

### On-line (pre-)selection Requisites for:

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

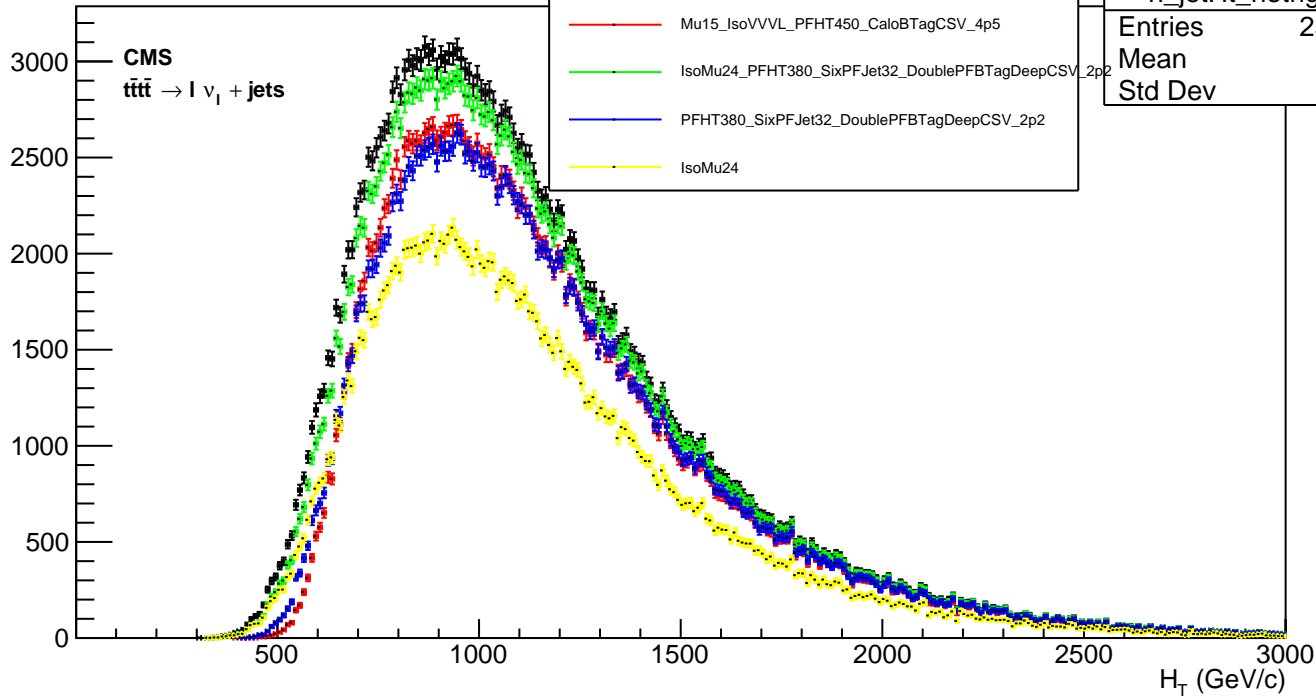
**Event Limit:** None (see last page)

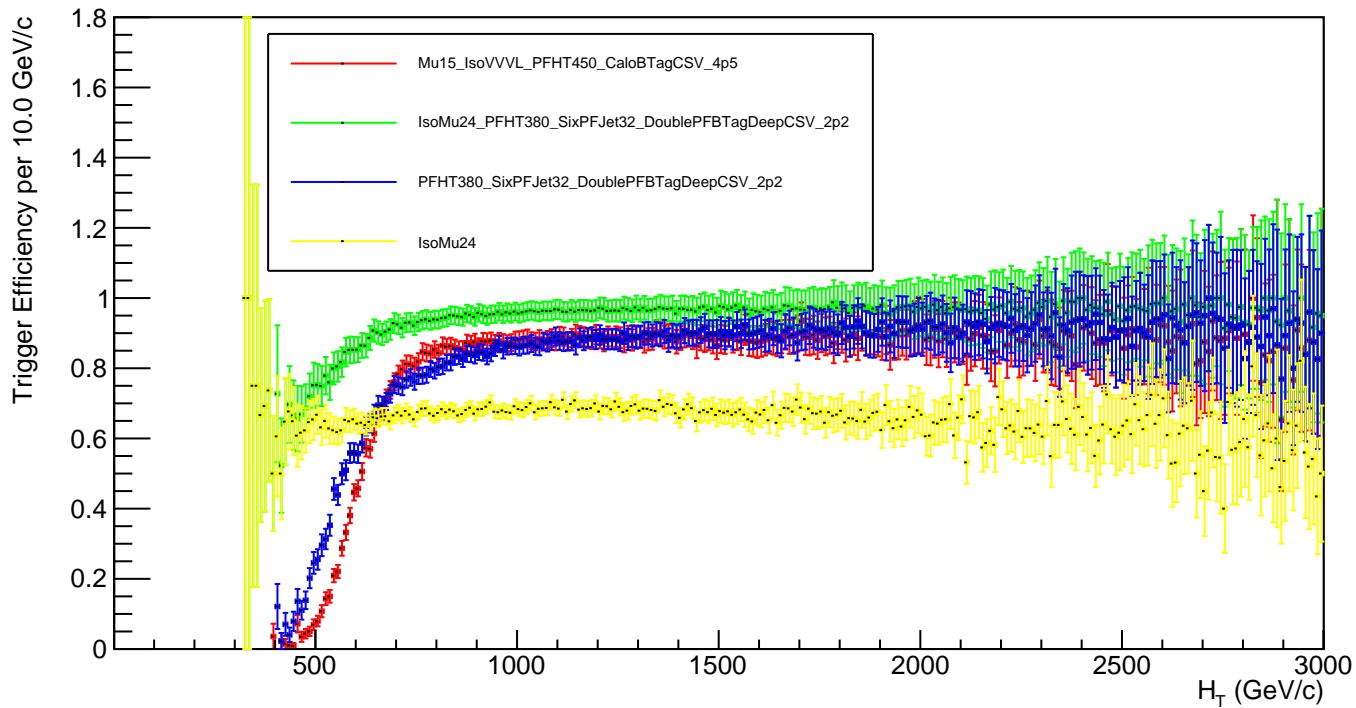
### Off-line (post-)selection Requisites for:

- **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)

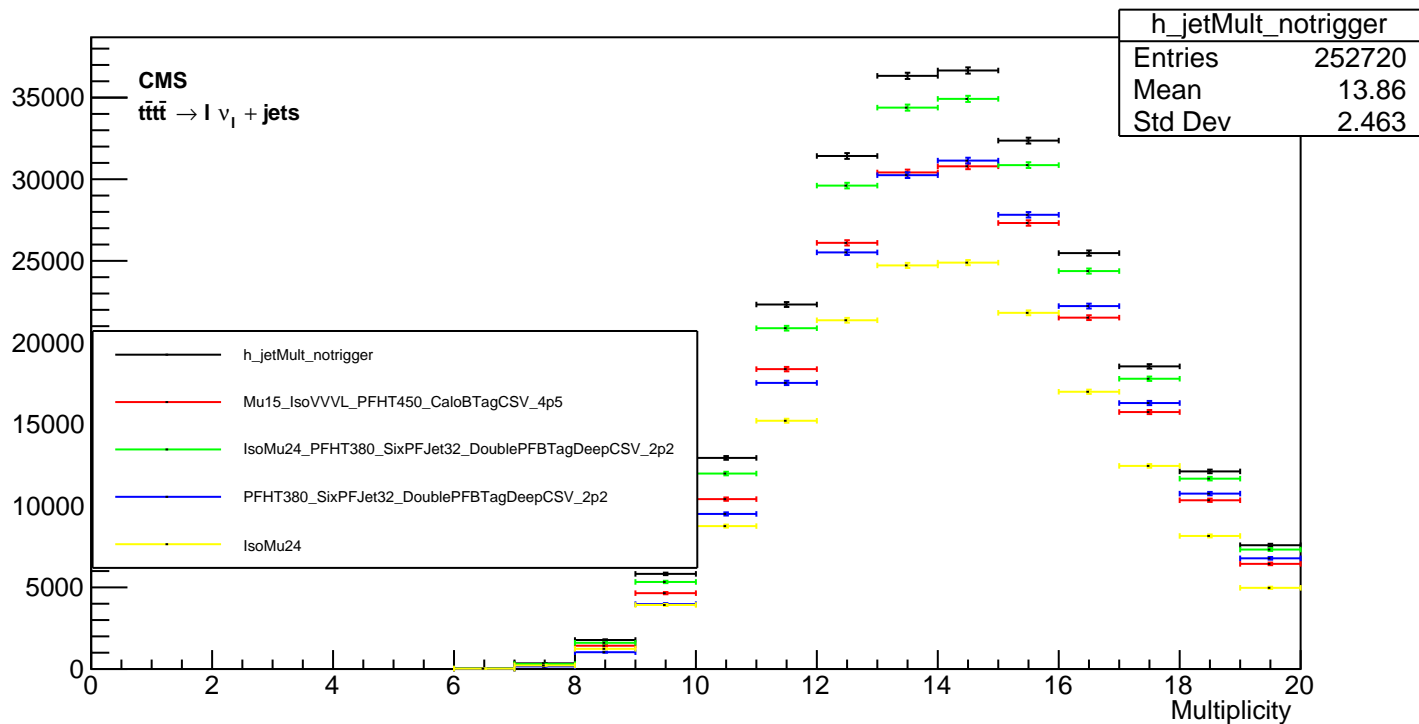
Number of Events per 10 GeV/c

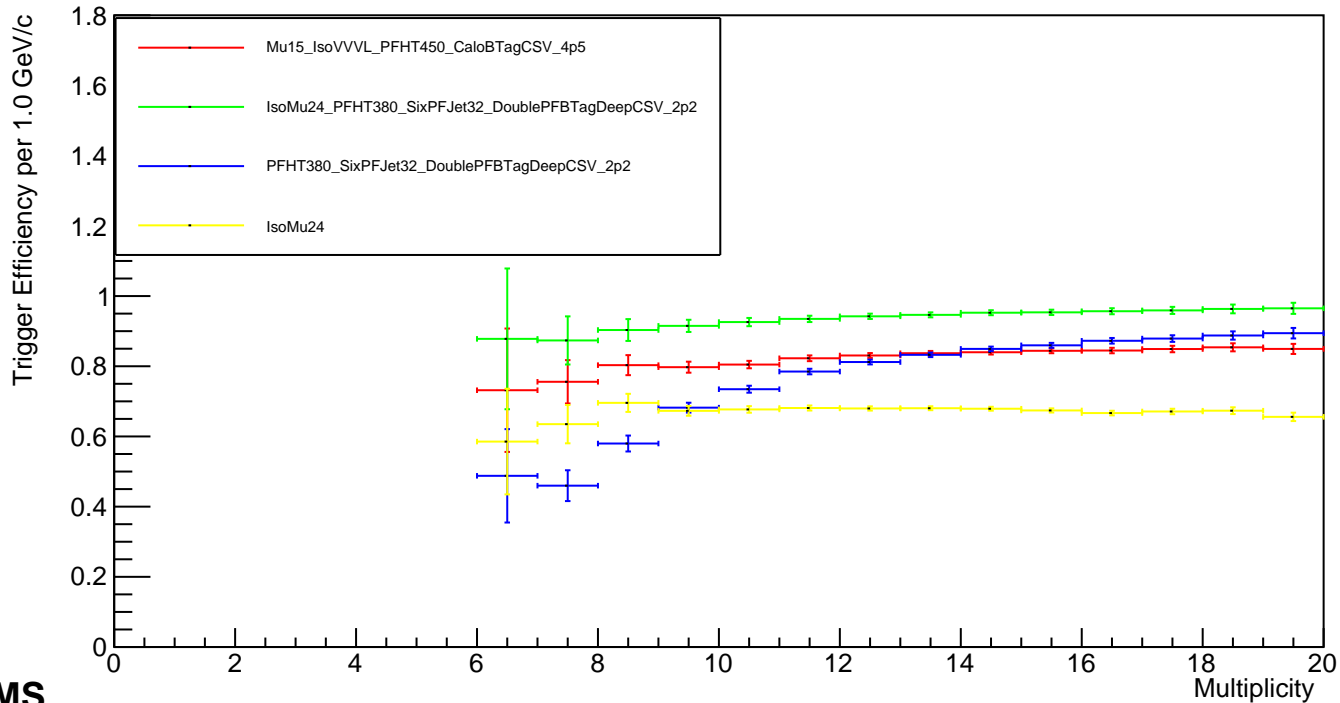
**CMS**  
 **$t\bar{t}t\bar{t} \rightarrow l \nu_l + \text{jets}$**

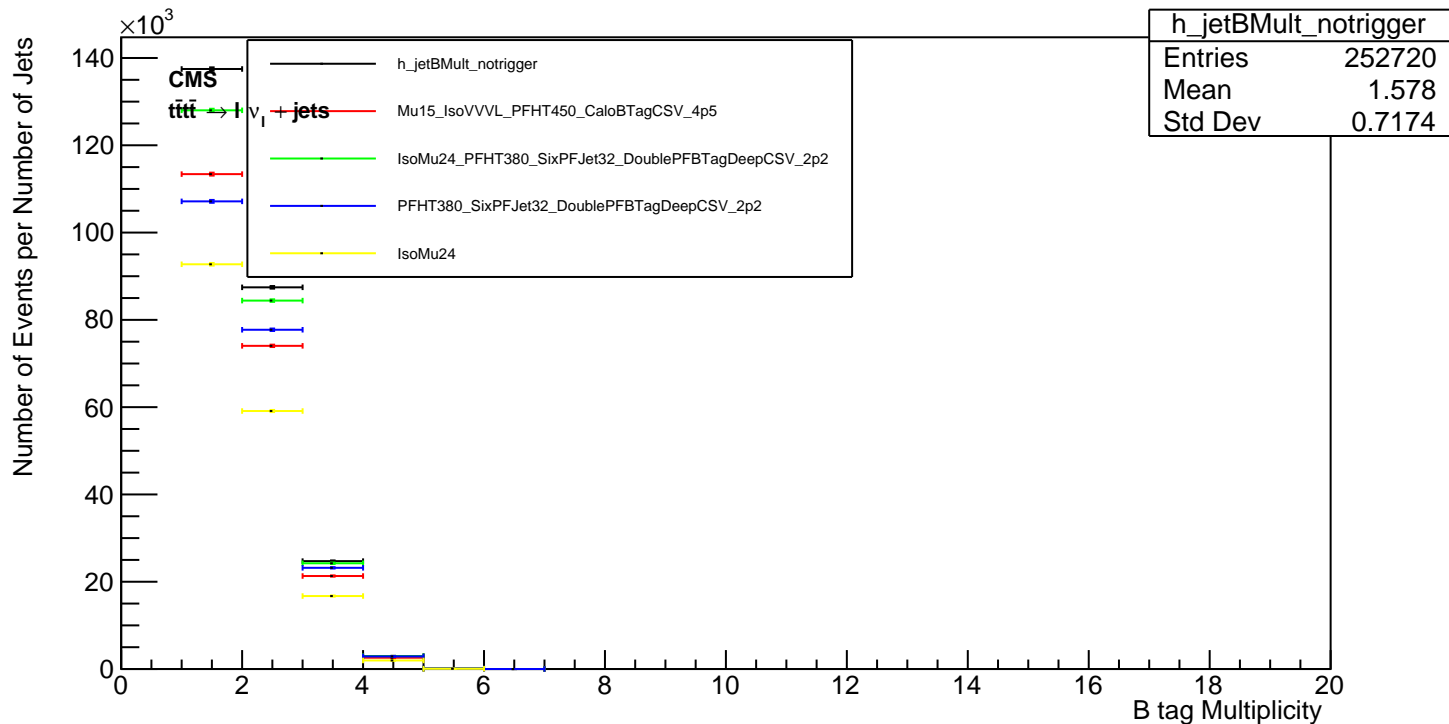


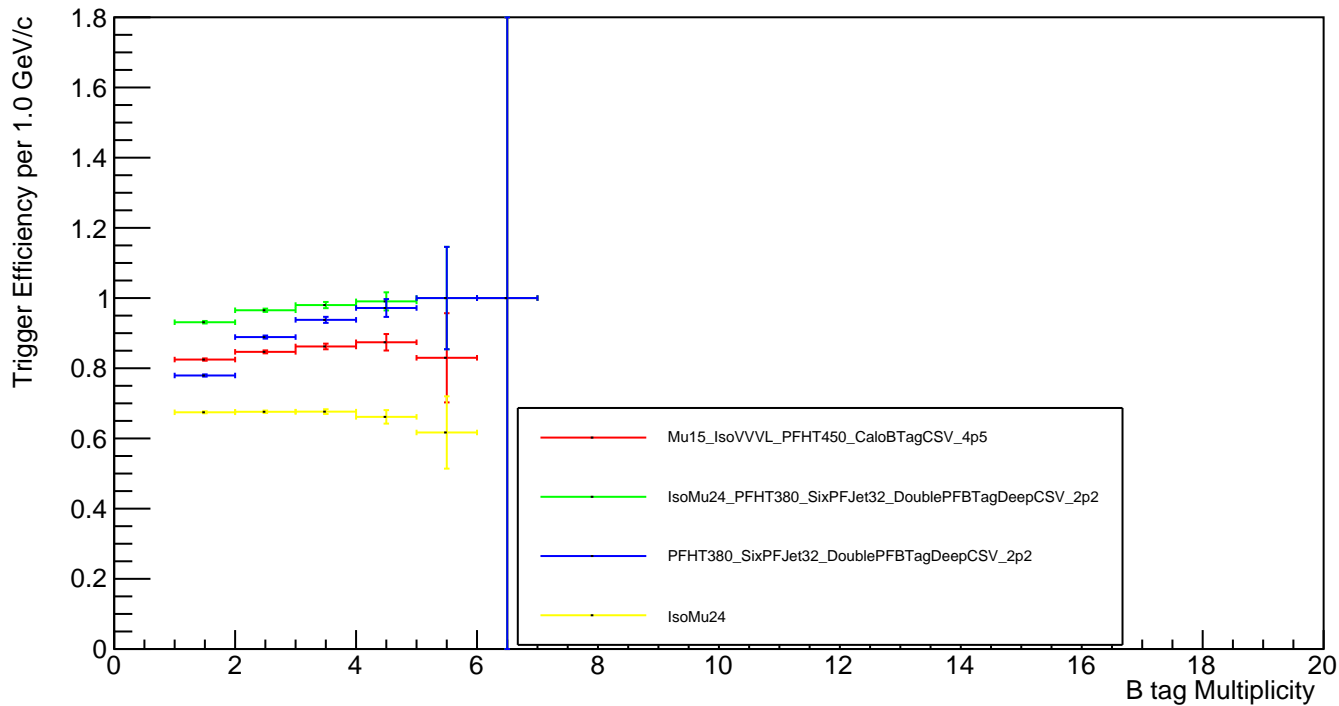


Number of Events per Number of Jets



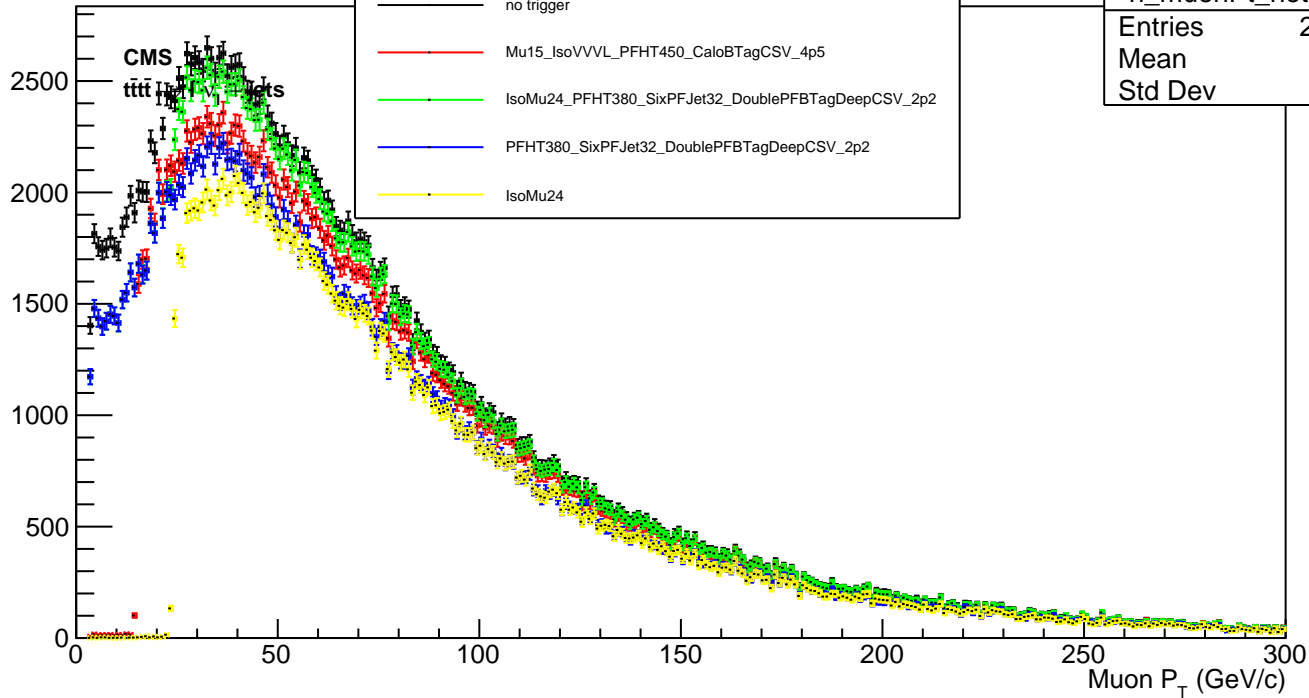






# no trigger

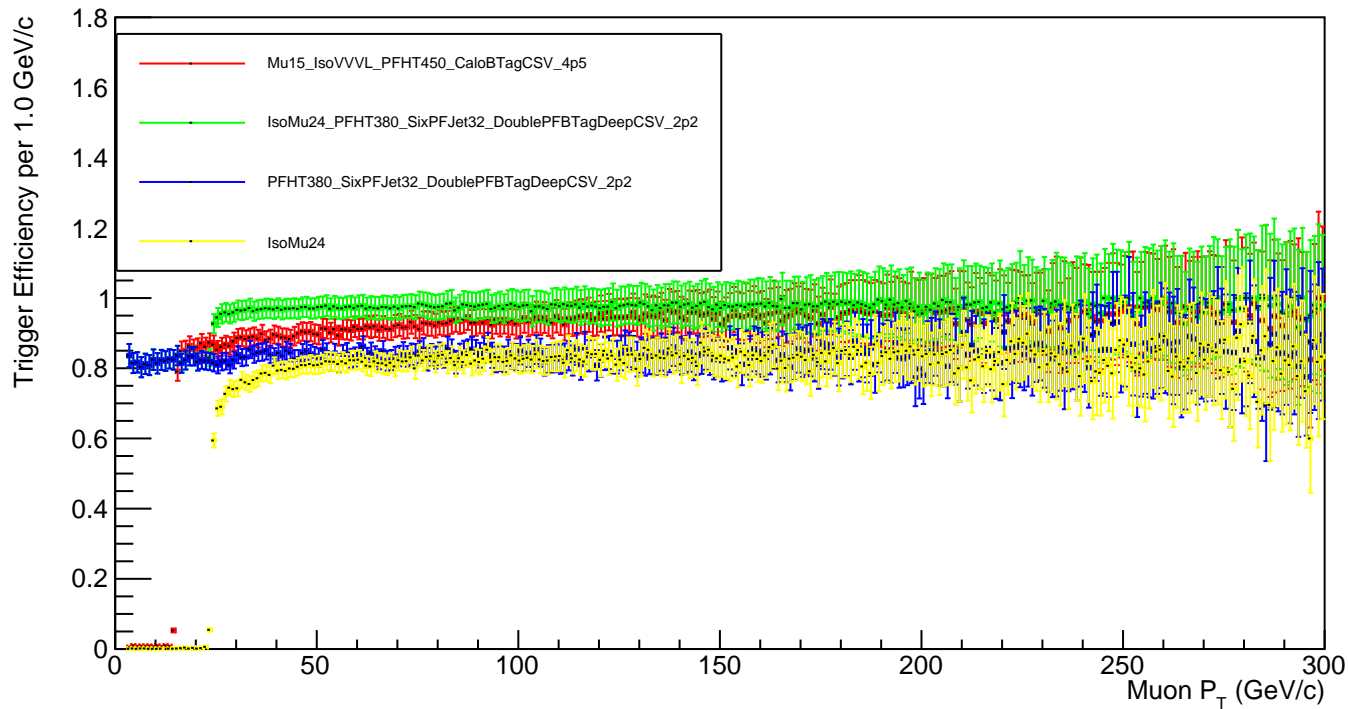
Number of Events per 1 GeV/c



h\_muonPt\_notrigger

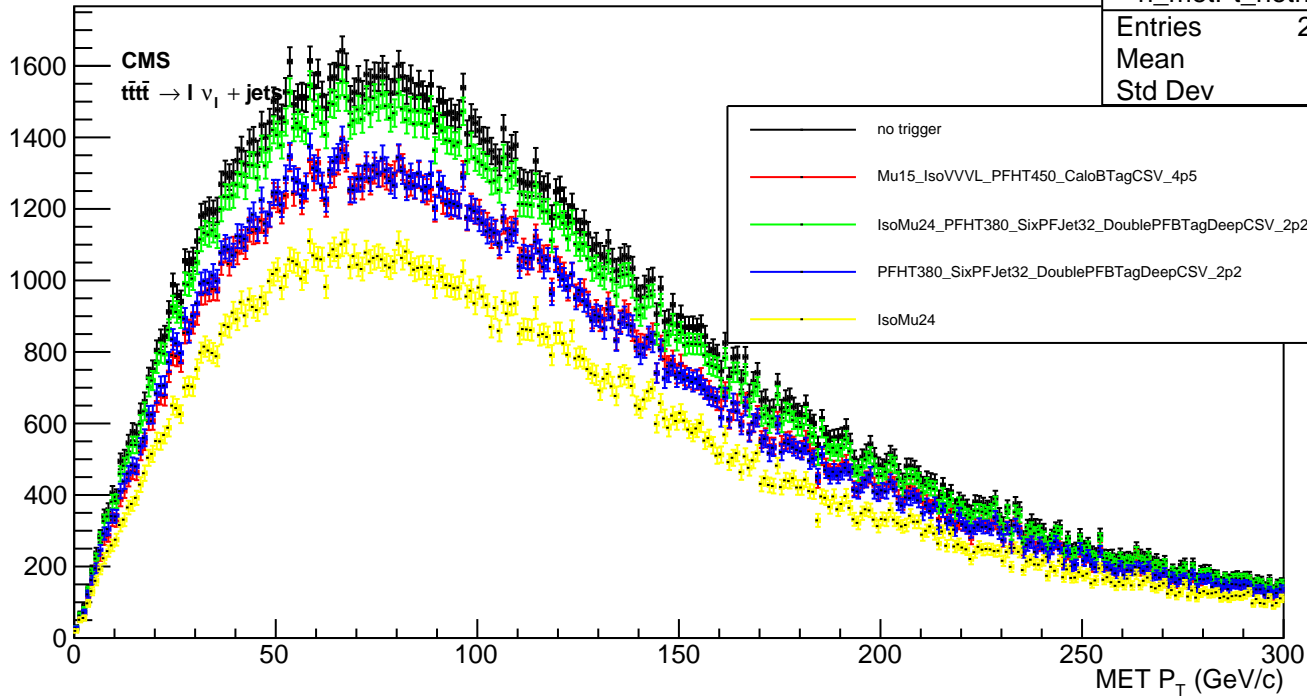
Entries	252720
Mean	72.96
Std Dev	55.72

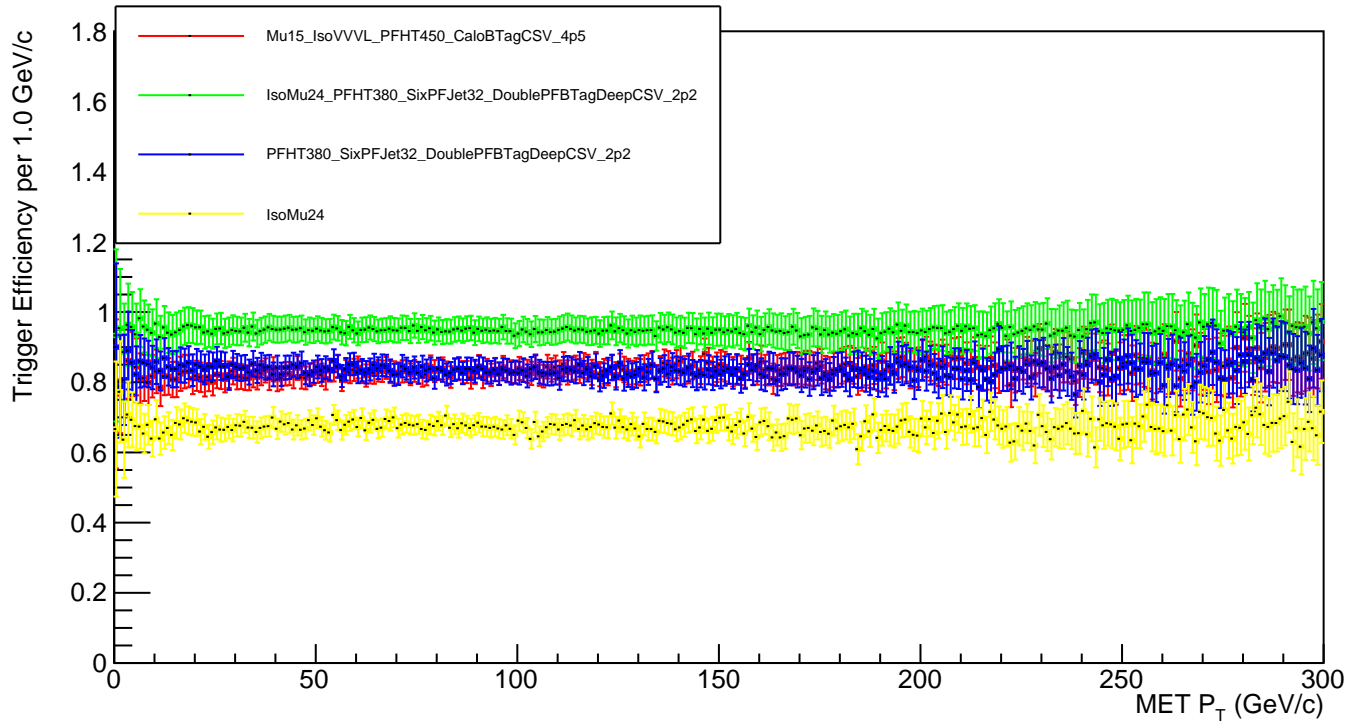




no trigger

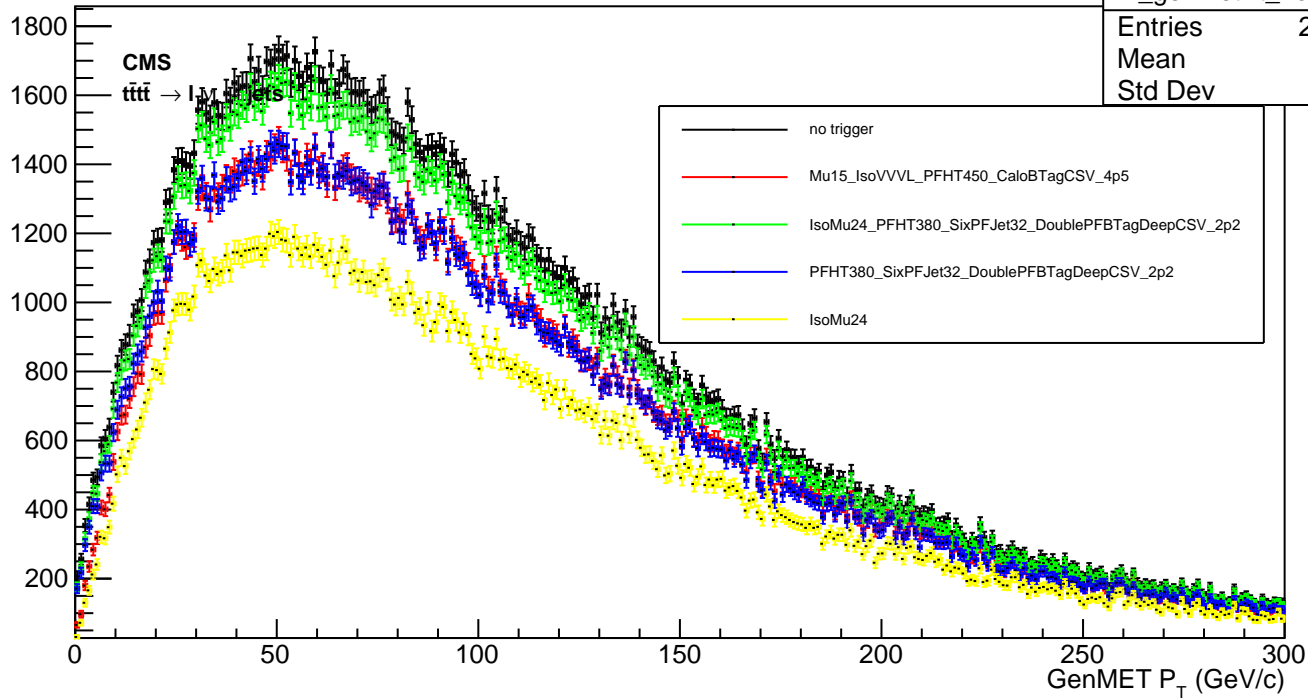
Number of Events per 1 GeV/c





## no trigger

Number of Events per 1GeV/c



h\_genMetPt\_notrigger

Entries 252720

Mean 101.8

Std Dev 66.1

