

On-line (pre-)selection Requisites for:

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

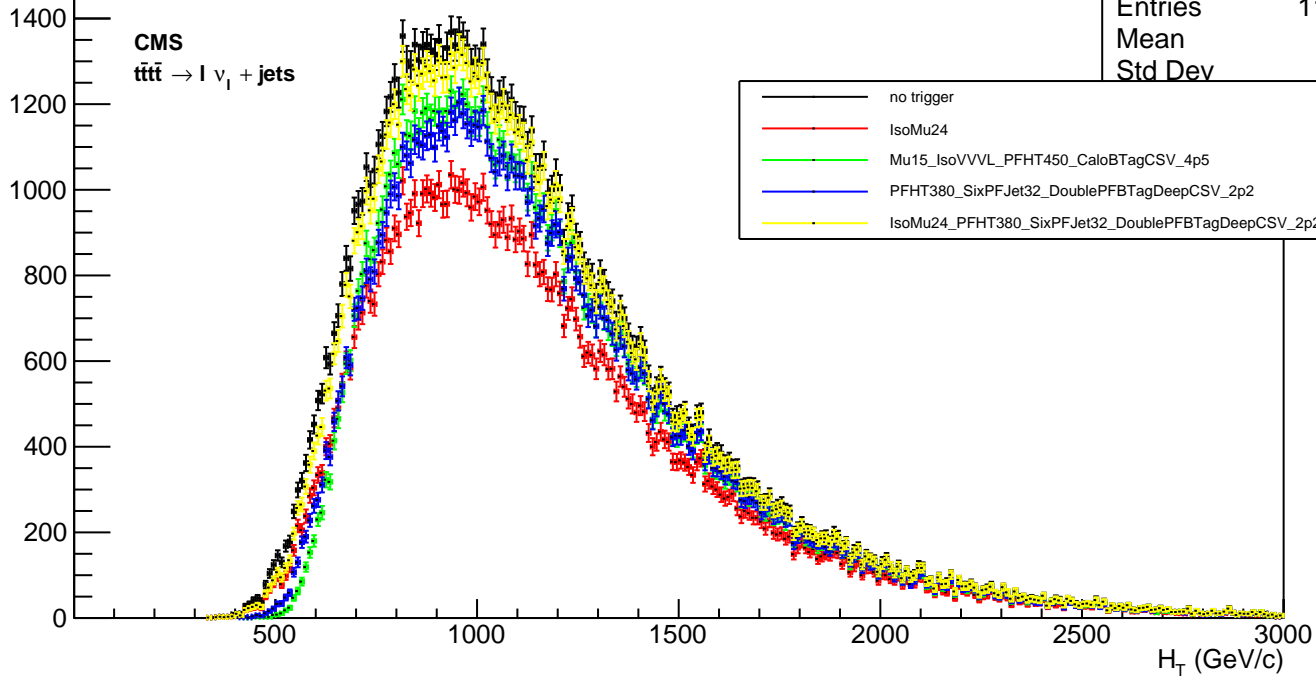
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

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

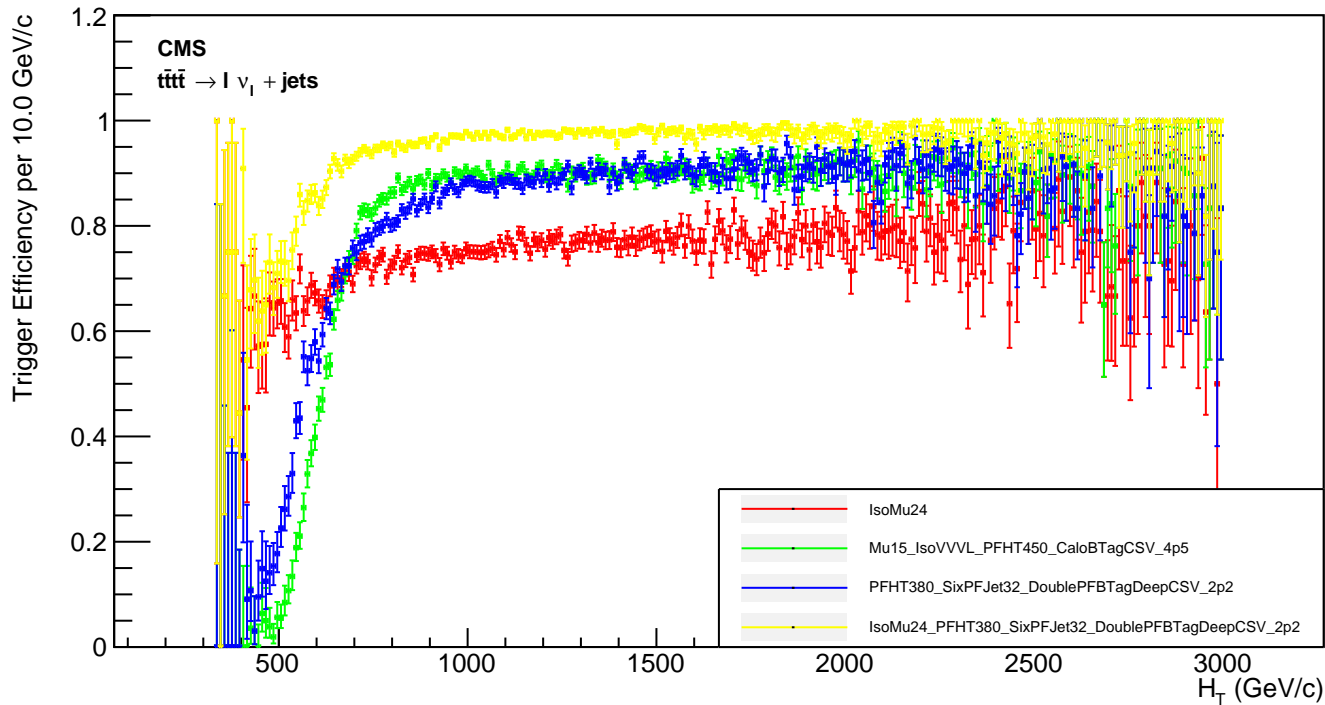
Number of Events per 10 GeV/c

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



h_jetHt_notrigger

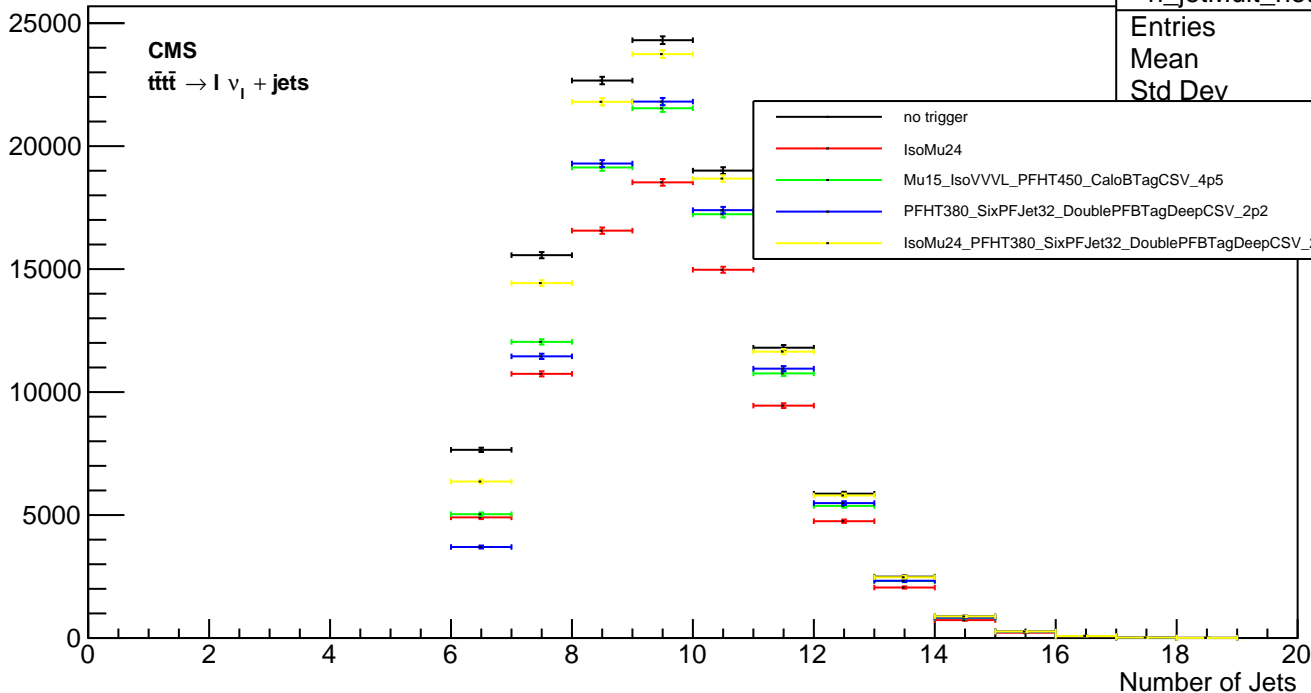
Entries	110622
Mean	1141
Std Dev	403

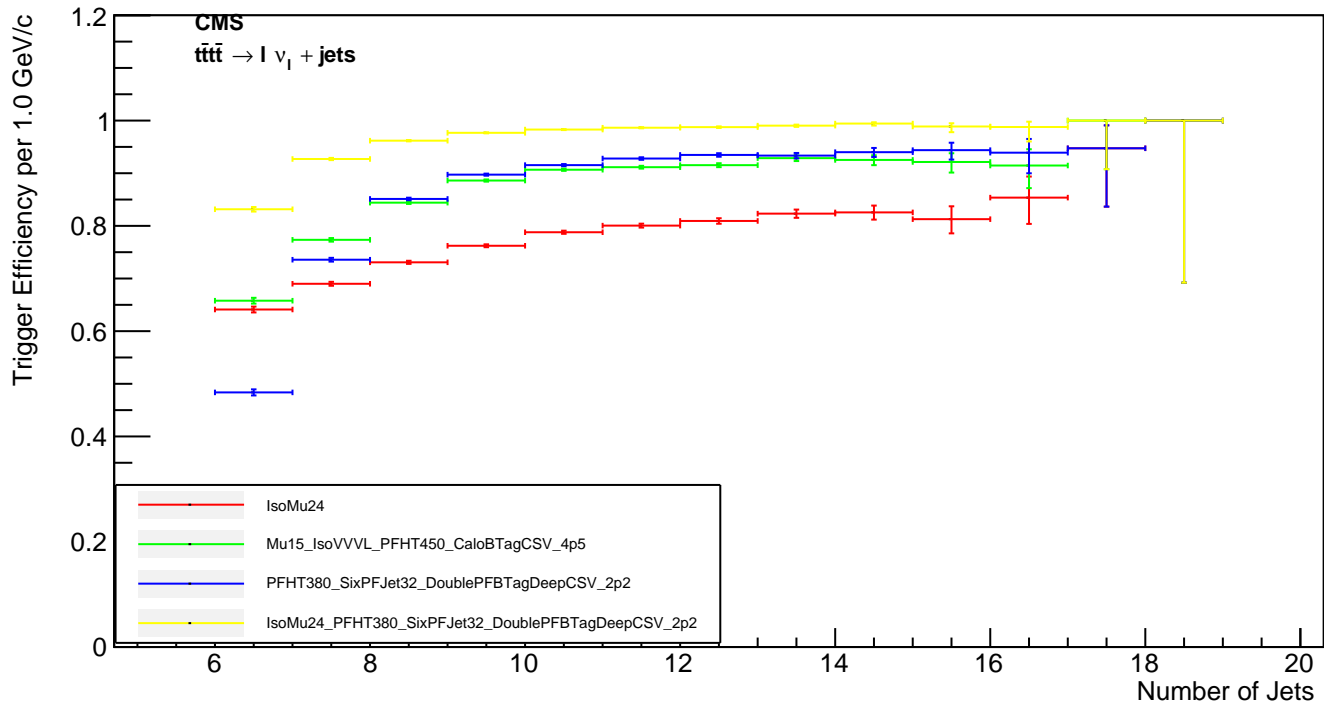


Number of Events per Number of Jets

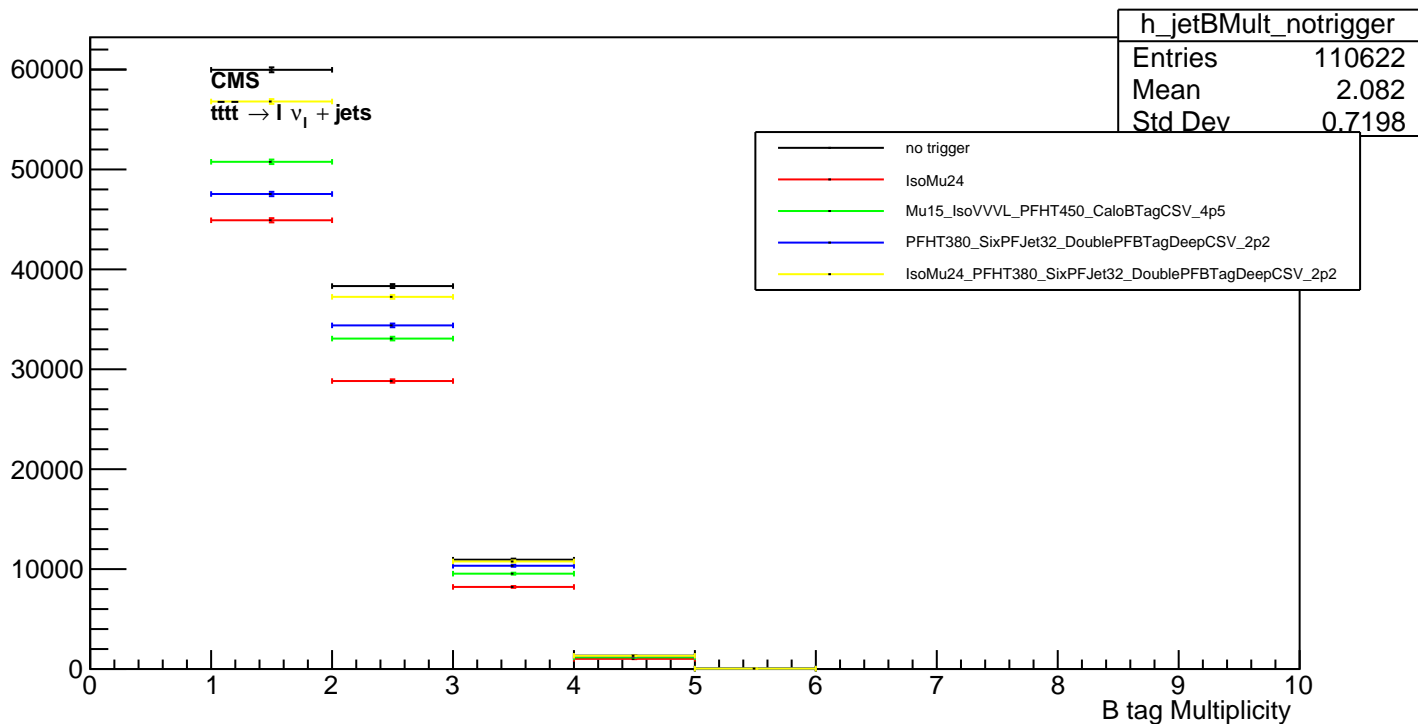
CMS
 $t\bar{t}t\bar{t} \rightarrow l \nu_l + \text{jets}$

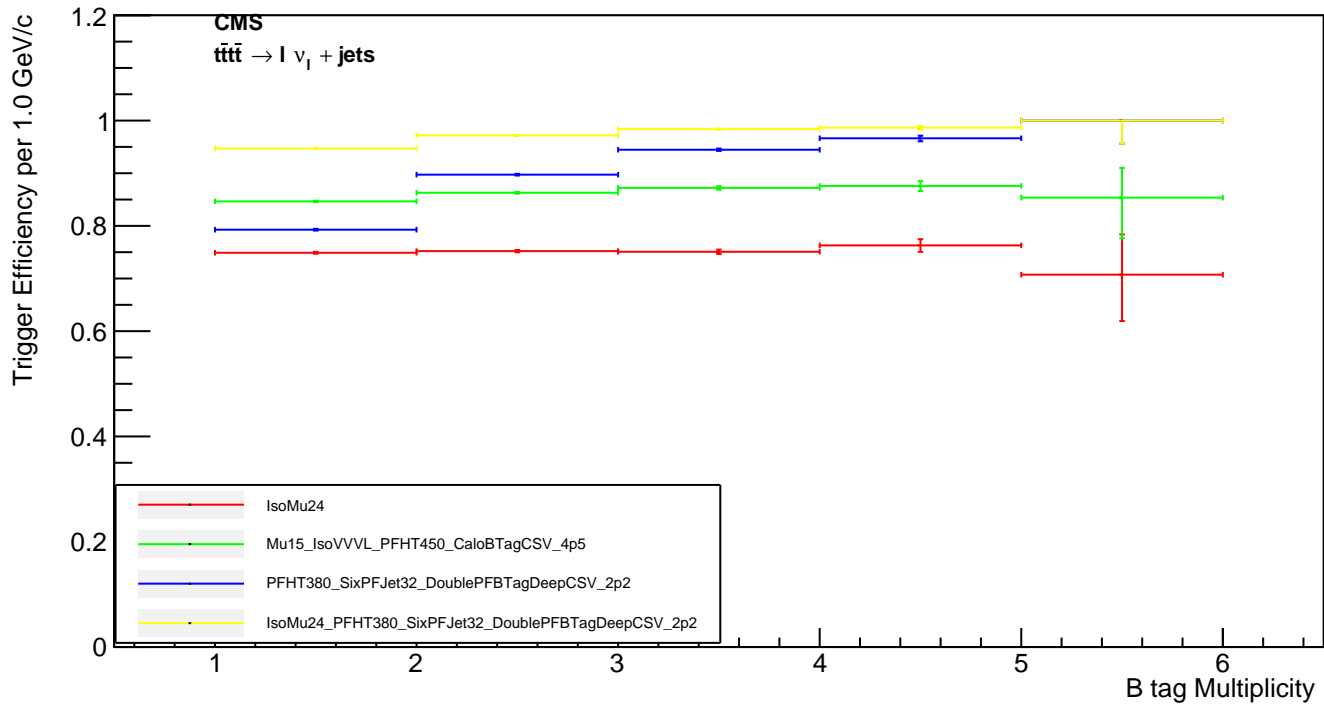
h_jetMult_notrigger	
Entries	110622
Mean	9.002
Std Dev	1.779

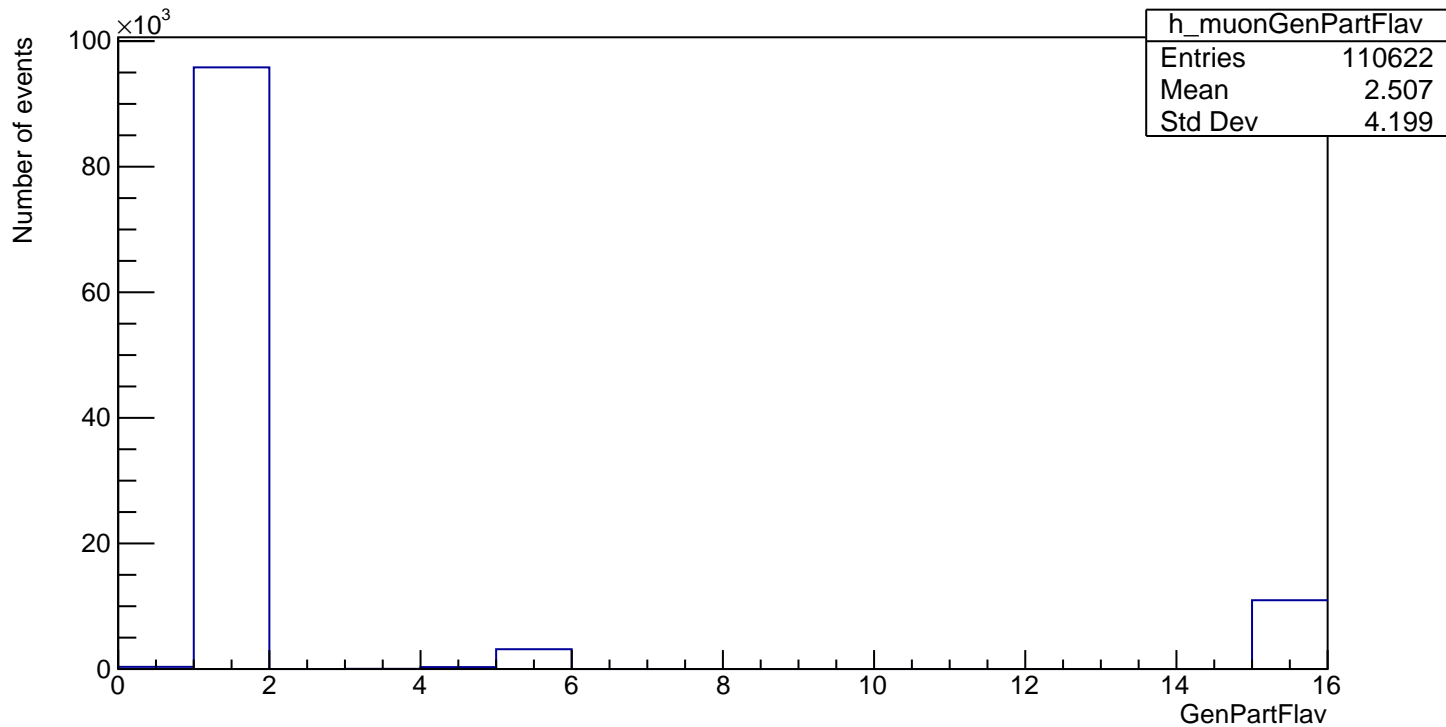




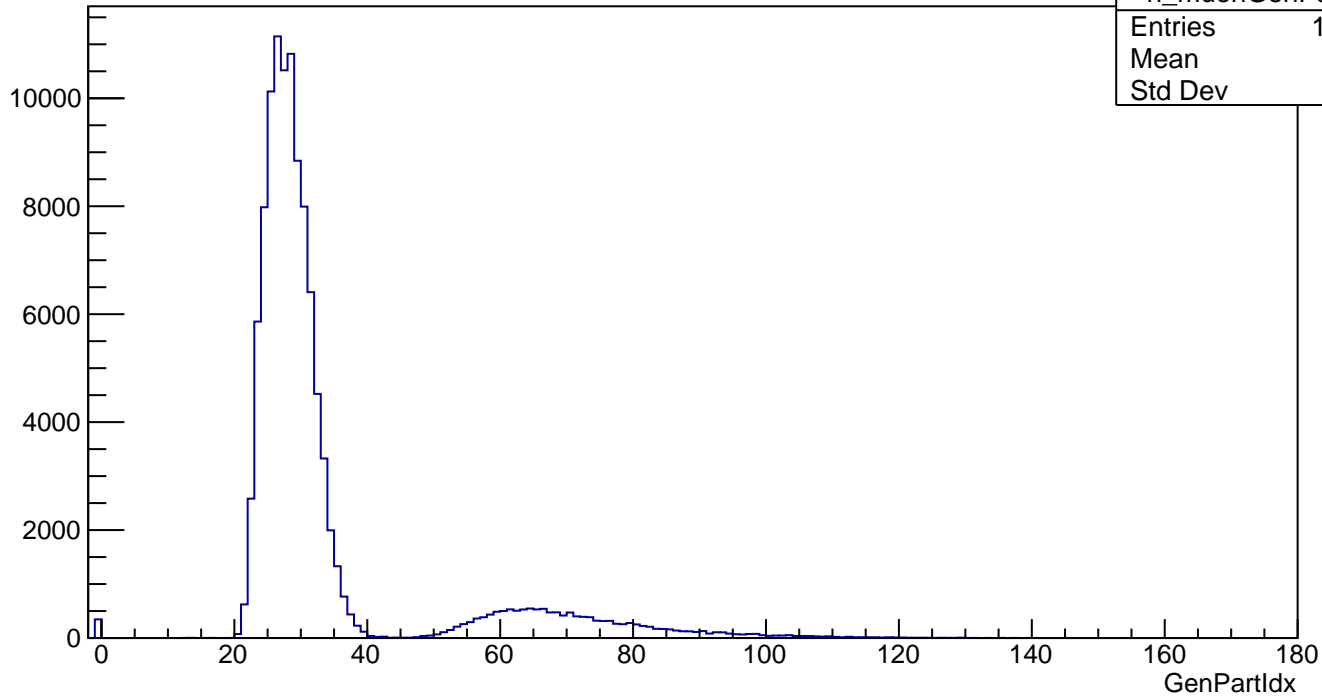
Number of Events per Number of Jets



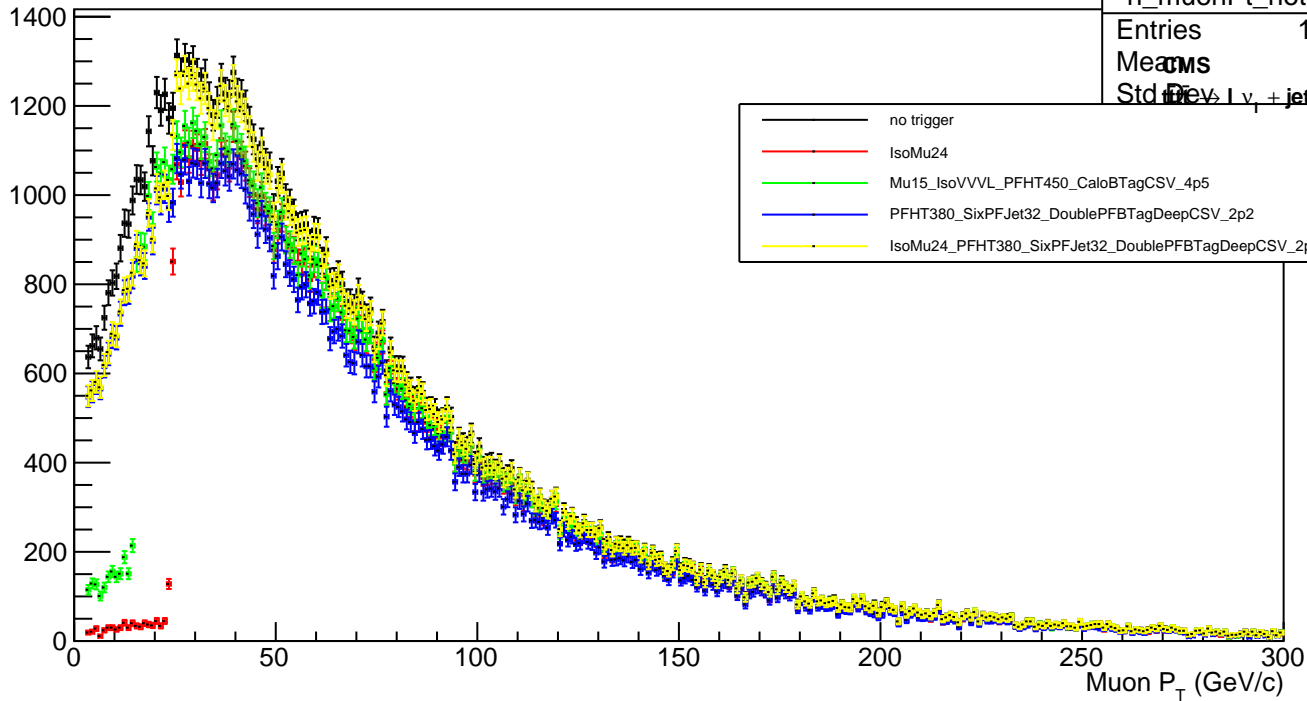




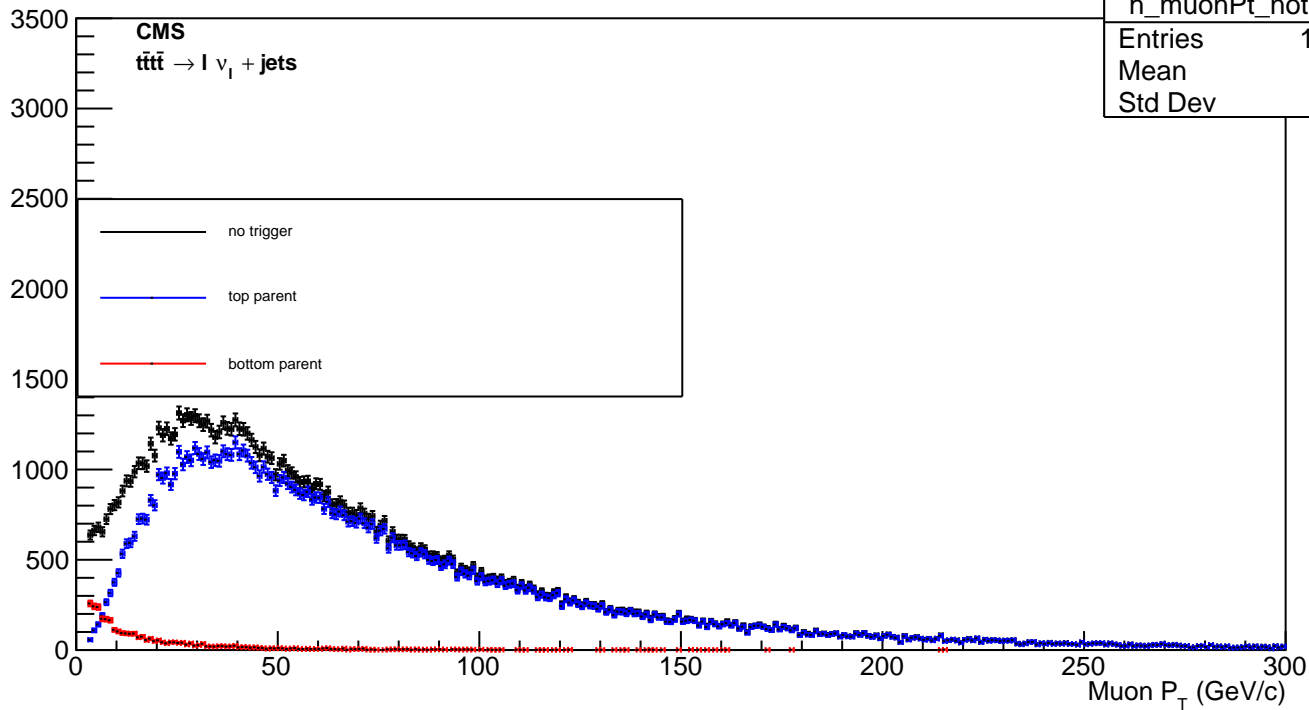
Number of events



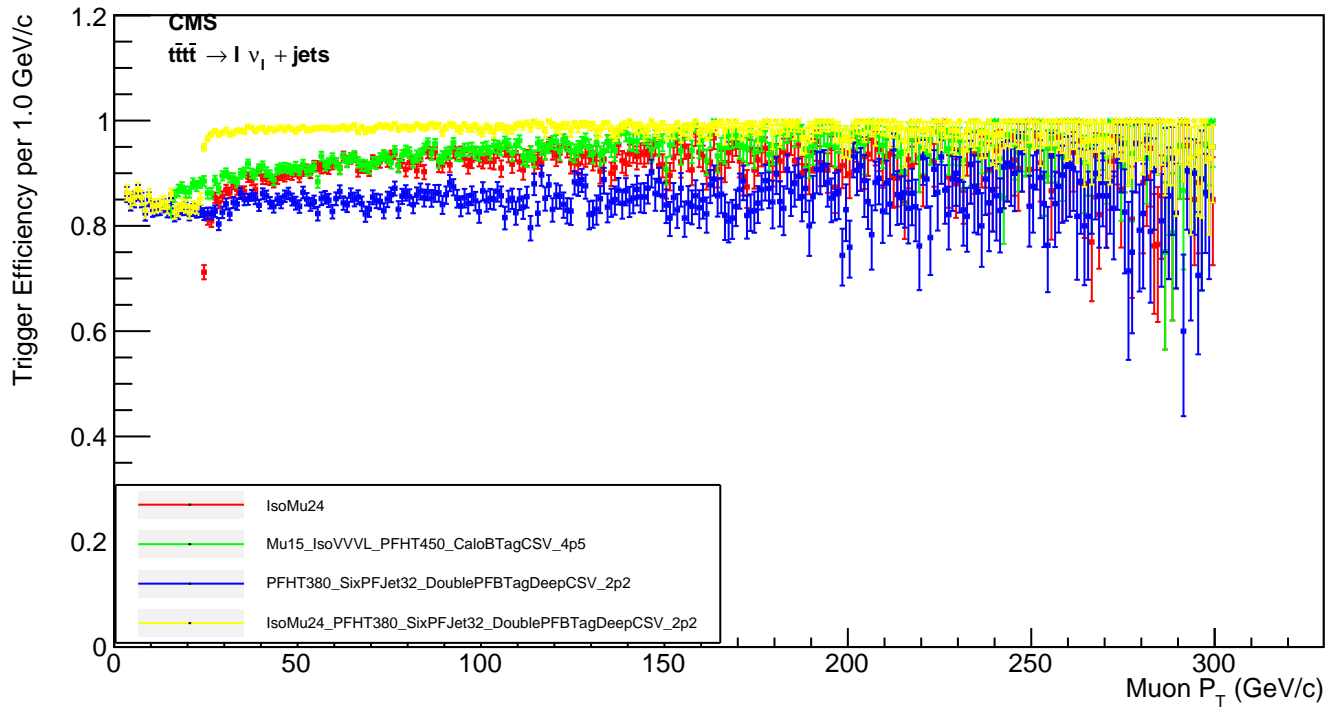
Number of Events per 1 GeV/c



Number of Events per 1 GeV/c



h_muonPt_notrigger	
Entries	110622
Mean	68.62
Std Dev	53.53



Number of Events per 1 GeV/c

CMS

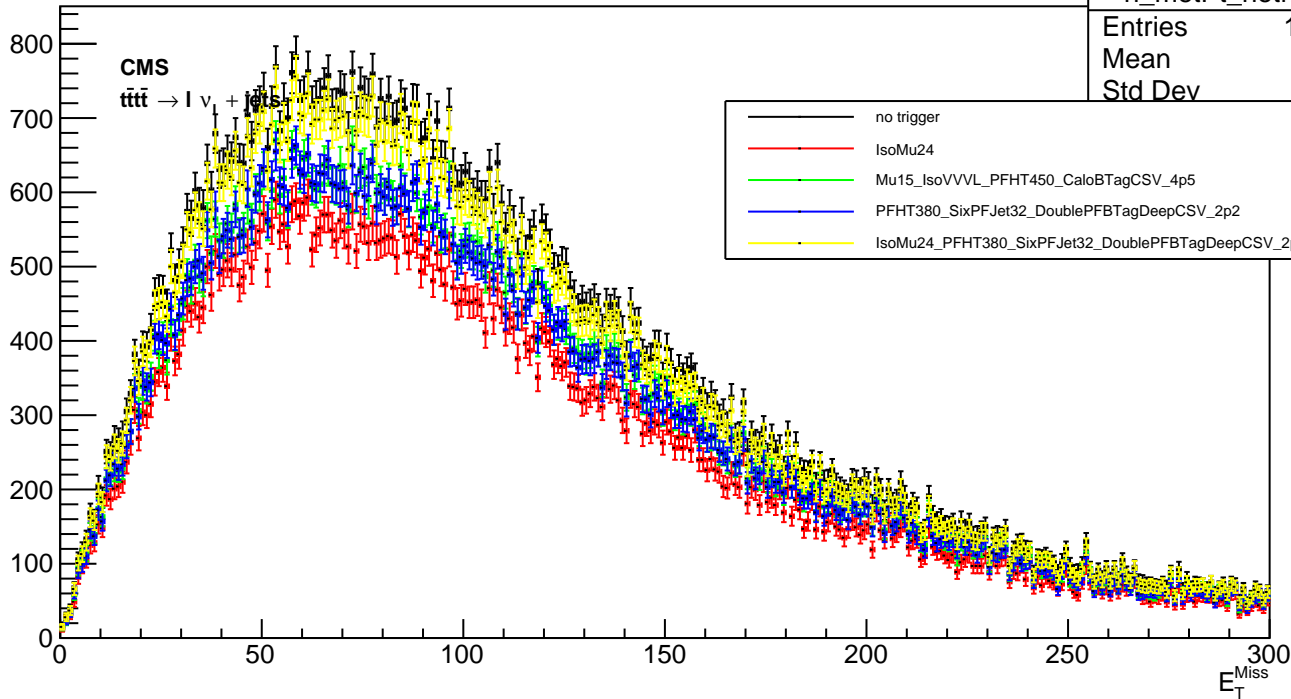
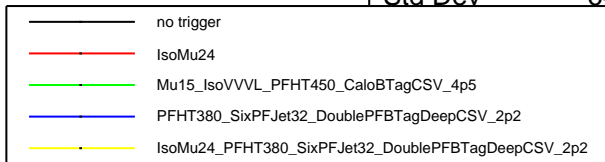
$t\bar{t}t\bar{t} \rightarrow l \nu + \text{jets}$

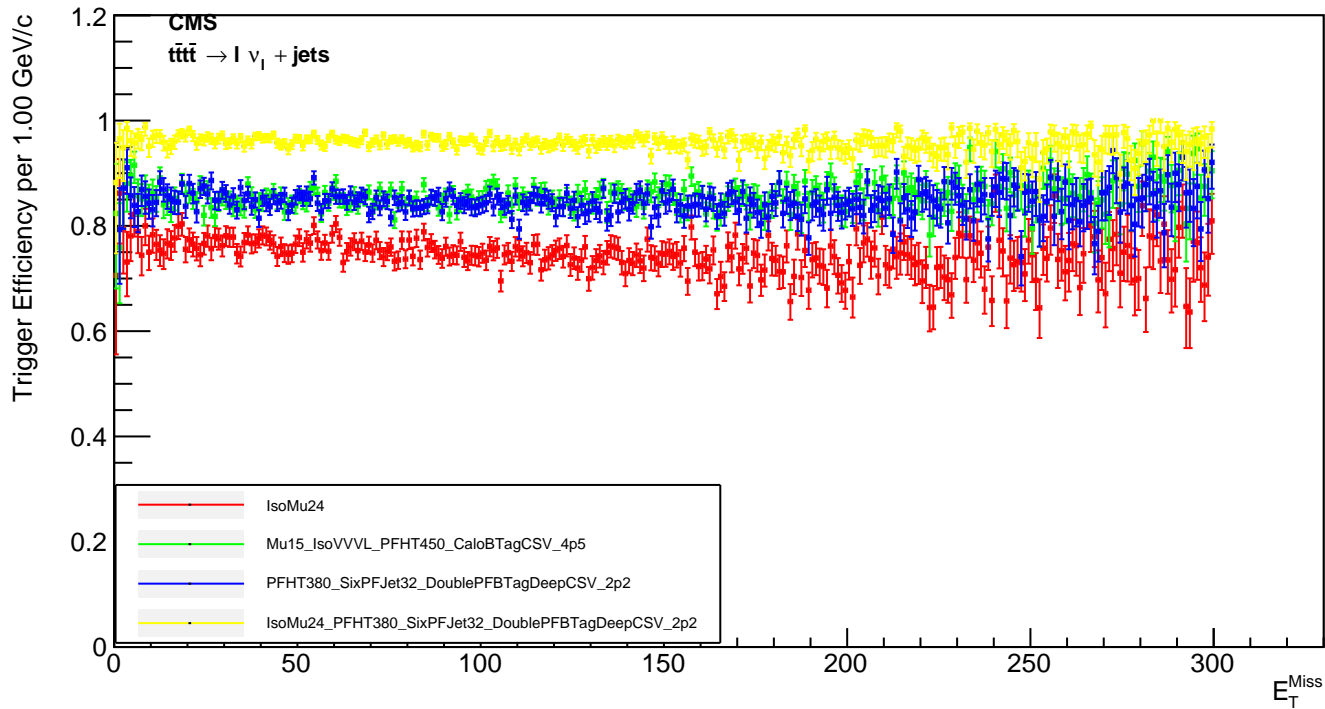
h_metPt_notrigger

Entries 110622

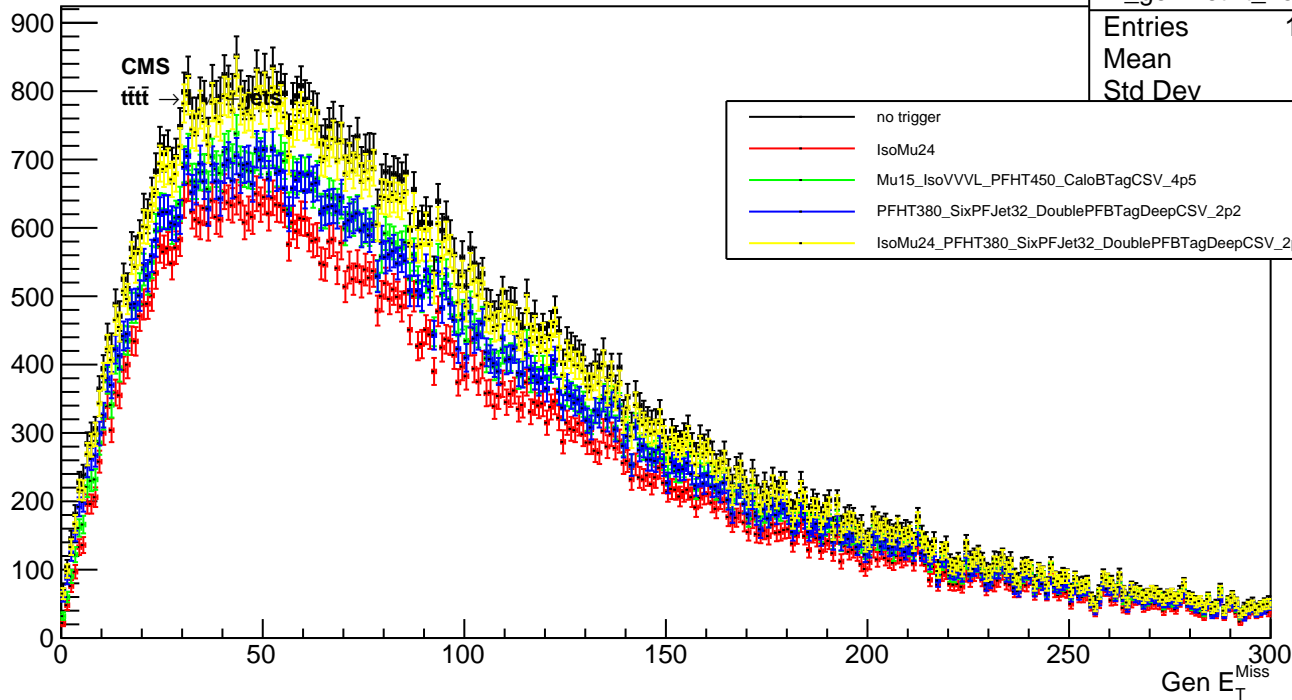
Mean 107.3

Std Dev 64.66

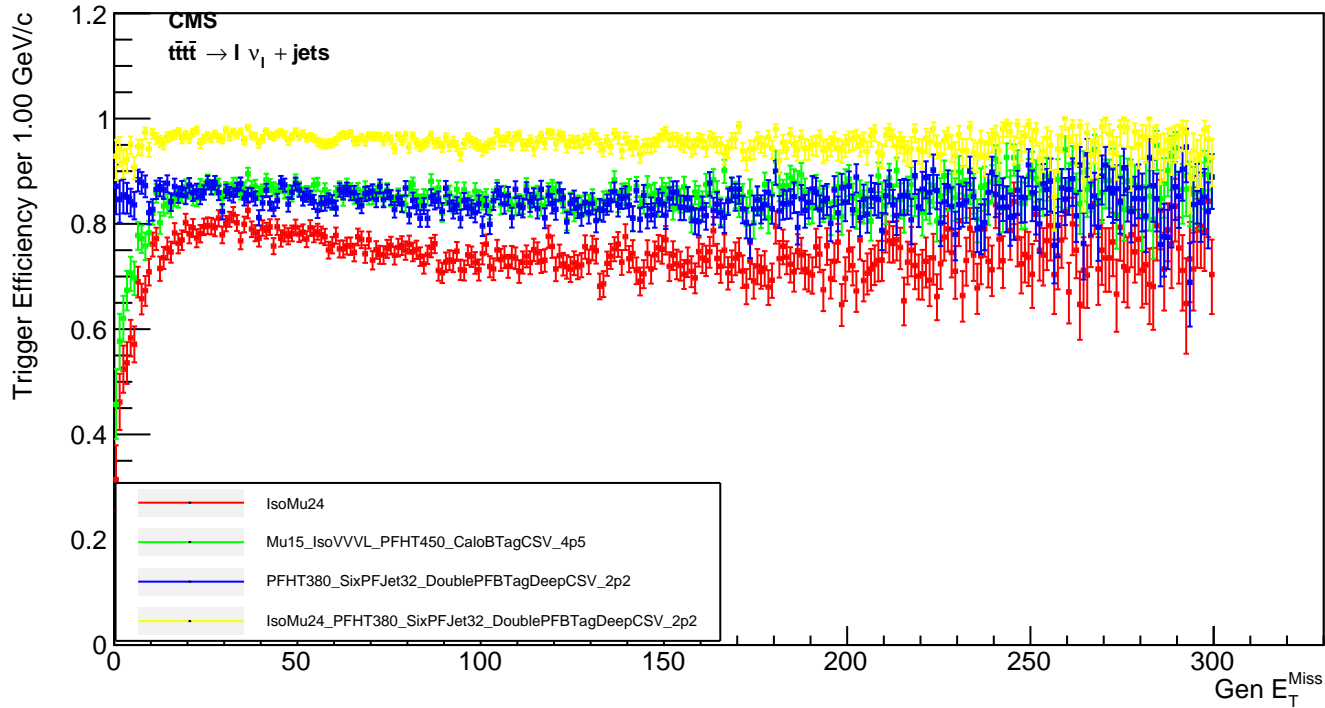




Number of Events per 1GeV/c



h_genMetPt_notrigger	
Entries	110622
Mean	96.05
Std Dev	64.66



Trigger Efficiency per 0.04666666666667 GeV/c

