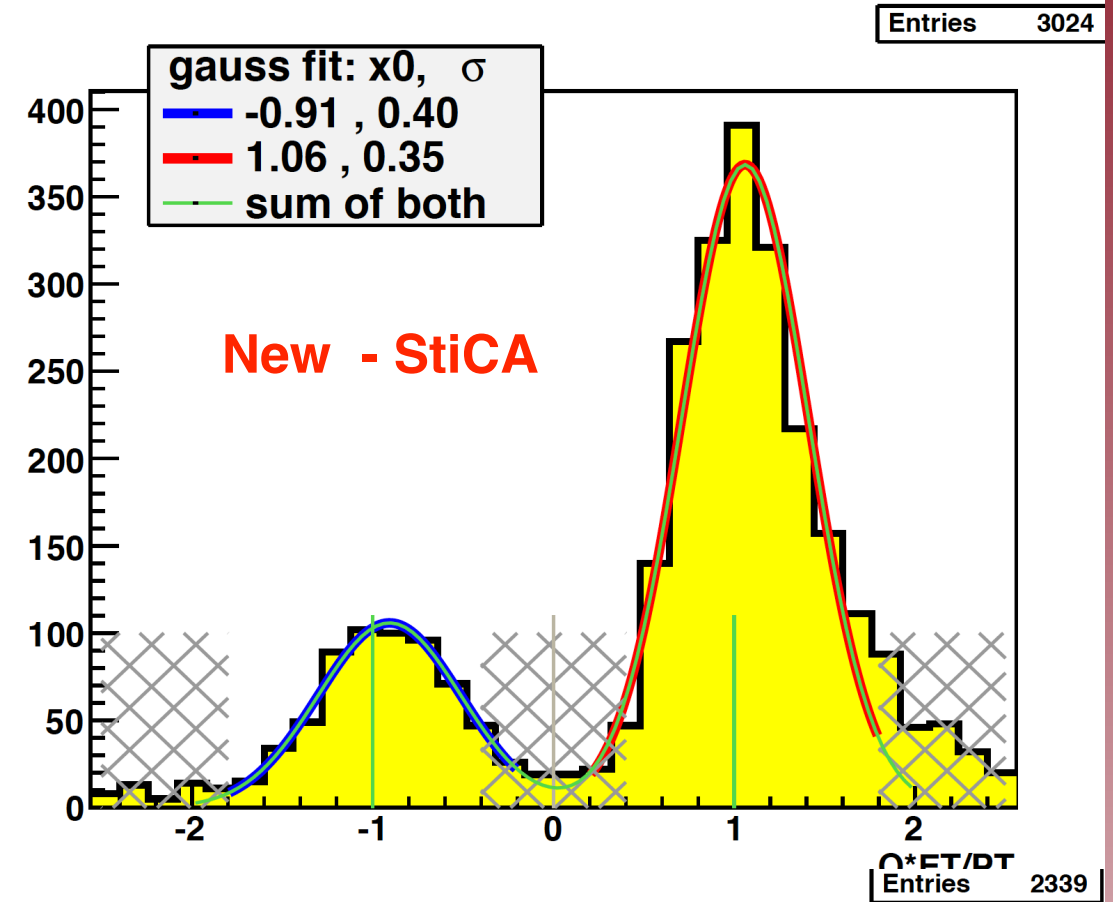
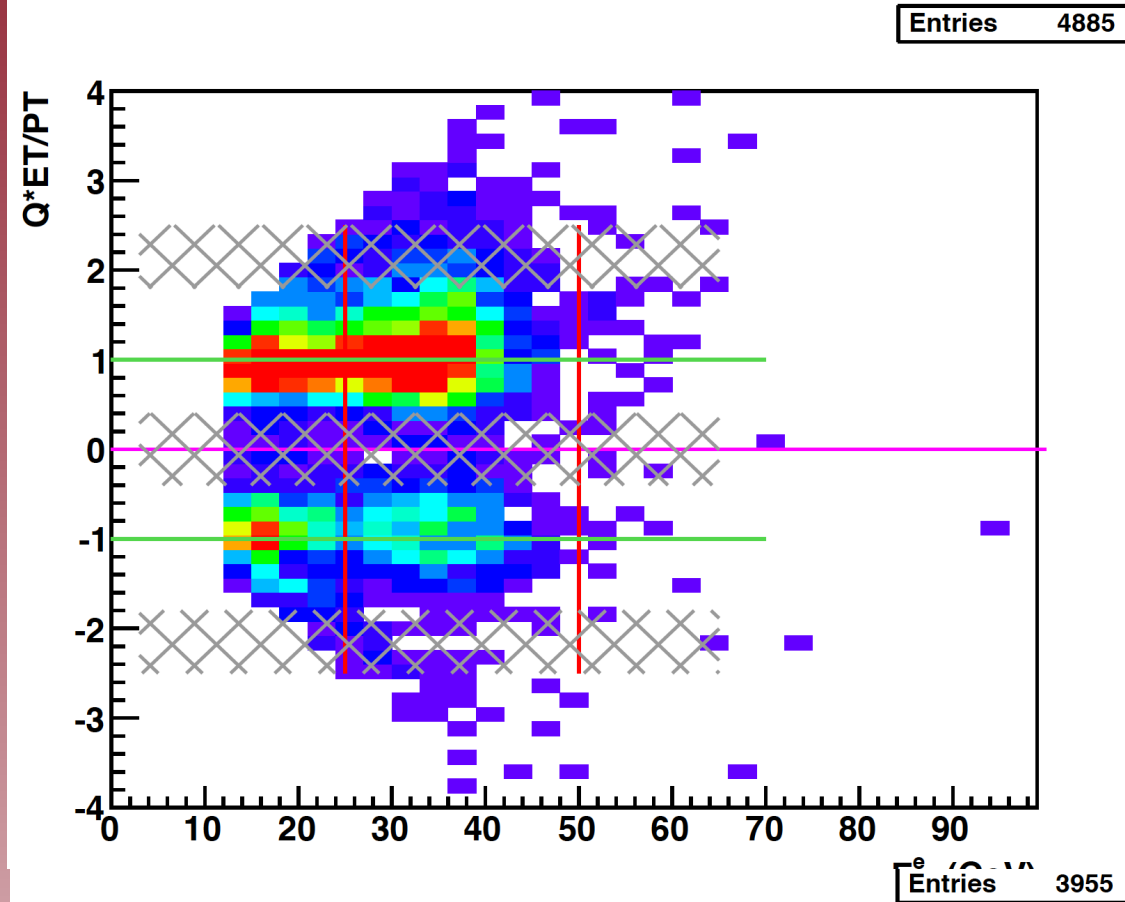


Barrel W: Final Selection : 2011Walgo

χ^2 / ndf 10.14 / 1
Constant 8.461 ± 0.346
Slope -0.152 ± 0.021



W -Charge Sign - Separation



More Plots
