

On-line (pre-)selection Requisites for:

- **Jets:** number > 5
- **Muons:** number > 0 and has softId

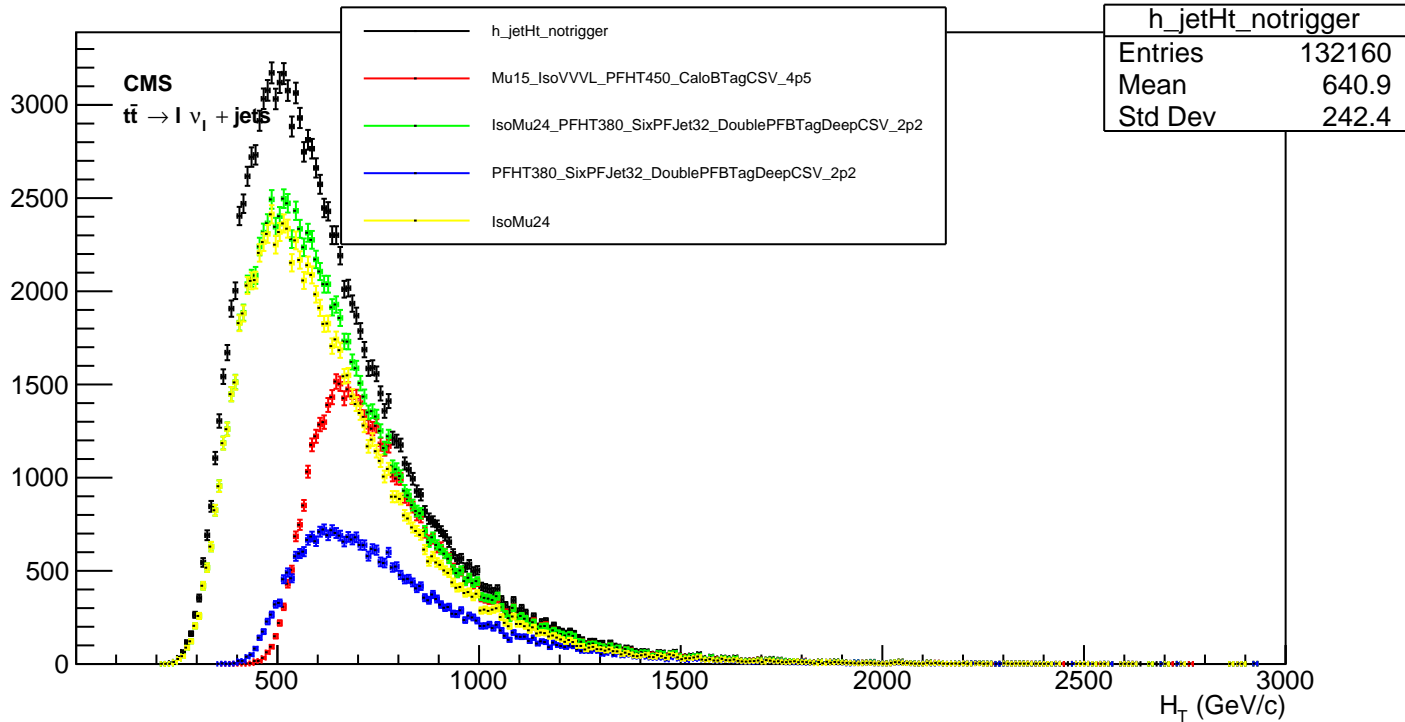
Event Limit: None (see last page)

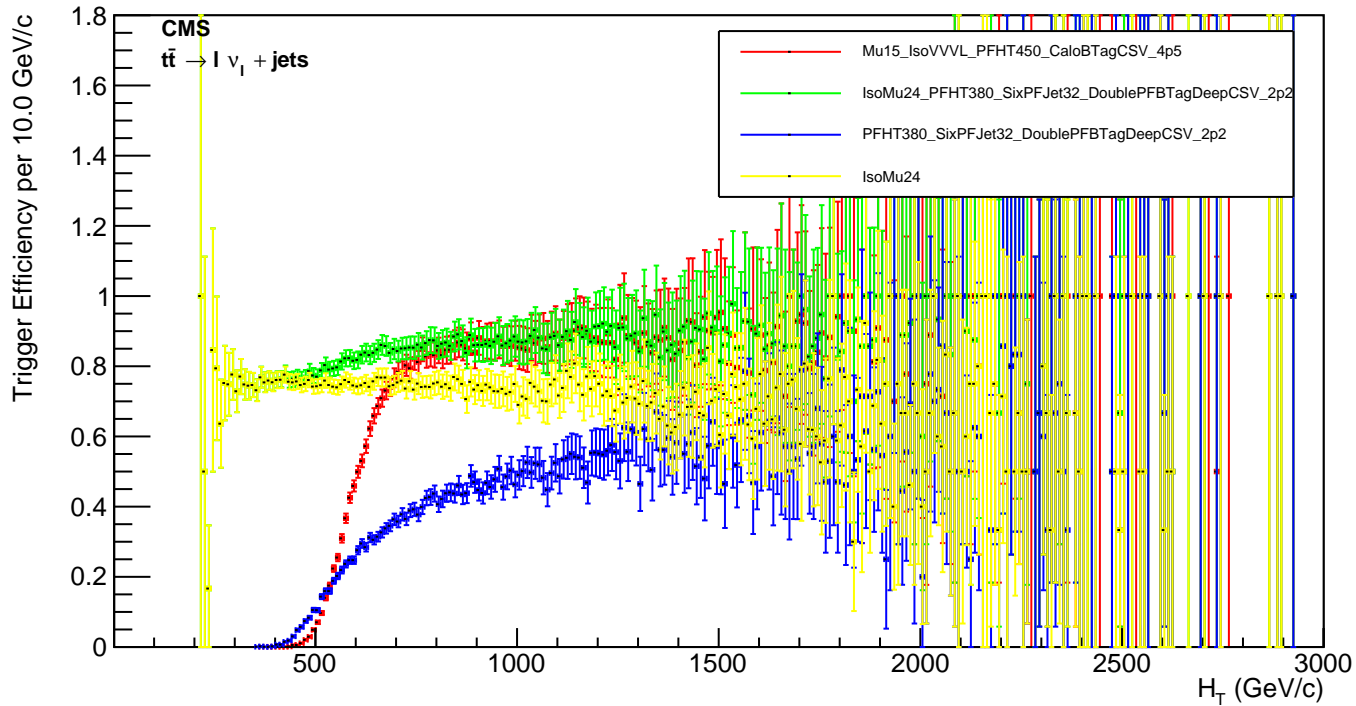
Off-line (post-)selection Requisites for:

- **Jets:** jetId > 2 , $p_T > 30$ and $|\eta| < 2.4$ (for at least 6)
btagDeepFlavB > 0.7489 (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and miniPFRellso_all < 0.15 (for at least 1)

Number of Events per 10 GeV/c

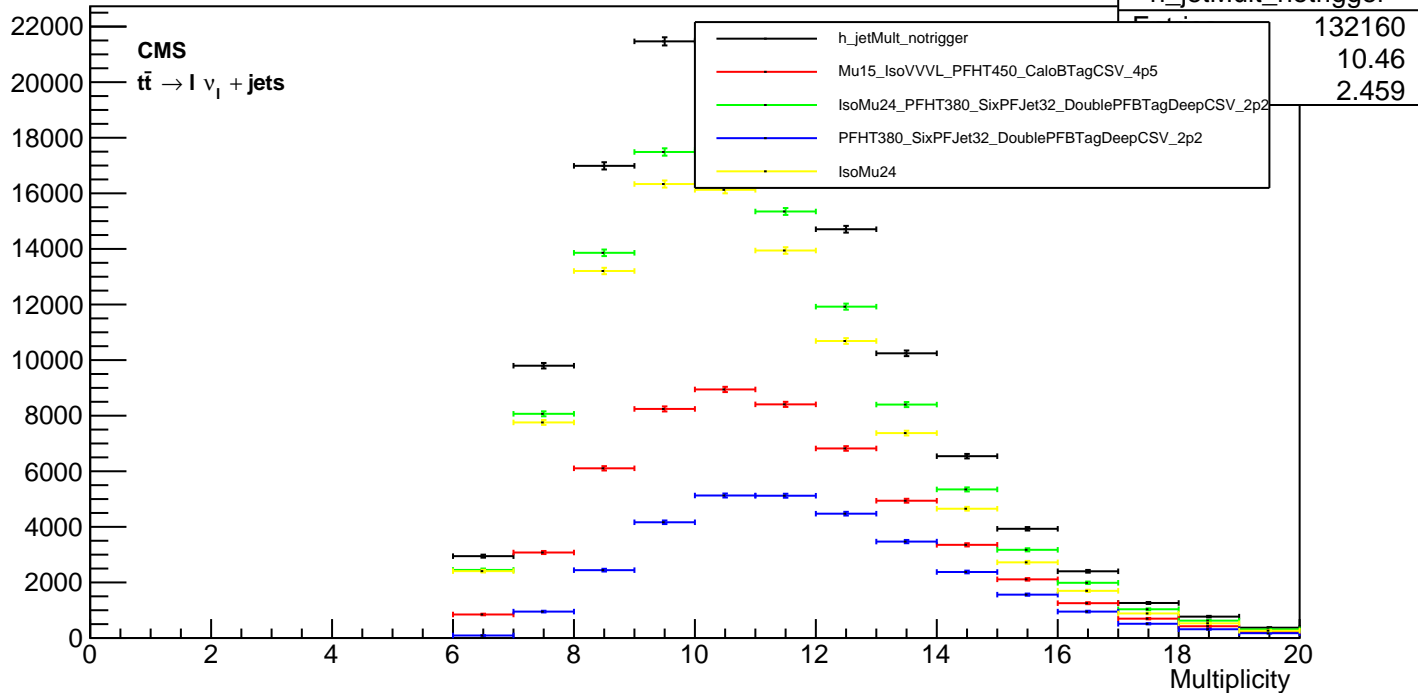
CMS
 $t\bar{t} \rightarrow l \nu_l + \text{jets}$

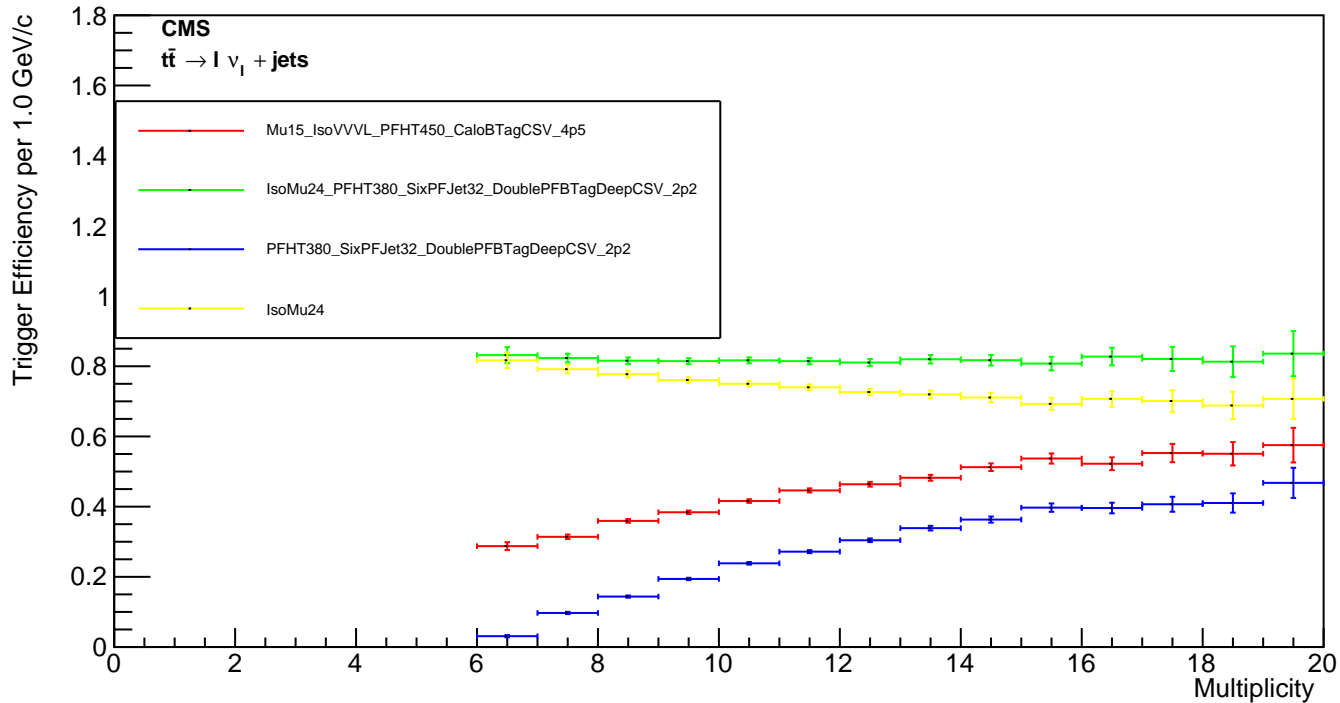


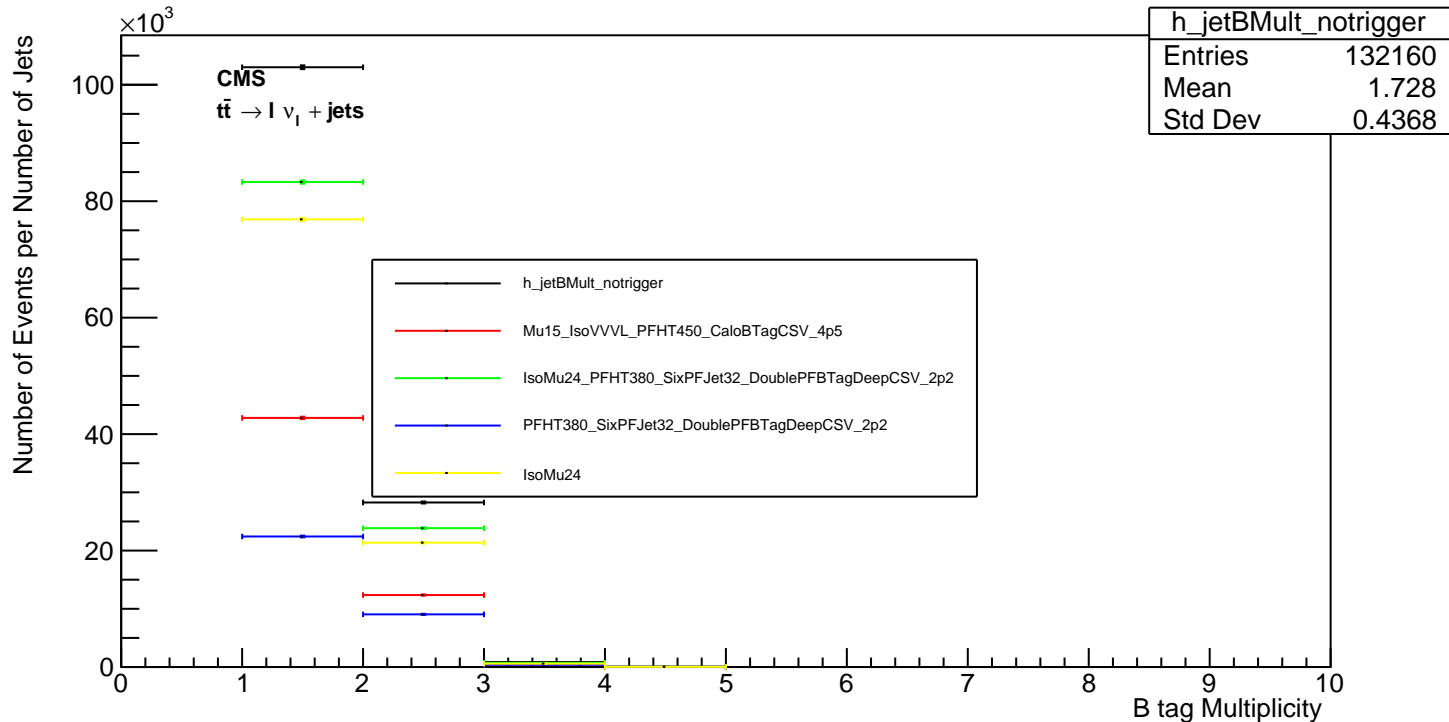


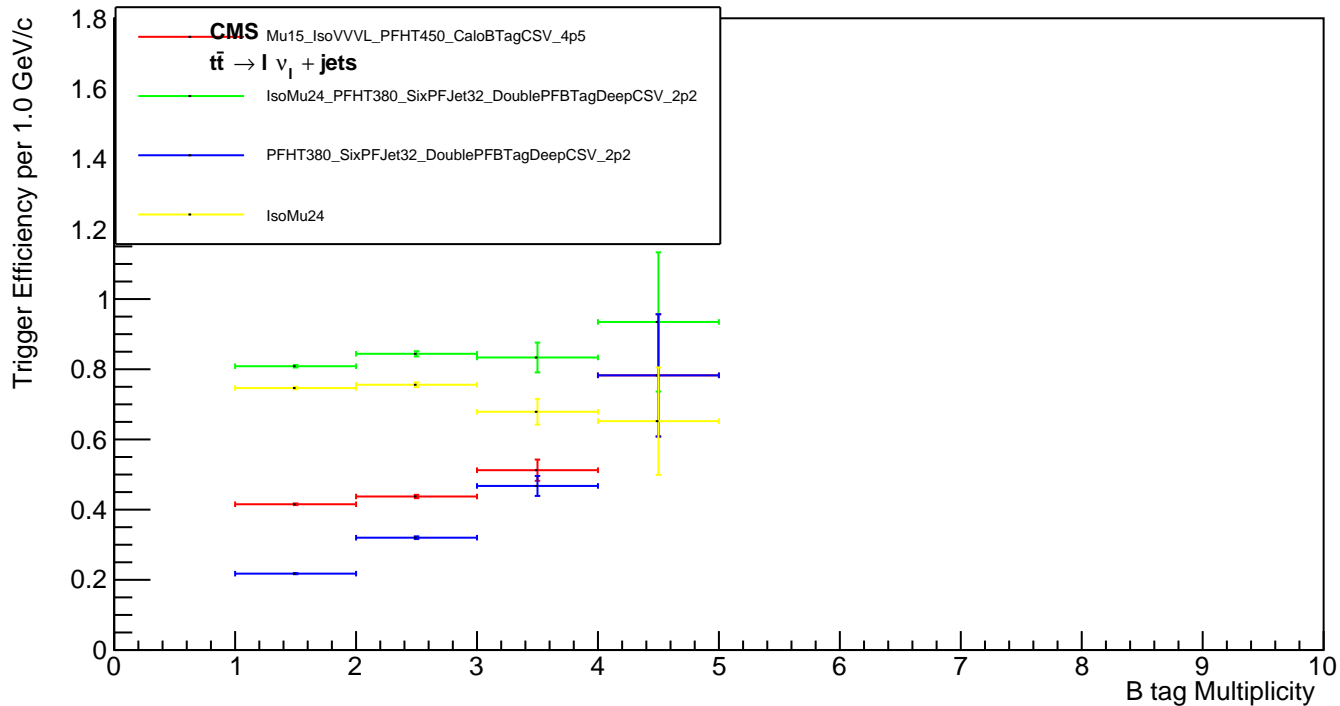
Number of Events per Number of Jets

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

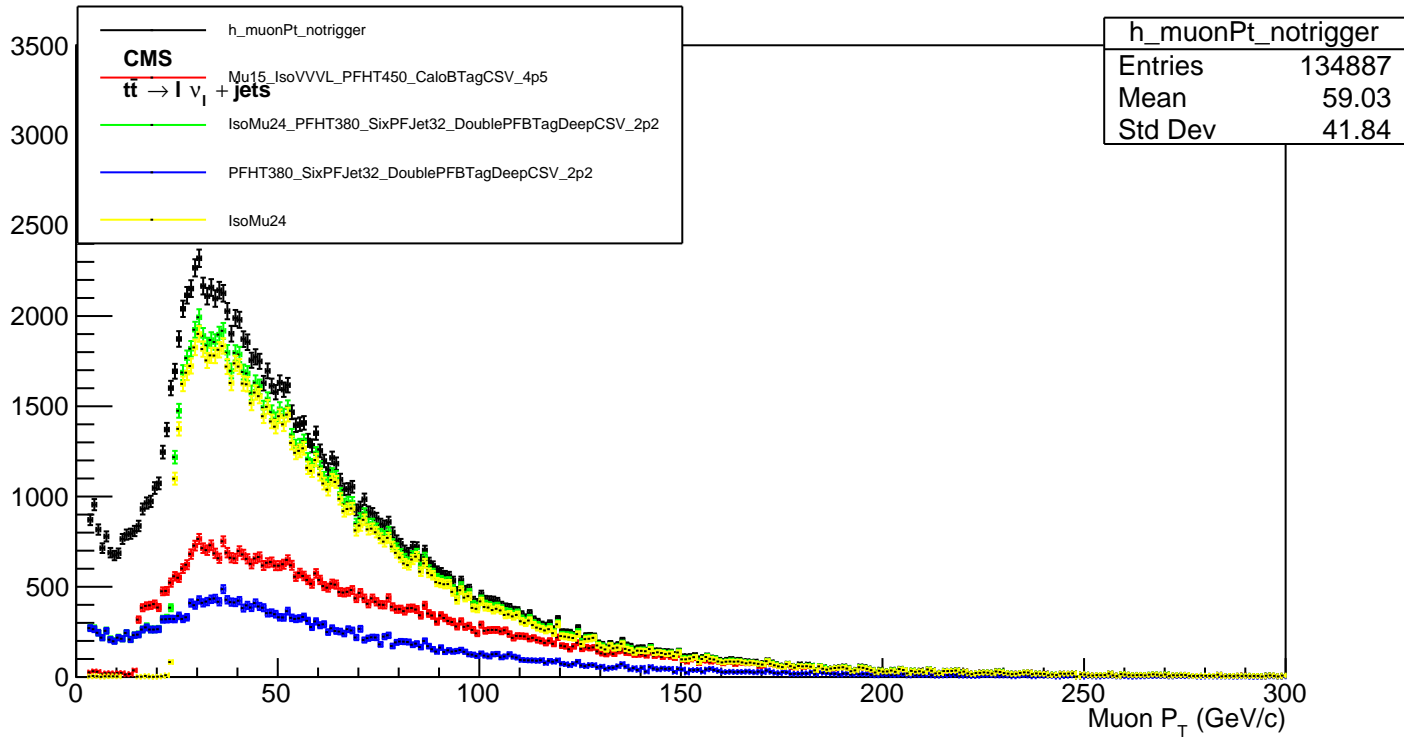


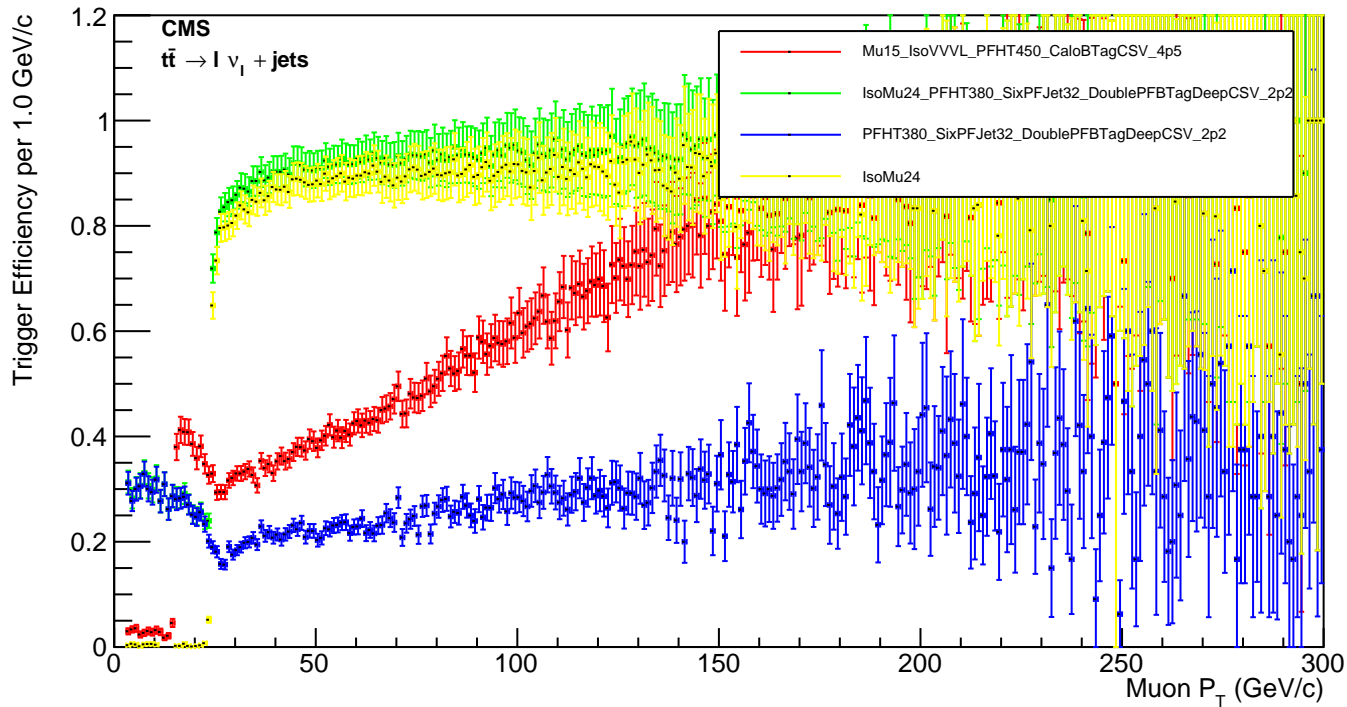






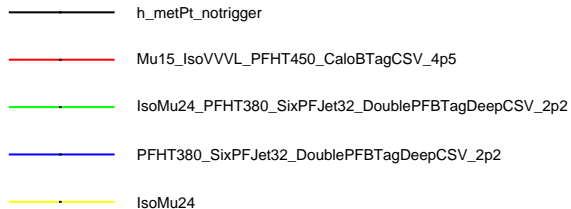
Number of Events per 1 GeV/c



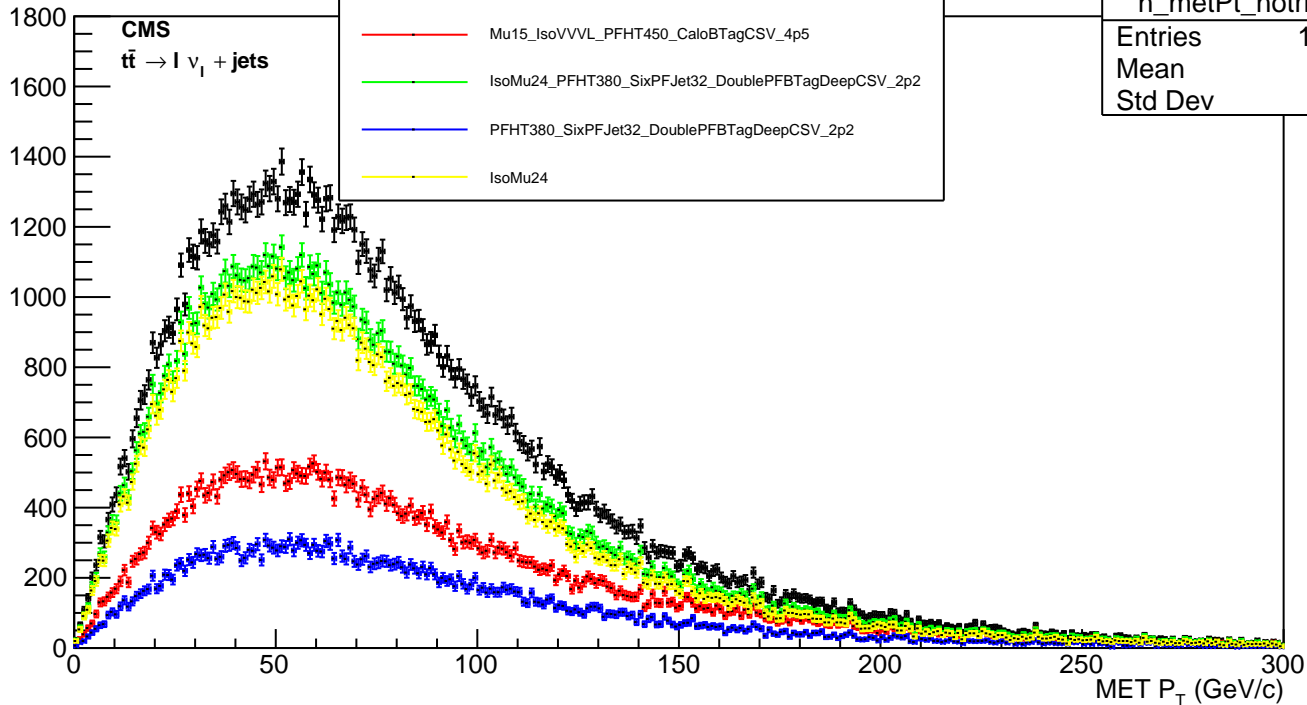


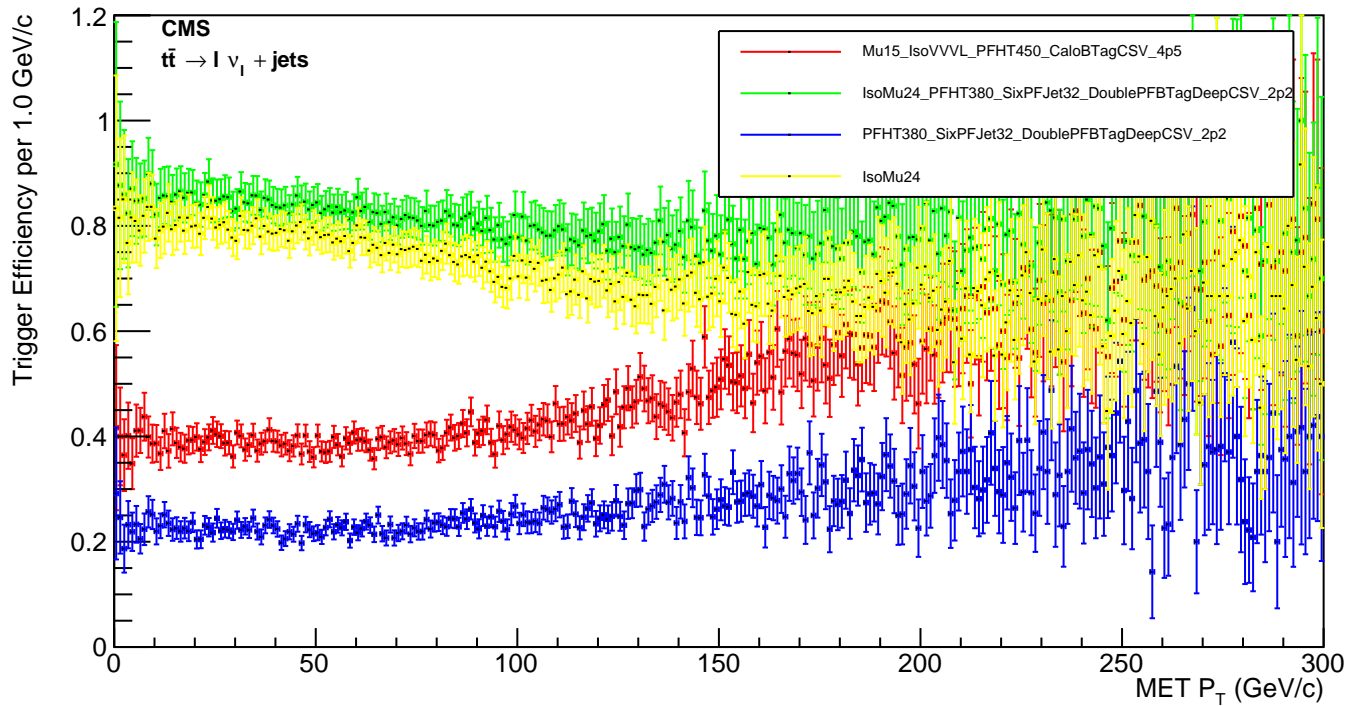
Number of Events per 1 GeV/c

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

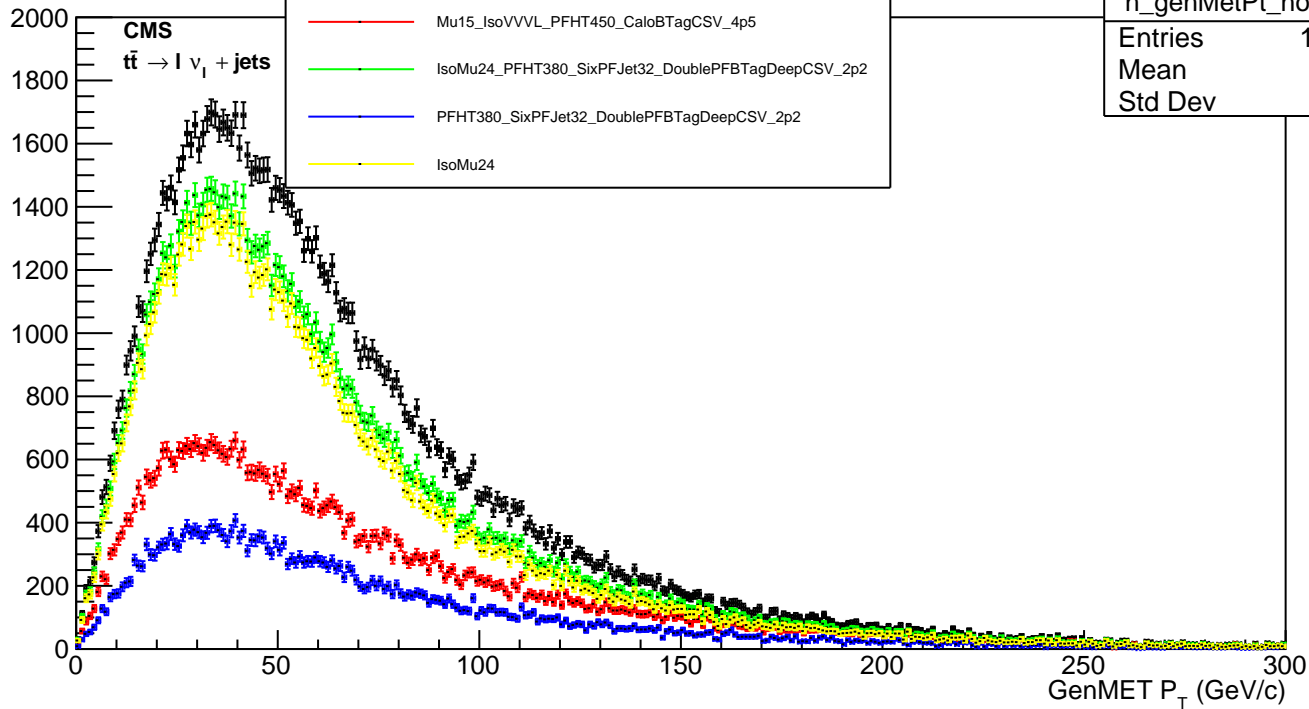


h_metPt_notrigger	
Entries	132160
Mean	78.56
Std Dev	50.45

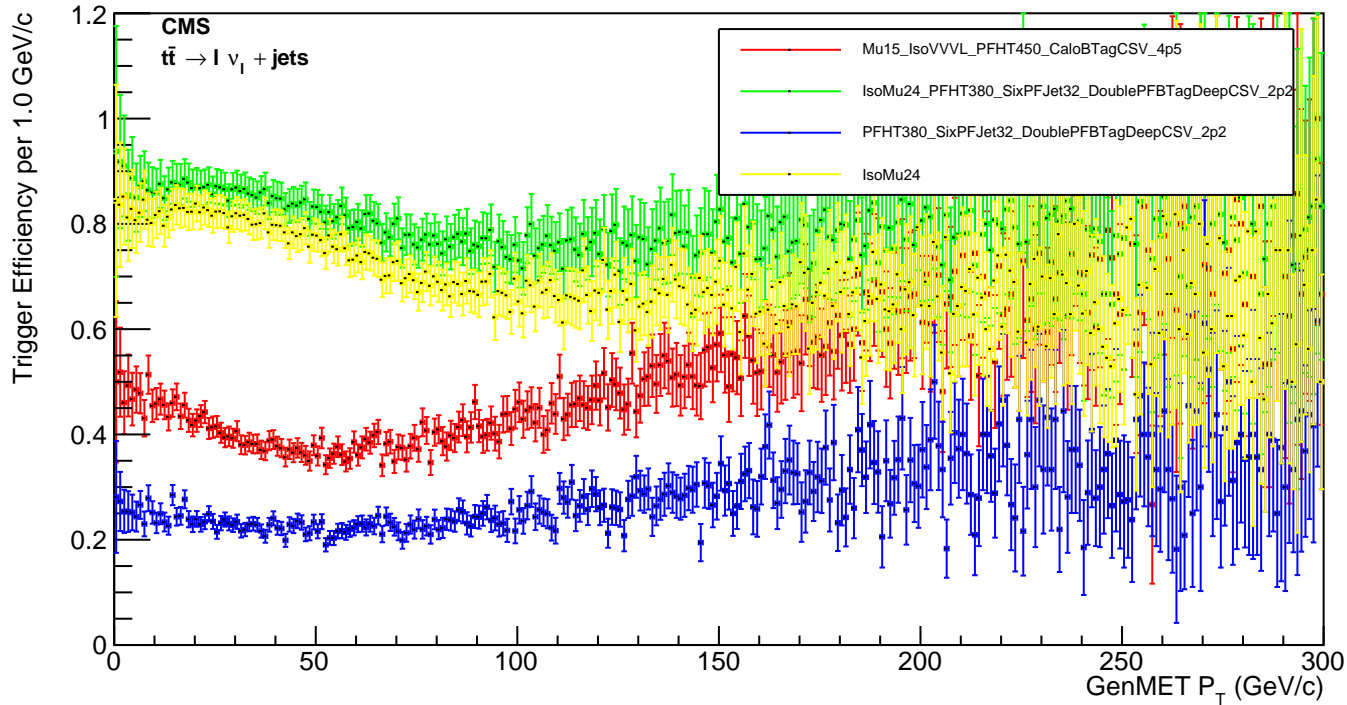




Number of Events per 1GeV/c

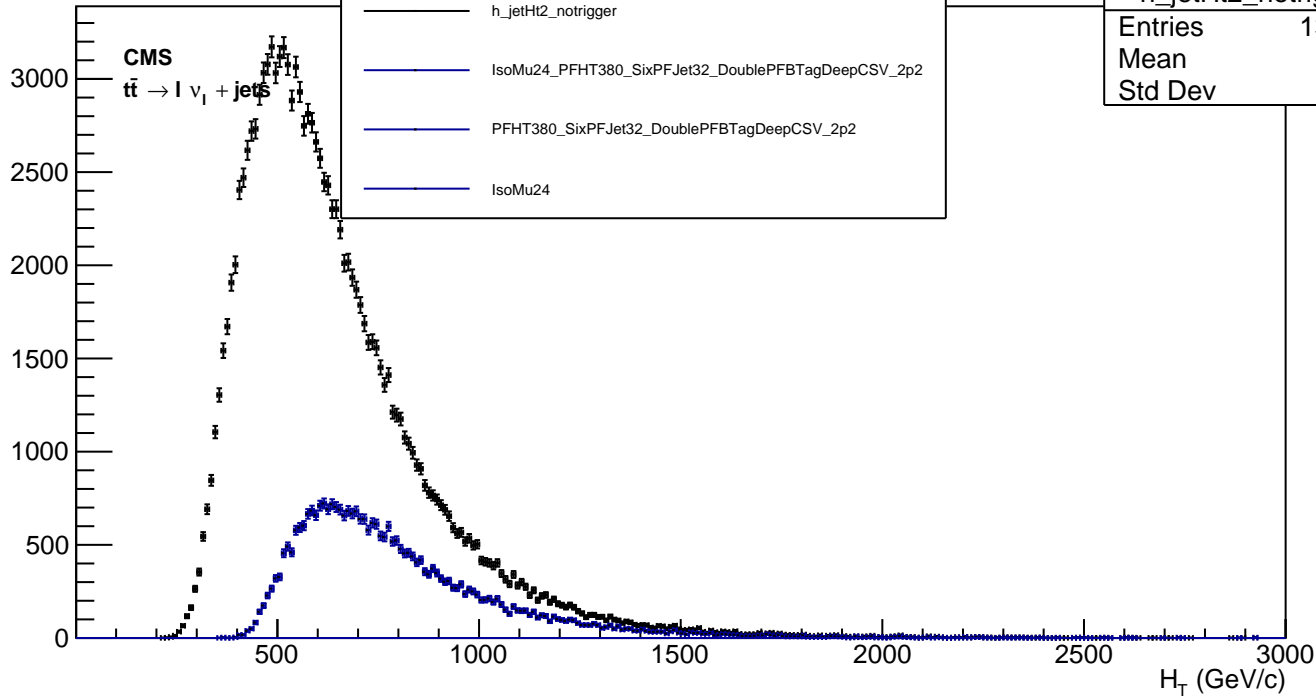


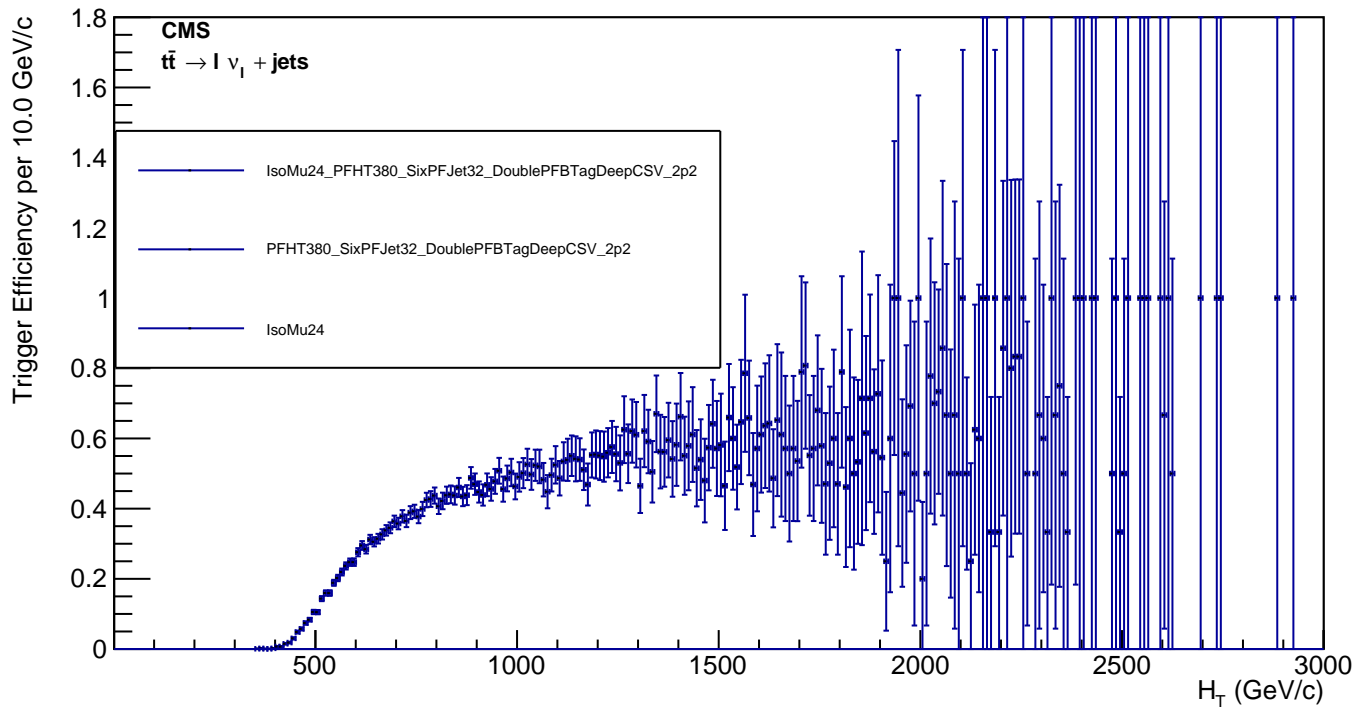
h_genMetPt_notrigger	
Entries	132160
Mean	66
Std Dev	47.76



Number of Events per 10 GeV/c

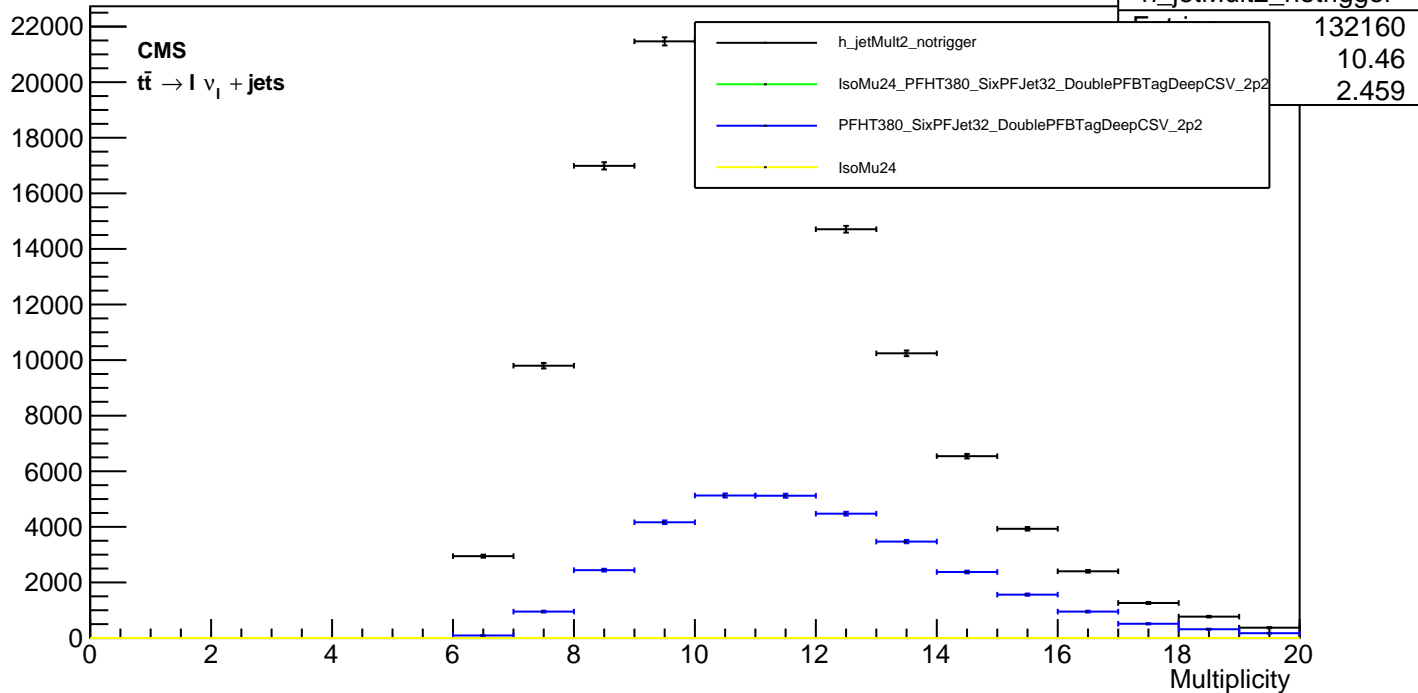
CMS
 $t\bar{t} \rightarrow l \nu_l + \text{jets}$

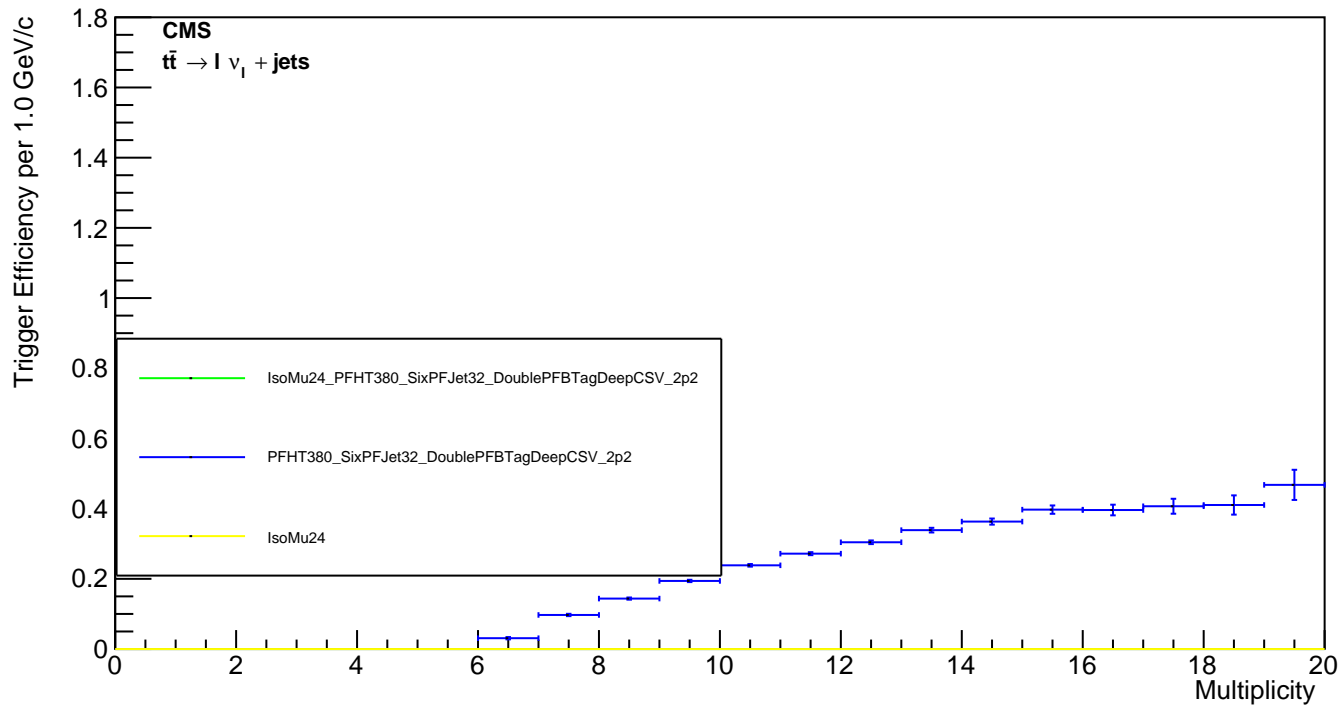


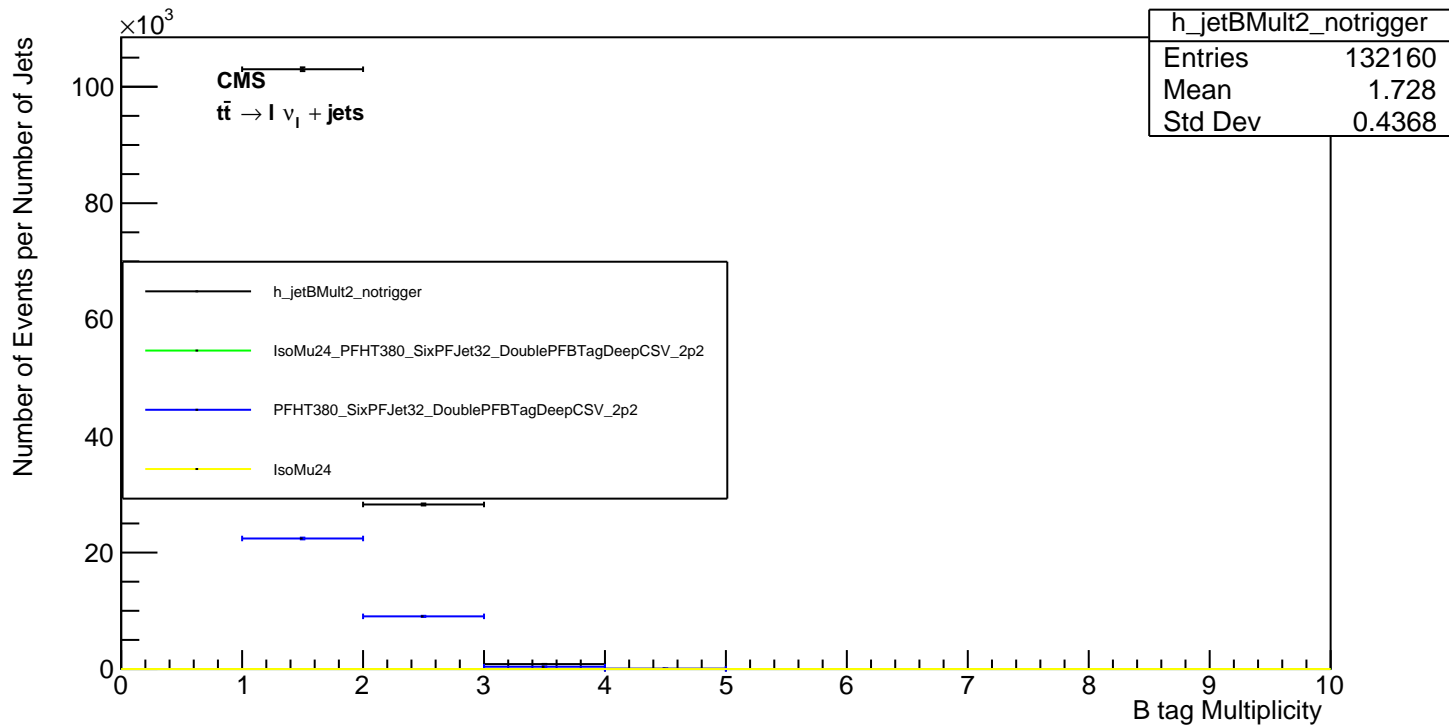


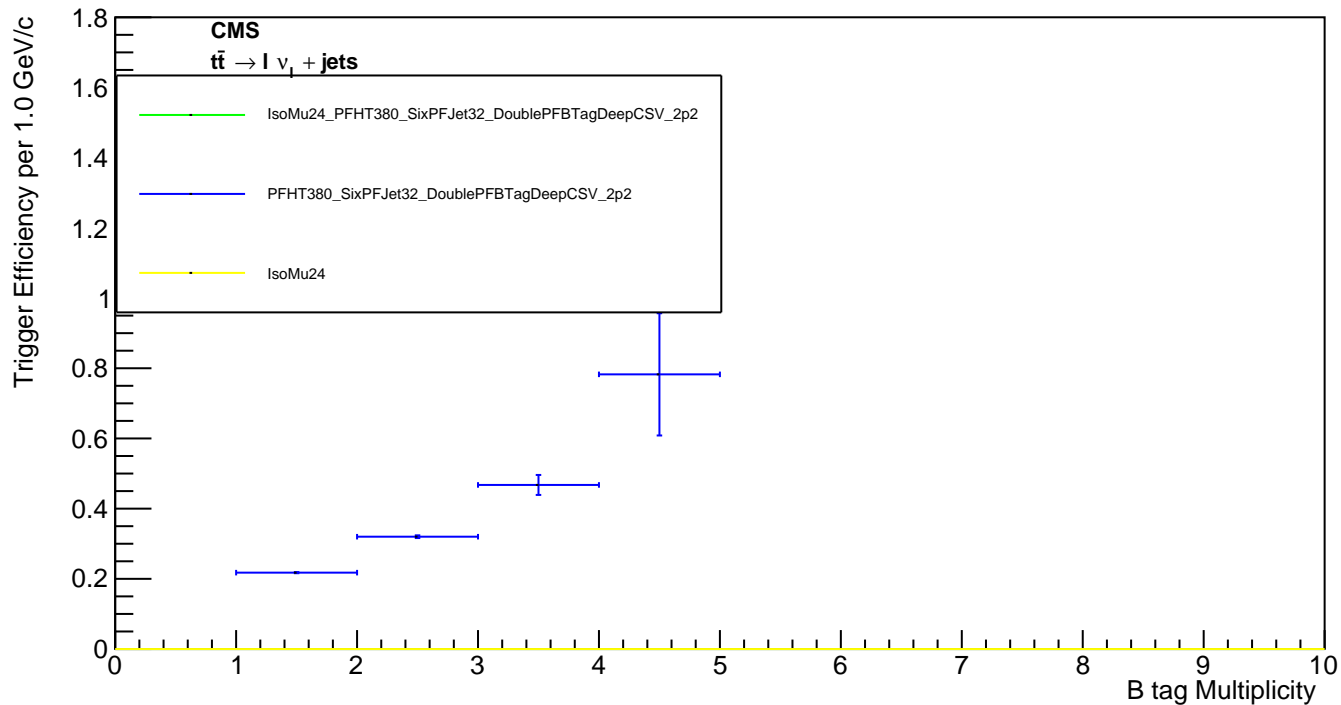
Number of Events per Number of Jets

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



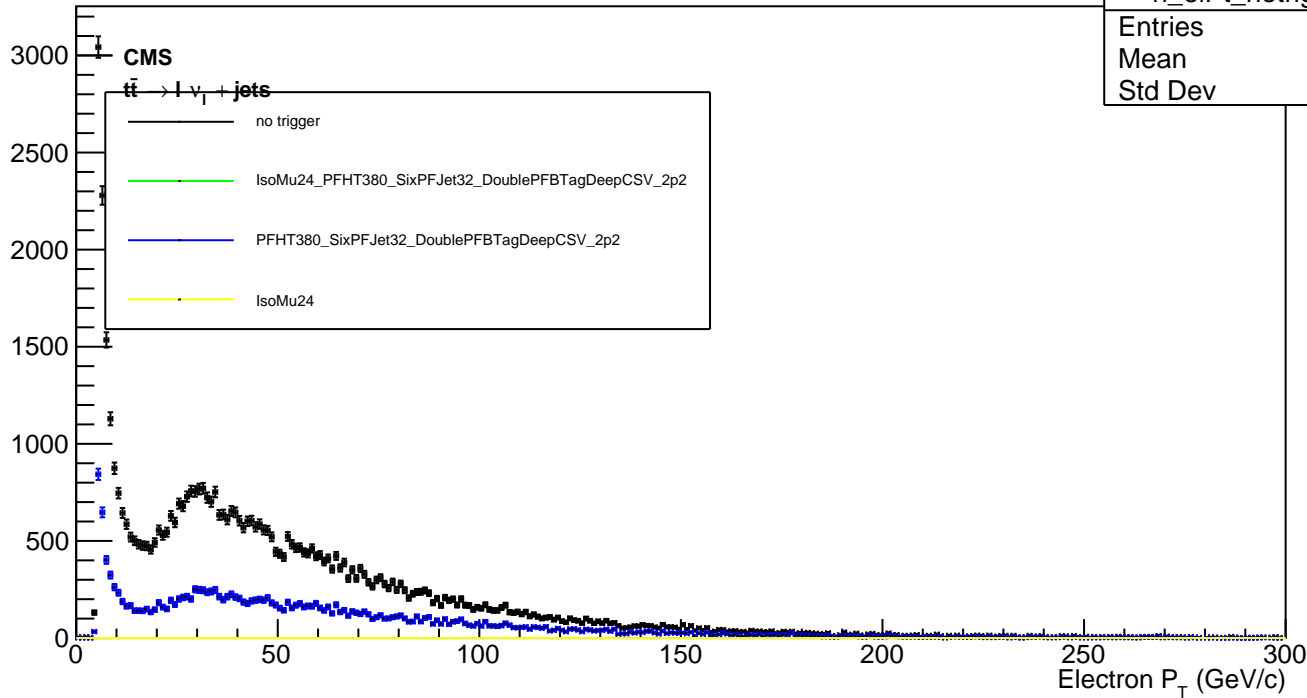






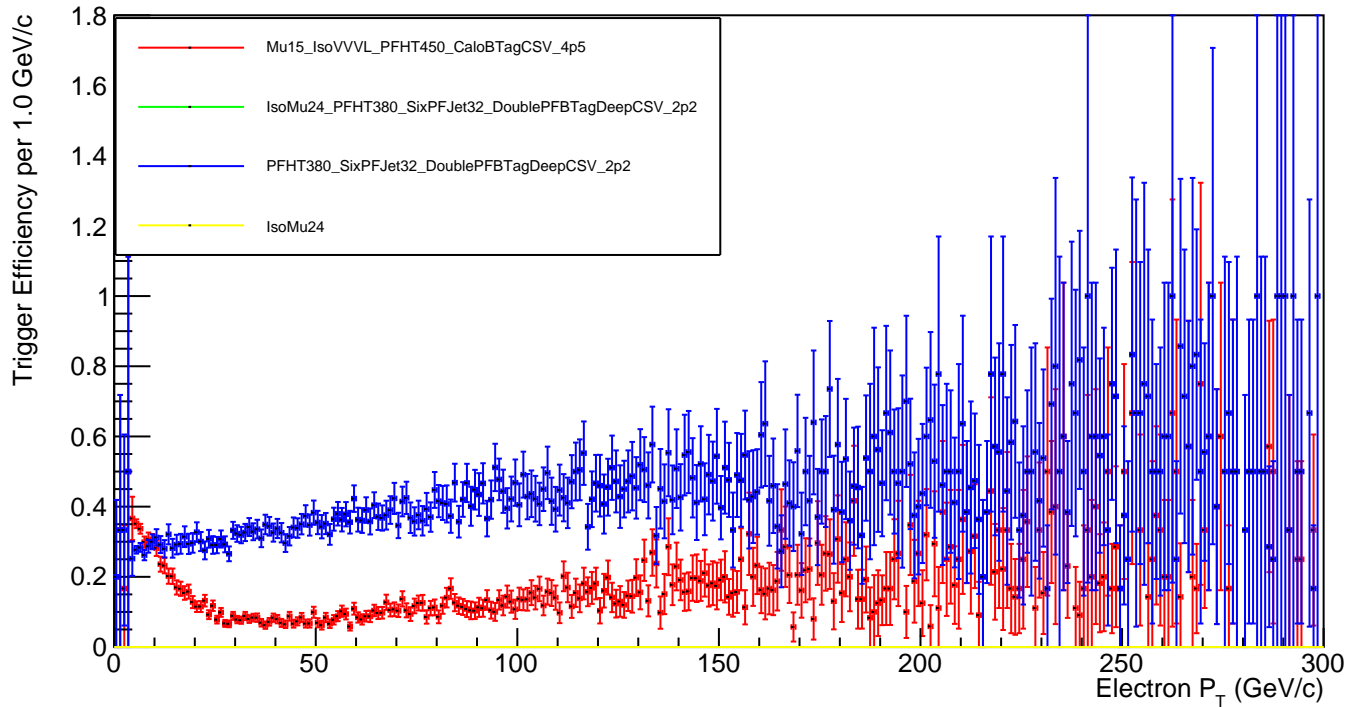
no trigger

Number of Events per 1 GeV/c



h_elPt_notrigger

Entries	55794
Mean	51.54
Std Dev	44.57

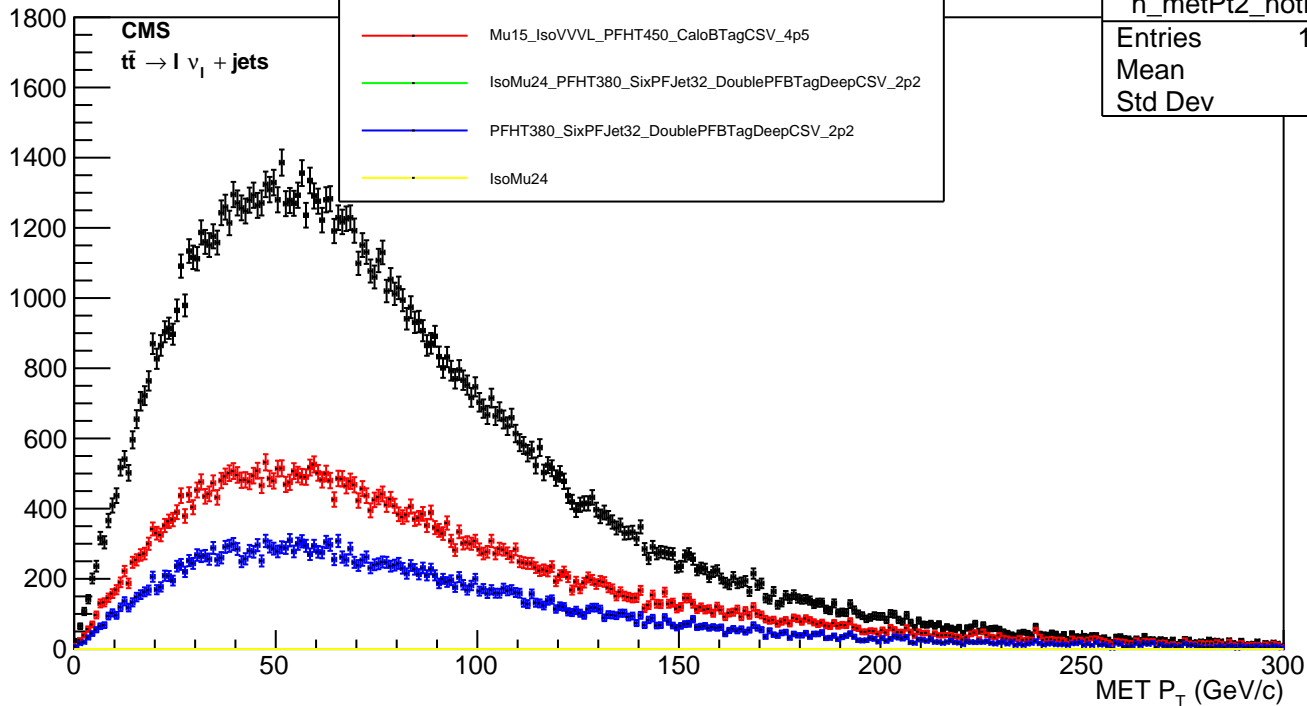


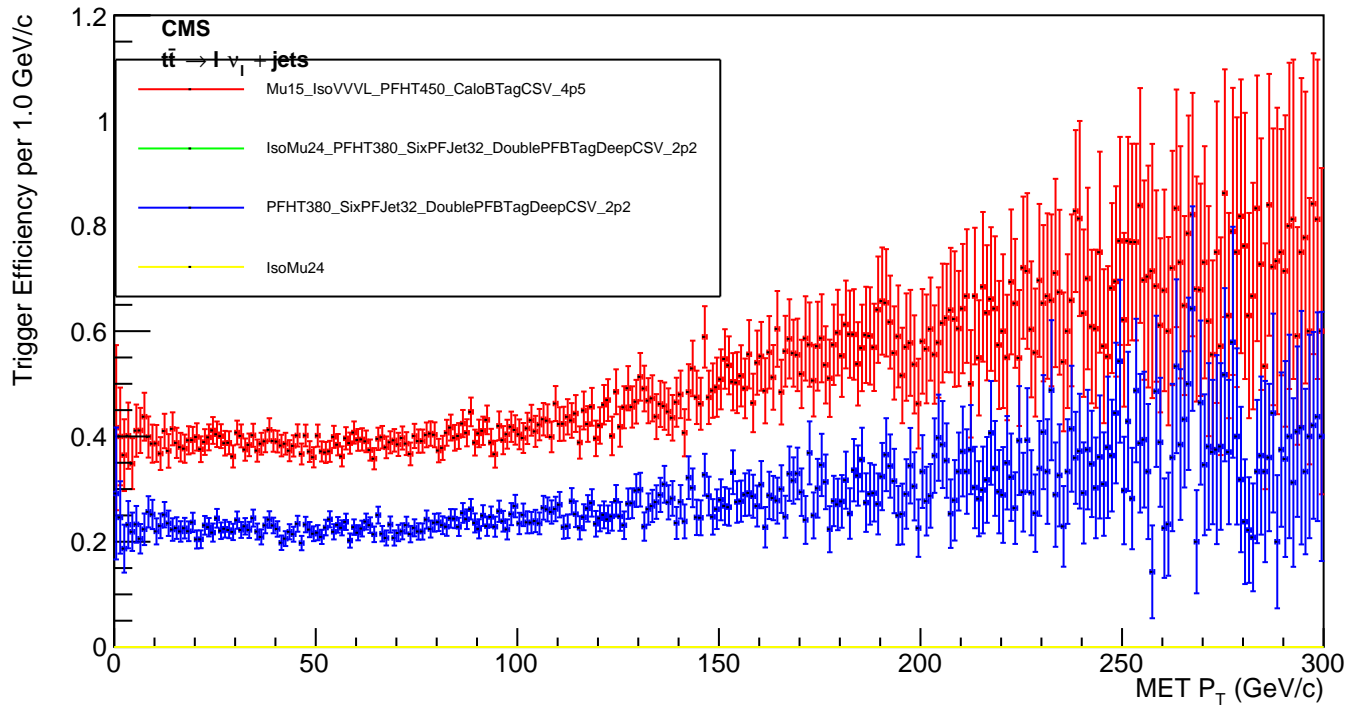
Number of Events per 1 GeV/c

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

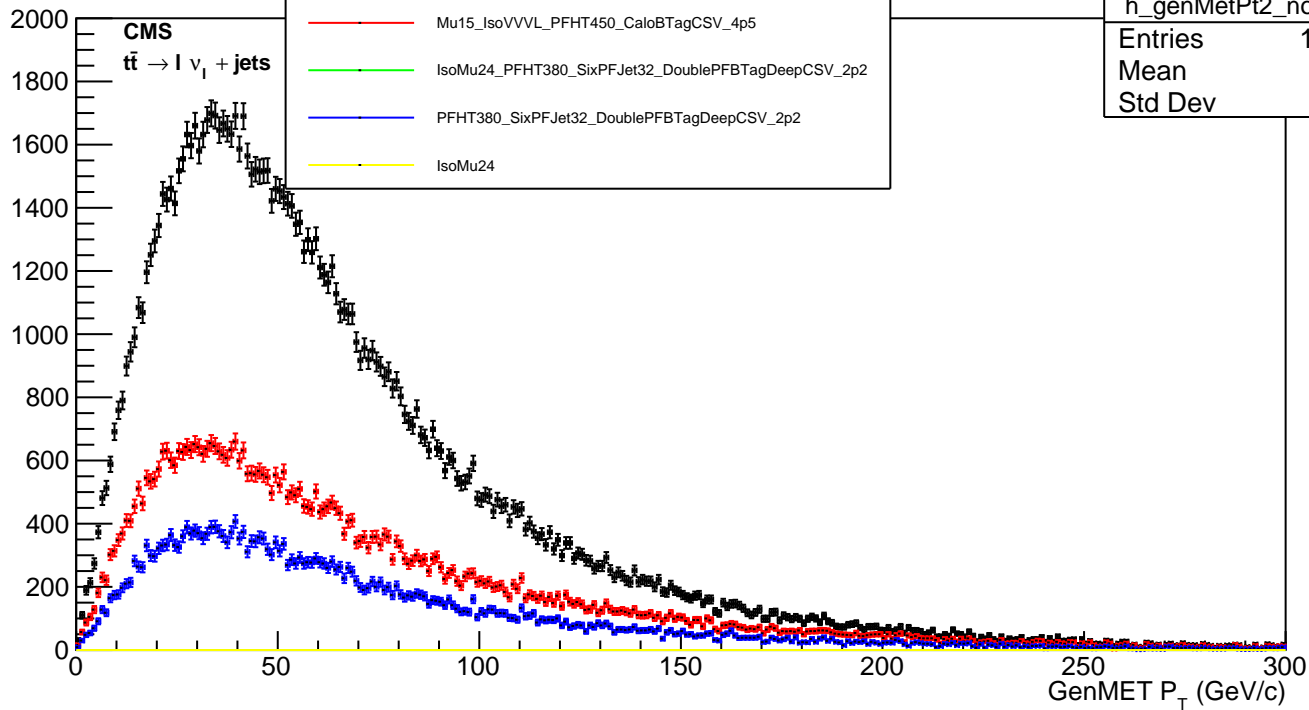
h_metPt2_notrigger
Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
IsoMu24

h_metPt2_notrigger	
Entries	132160
Mean	78.56
Std Dev	50.45

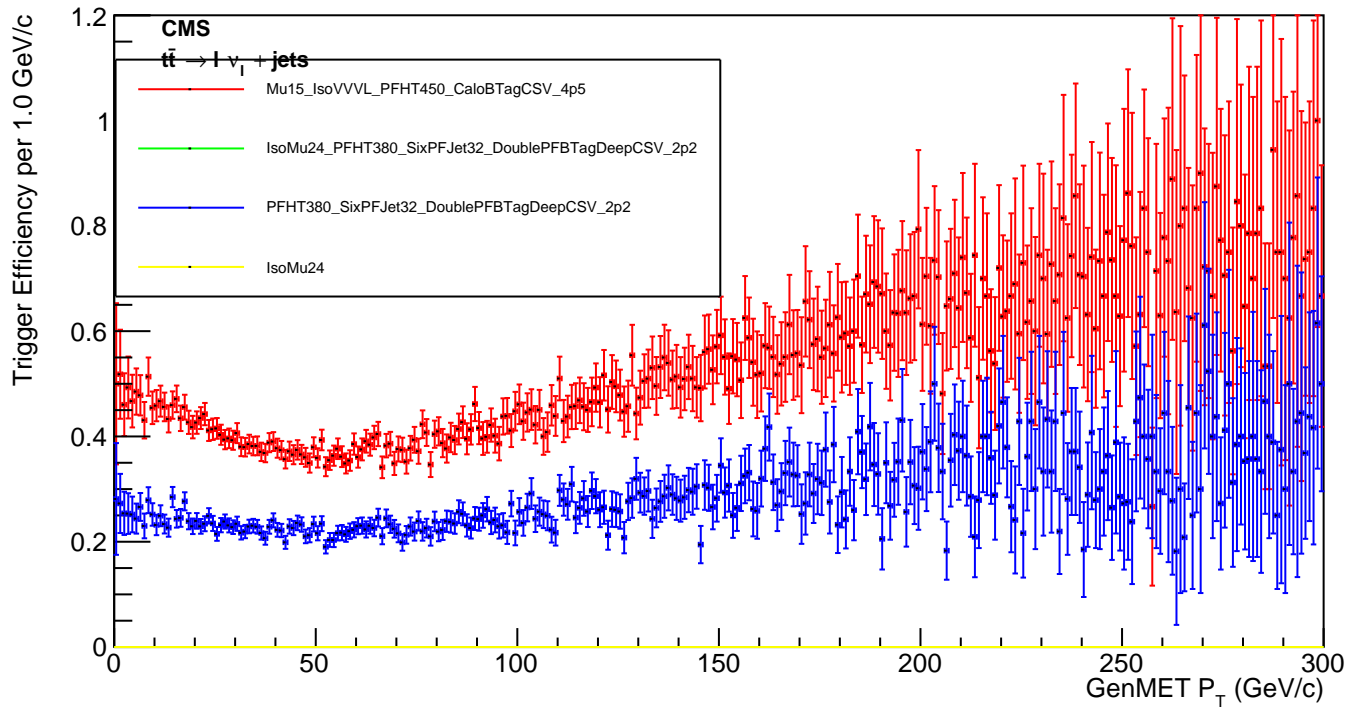




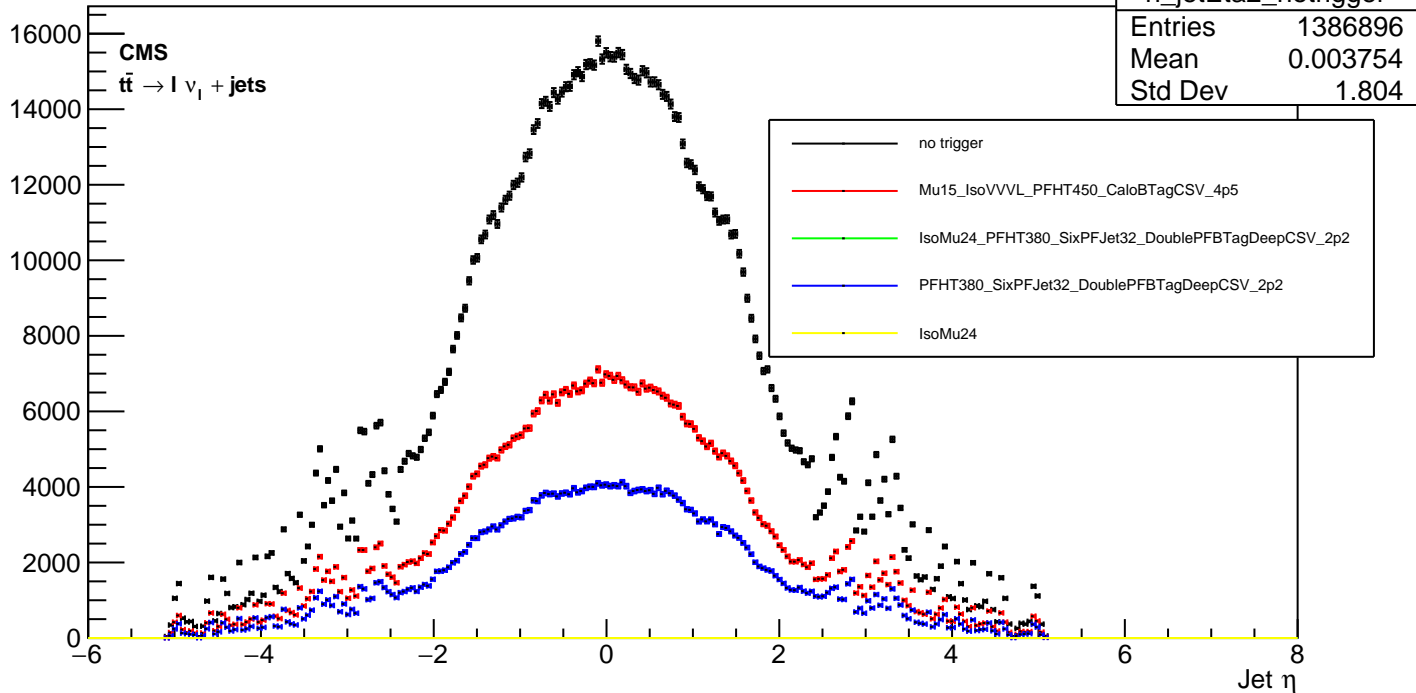
Number of Events per 1GeV/c



h_genMetPt2_notrigger	
Entries	132160
Mean	66
Std Dev	47.76



no trigger

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

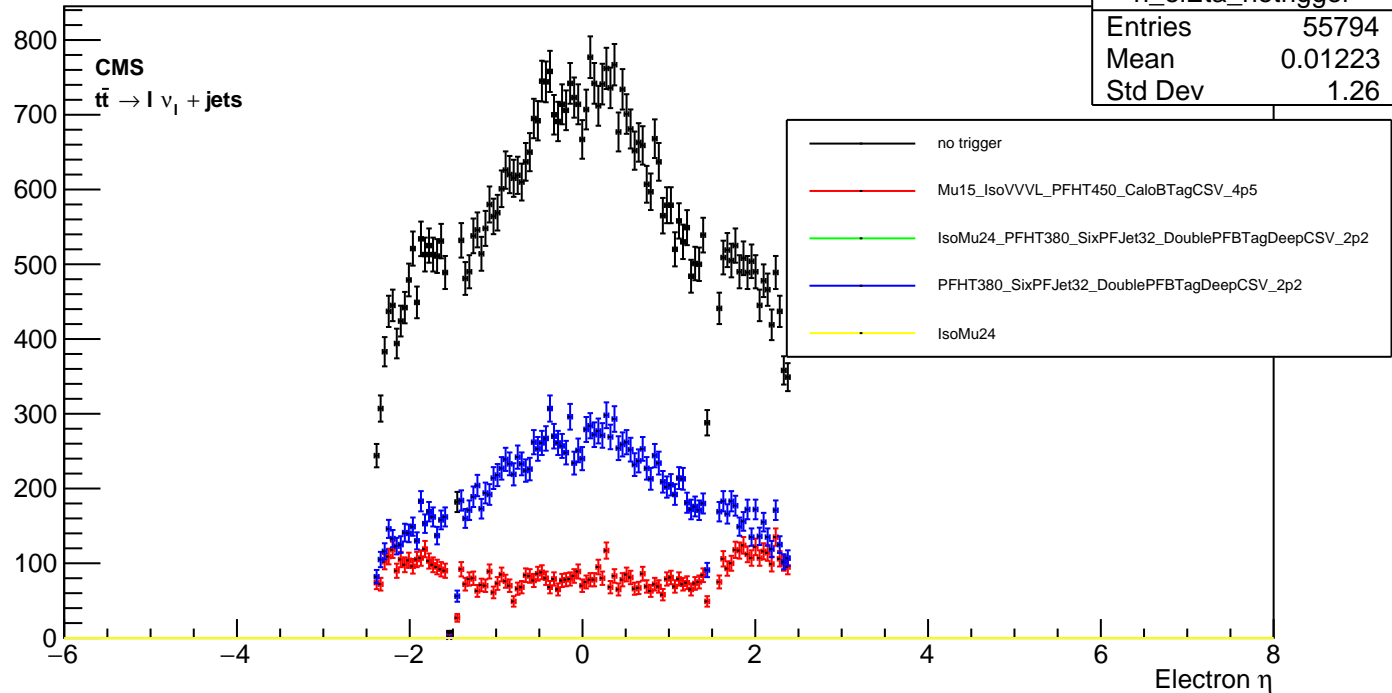
no trigger

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

CMS

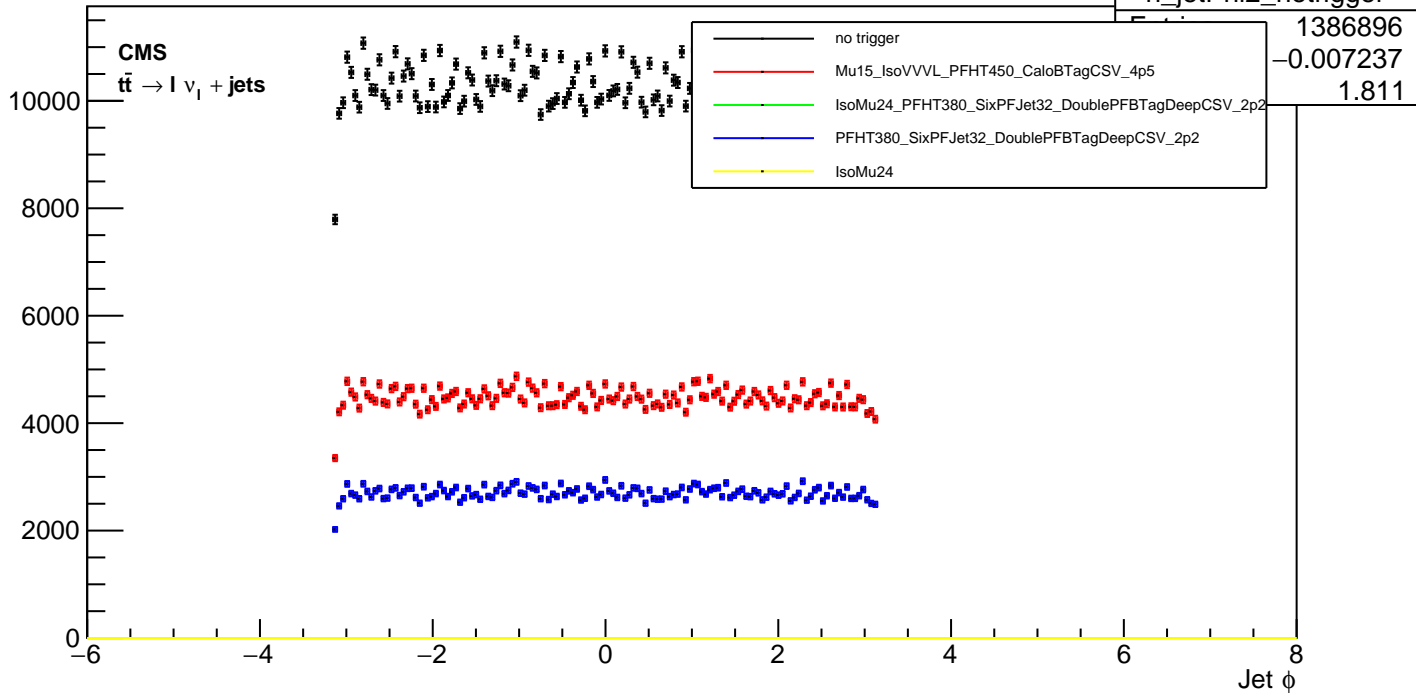
 $t\bar{t} \rightarrow l \nu_l + \text{jets}$

h_eEta_notrigger	
Entries	55794
Mean	0.01223
Std Dev	1.26



no trigger

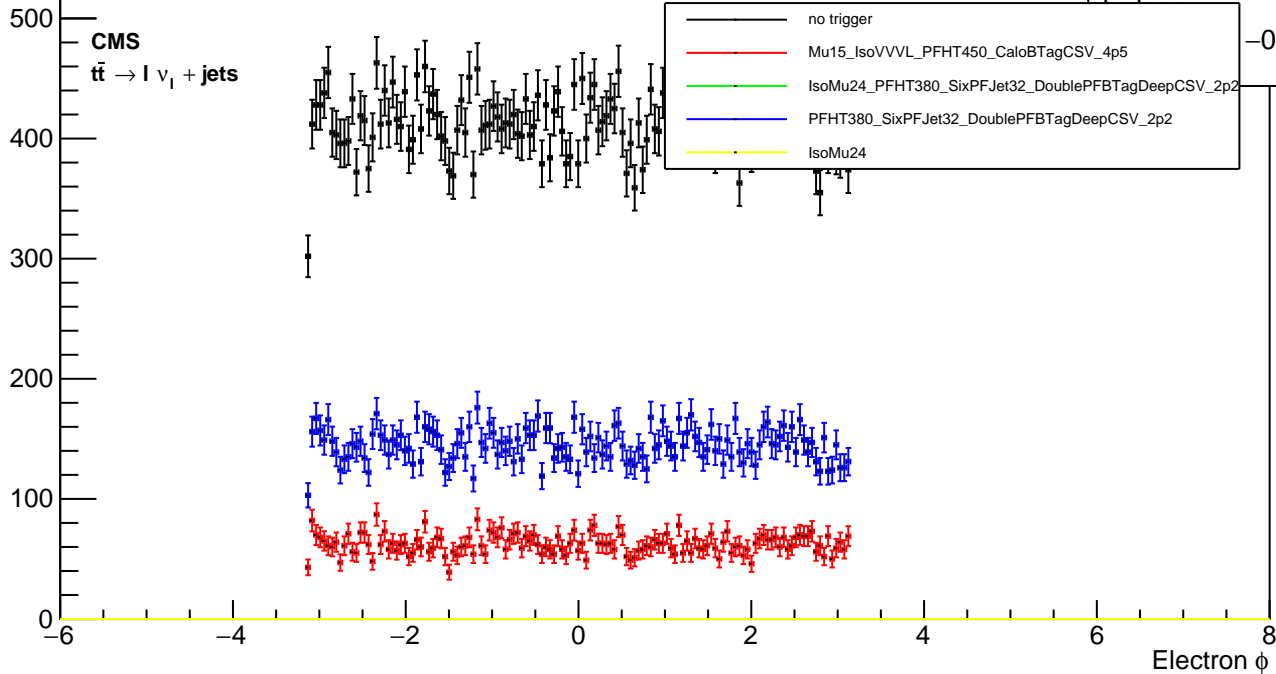
Number of Events per $\delta\phi = 0.046$



no trigger

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

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



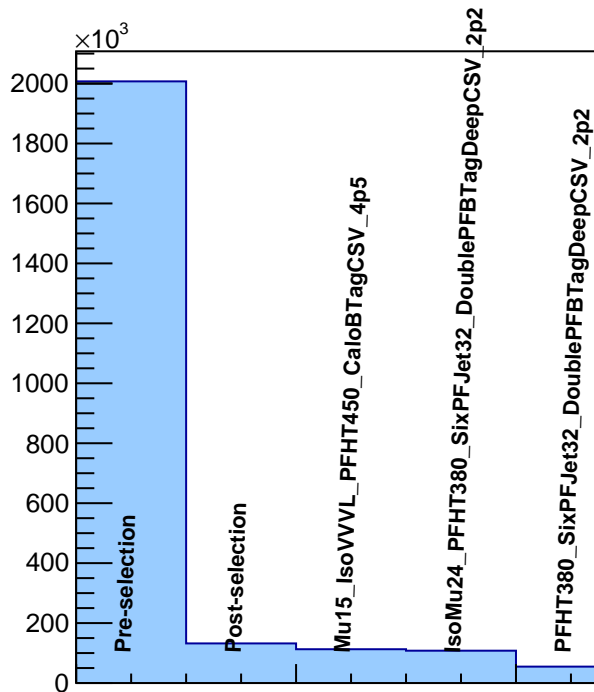
h_elPhi_notrigger

55794

-0.001397

1.816

Total Number of Accepted Events



Cuts and Triggers

h_eventsPrg	
Entries	2433724
Mean	0.4087
Std Dev	1.013