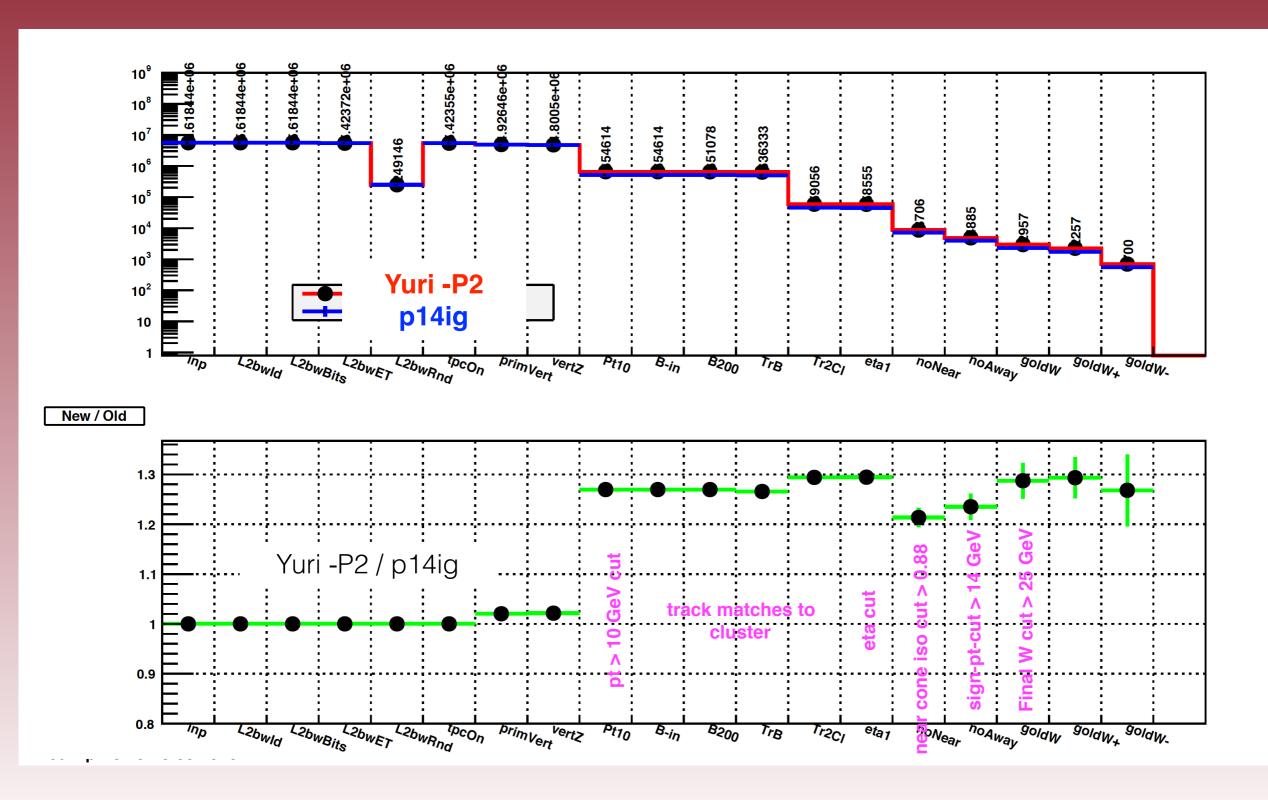
Yuri's-P2 vs P14ig [run 13 - official -P2]

apple- to -apple comparison

To investigate the difference between STI vs STICA [STICA is in Yuri's code] in run 13 period 2 [<ZDC> ~ 350 kHZ and 90% statistics is above 300 kHz] and to test how StiCA deals with the addition HFT materials.

Production	Production Library [also W-code compiled library]	Tracking	vertex finding	BEMC-gains	# of runs used in the comparison	# of events
P14ig [official run 13 - P2 (day 129-161)	SL14g	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

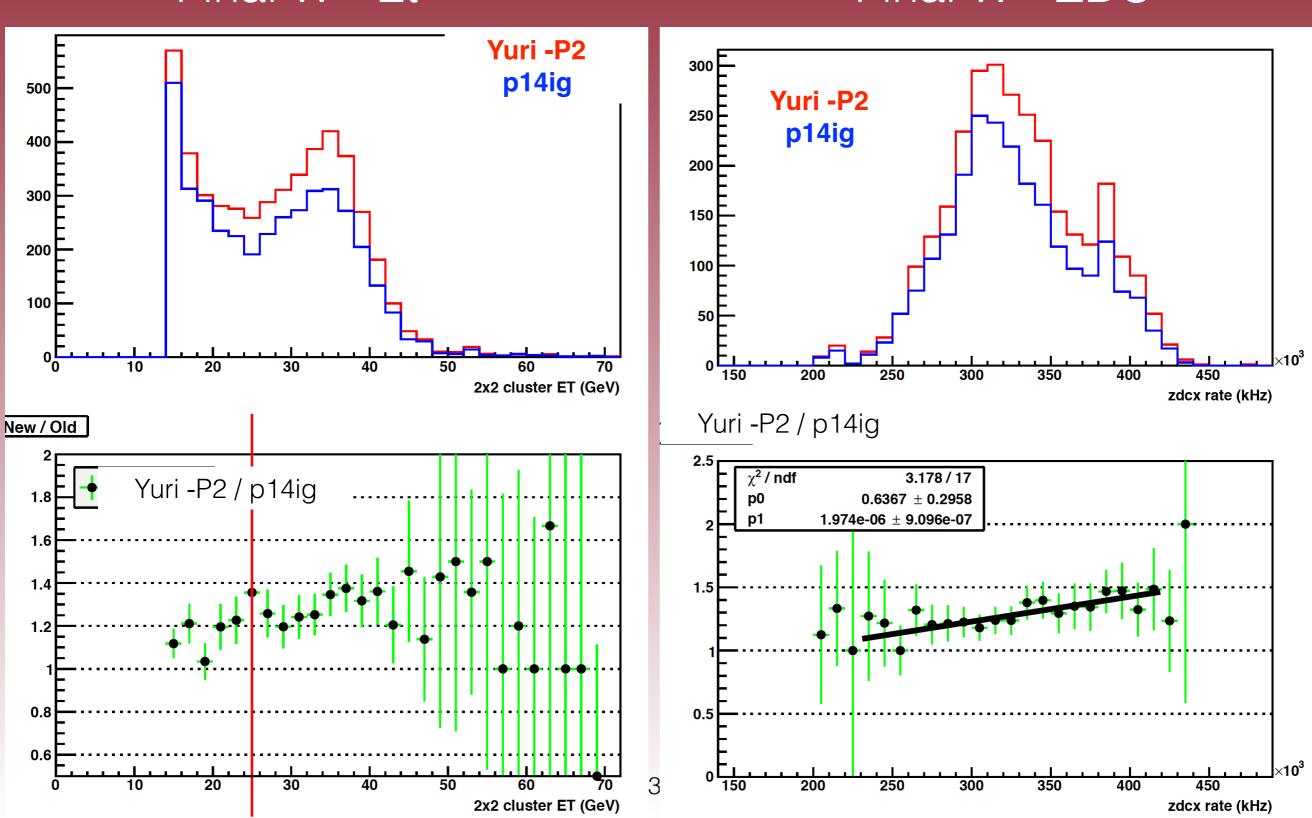
Events Counts as a function of W cuts



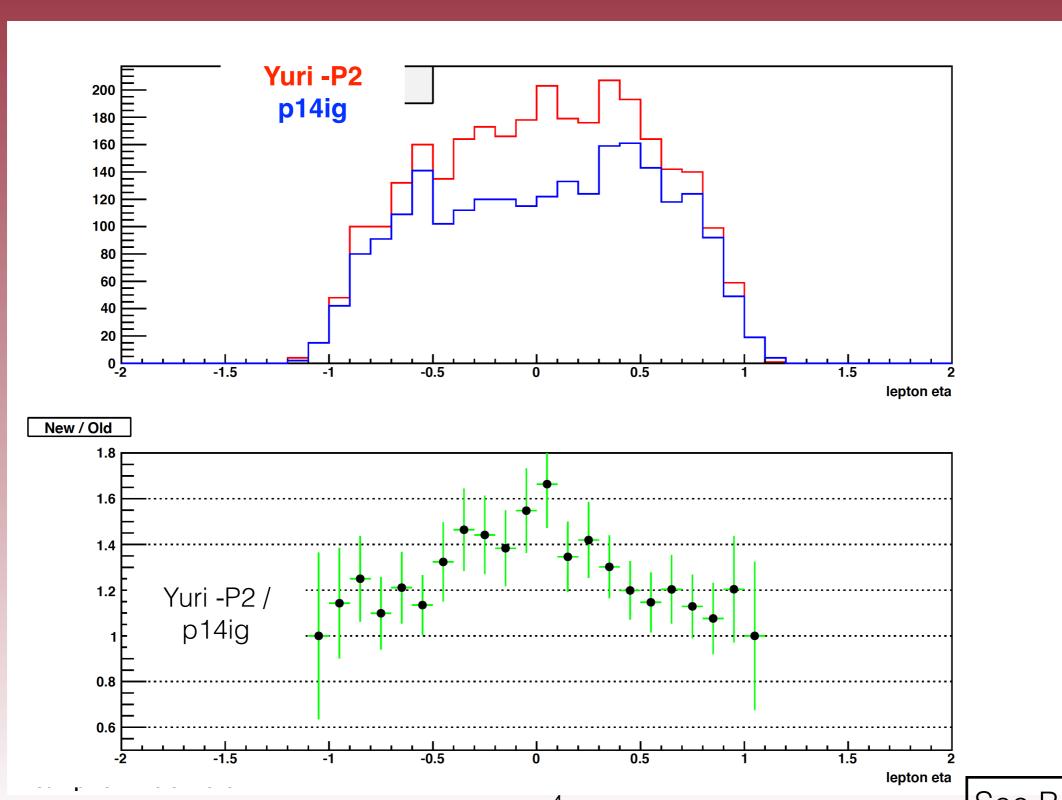
Final W: Et, ZDC



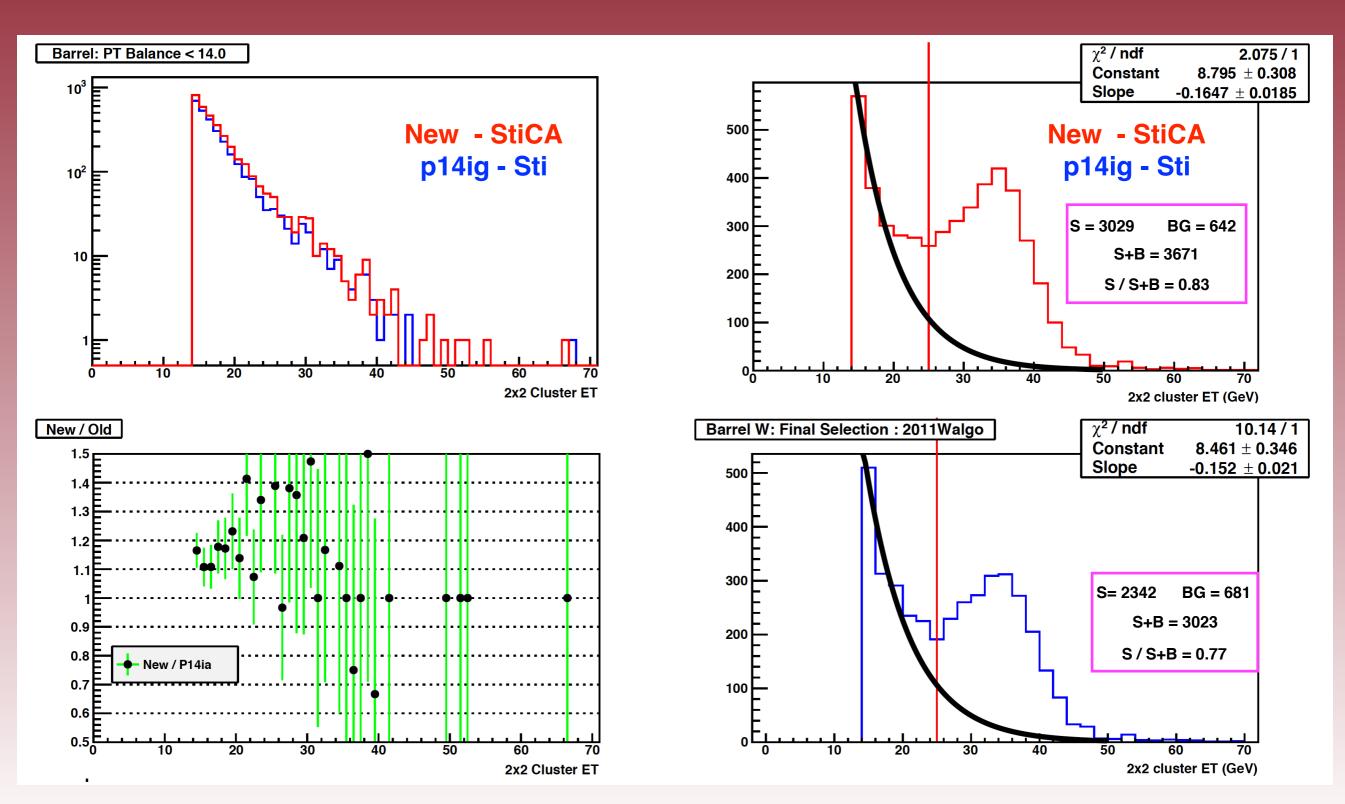
Final W - ZDC



Final W Eta



QCD BG



Summary

- ~29 % enhancement in tracks above Pt = 10 GeV and similar enhancement in final W [> 25 GeV] tracks. So this enhancement is since the official run 13 period 2 production. If a new test production were to made using EVAL for period 2 I would except enhancement of [29% ~4%] ~ 25 %.
- Significant enhancement of final W Eta in mid rapidity region where a "dip" was observed previously.
- Significant improvement in signal to background ratio.