

On-line (pre-)selection Requisites for:

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

Event Limit: None (see last page)

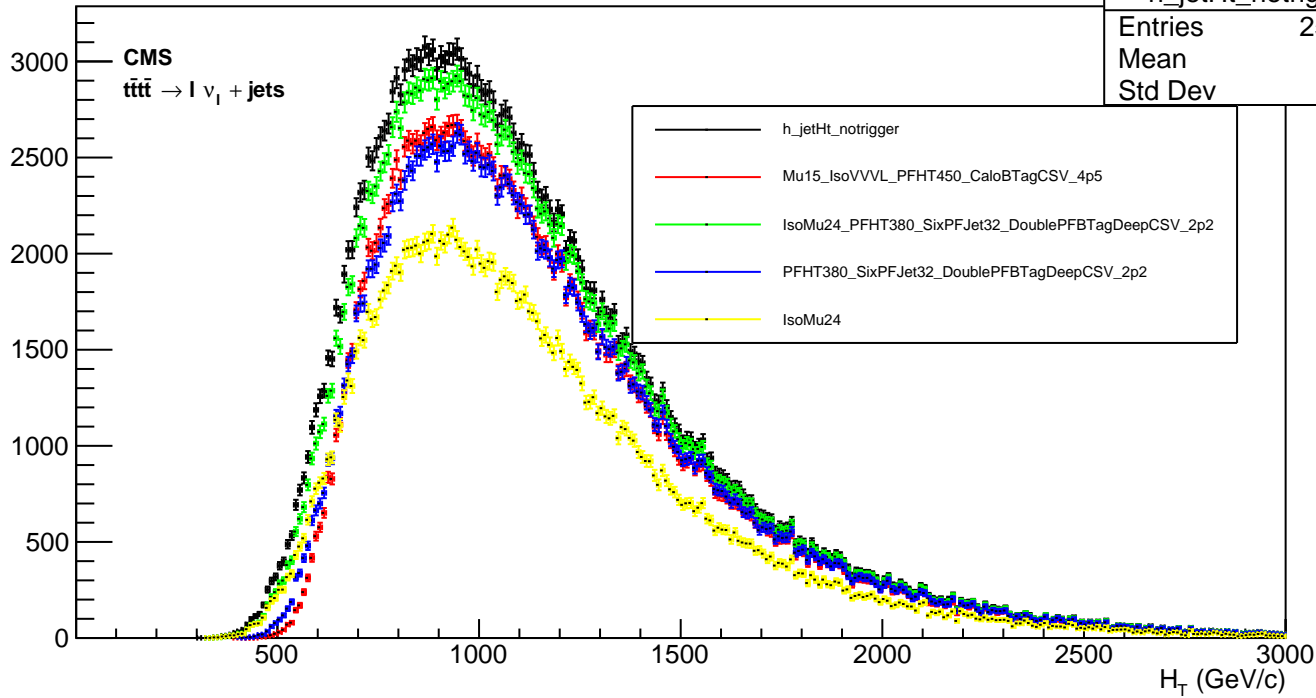
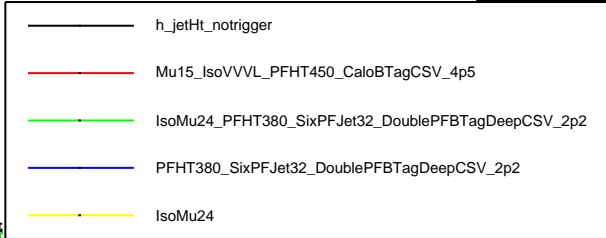
Off-line (post-)selection Requisites for:

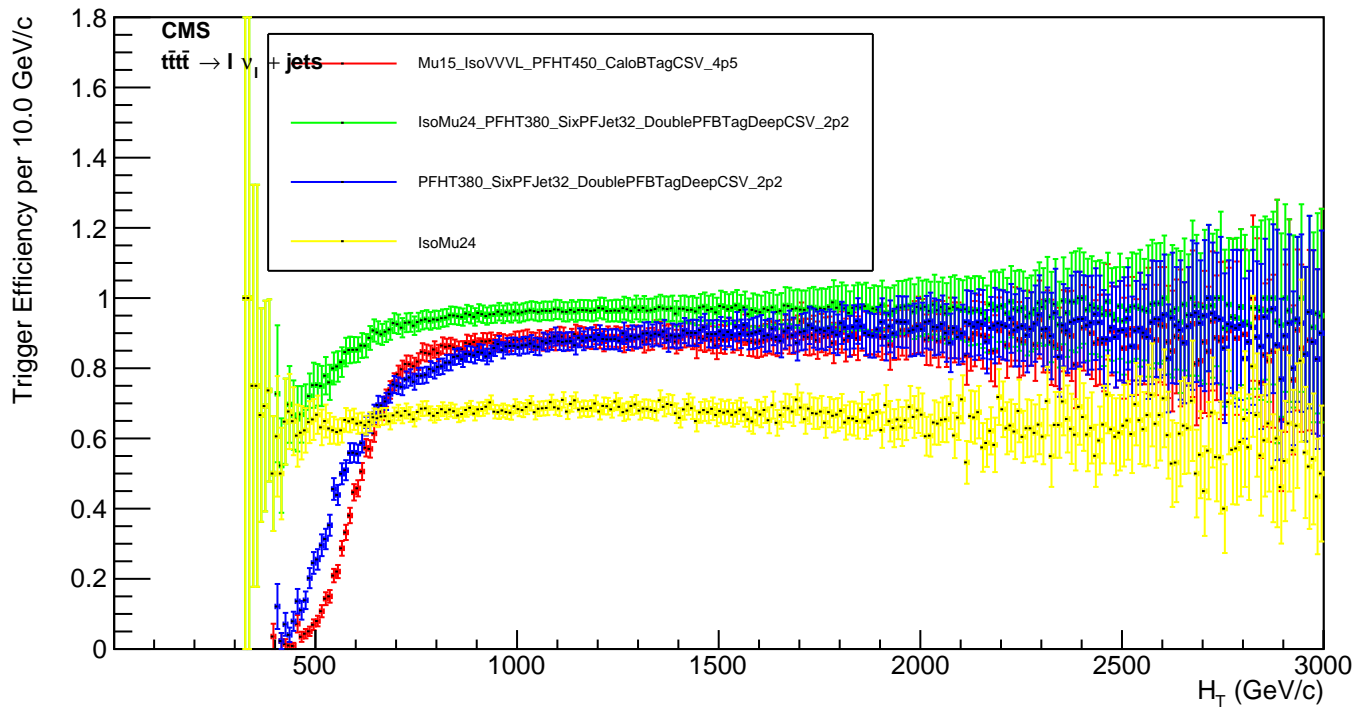
- **Jets:** jetId > 2 , $p_T > 30$ and $|\eta| < 2.4$ (for at least 6)
btagDeepFlavB > 0.7489 (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and miniPFRellso_all < 0.15 (for at least 1)

Number of Events per 10 GeV/c

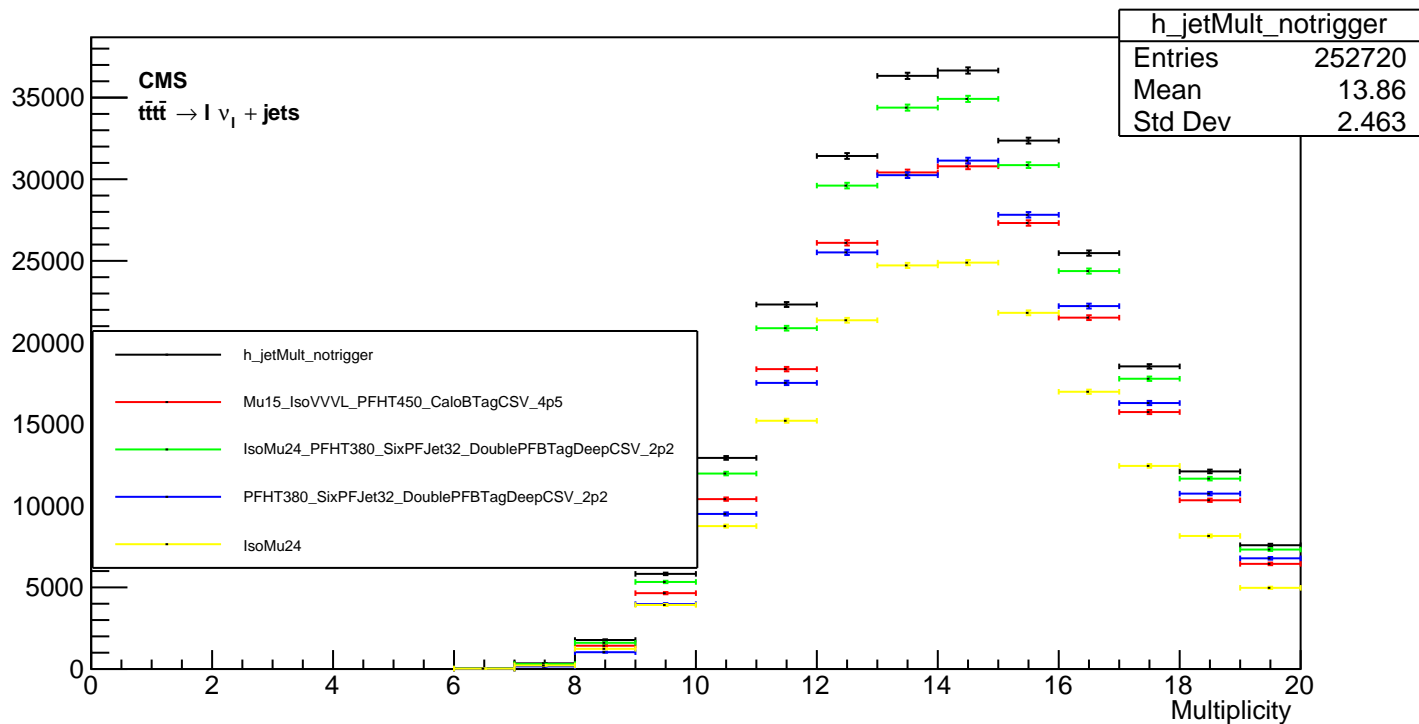
CMS
 $t\bar{t}t\bar{t} \rightarrow l \nu_l + \text{jets}$

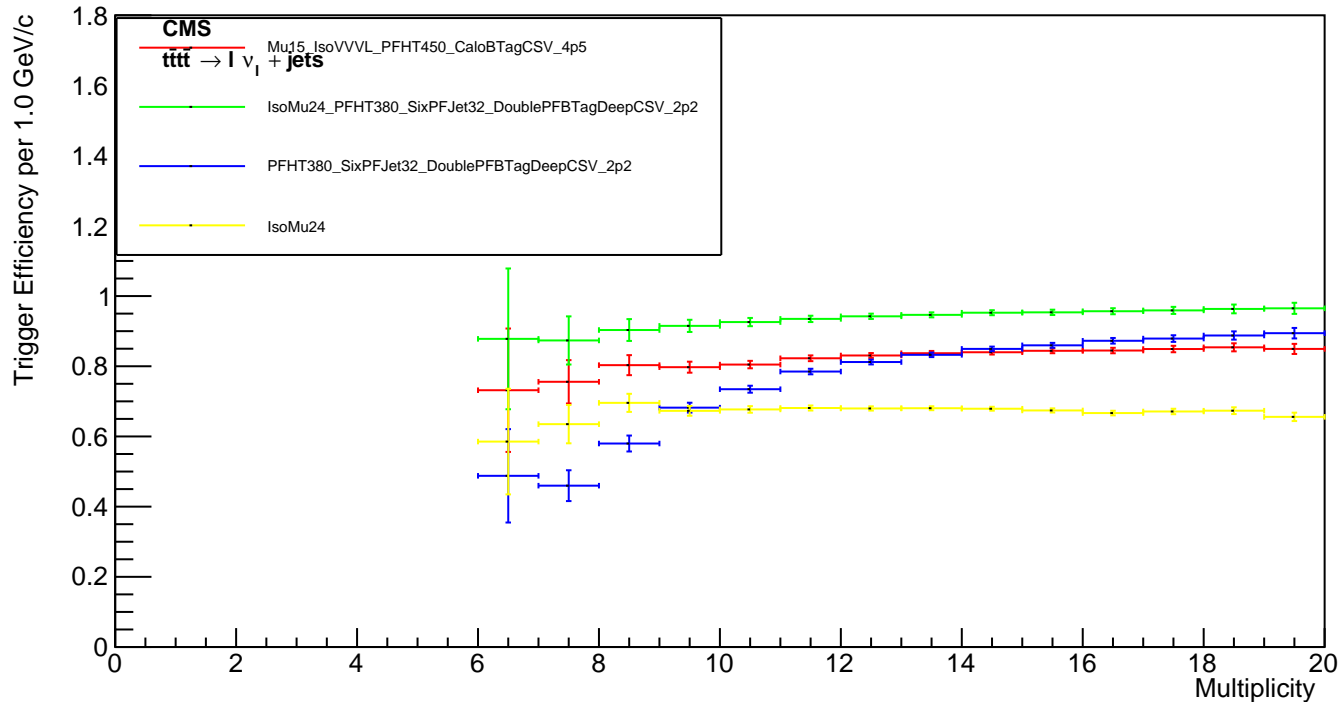
h_jetHt_notrigger	
Entries	252720
Mean	1136
Std Dev	411.2

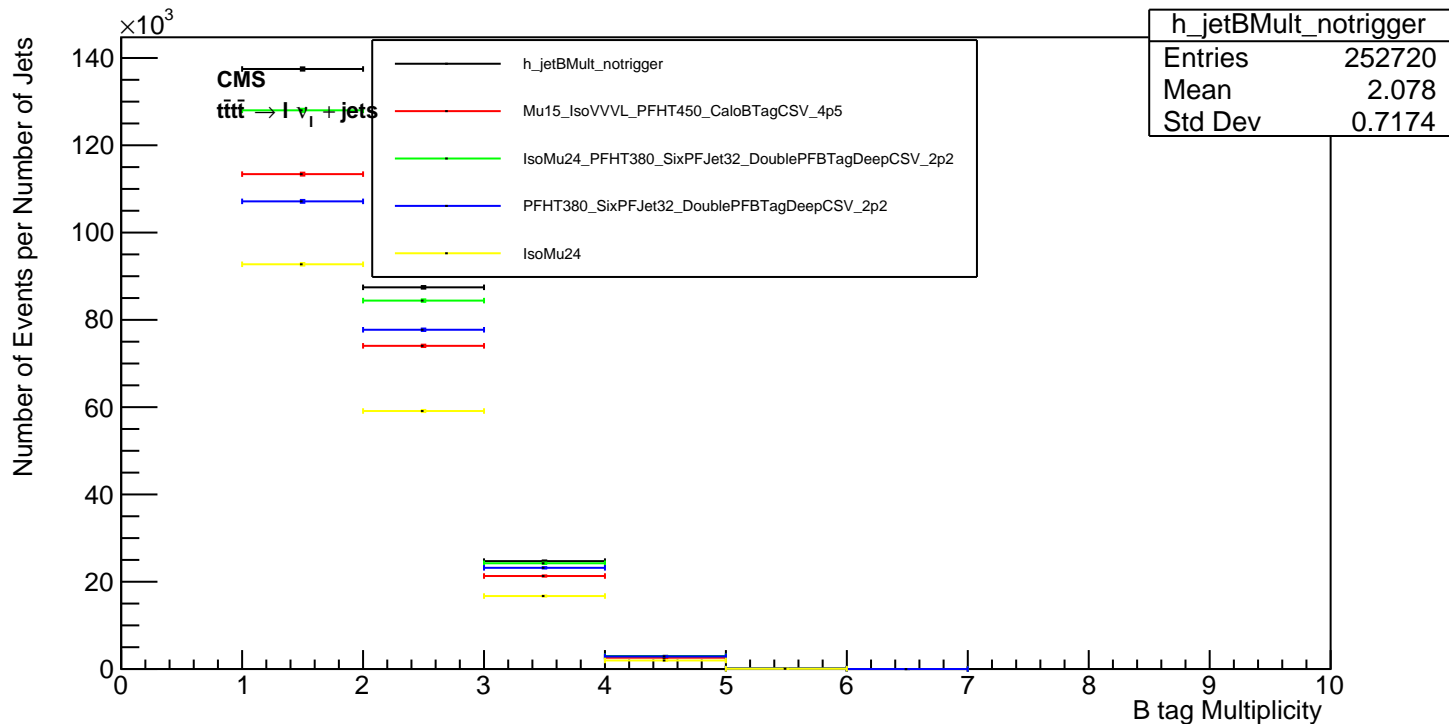


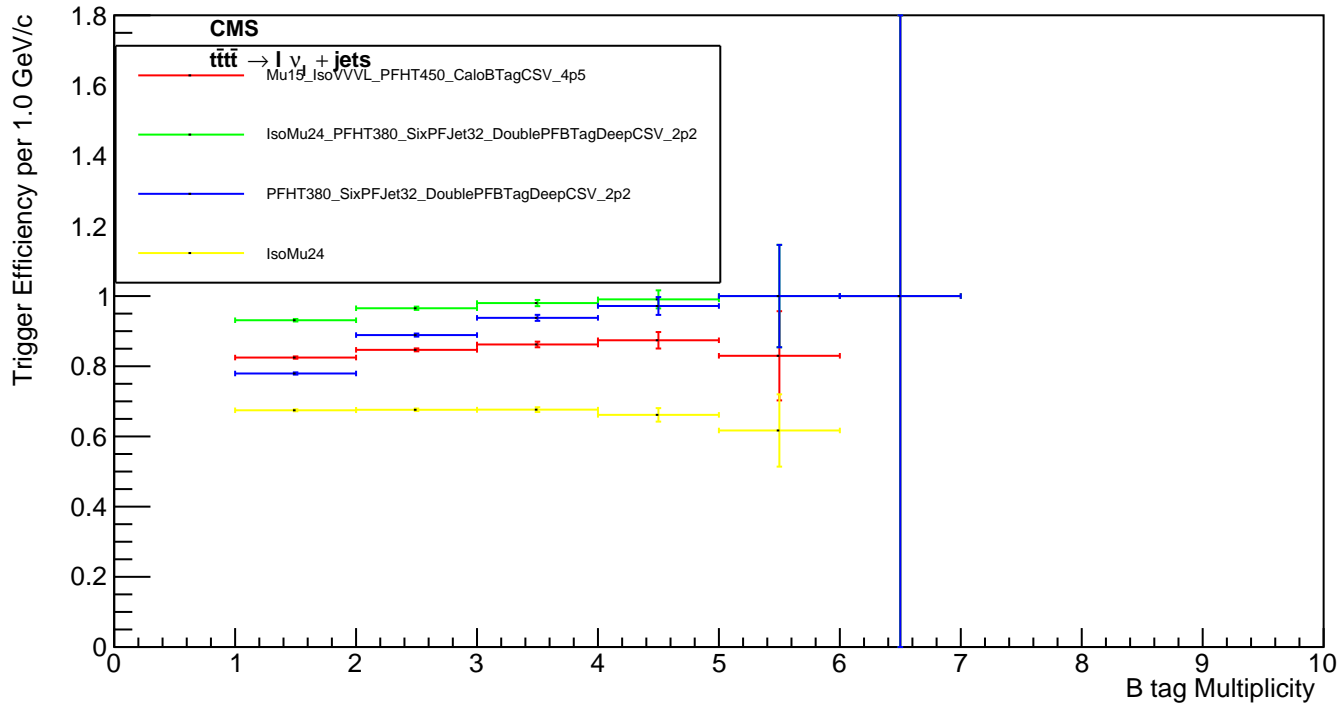


Number of Events per Number of Jets





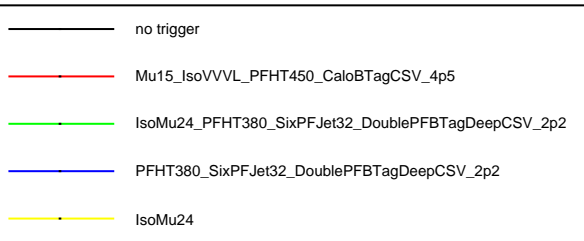




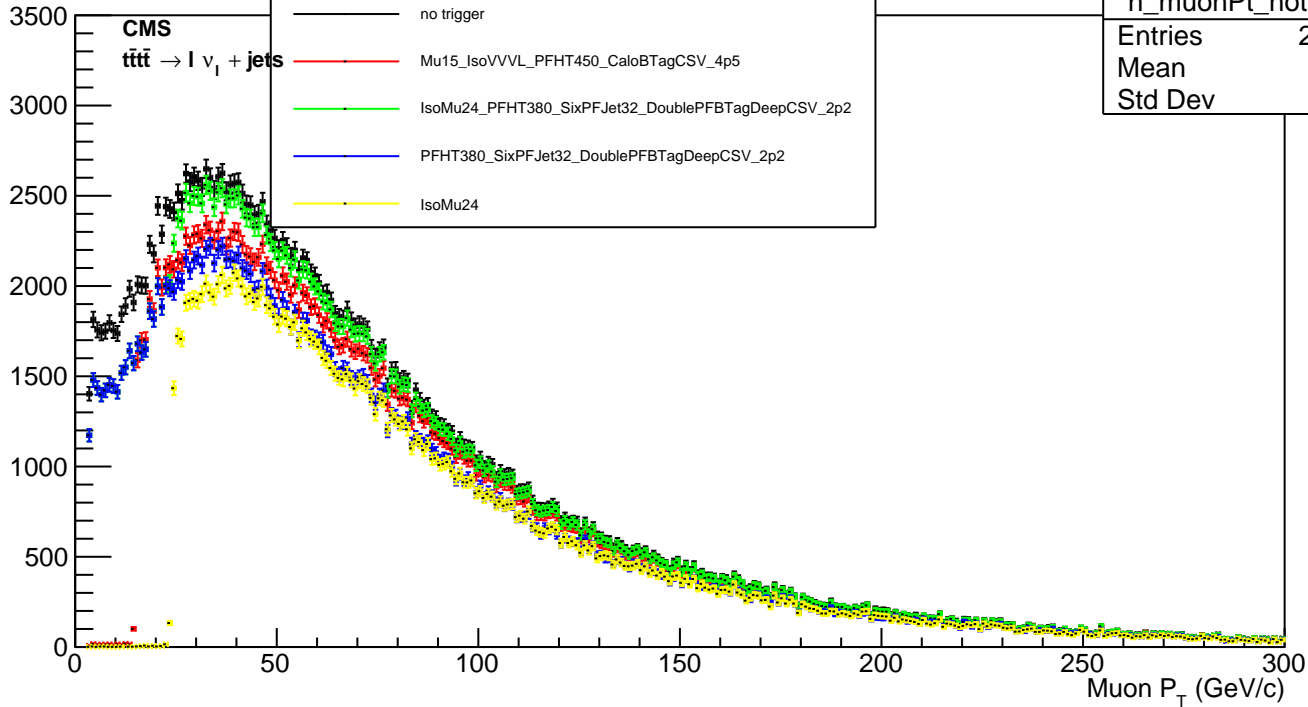
no trigger

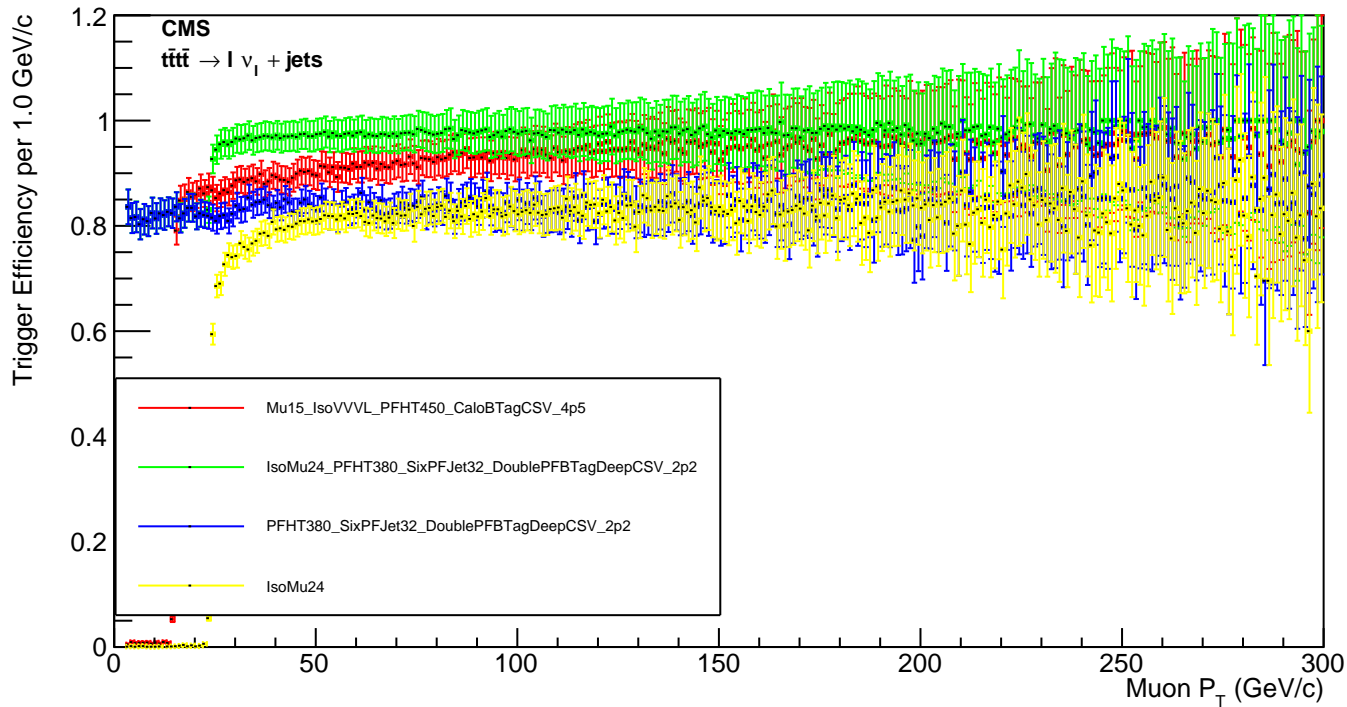
Number of Events per 1 GeV/c

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

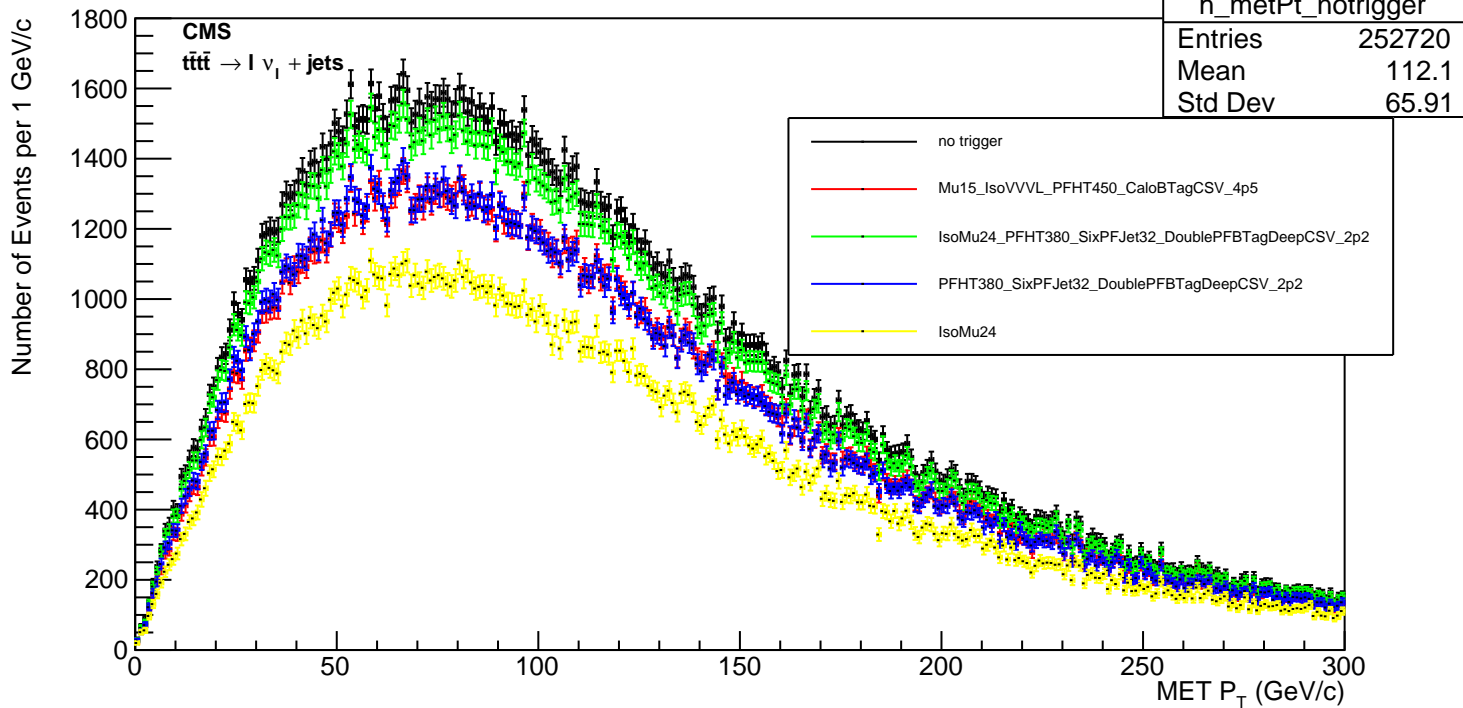


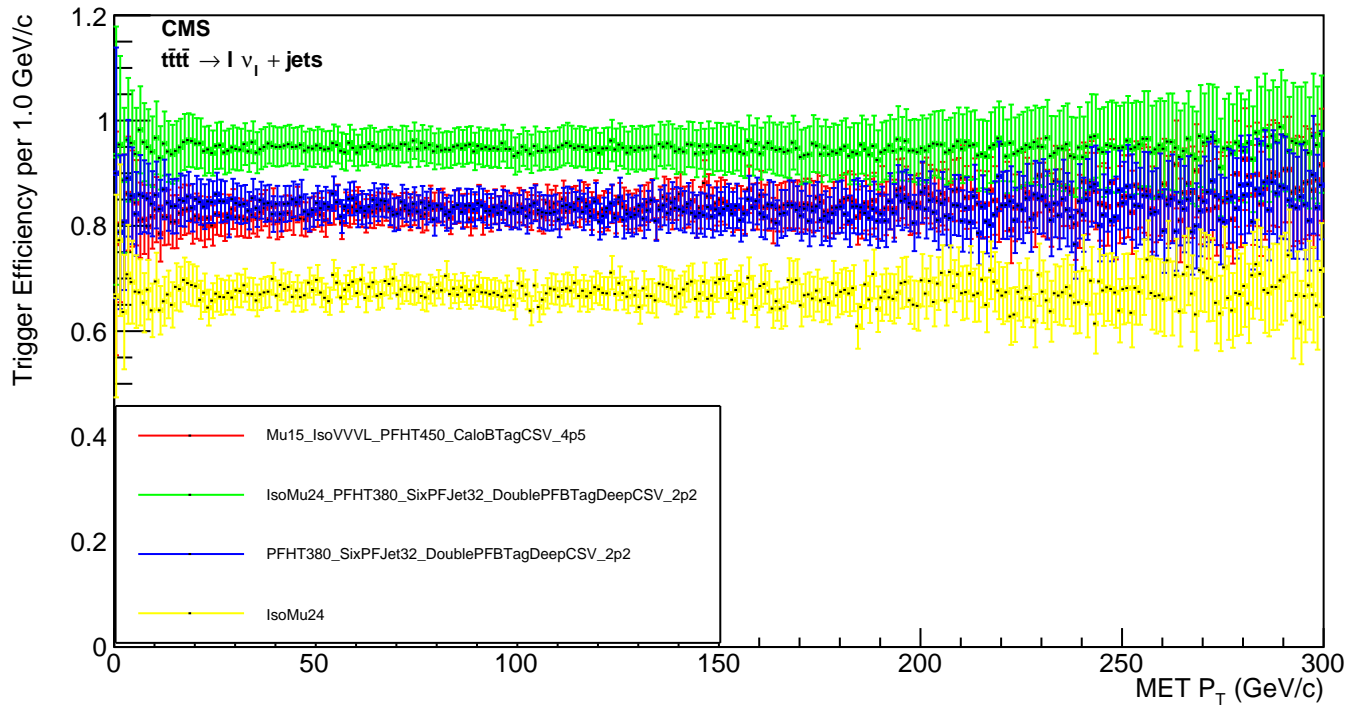
h_muonPt_notrigger	
Entries	252720
Mean	72.96
Std Dev	55.72





no trigger

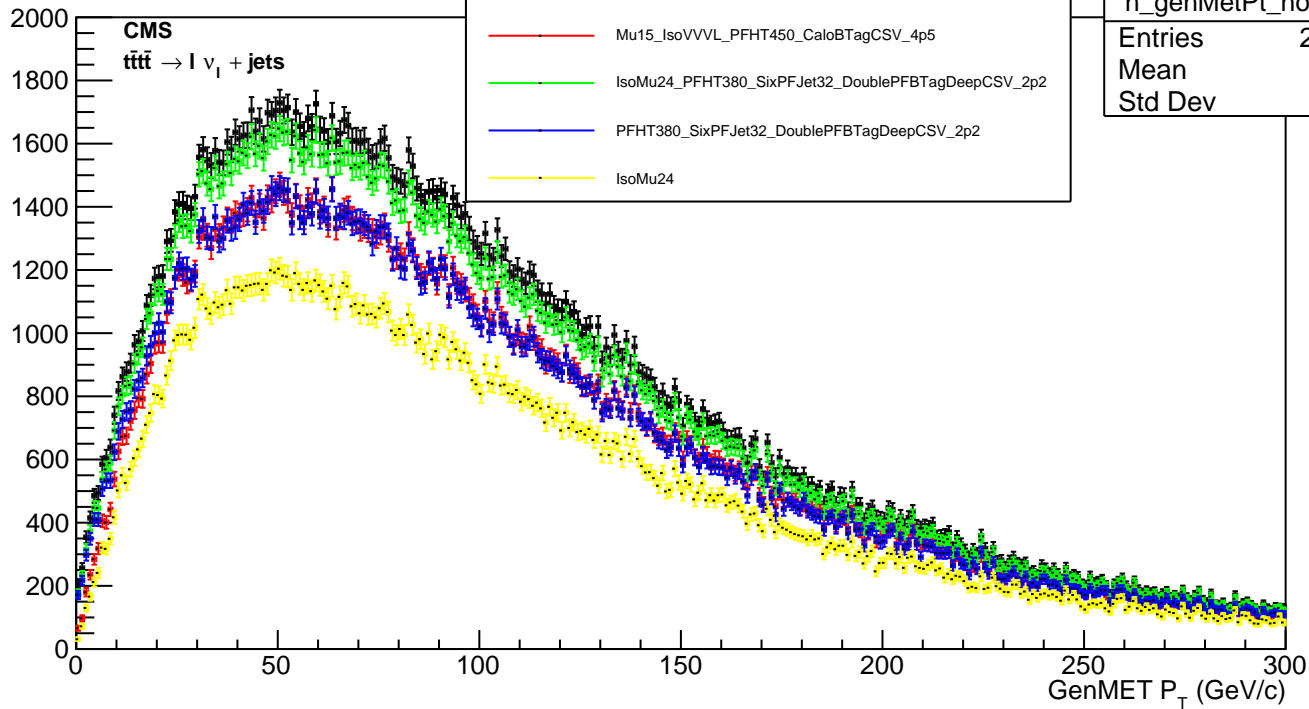




Number of Events per 1GeV/c

CMS

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



h_genMetPt_notrigger

Entries 252720

Mean 101.8

Std Dev 66.1

