

On-line (pre-)selection Requisites for:

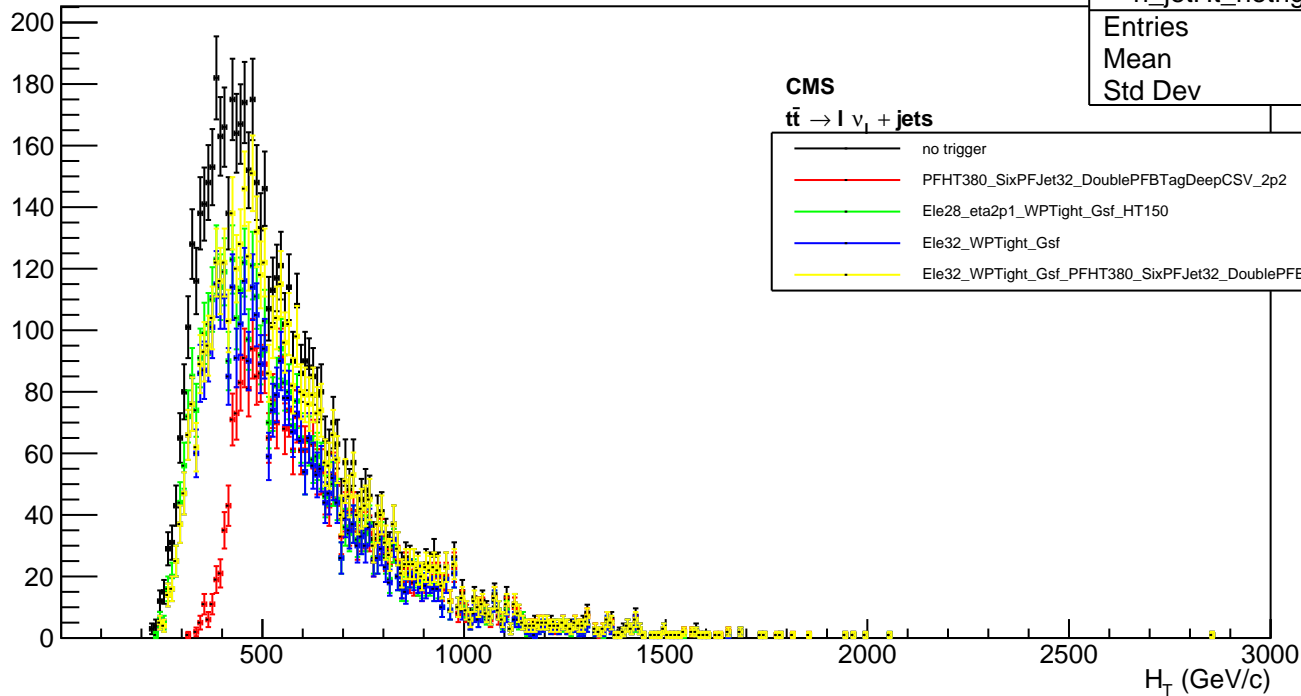
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

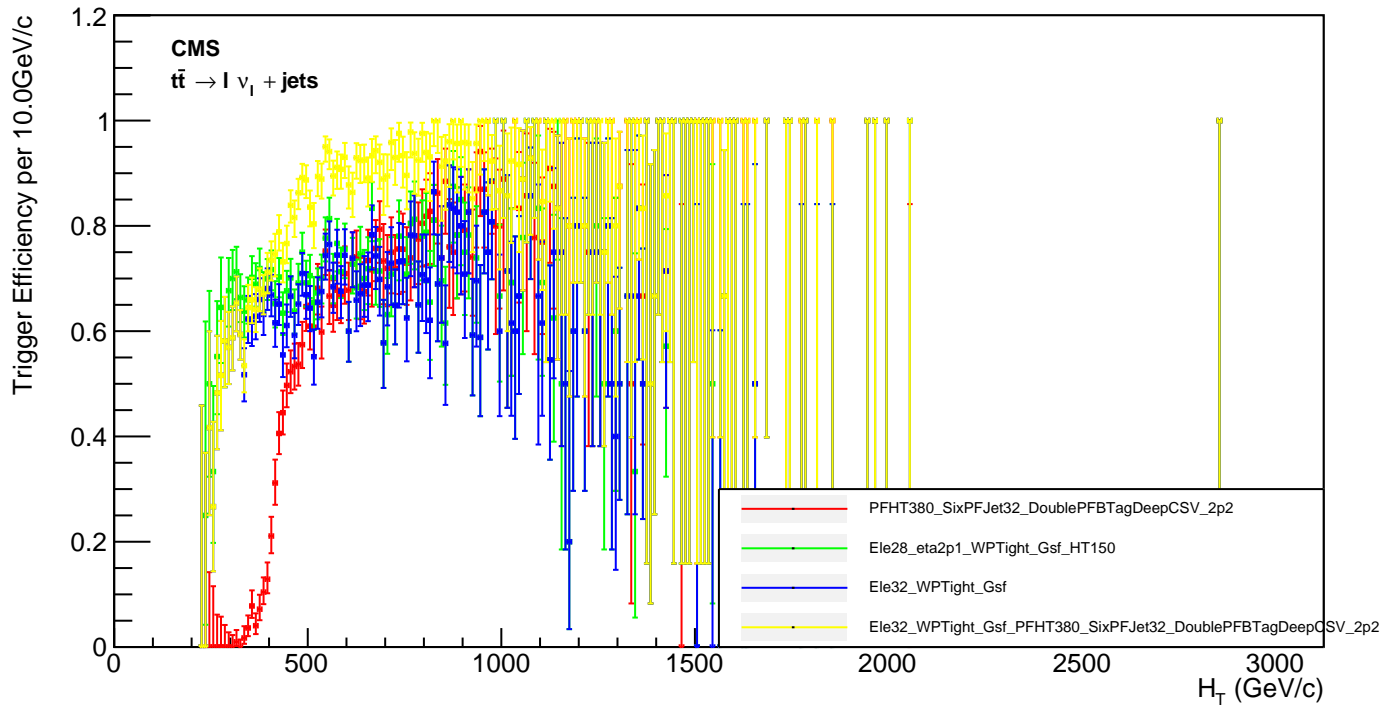
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

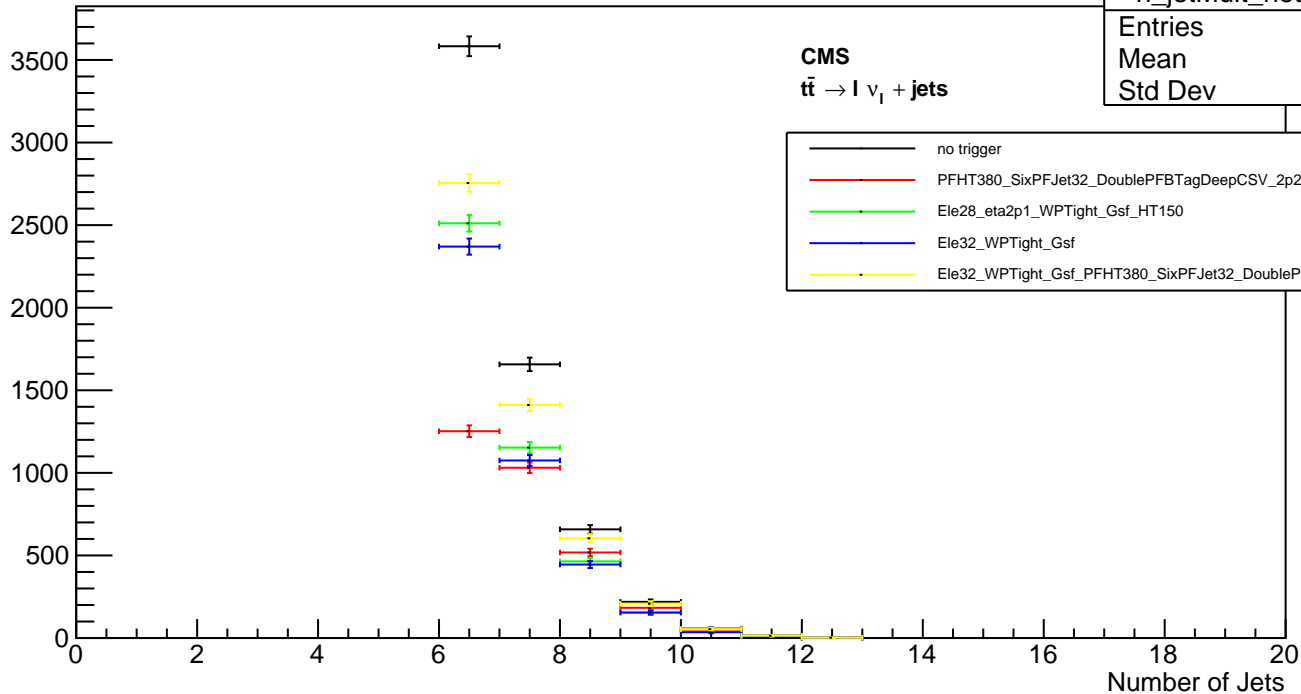
- **Jets:** $\text{jetId} > 2$, $p_T > 30$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Electrons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.10$ (for at least 1)

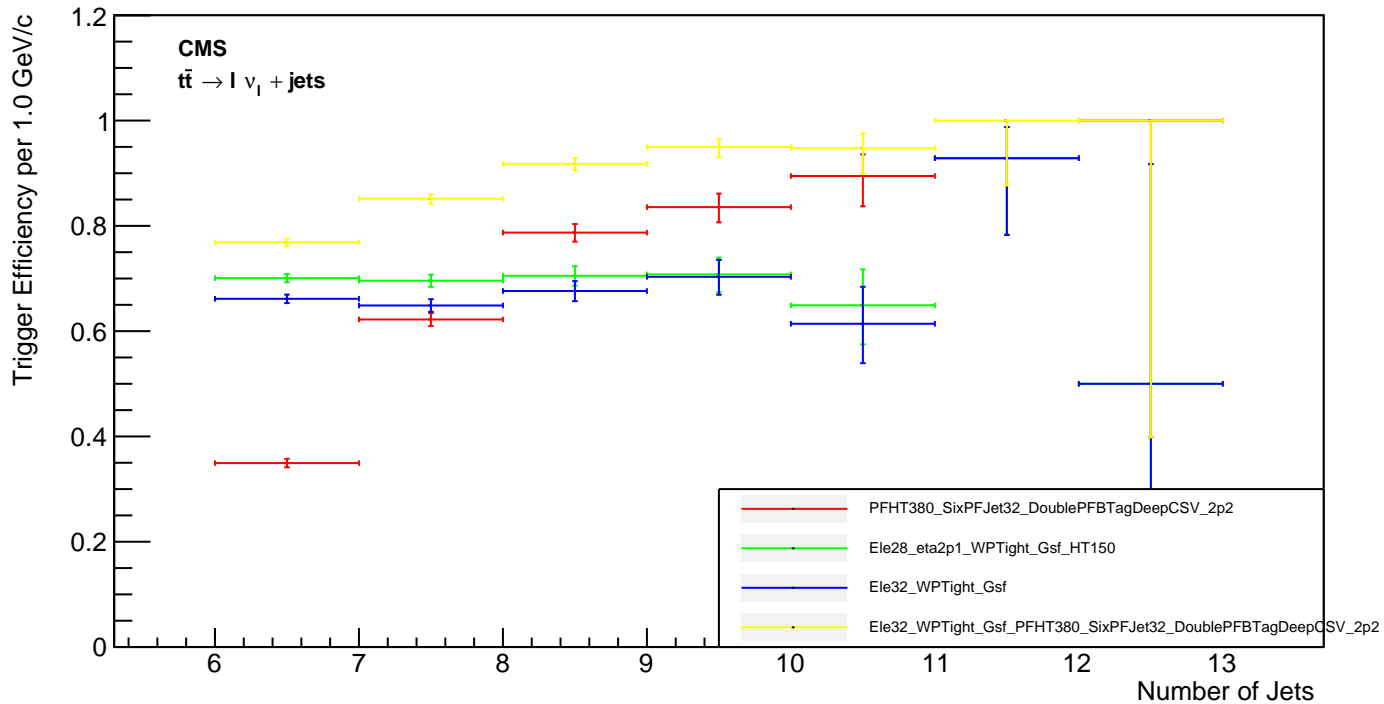
Number of Events per 10 GeV/c



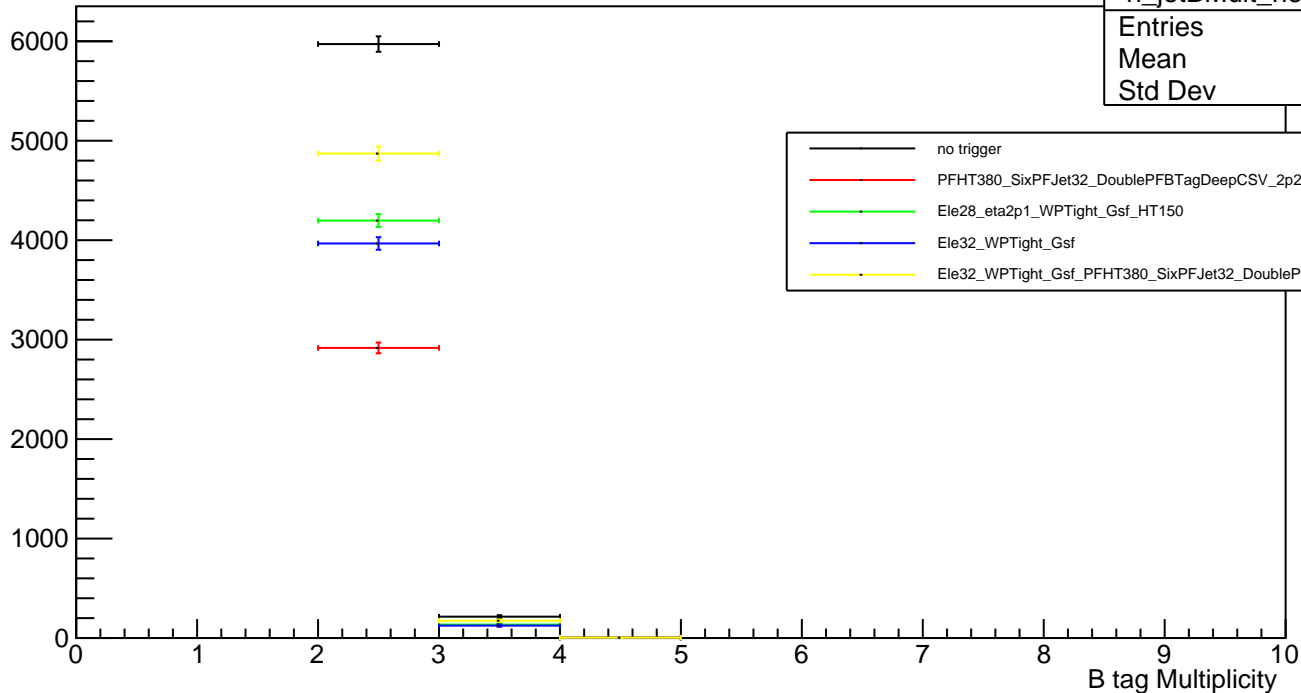


Number of Events per Number of Jets

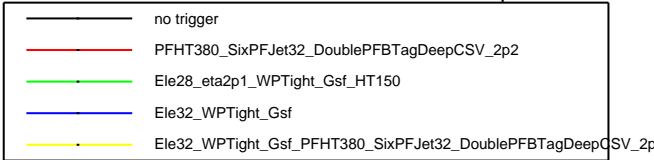


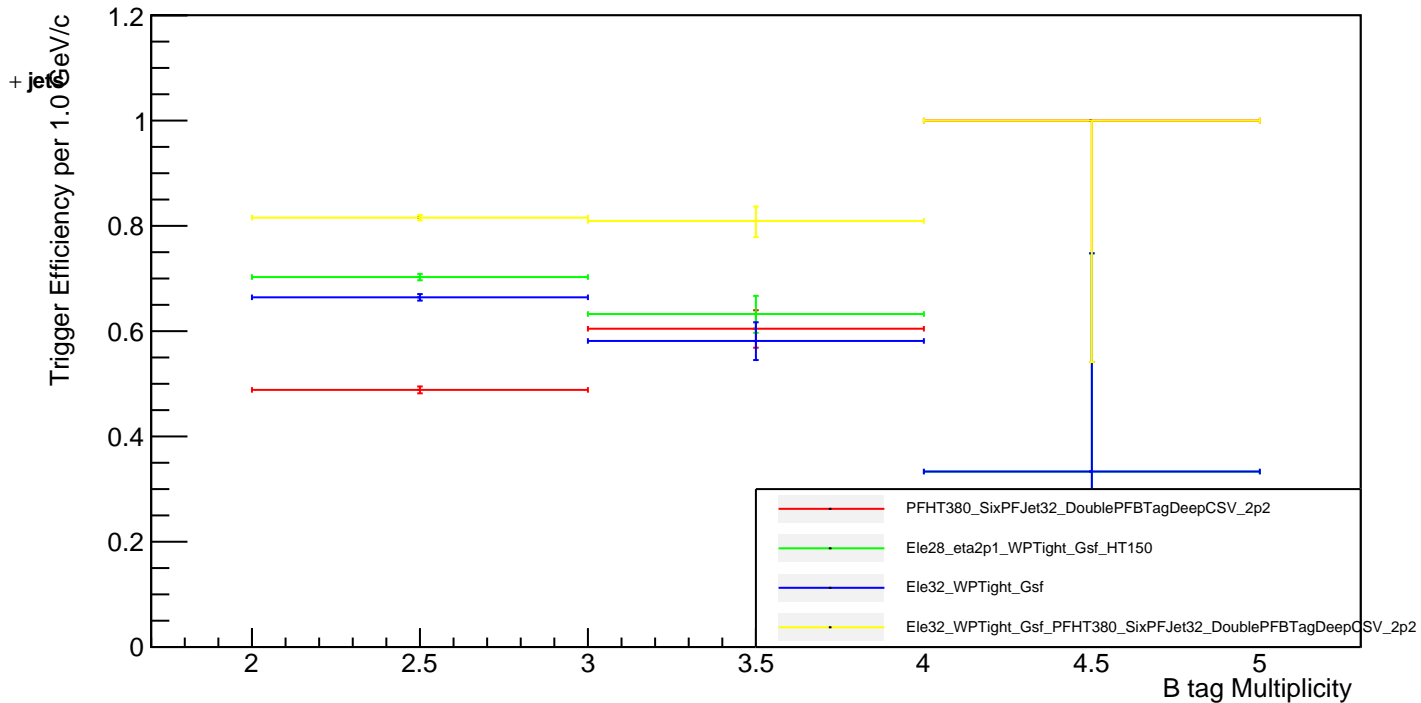


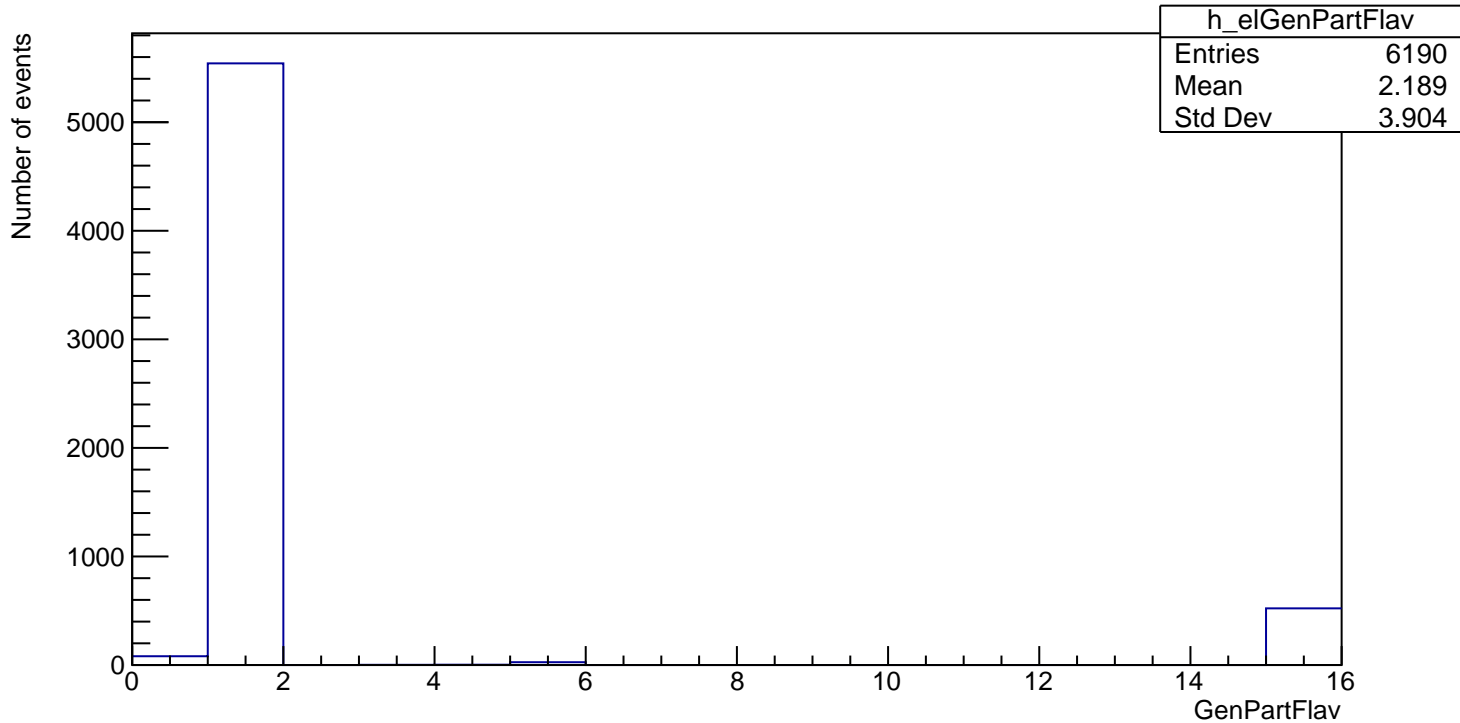
Number of Events per Number of Jets

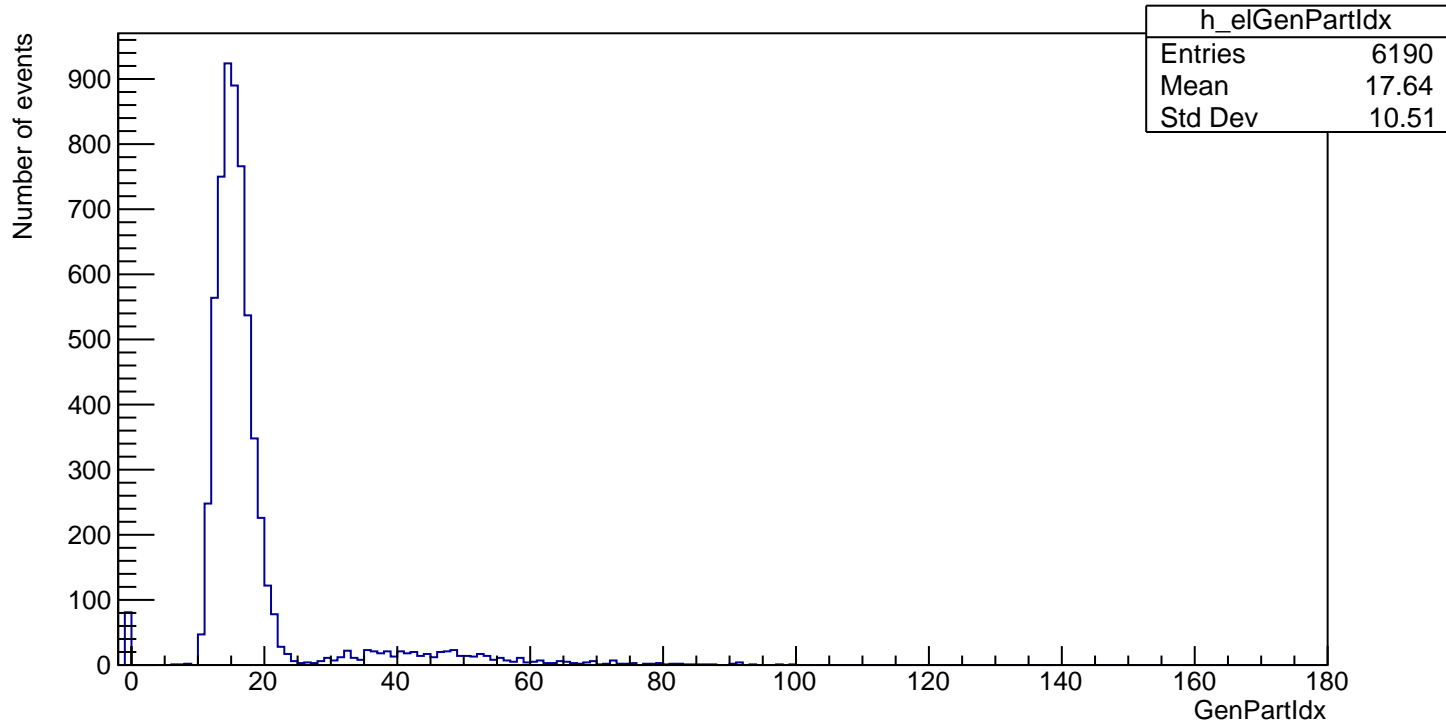


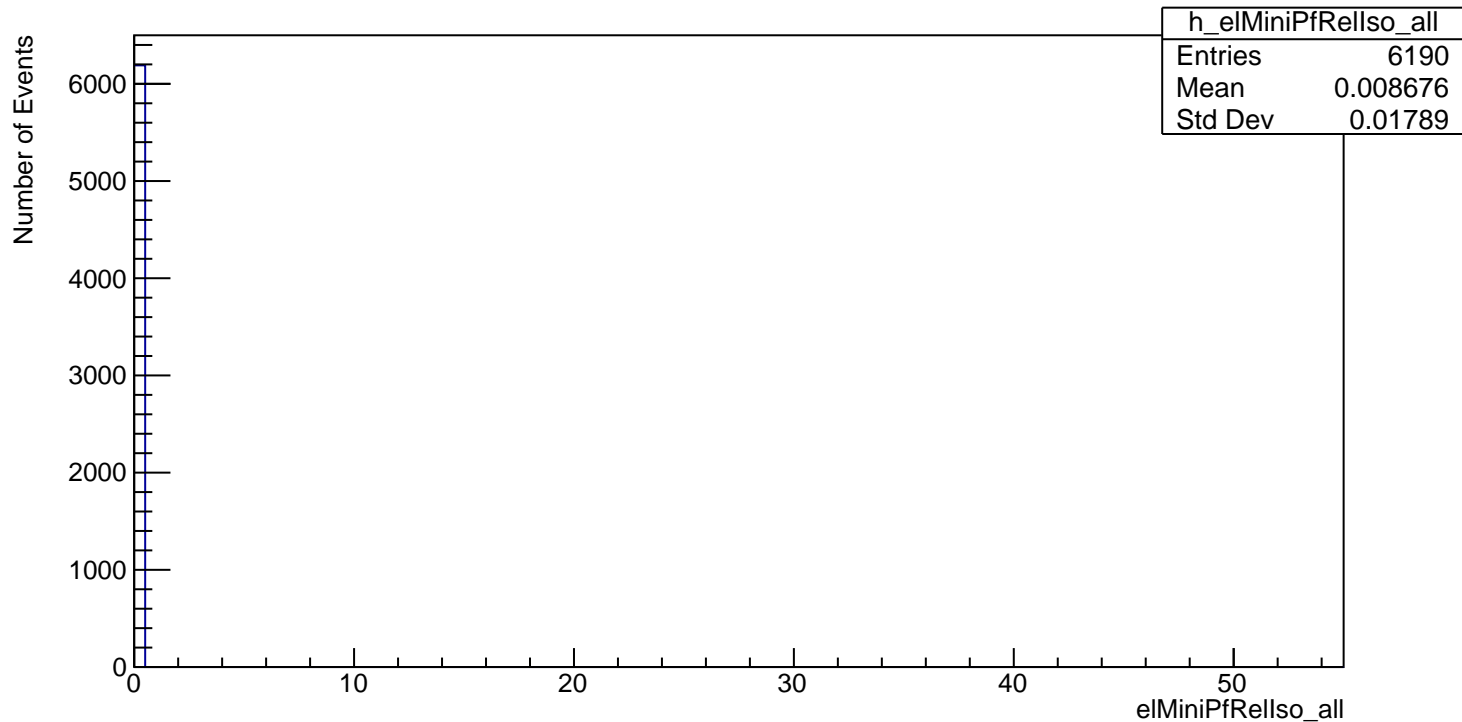
h_jetBMult_notrigger	
Entries	6190
Mean	2.536
Std Dev	0.1881



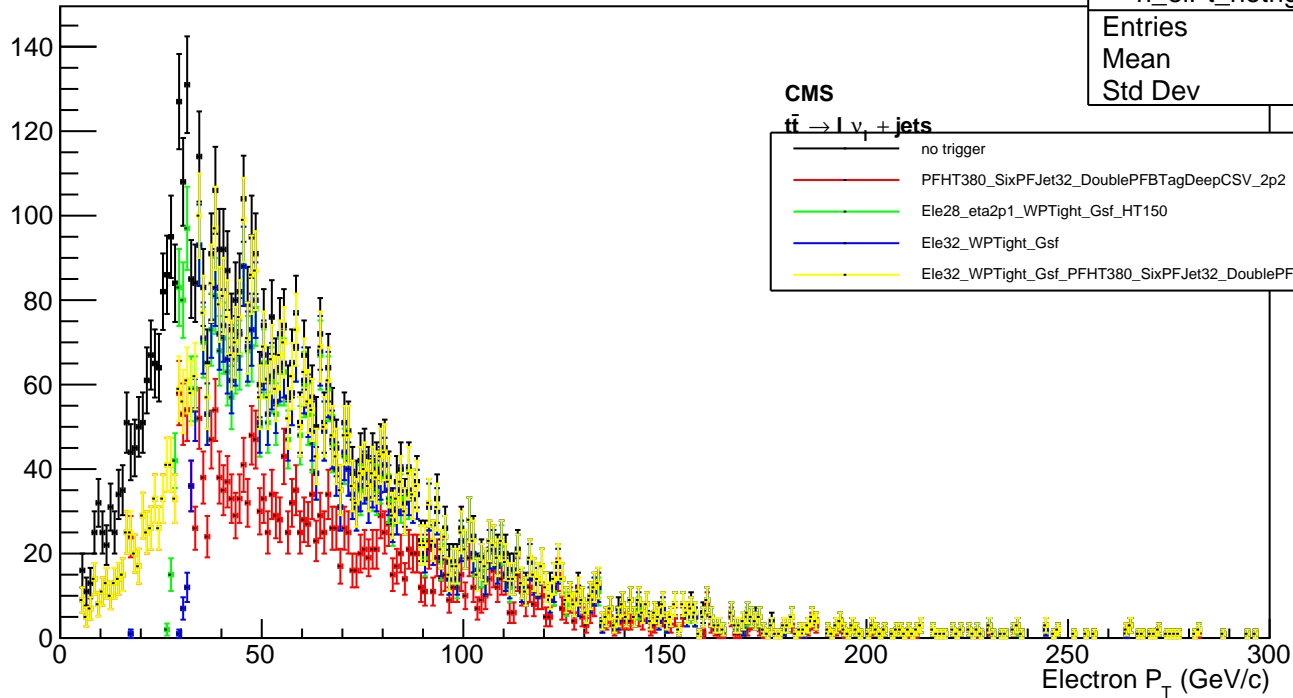








Number of Events per 1 GeV/c



Number of Events per 1 GeV/c

CMS

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

h_elPt_notrigger

Entries 6190

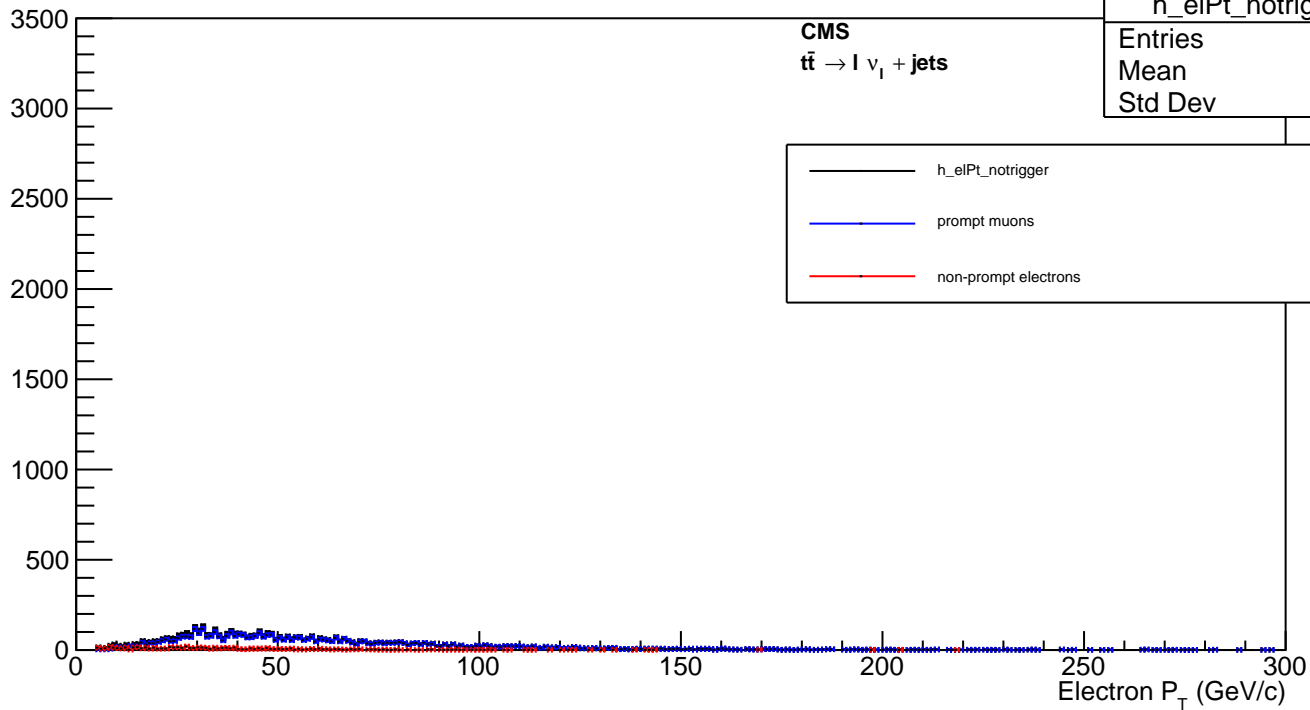
Mean 61.28

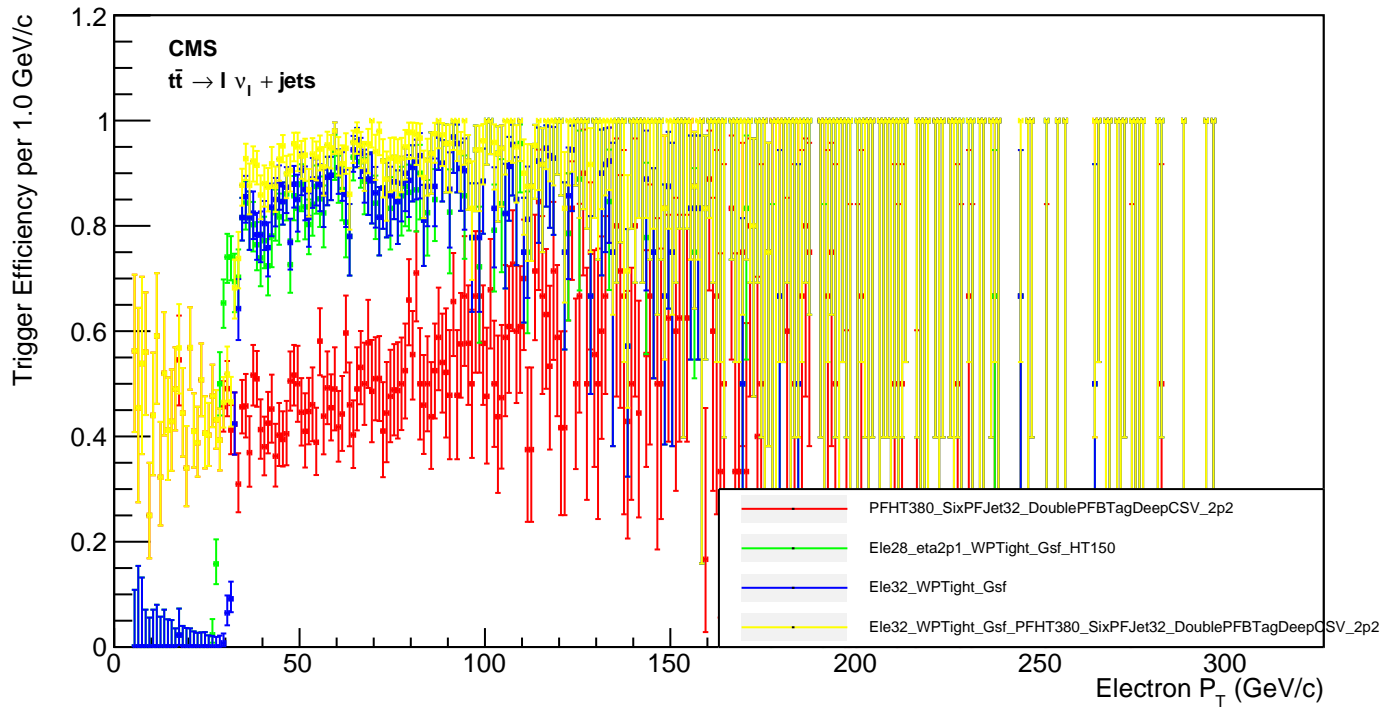
Std Dev 40.87

h_elPt_notrigger

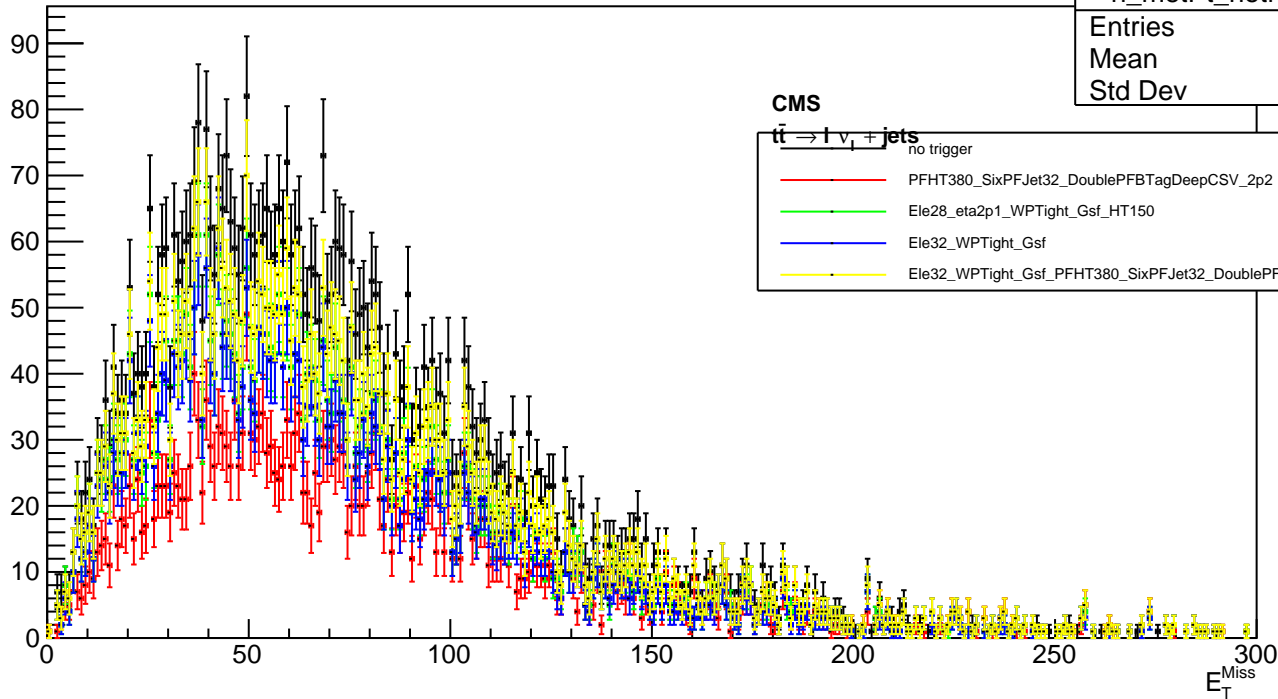
prompt muons

non-prompt electrons





Number of Events per 1 GeV/c

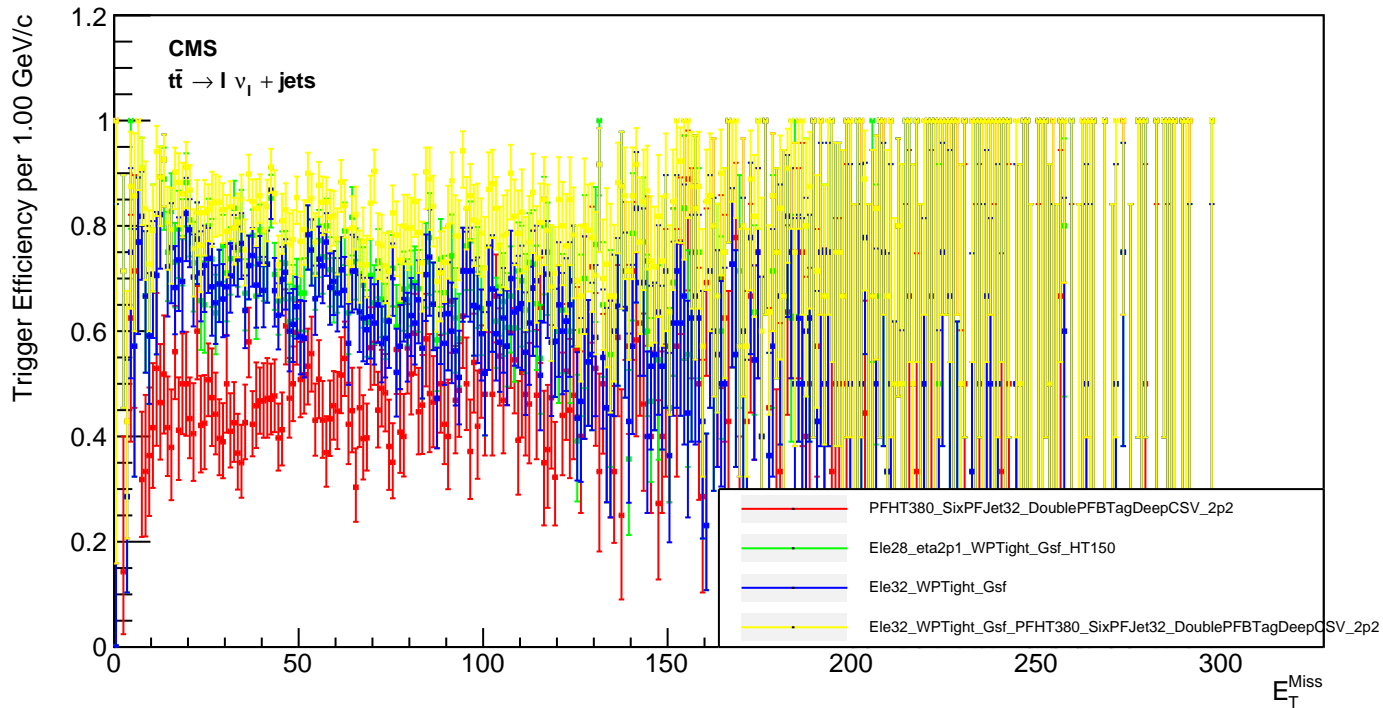


h_metPt_notrigger

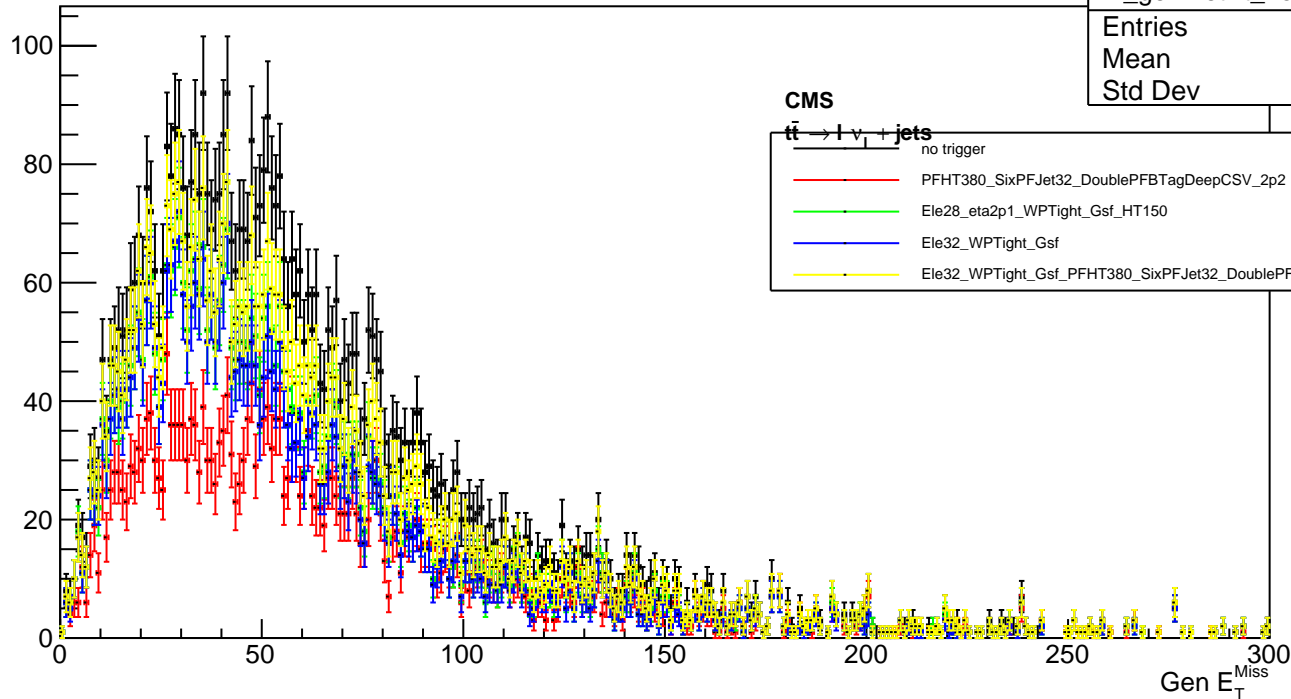
Entries 6190

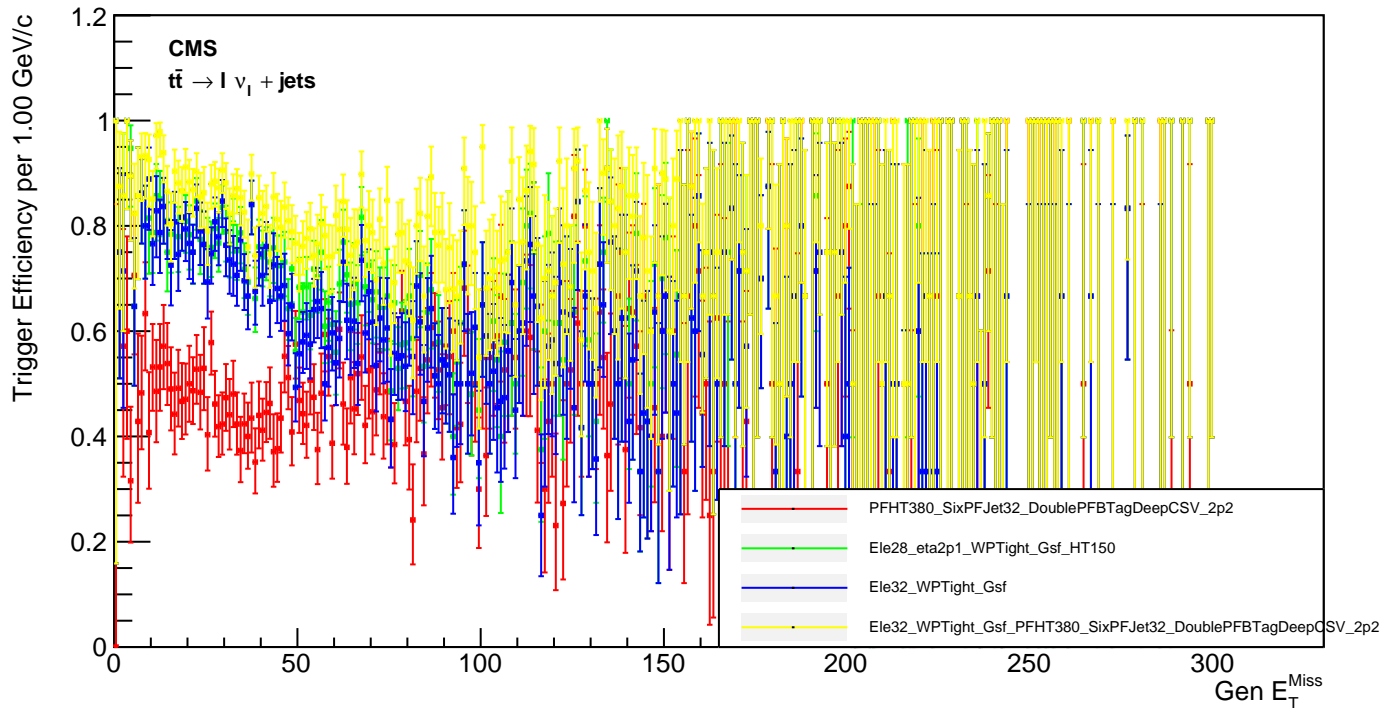
Mean 76.1

Std Dev 48.81

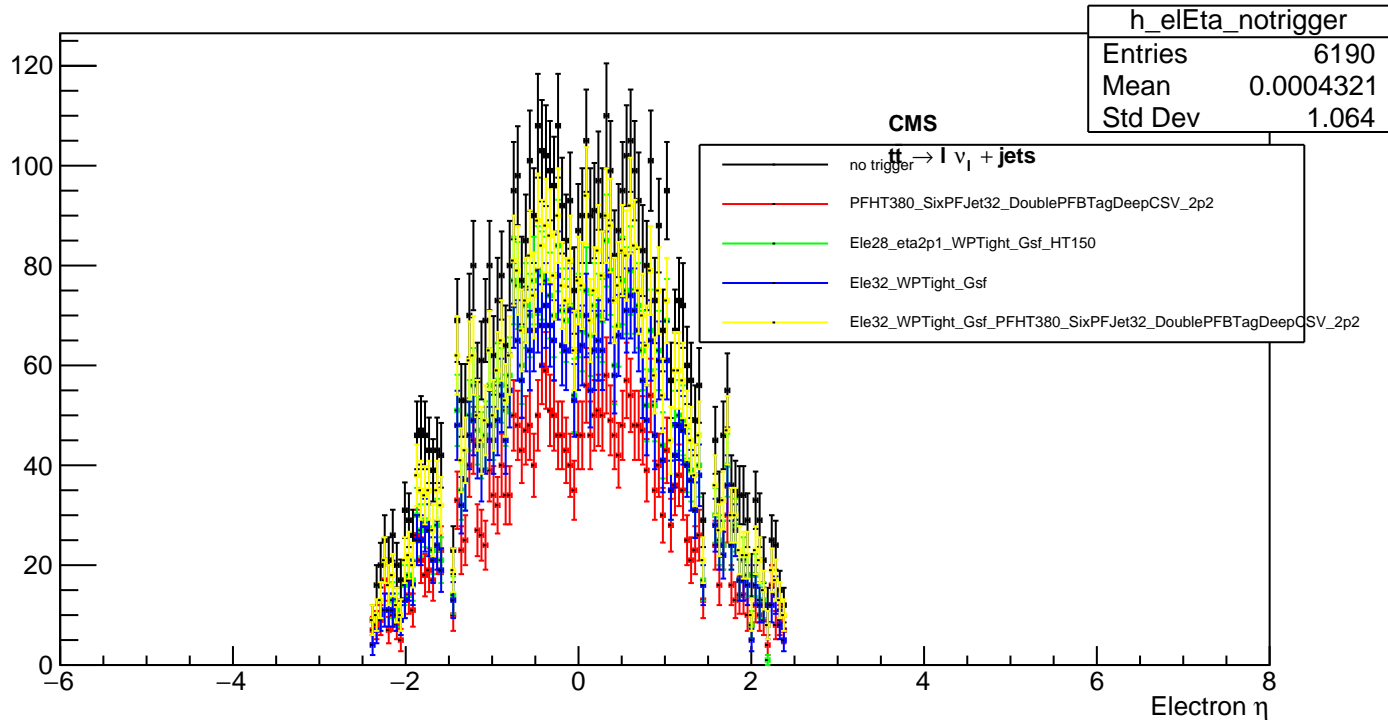


Number of Events per 1GeV/c

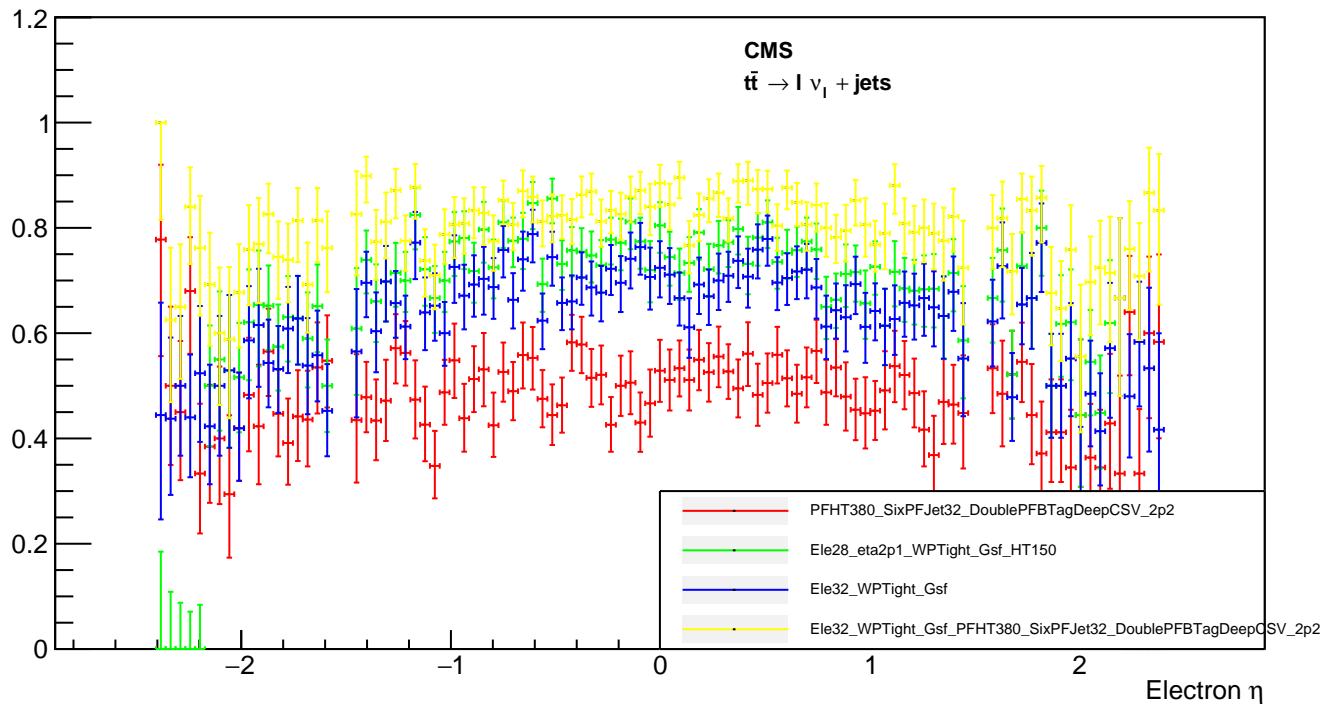




Number of Events per $\delta\eta = 0.046$



Trigger Efficiency per 0.04666666666667 GeV/c



Total Number of Accepted Events

$\times 10^3$
2000
1800
1600
1400
1200
1000
800
600
400
200
0

Pre-selection

Post-selection

Ele32_WPTight_Gsf_PFHT380_SixPFJet32_DoublePFBTagDeepC

Ele32_WPTight_Gsf

Ele28_eta2p1_WPTight_Gsf_HT150

PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

Cuts and Triggers

h_eventsPrg

Entries	2030016
Mean	0.02897
Std Dev	0.3052