

On-line (pre-)selection Requisites for:

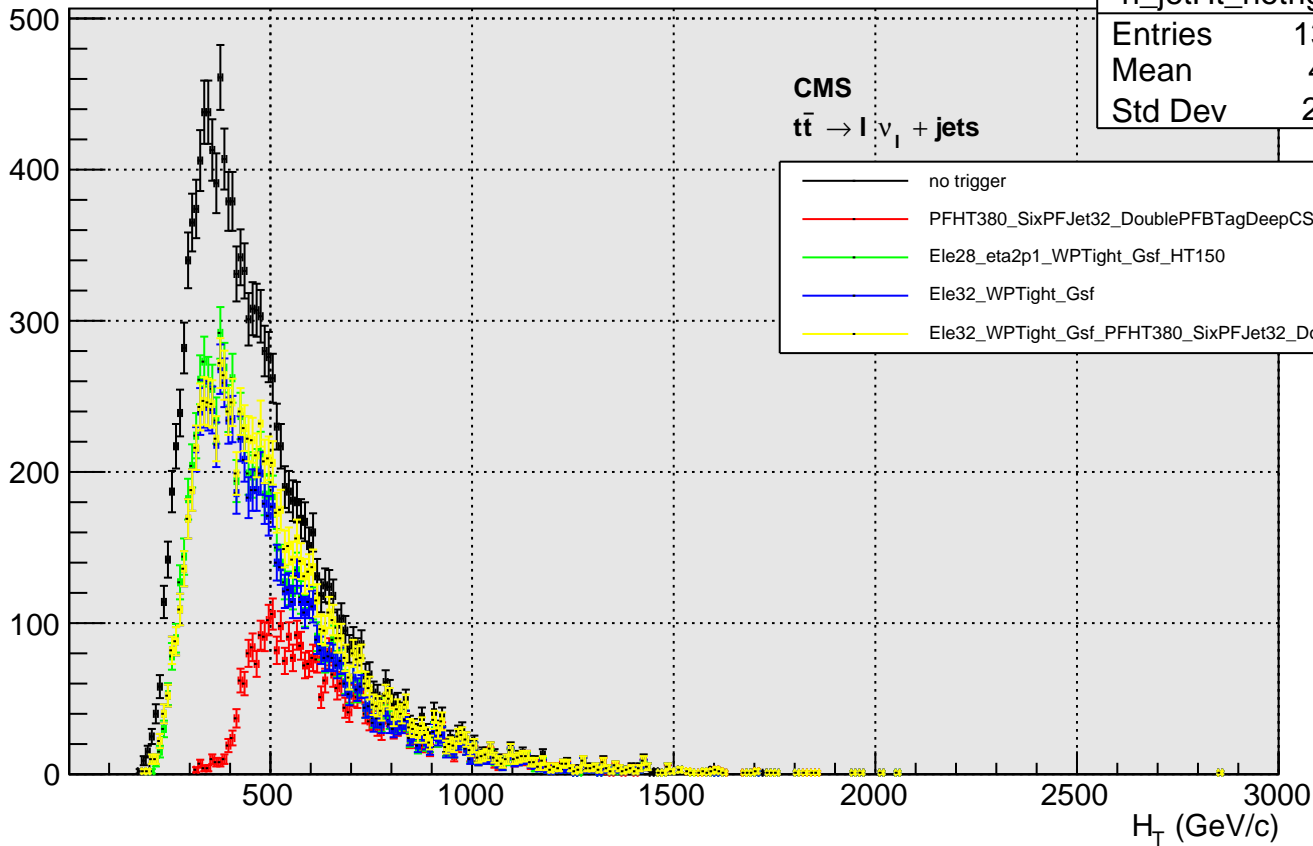
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

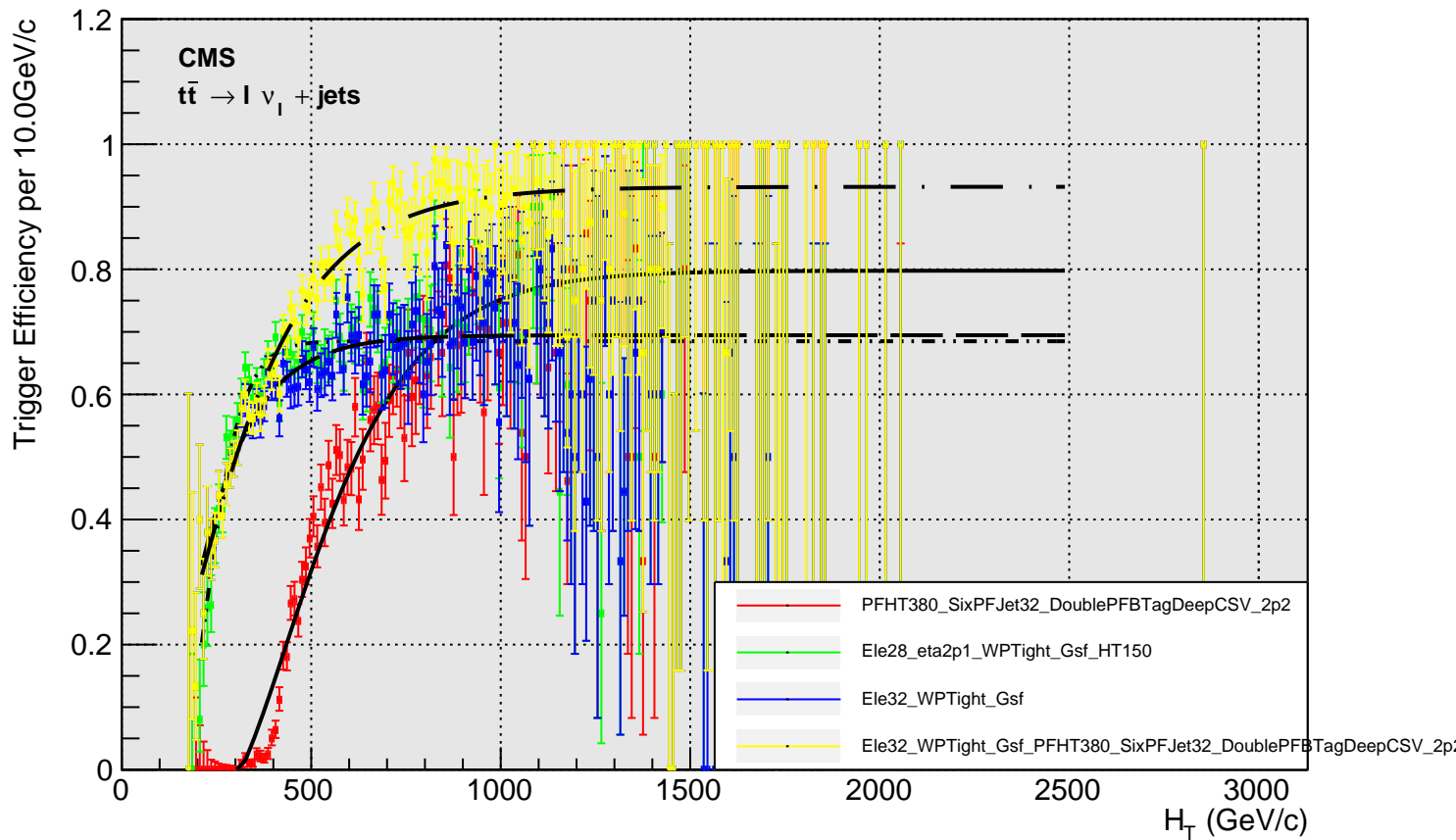
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

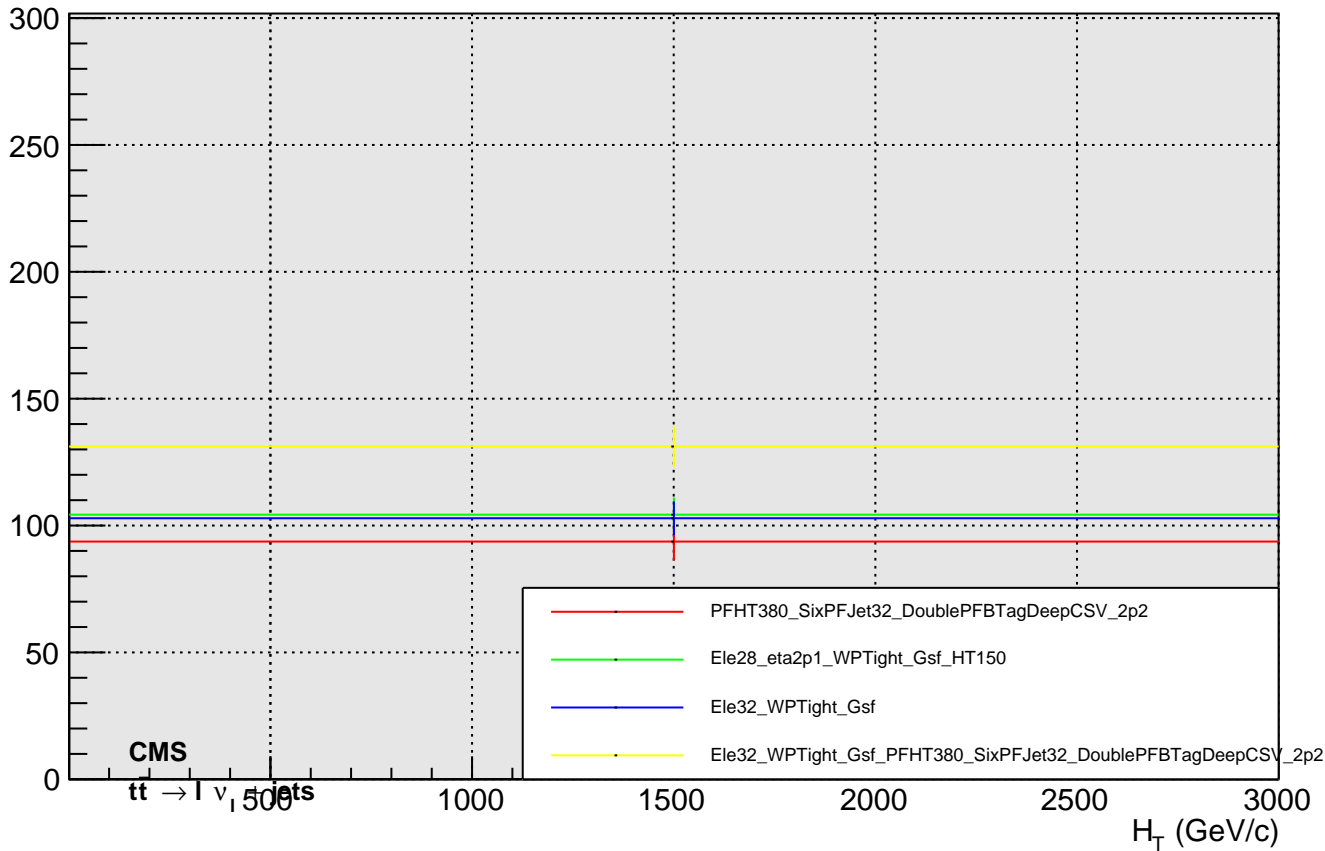
- **Jets:** $\text{jetId} > 2$, $p_T > 20$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Electrons:** has tightId , $|\eta| < 2.4$ and $\text{miniPFRelIso_all} < 0.10$ (for

Number of Events per 10 GeV/c

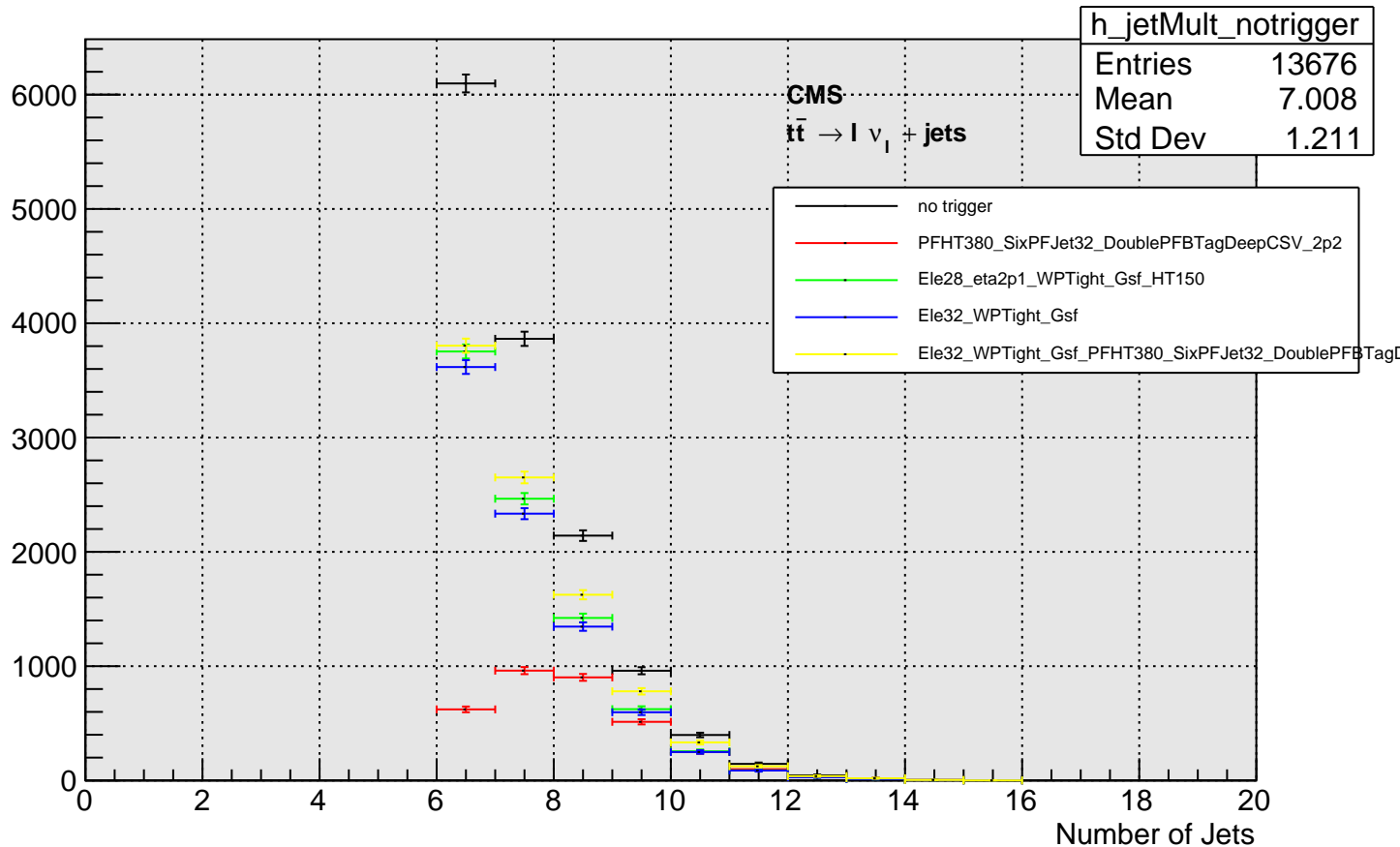


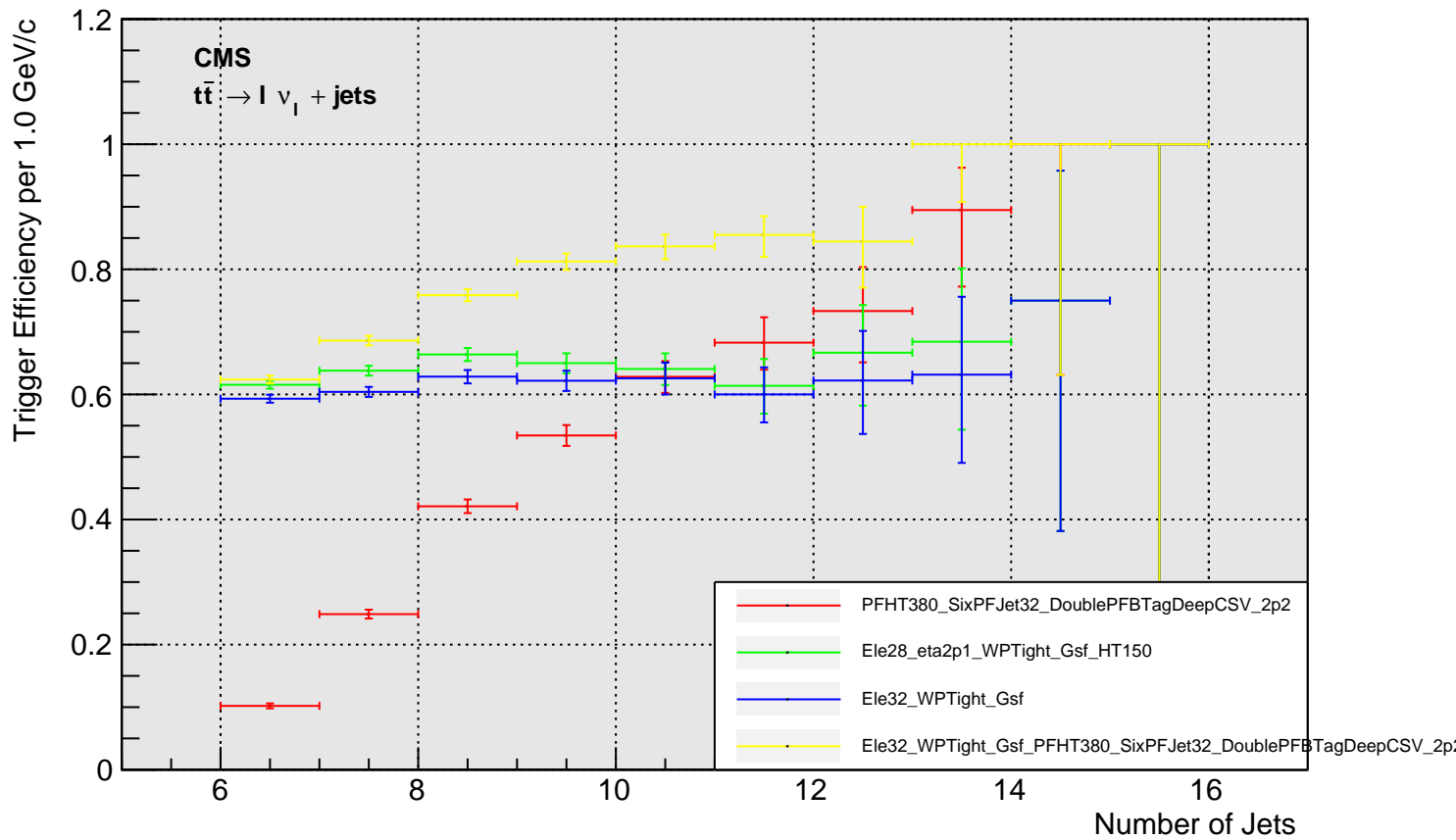


Trigger Efficiency per 10.0 GeV/c

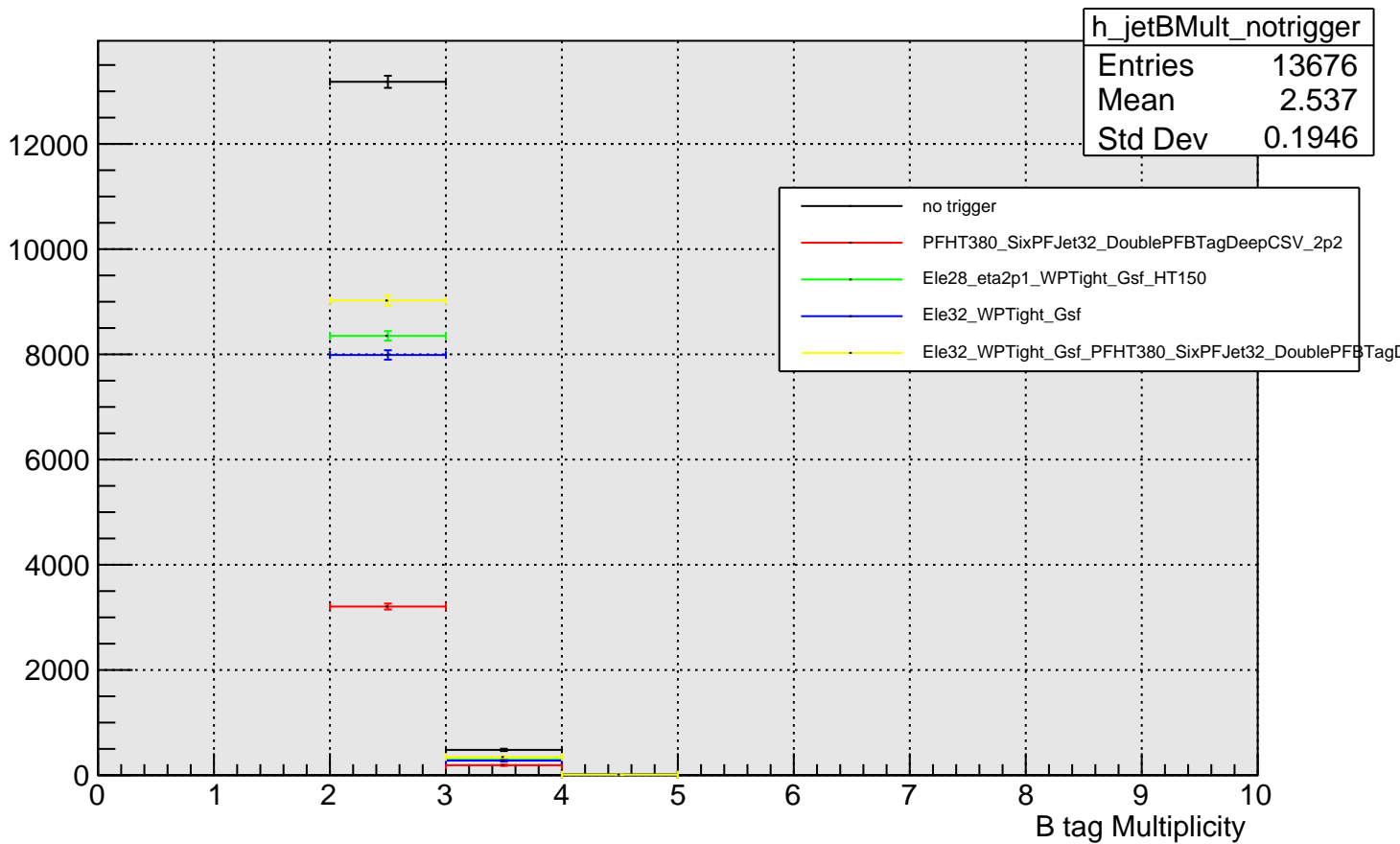


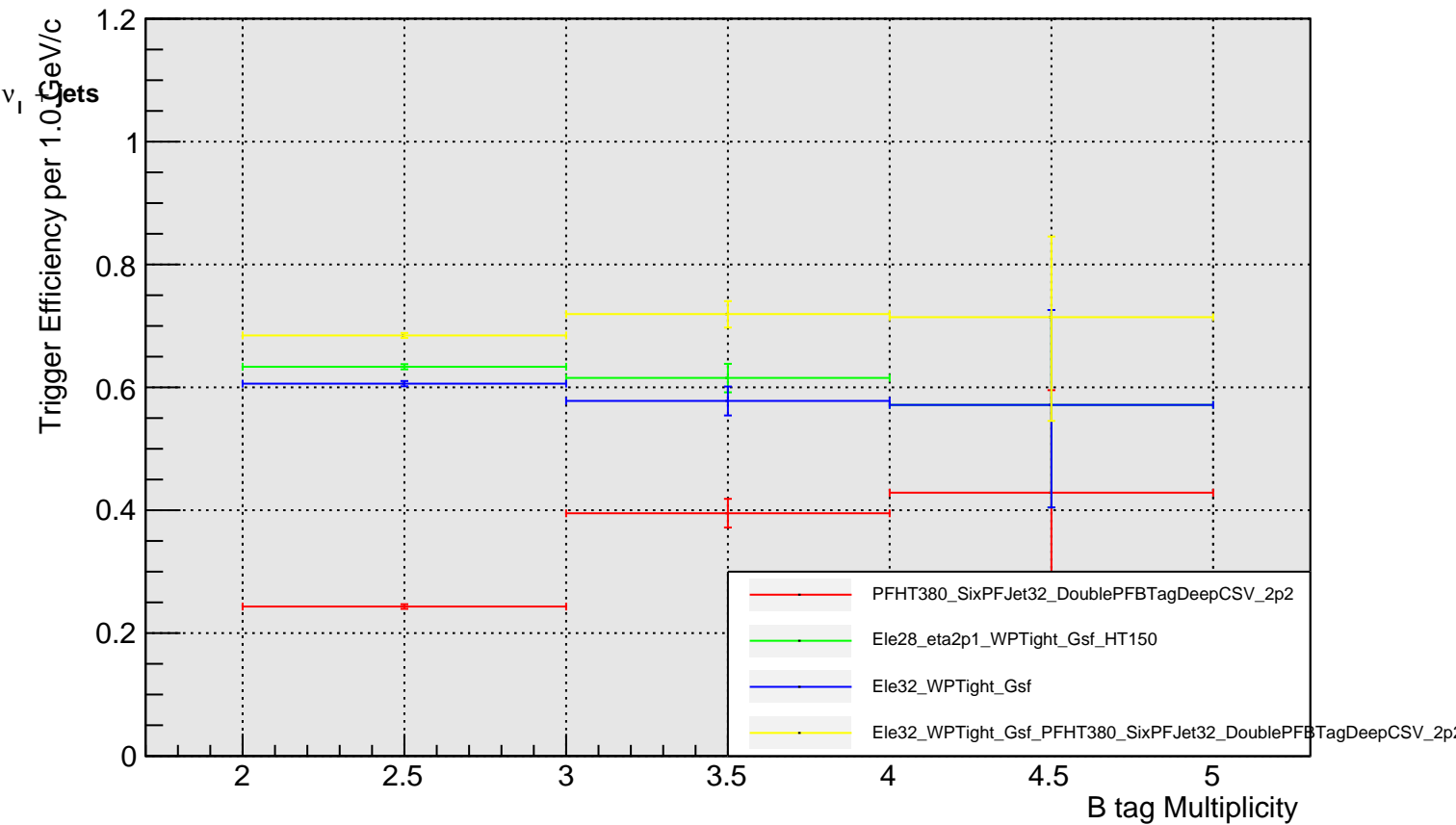
Number of Events per Number of Jets



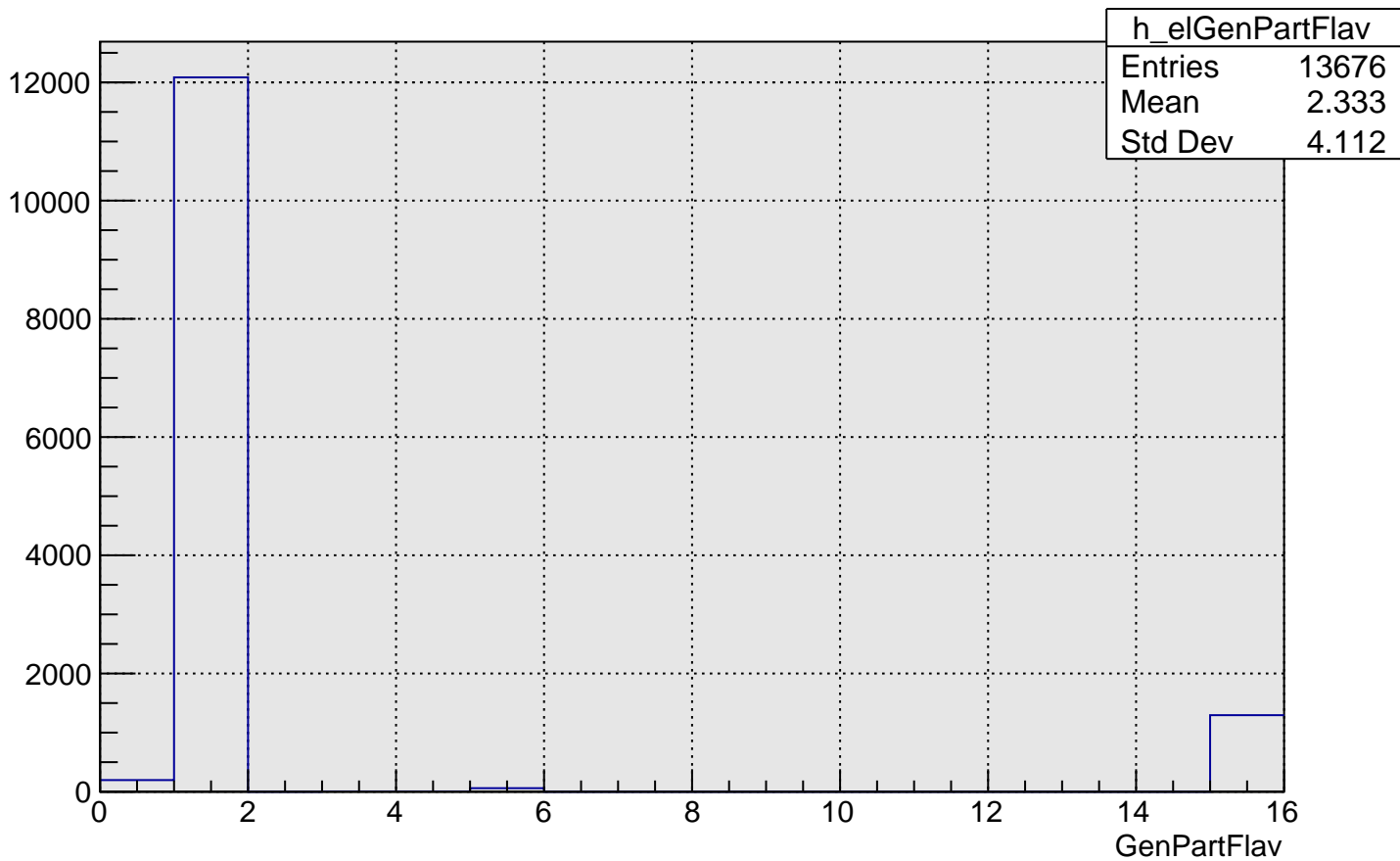


Number of Events per Number of Jets

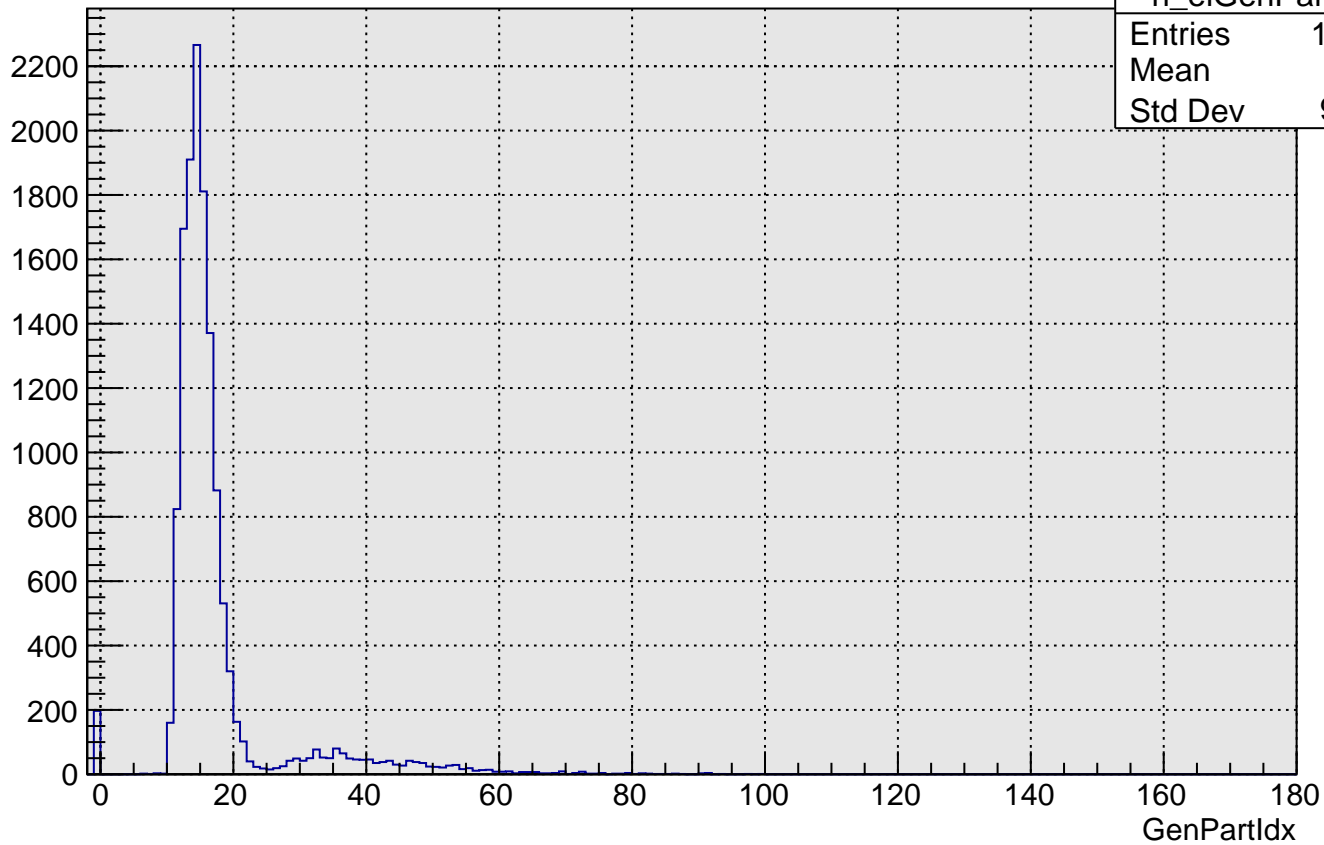




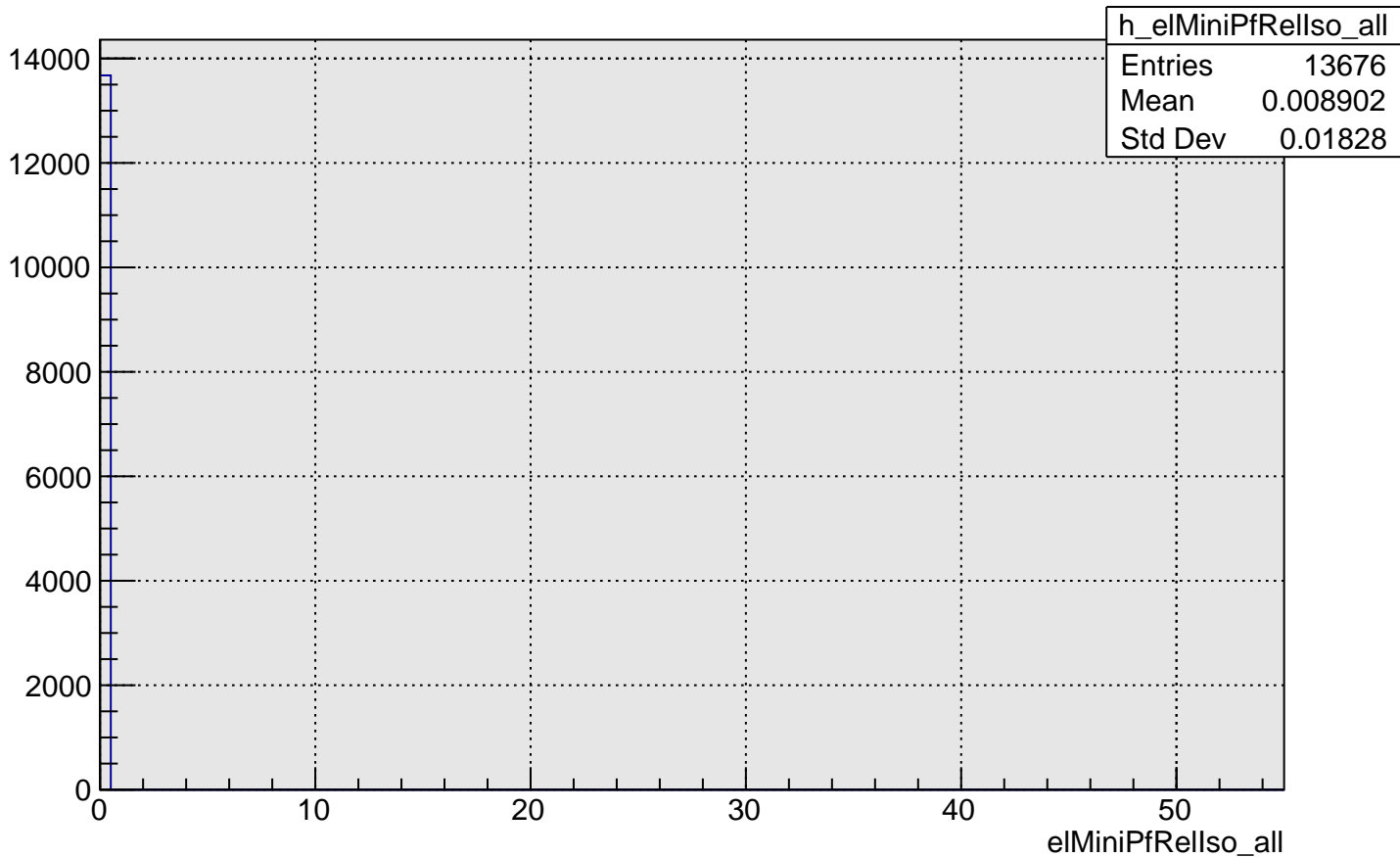
Number of events



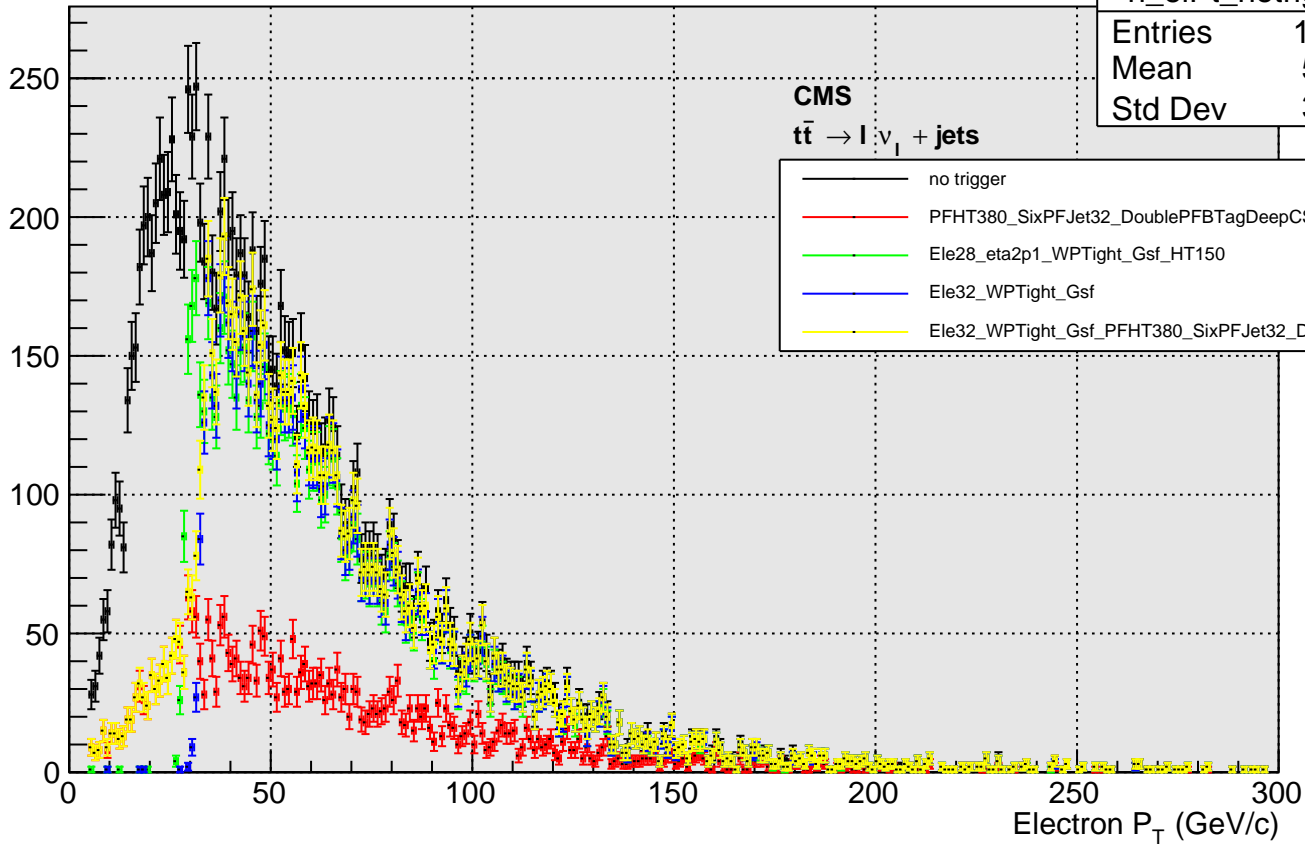
Number of events



Number of Events



Number of Events per 1 GeV/c



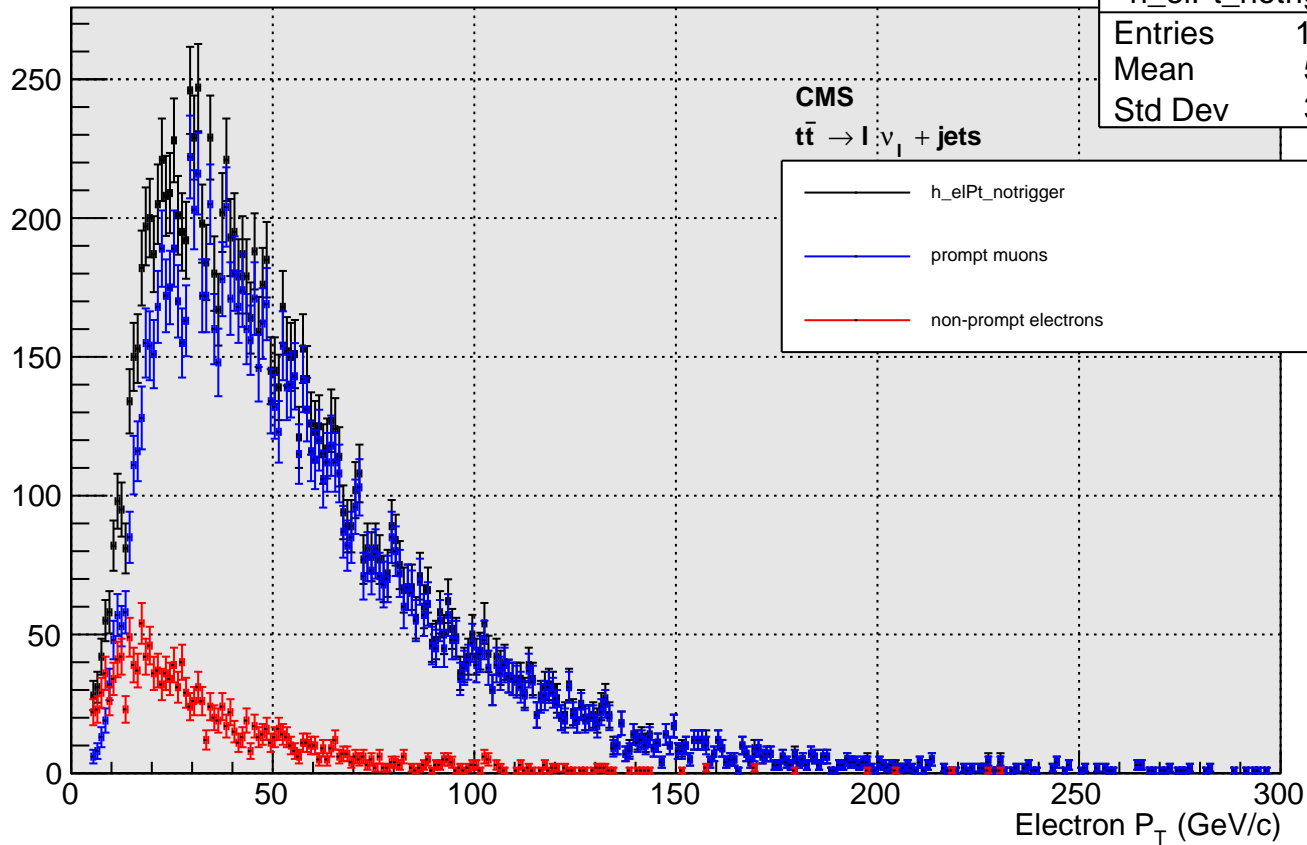
h_elPt_notrigger

Entries 13676

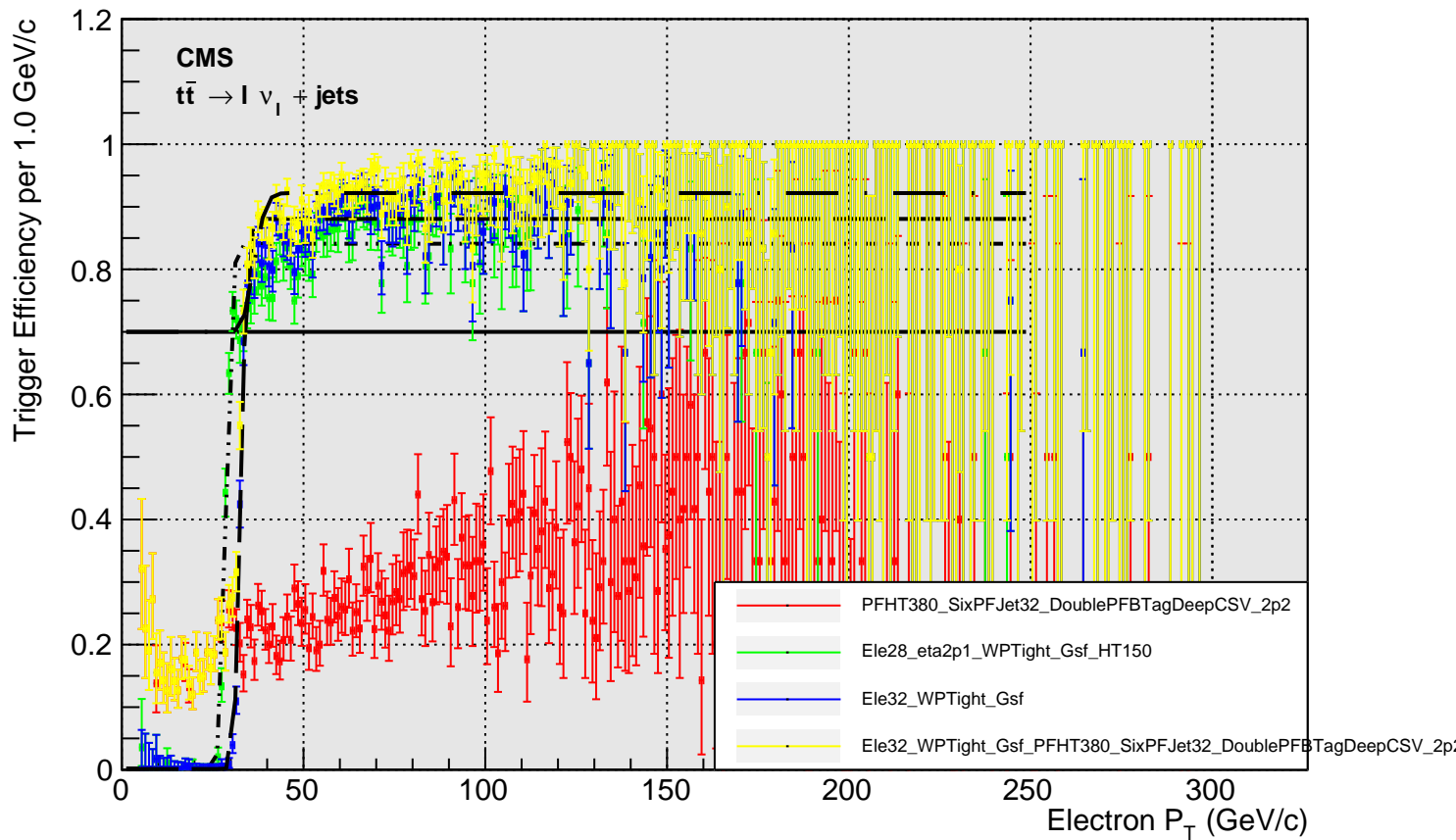
Mean 55.93

Std Dev 38.55

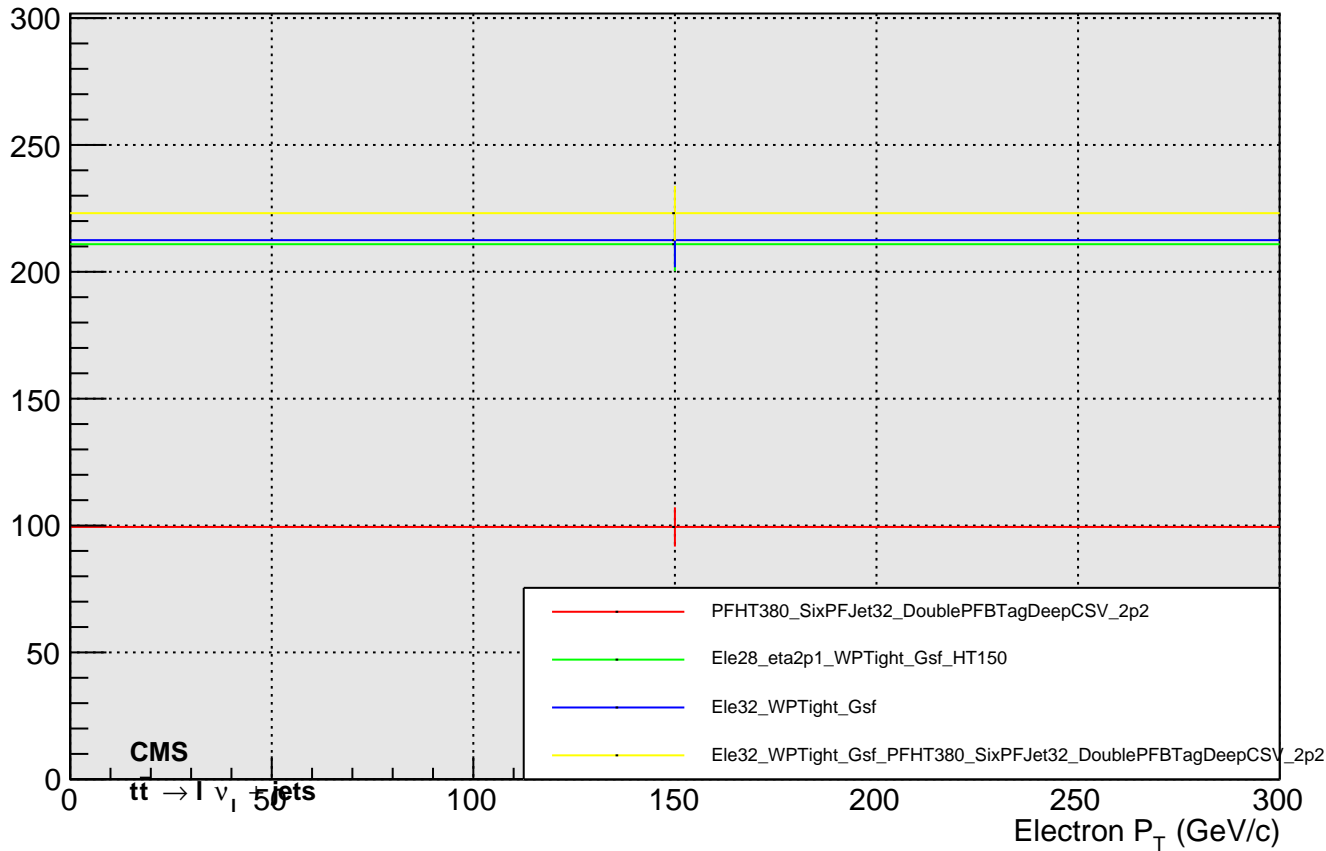
Number of Events per 1 GeV/c



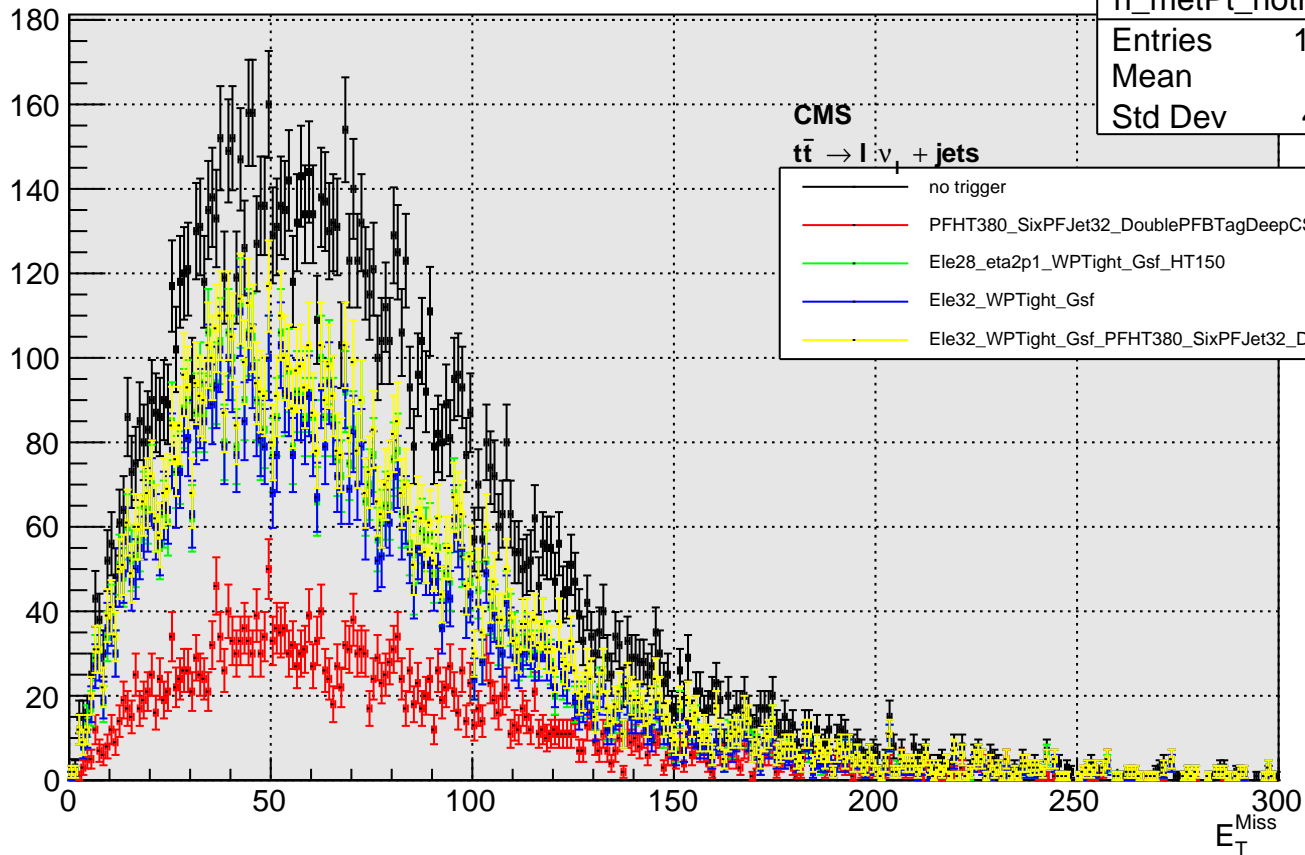
h_elPt_notrigger	
Entries	13676
Mean	55.93
Std Dev	38.55

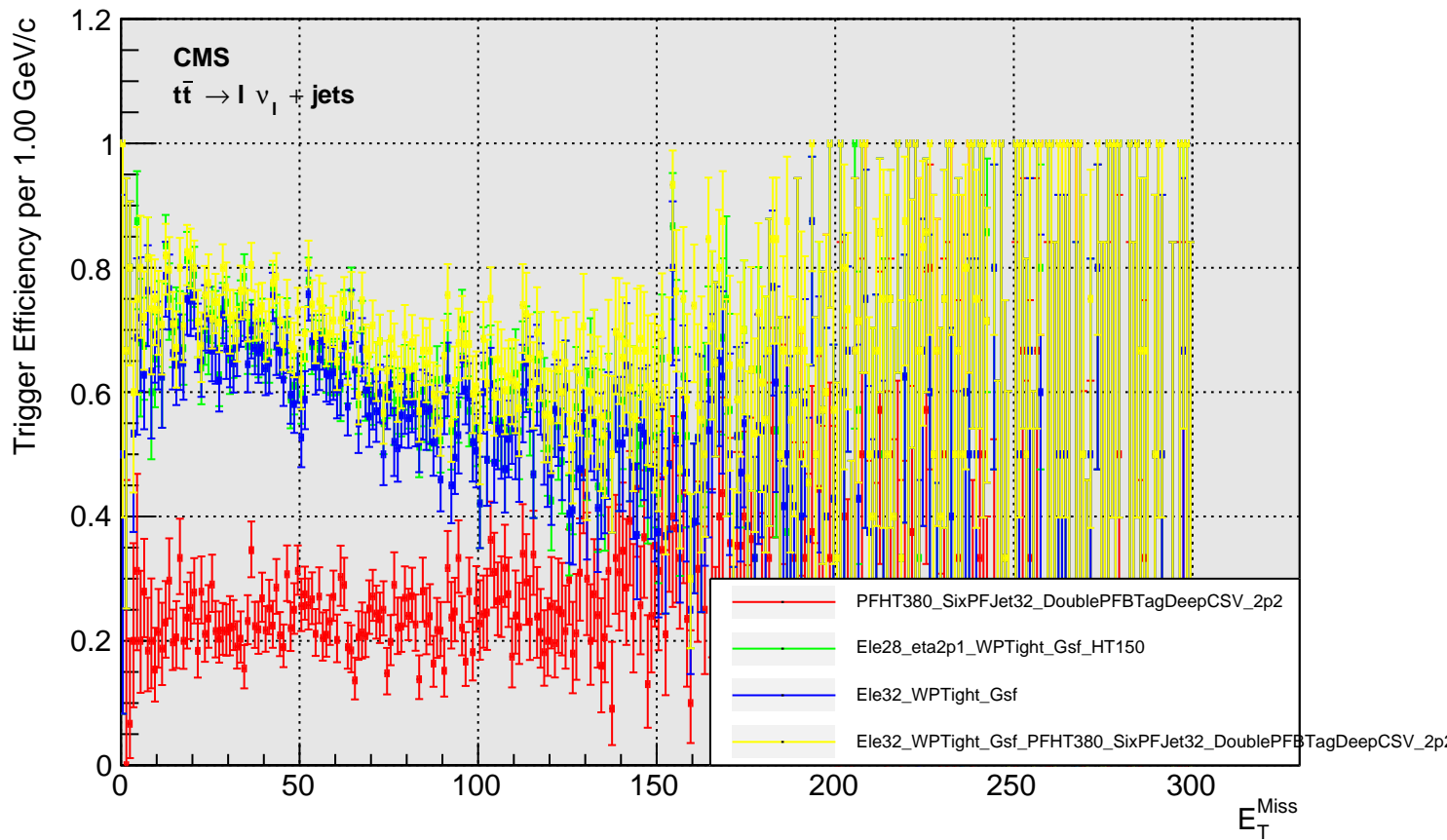


Trigger Efficiency per 1.00 GeV/c

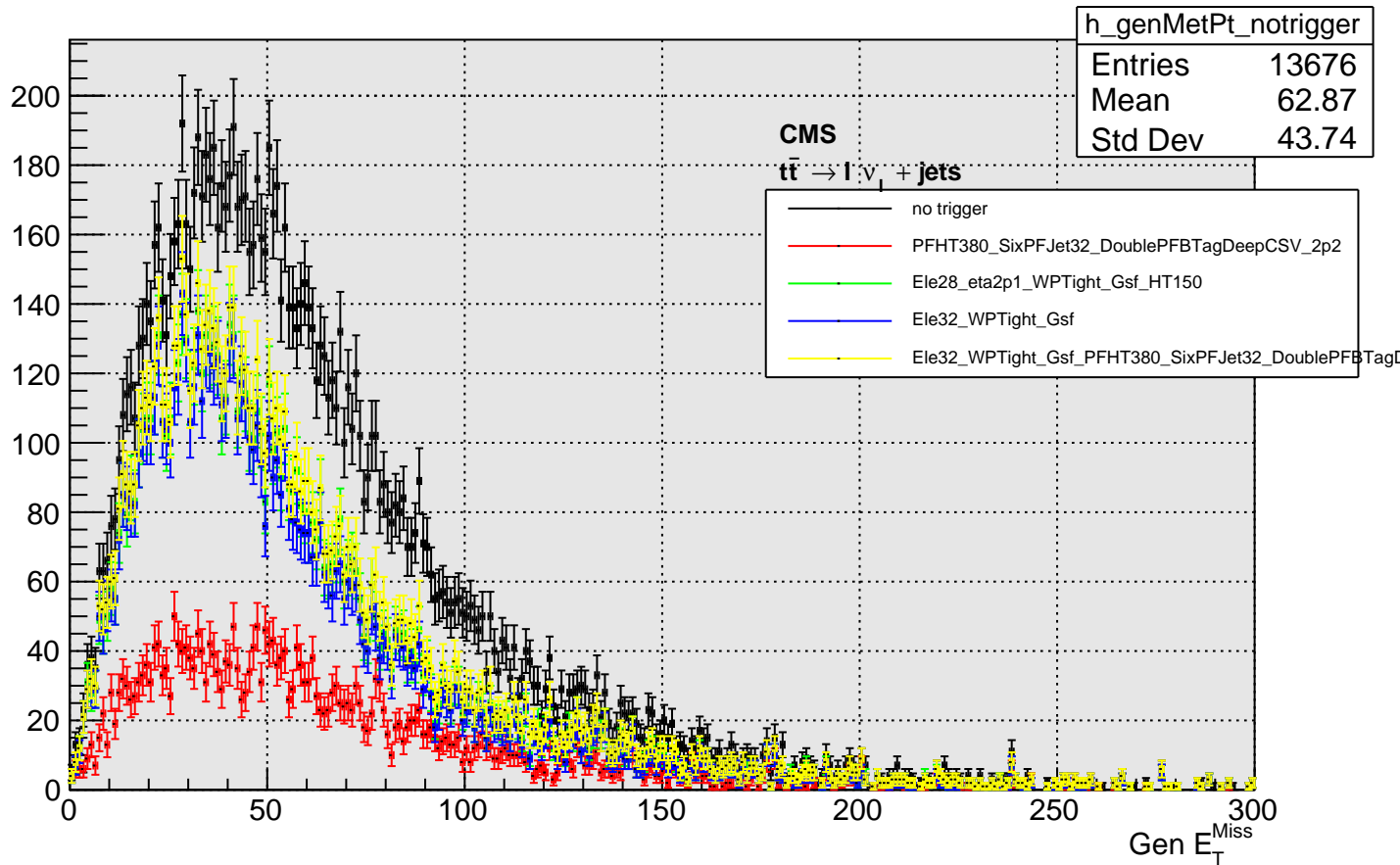


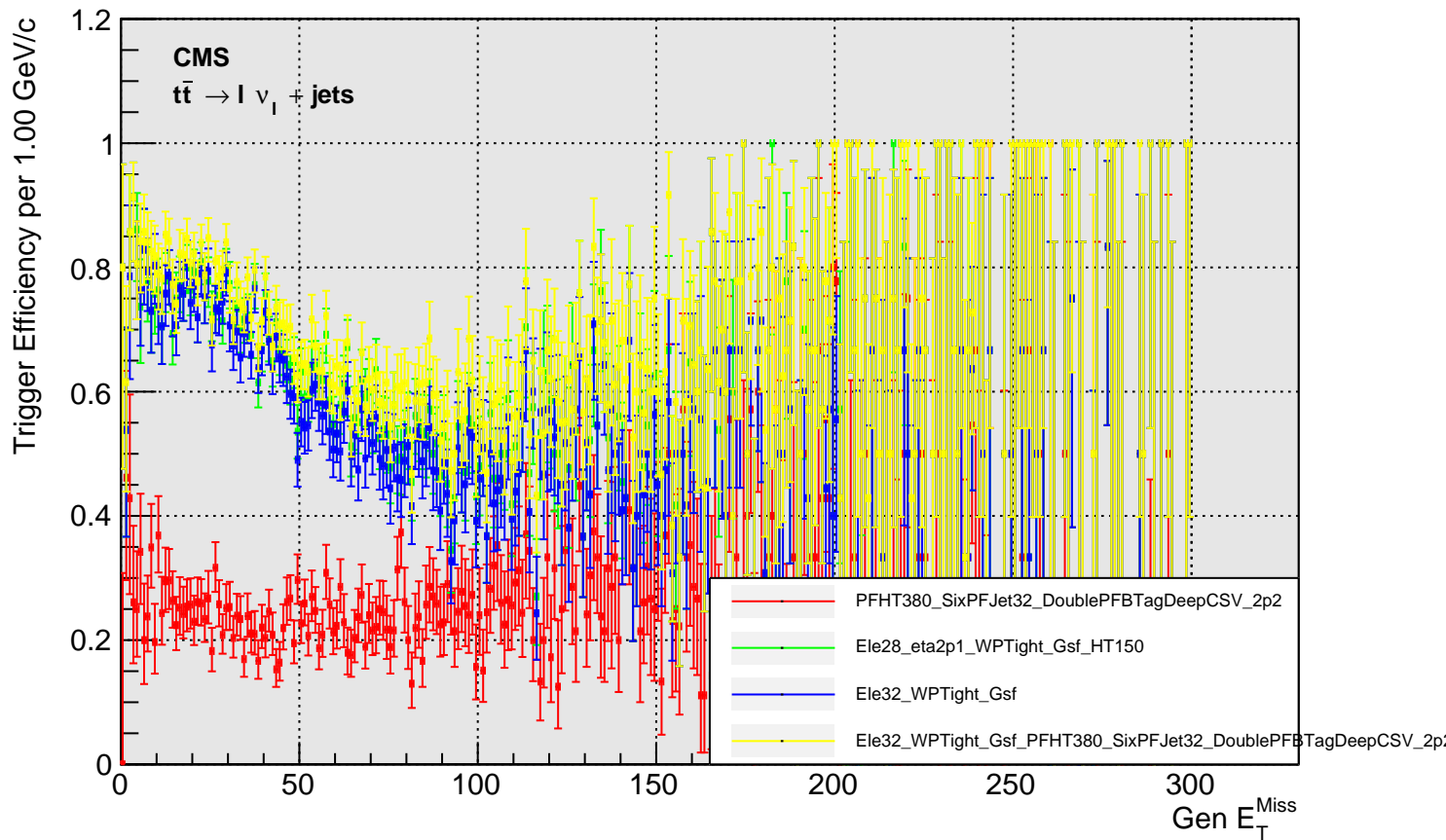
Number of Events per 1 GeV/c



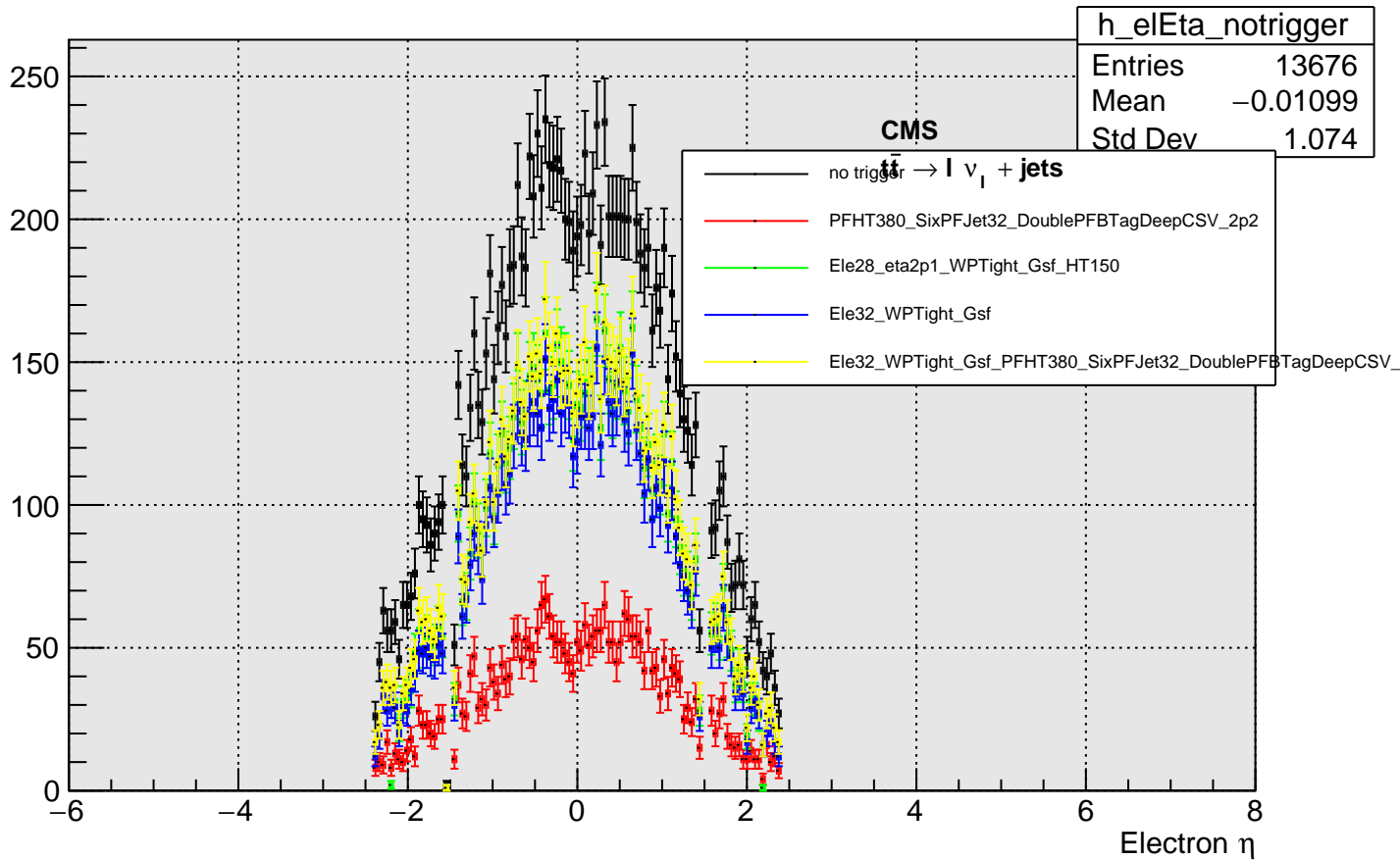


Number of Events per 1GeV/c



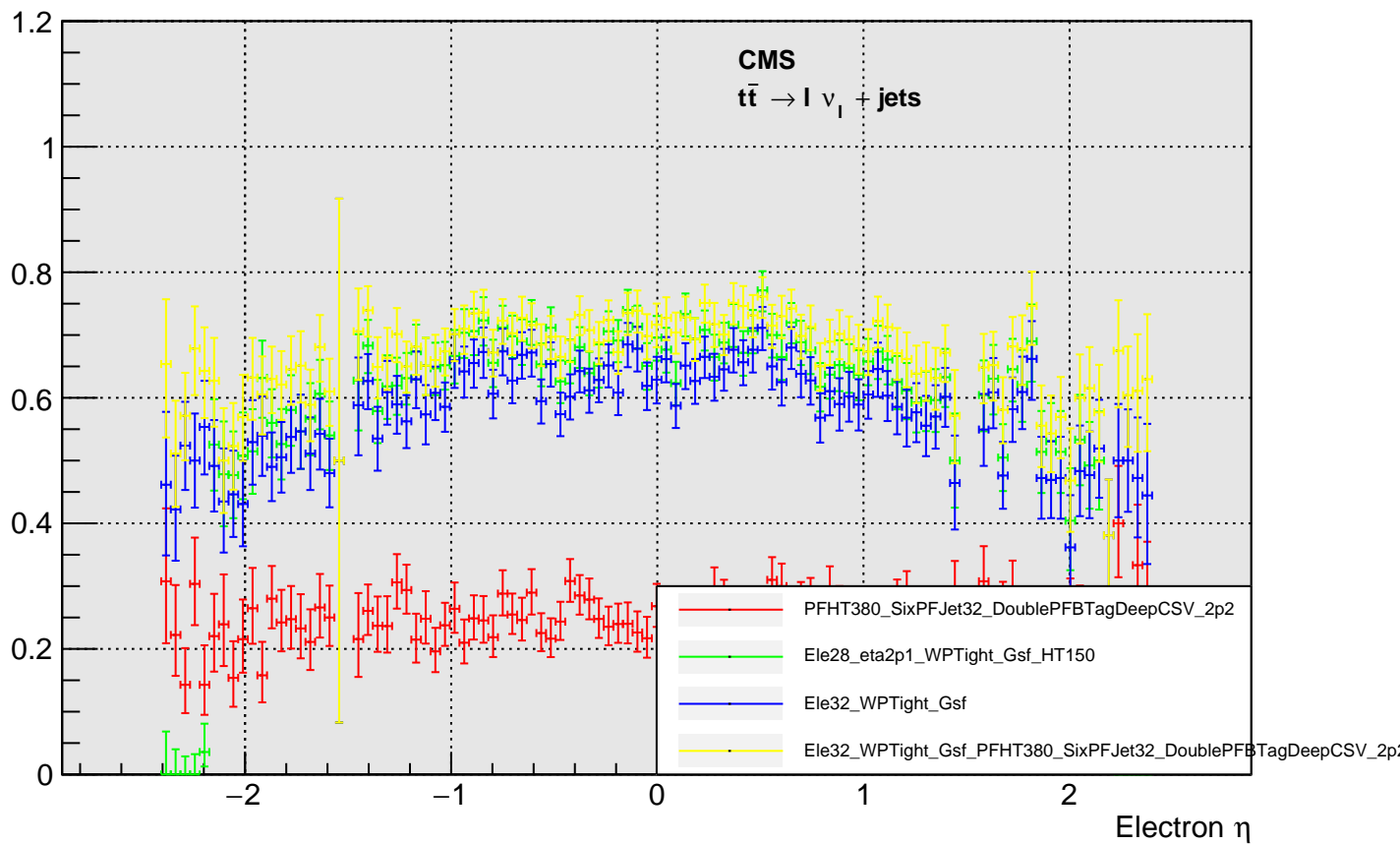


Number of Events per $\delta\eta = 0.046$

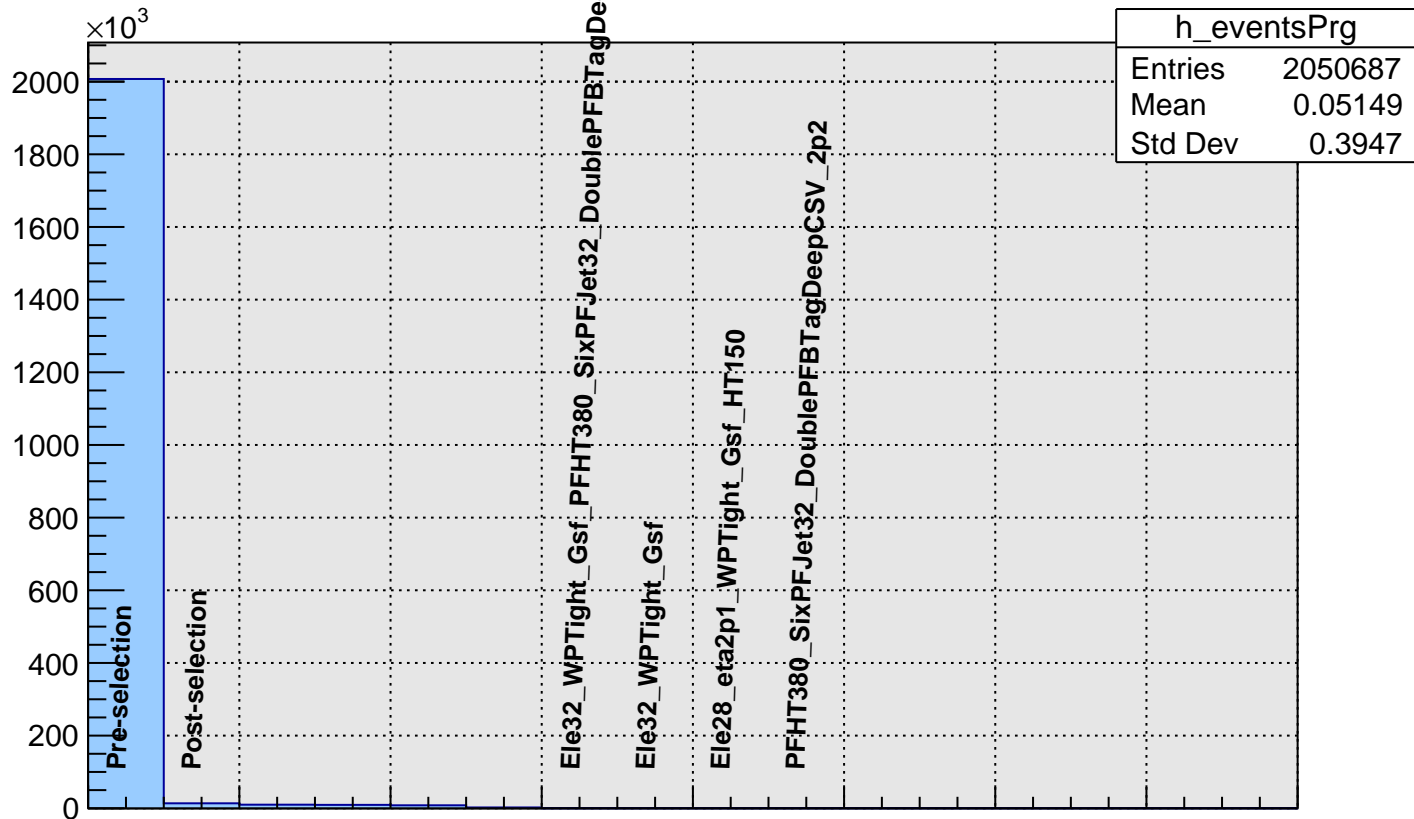


Trigger Efficiency per 0.046666666666667 GeV/c

CMS
 $t\bar{t} \rightarrow l \nu_l + \text{jets}$



Total Number of Accepted Events



Cuts and Triggers