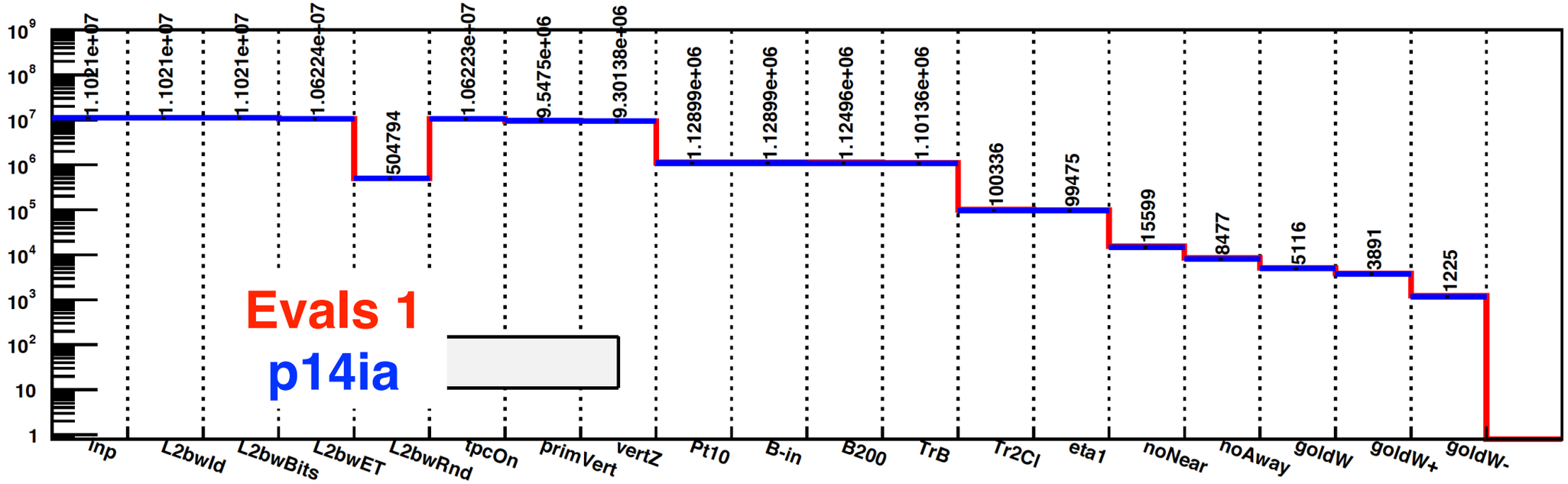
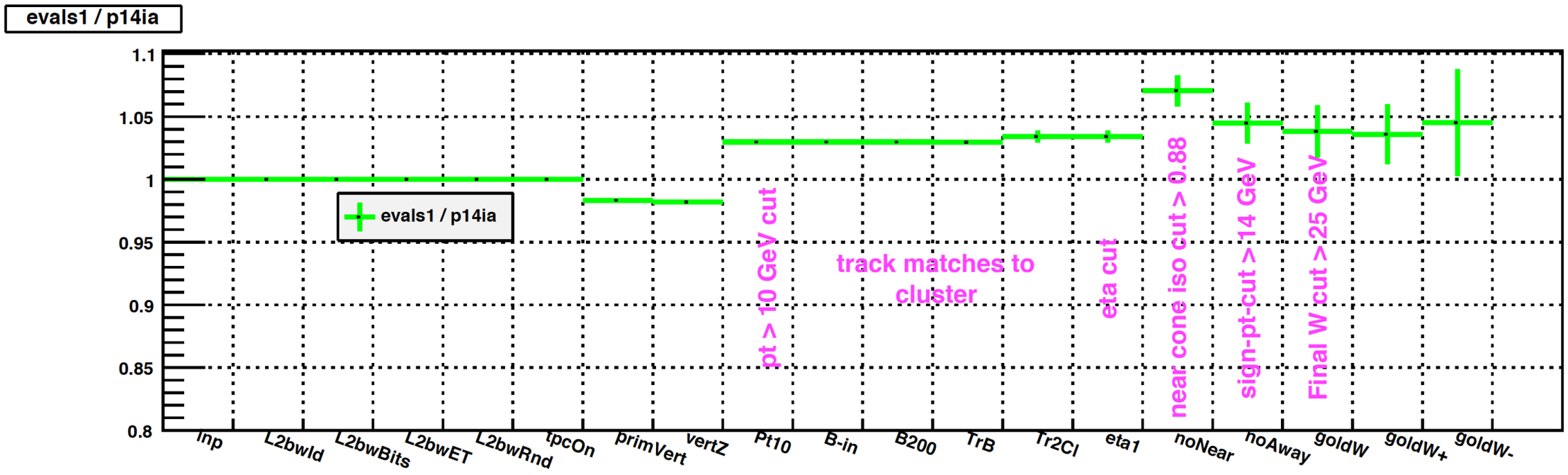
Evals 1 vs p14ia

To investigate the difference between STI in newer STAR library (SL16b) with HFT material vs STI in old STAR library (SL14a) without HFT materials

Production	Production Library [also W-code compiled	Tracking	vertex finding	BEMC-gains	# of runs used in the comparison	# of events
P14ia [official run 13 - P1 (day 76-128)	SL14a	Sti	PPV_W	run 12 - 200 GeV	885	11.021 M
“evals1”	SL16b	Sti	PPV_W	run 12 200 GeV	885	11.021 M

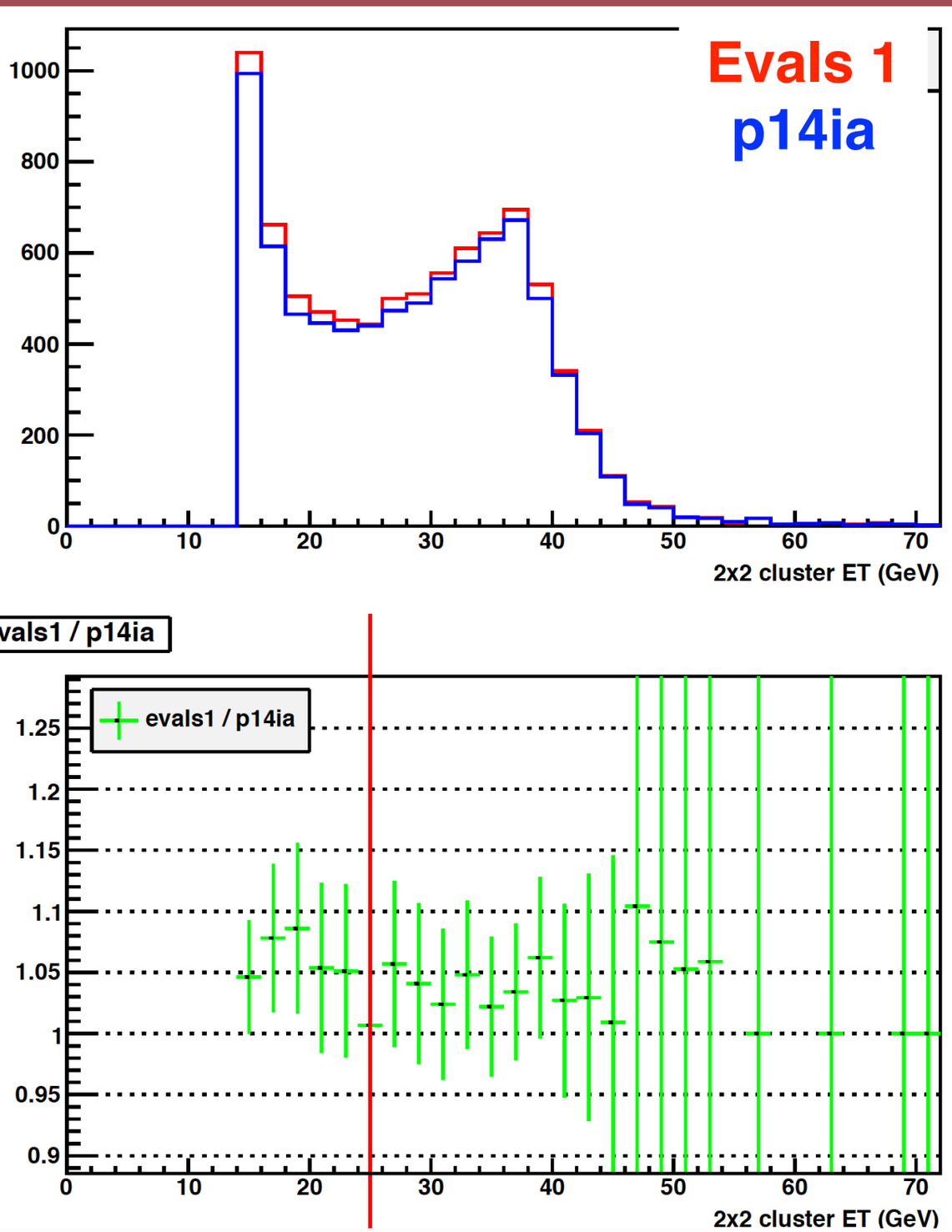
Events Counts as a function of W cuts



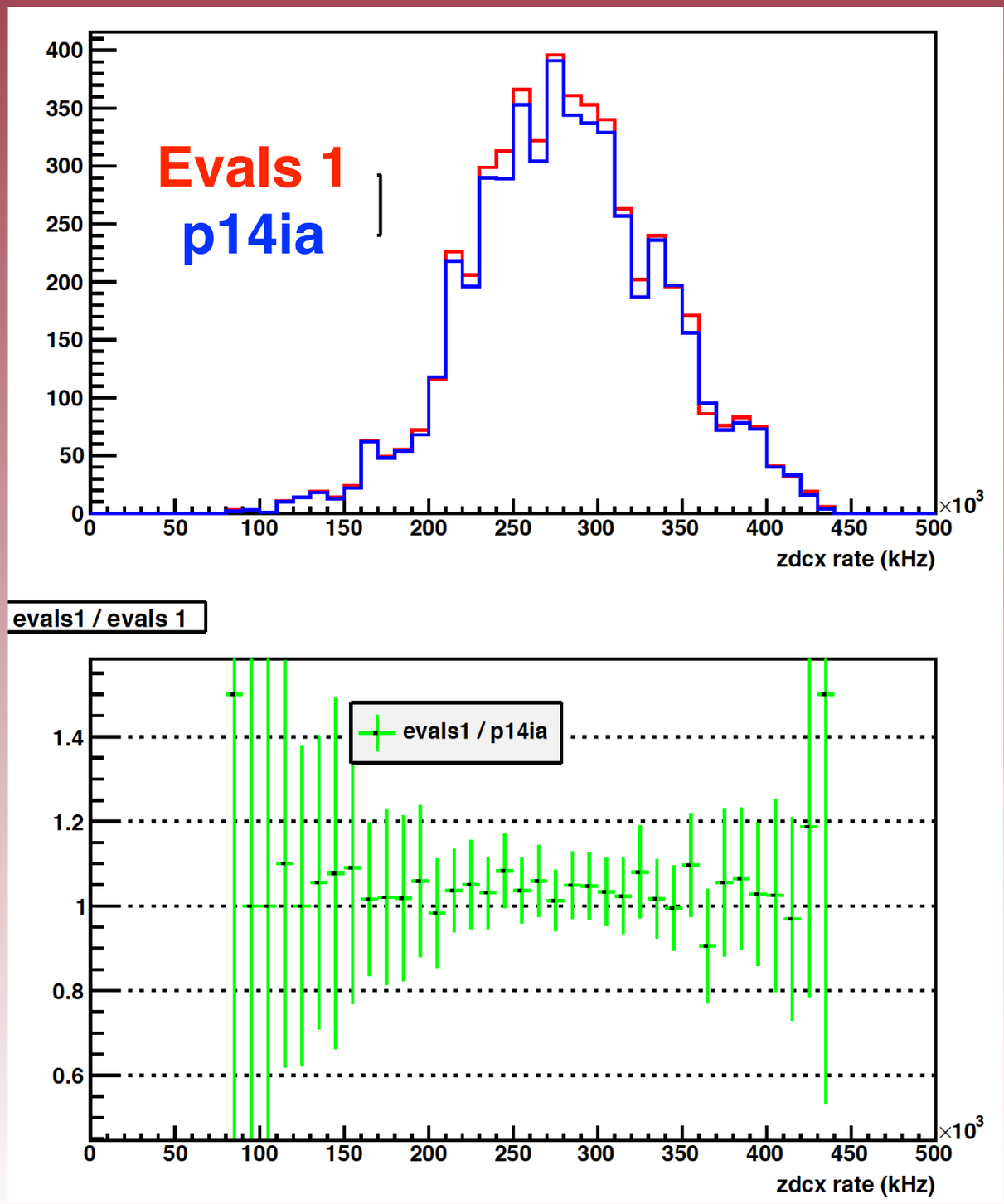


Final W : Et , ZDC

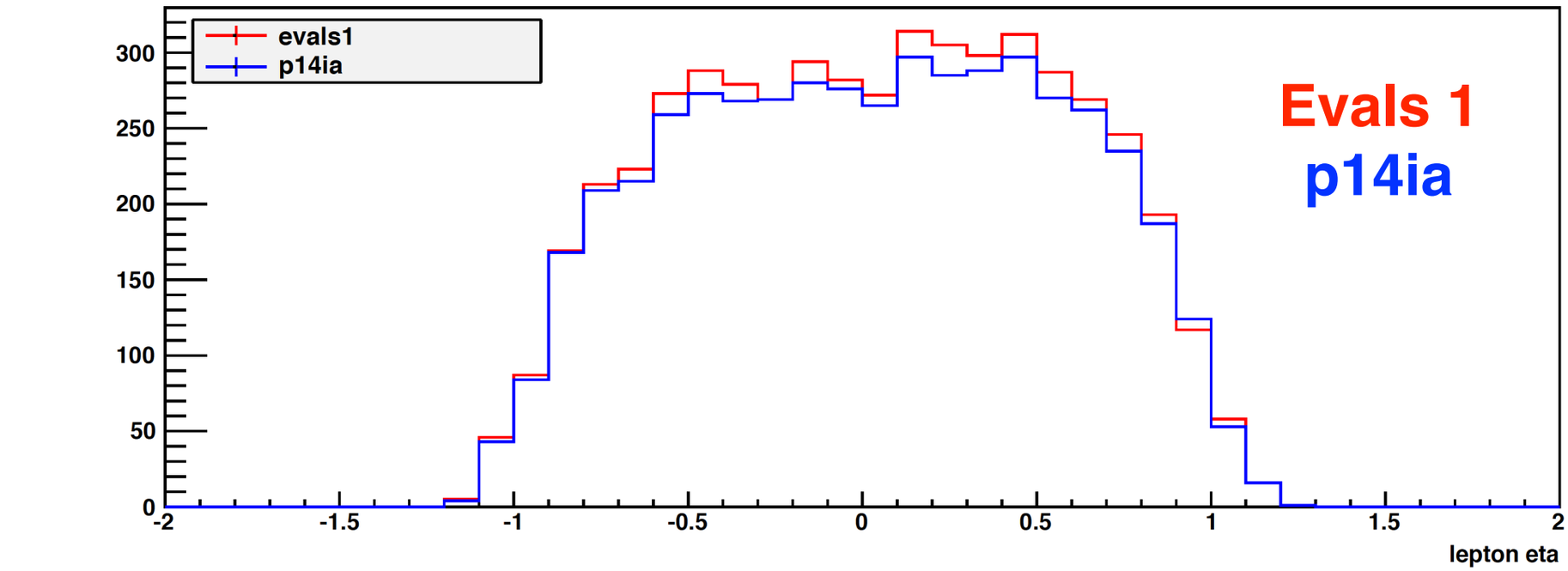
Final W - Et

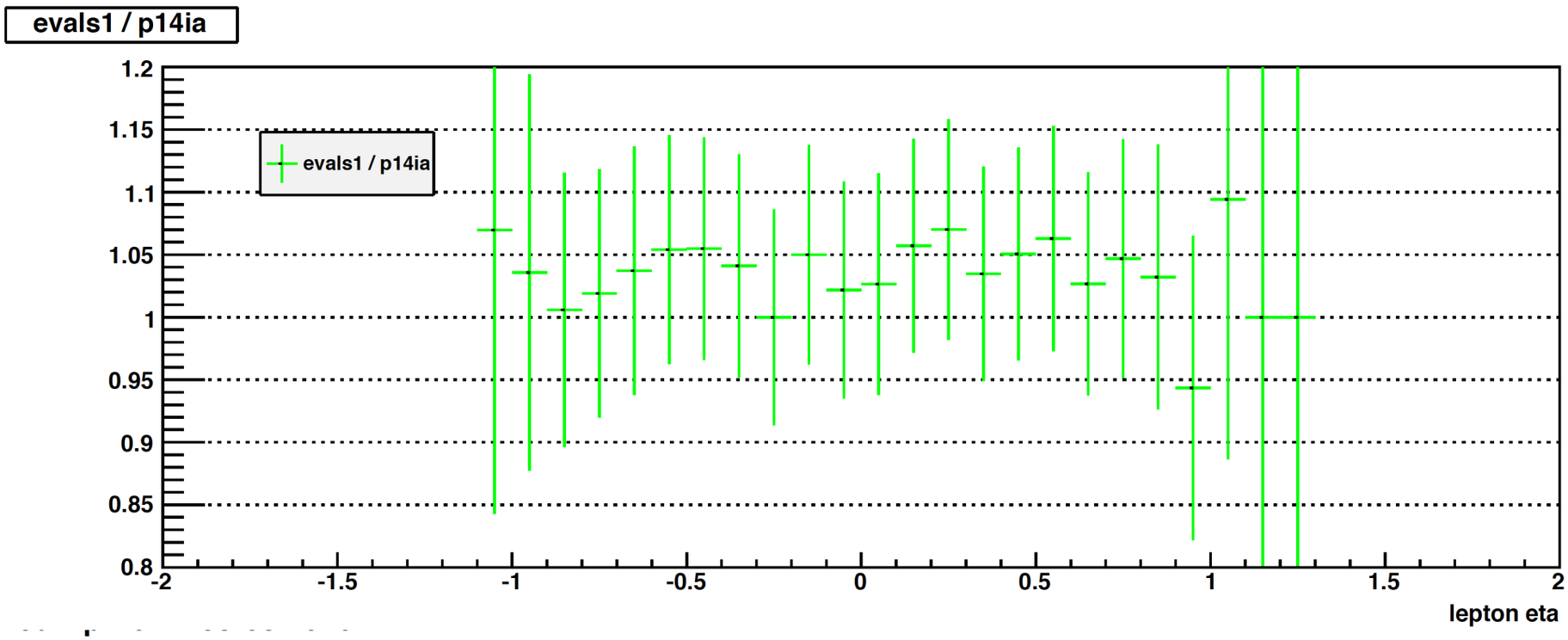


Final W - ZDC



Final W Eta


evals1
p14ia
Evals 1
p14ia
300
250
200
150
100
50
0
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
lepton eta


evals1 / p14ia
evals1 / p14ia
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
lepton eta

Summary

- ~ 4% enhancement in tracks and final Ws.
- This could be caused by new HFT material / tracking definitions in new SL16b library.
- Nothing will change in the physics due to this.