

On-line (pre-)selection Requisites for:

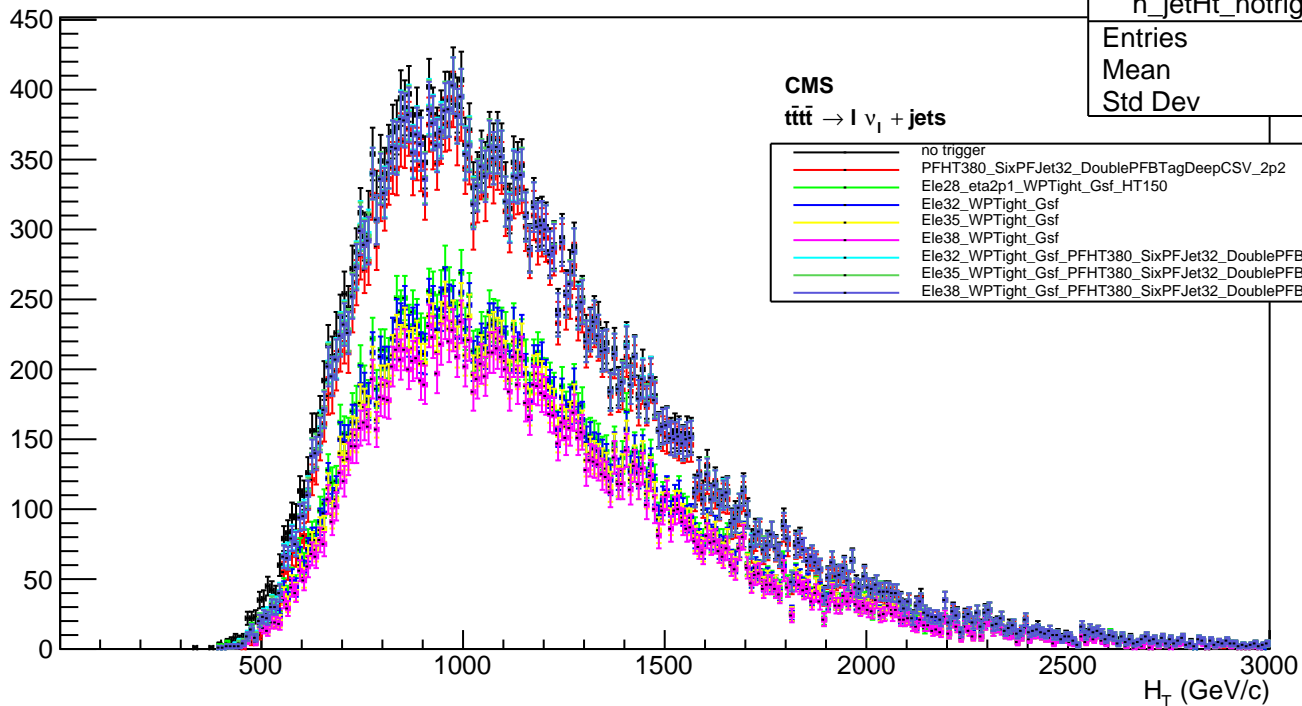
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

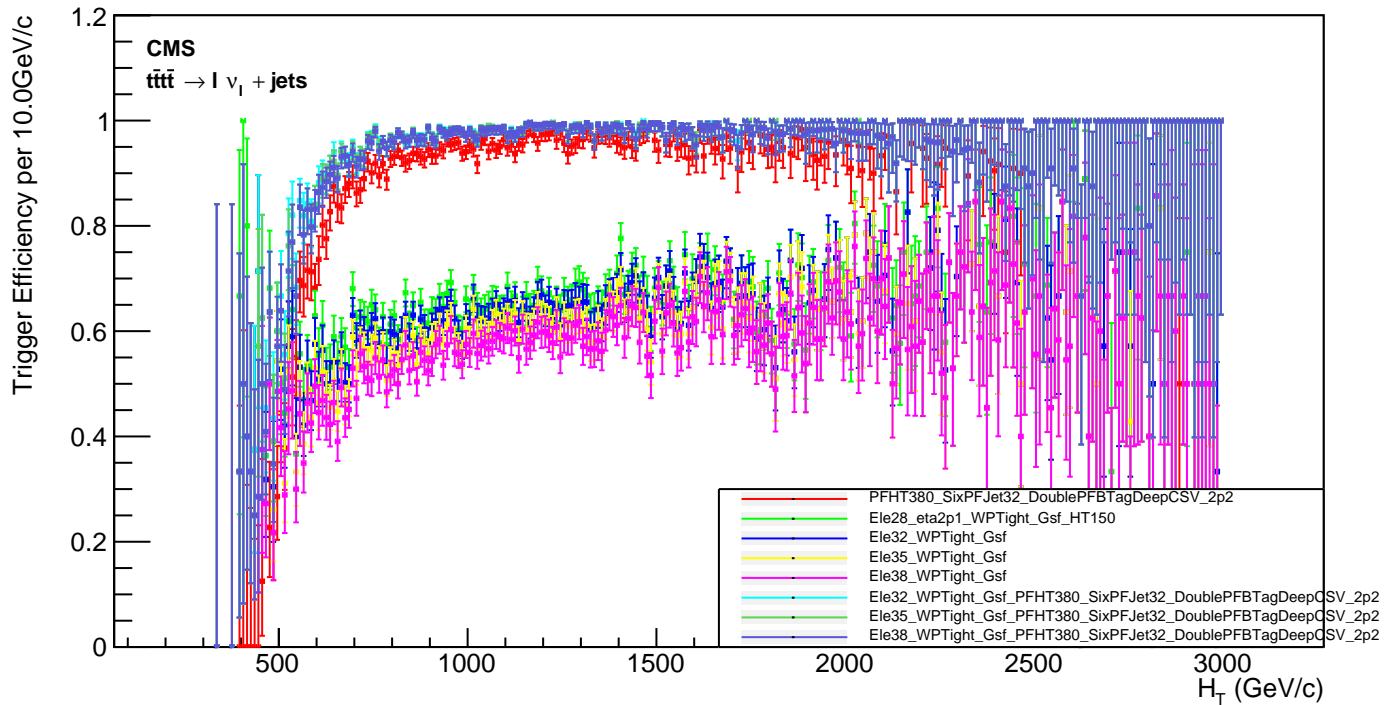
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

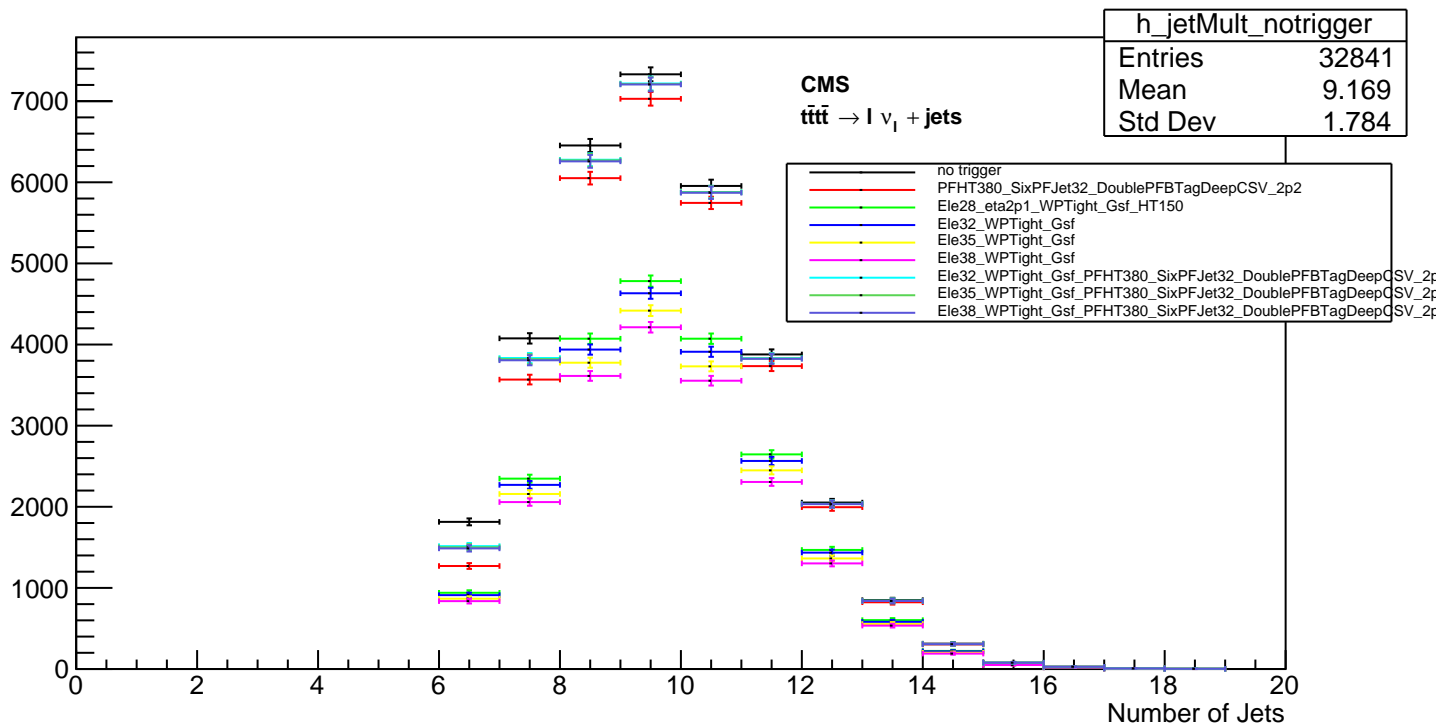
- **Jets:** $\text{jetId} > 2$, $p_T > 30$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Electrons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.10$ (for at least 1)

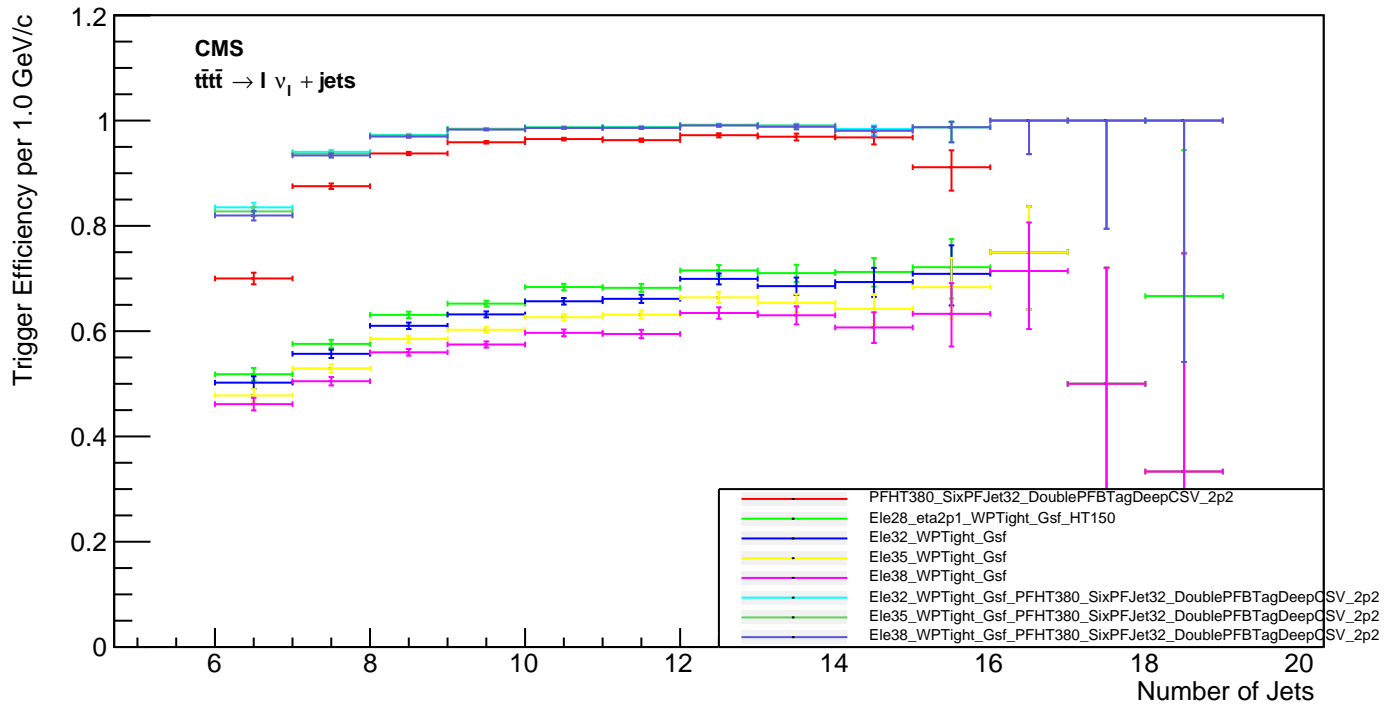
Number of Events per 10 GeV/c



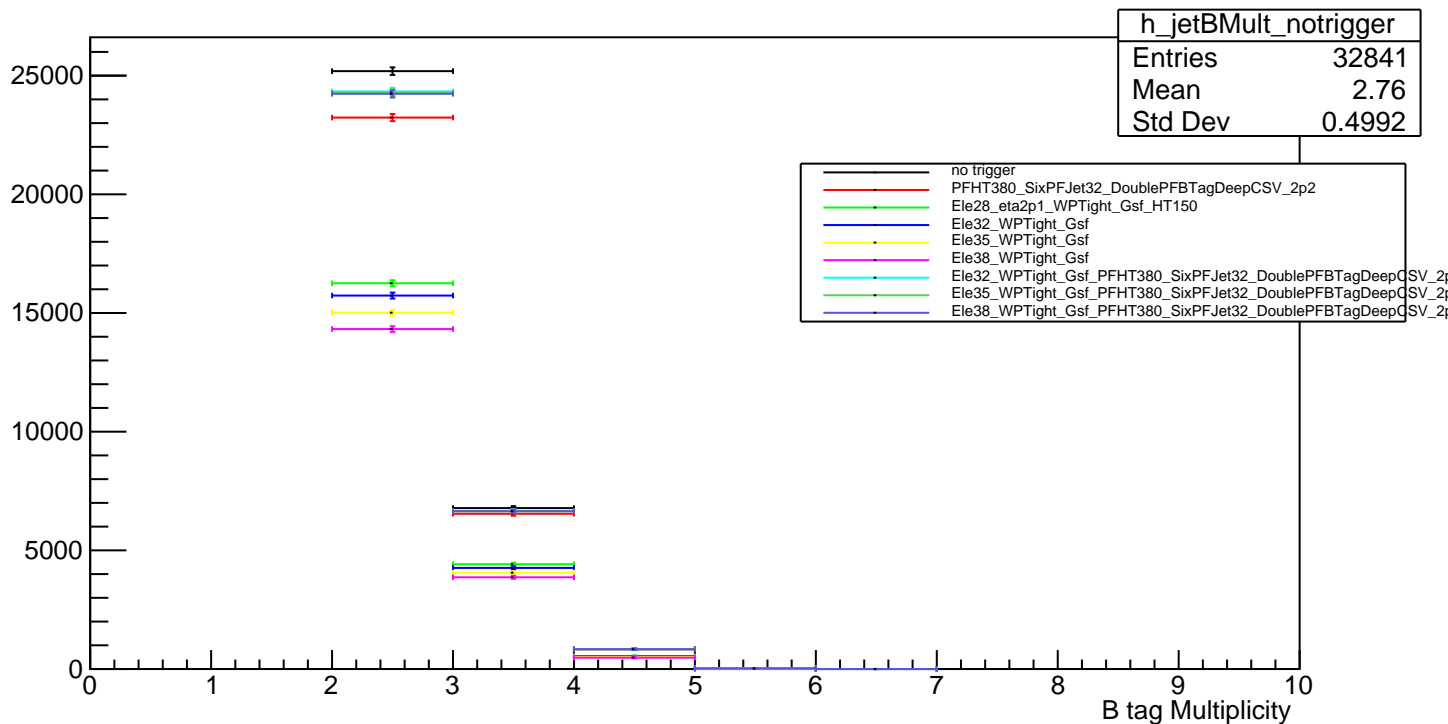


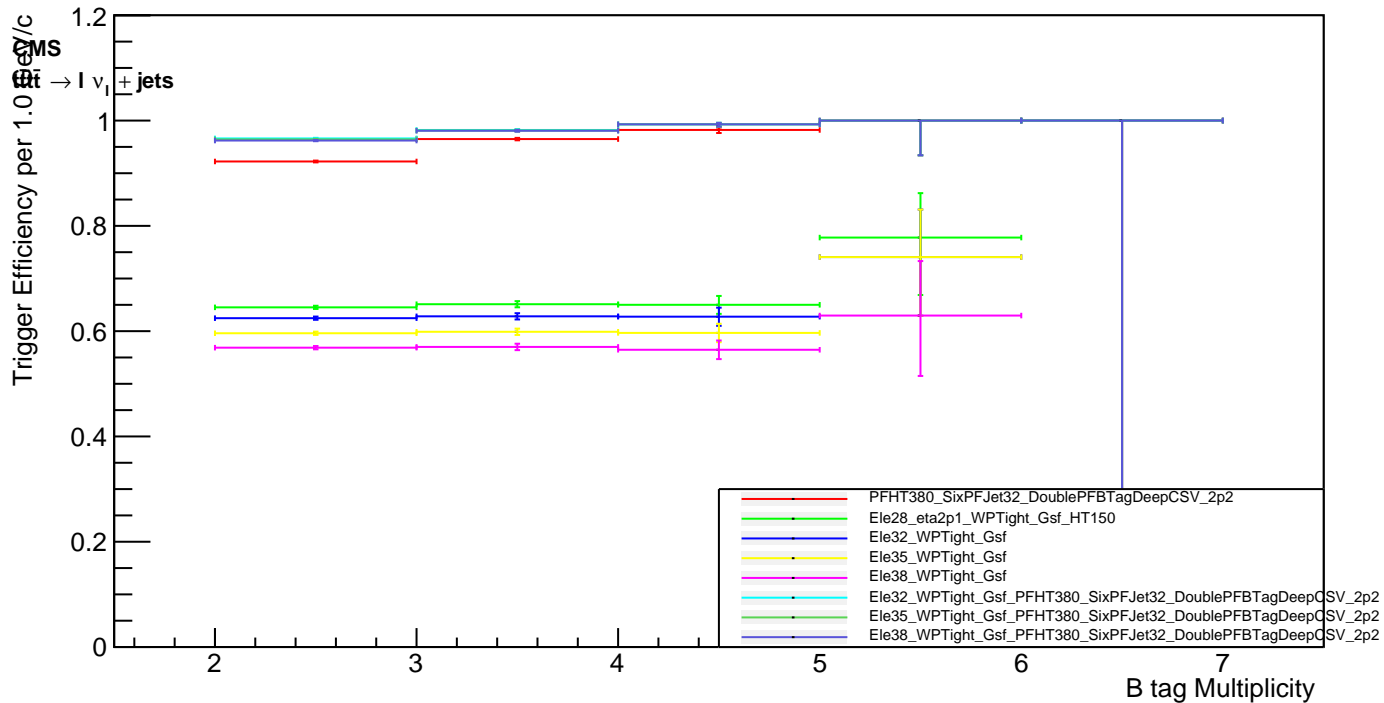
Number of Events per Number of Jets



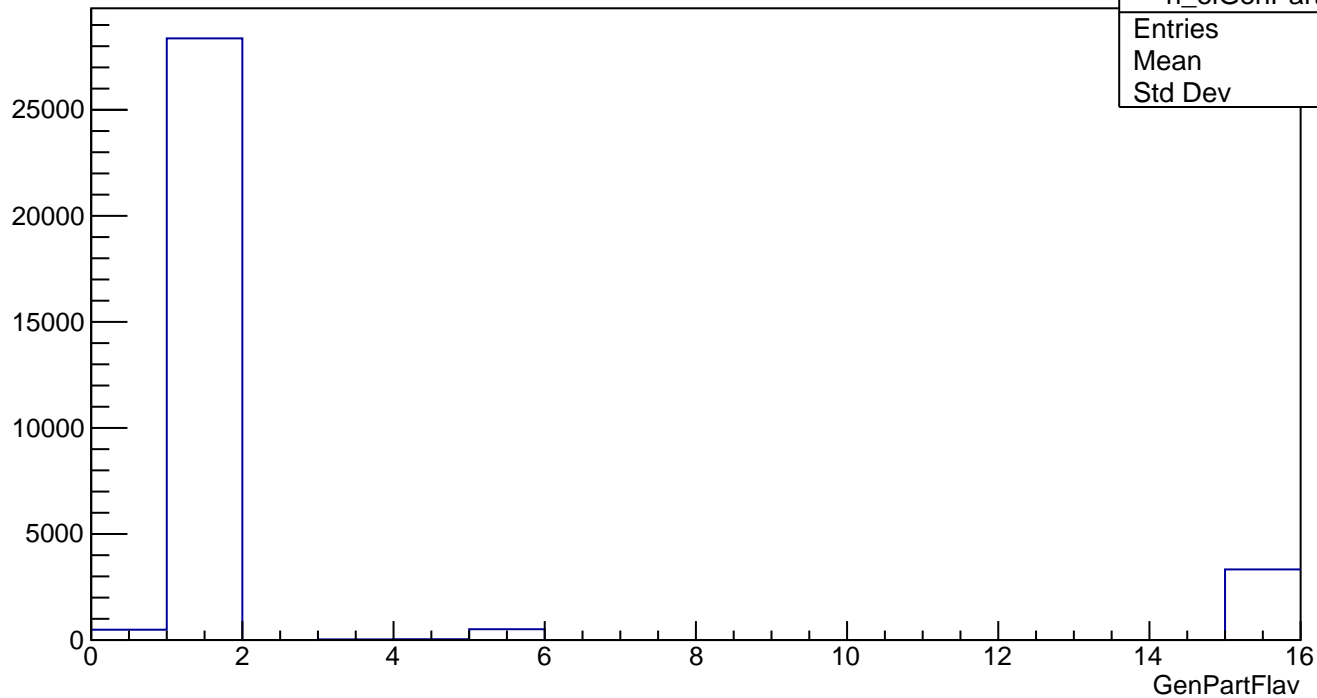


Number of Events per Number of Jets





Number of events

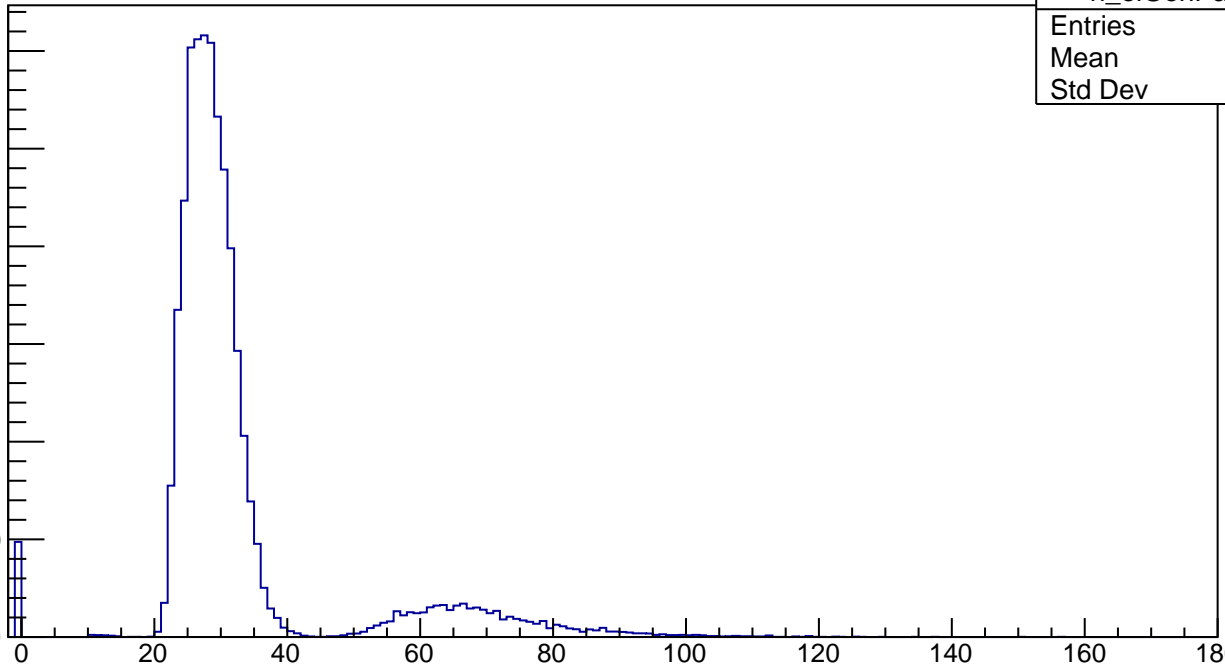


h_elGenPartFlav

Entries	32841
Mean	2.475
Std Dev	4.245

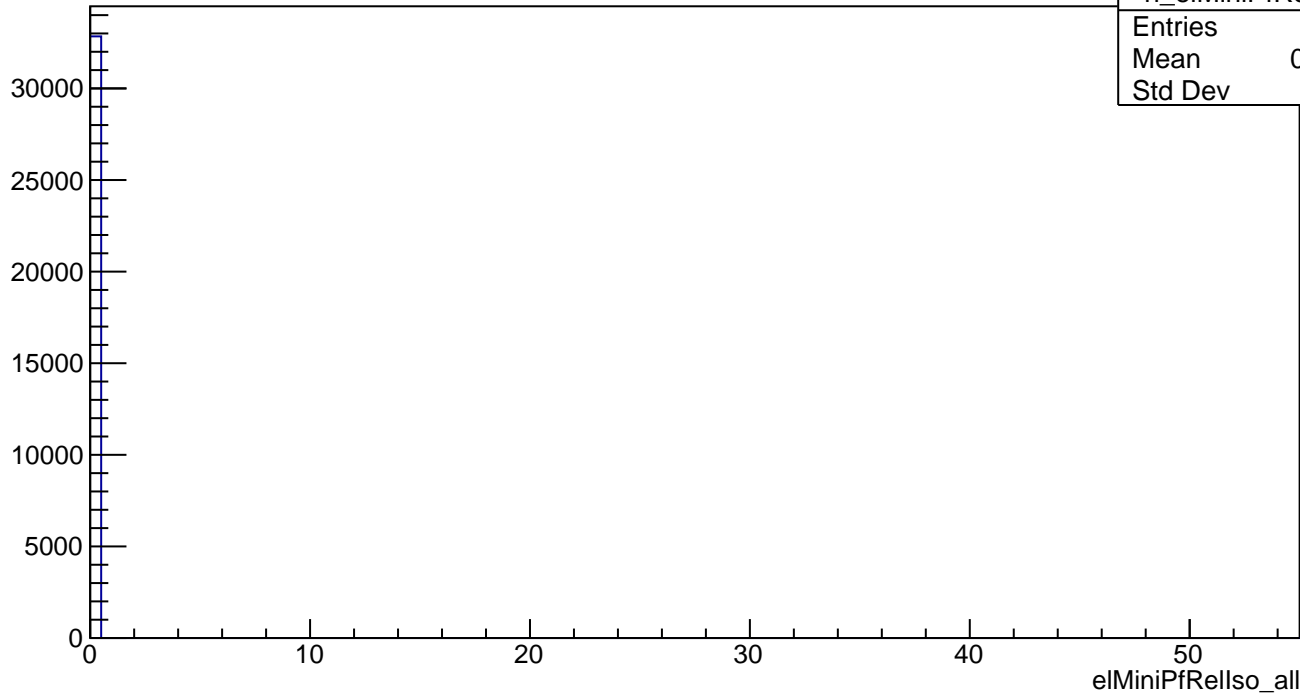
Number of events

3000
2500
2000
1500
1000
500
0



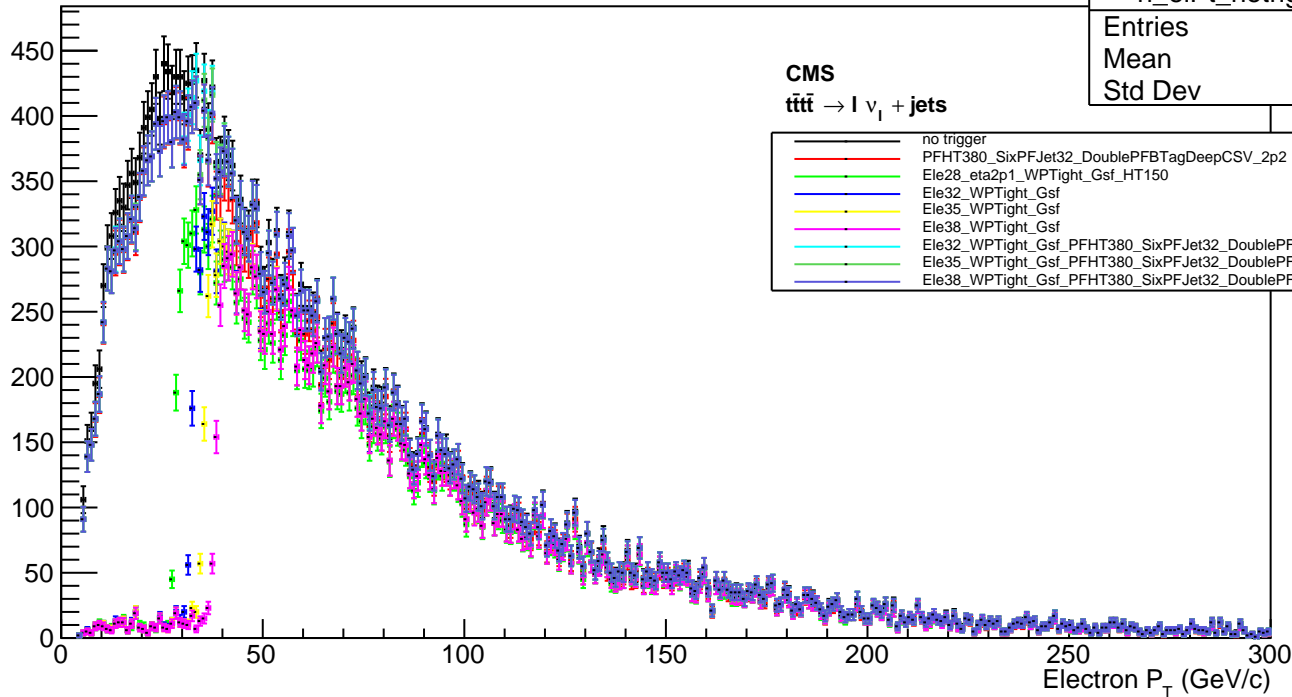
h_elGenPartIdx	
Entries	32841
Mean	32.31
Std Dev	14.95

Number of Events



h_elMiniPfRelIso_all	
Entries	32841
Mean	0.008793
Std Dev	0.01827

Number of Events per 1 GeV/c



h_elPt_notrigger

Entries	32841
Mean	67.1
Std Dev	52.05

Number of Events per 1 GeV/c

CMS

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

h_elPt_notrigger

Entries 32841

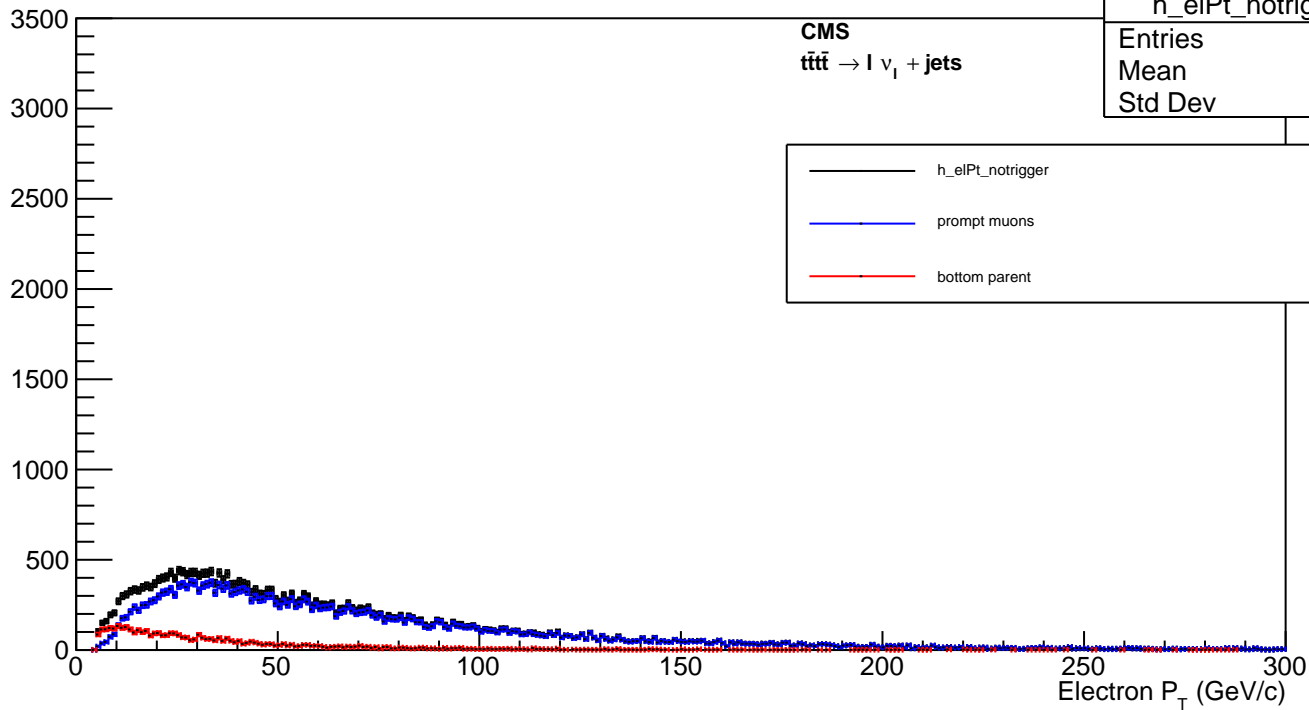
Mean 67.1

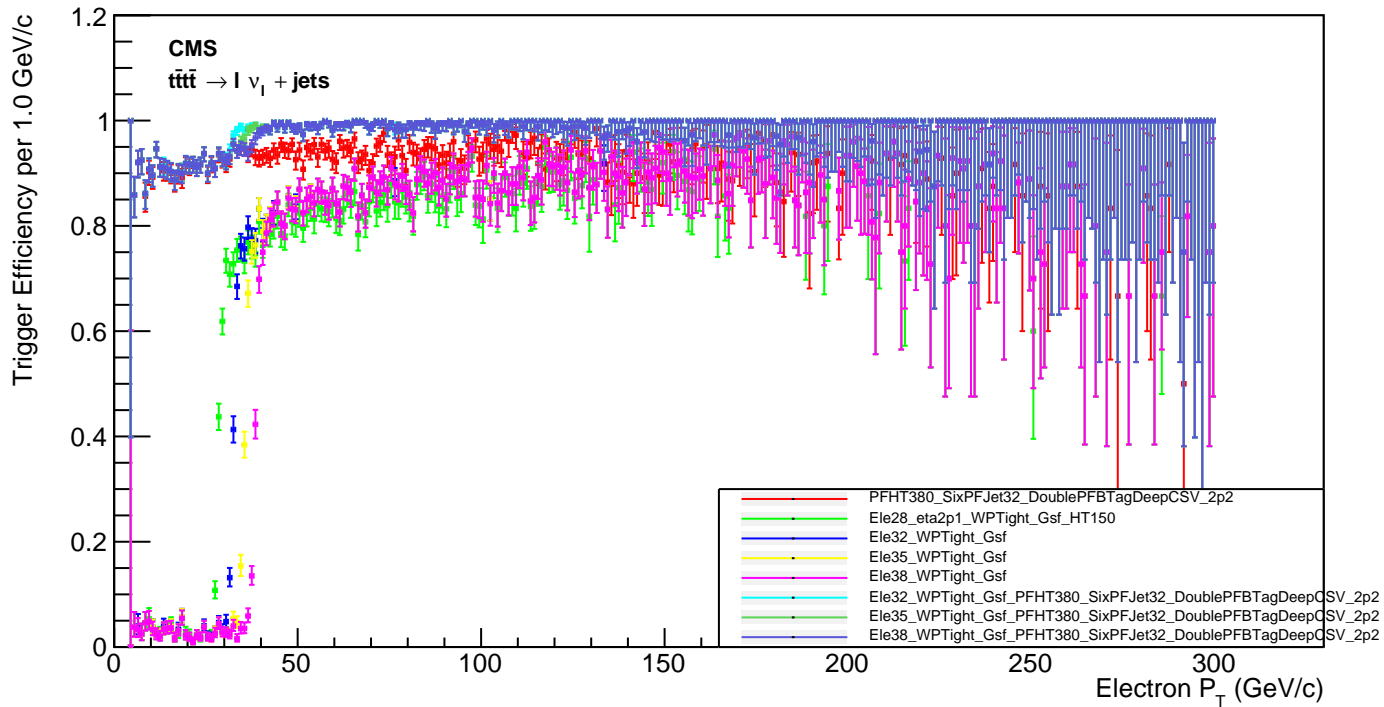
Std Dev 52.05

h_elPt_notrigger

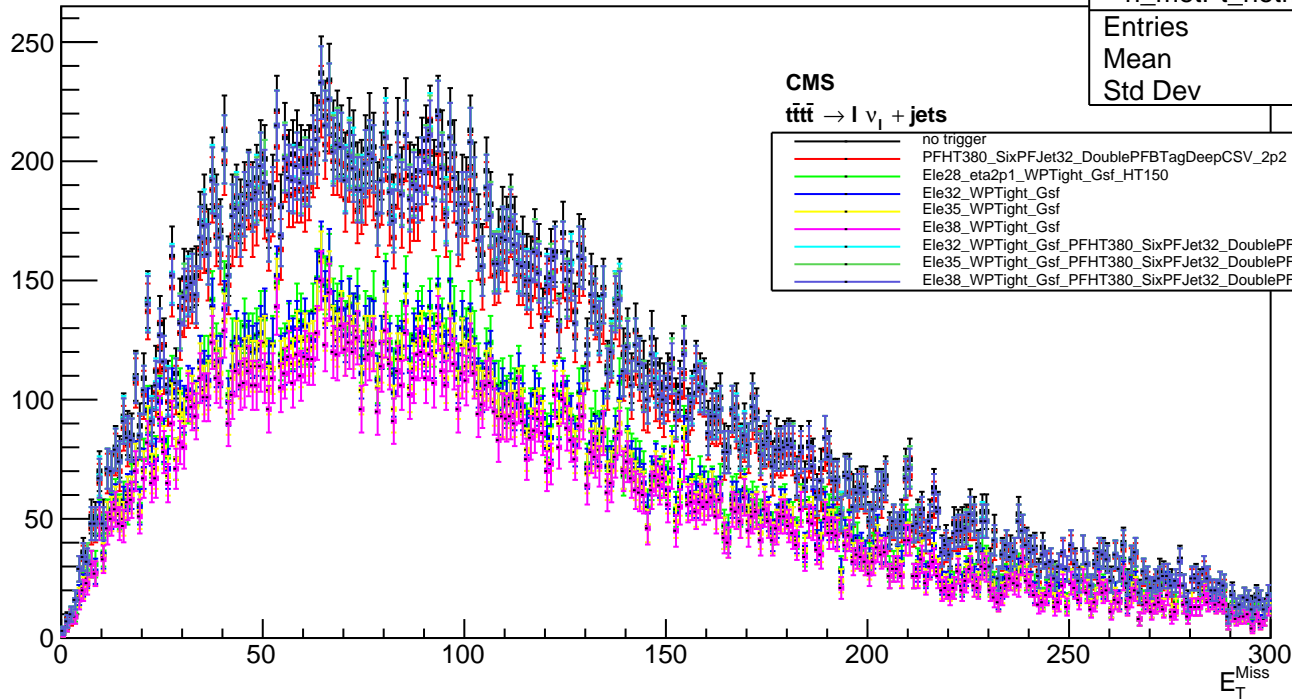
prompt muons

bottom parent

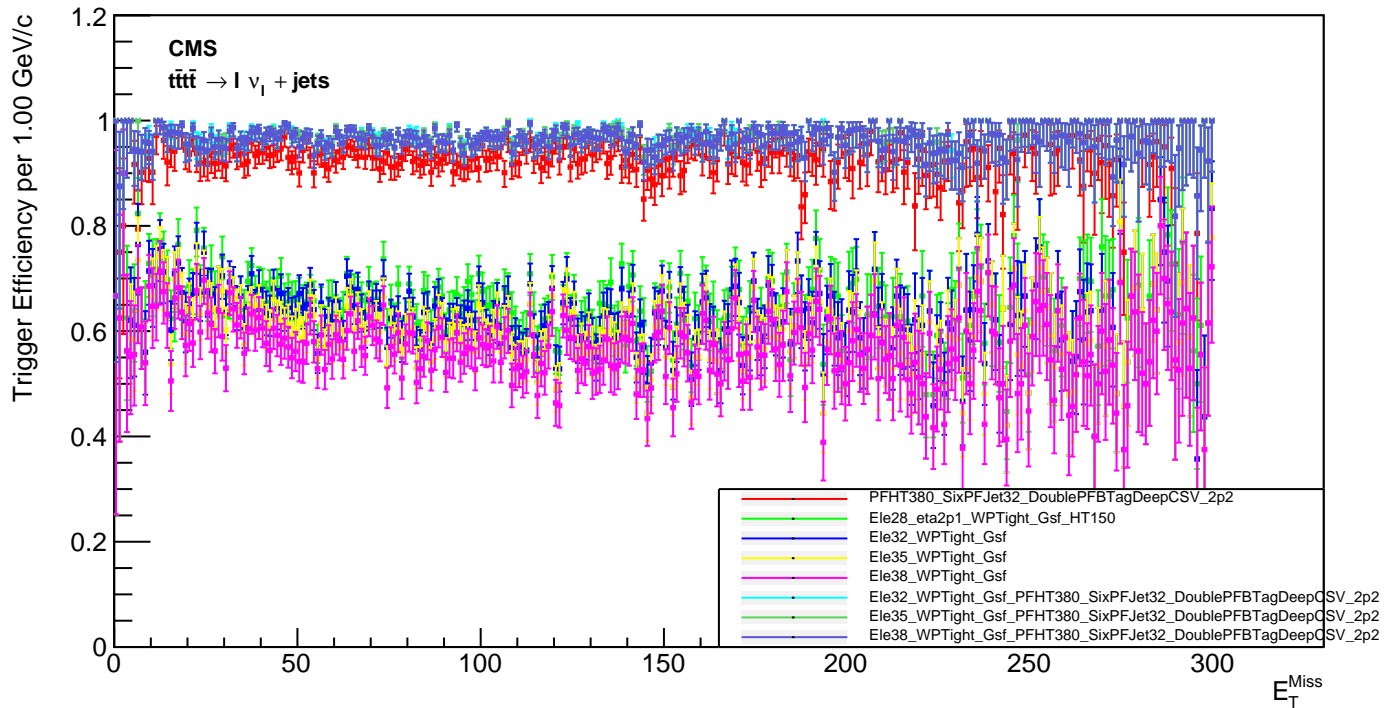




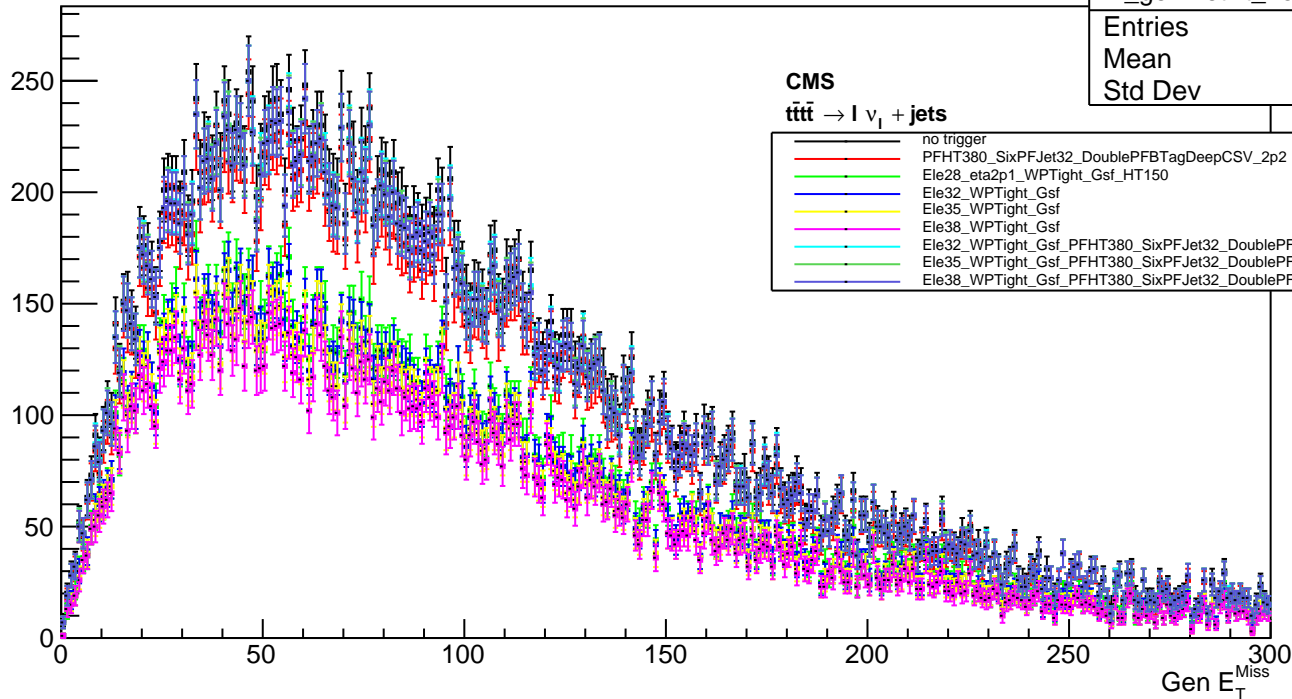
Number of Events per 1 GeV/c



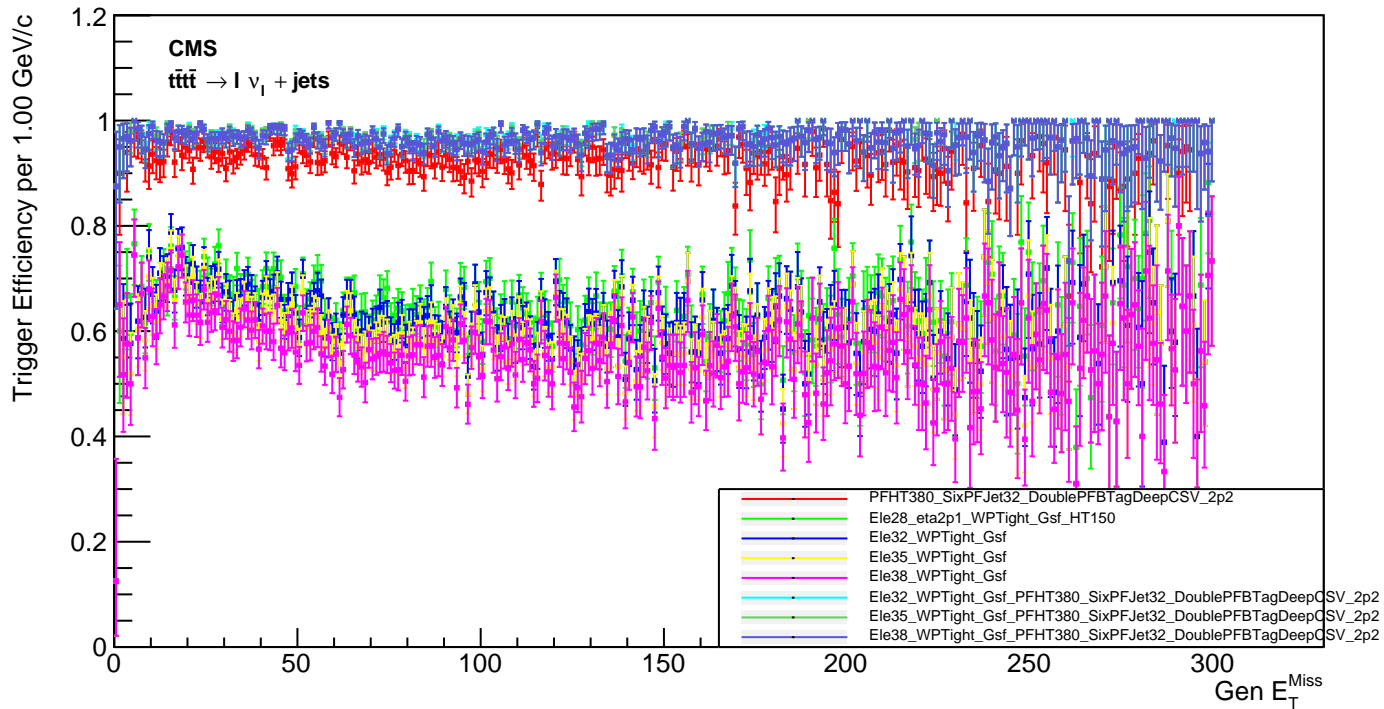
h_metPt_notrigger	
Entries	32841
Mean	110
Std Dev	65.28



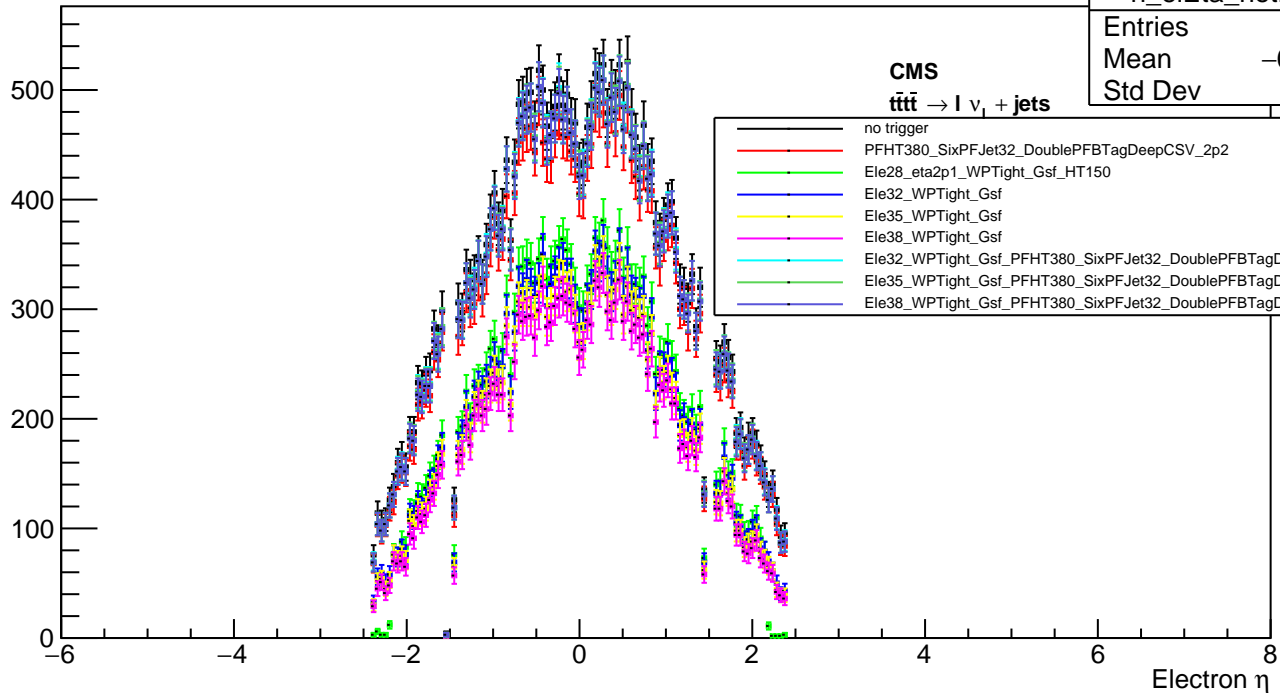
Number of Events per 1GeV/c



h_genMetPt_notrigger	
Entries	32841
Mean	99.92
Std Dev	65.45



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



CMS

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

h_elEta_notrigger

Entries 32841

Mean -0.00428

Std Dev 1.103

Trigger Efficiency per 0.046666666666667 GeV/c

