

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

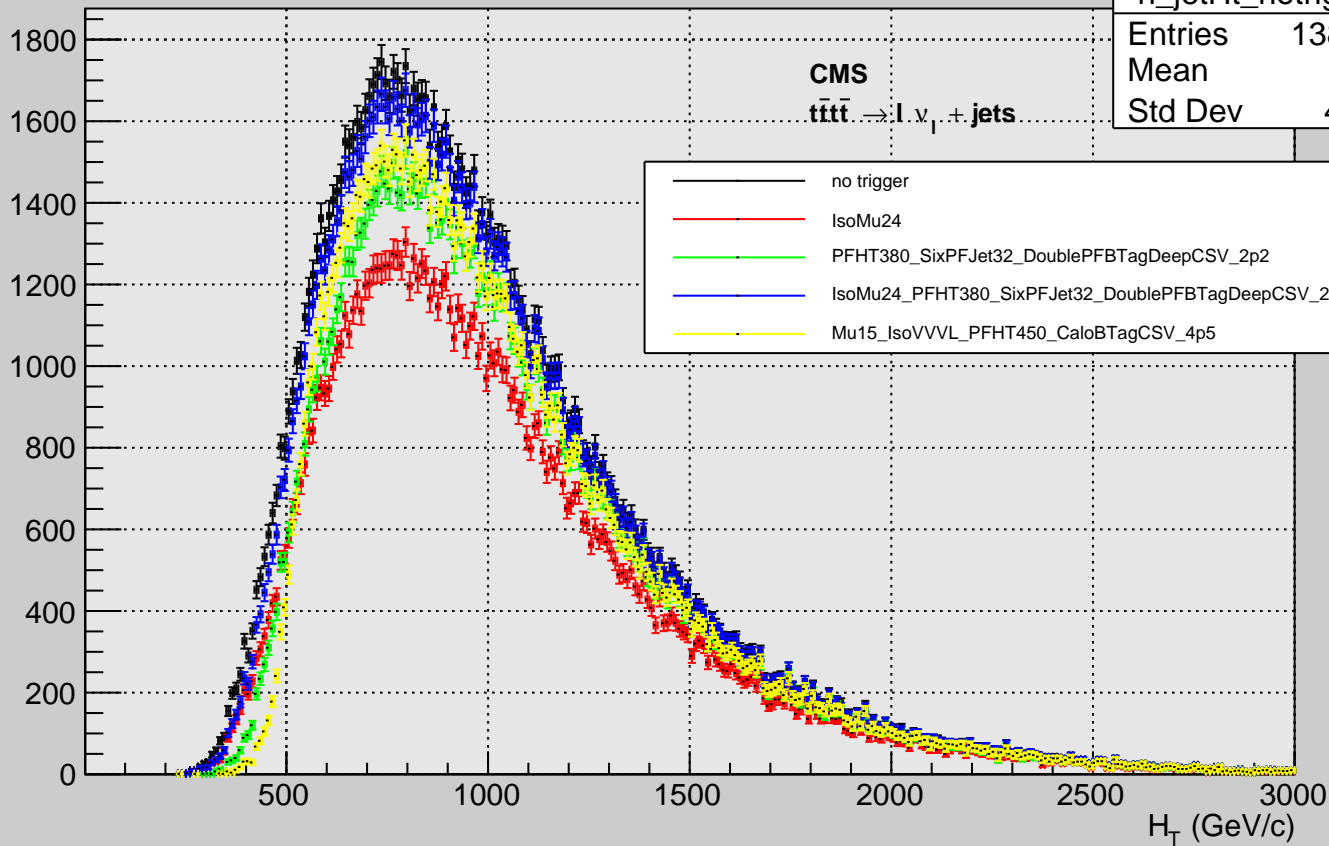
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

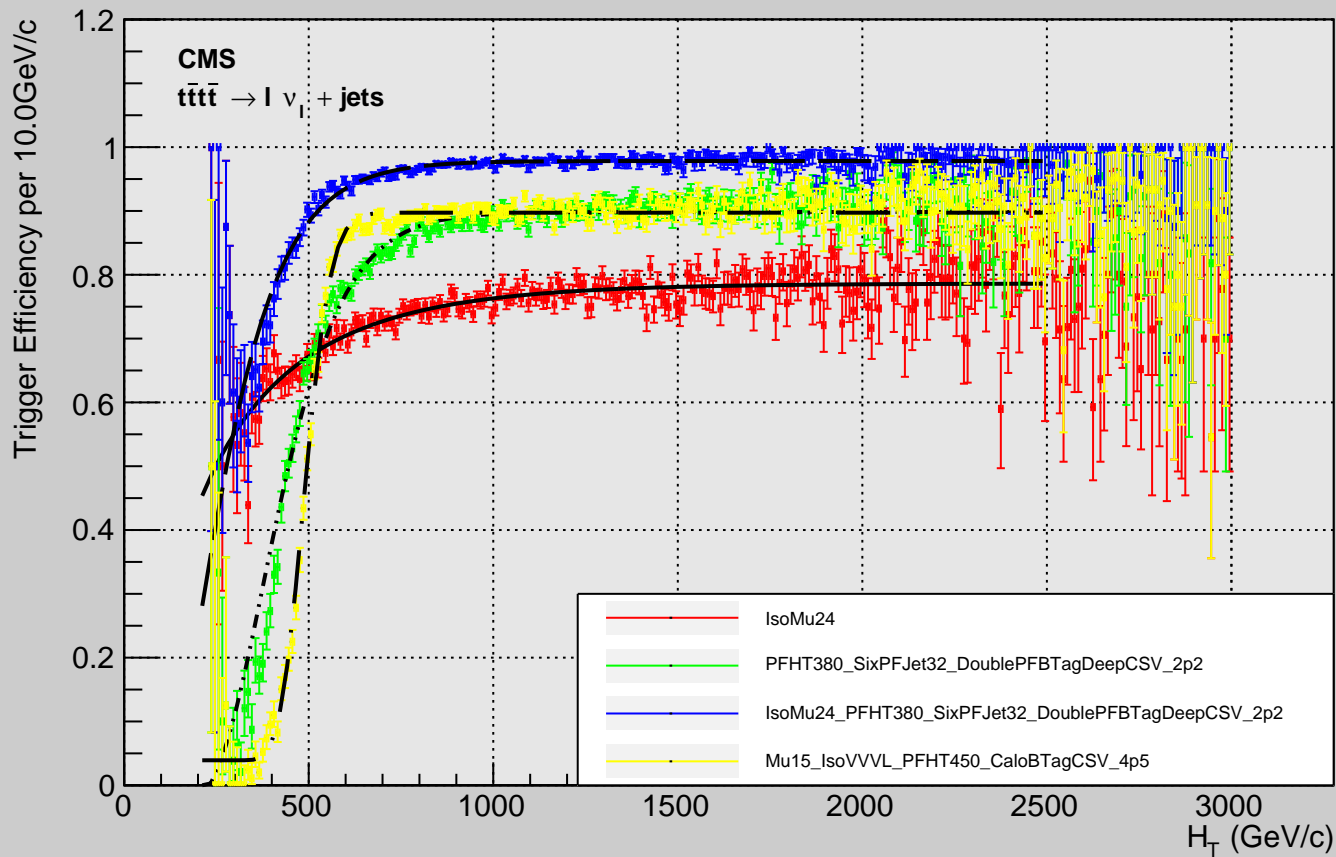
**Event Limit:** None (see last page)

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

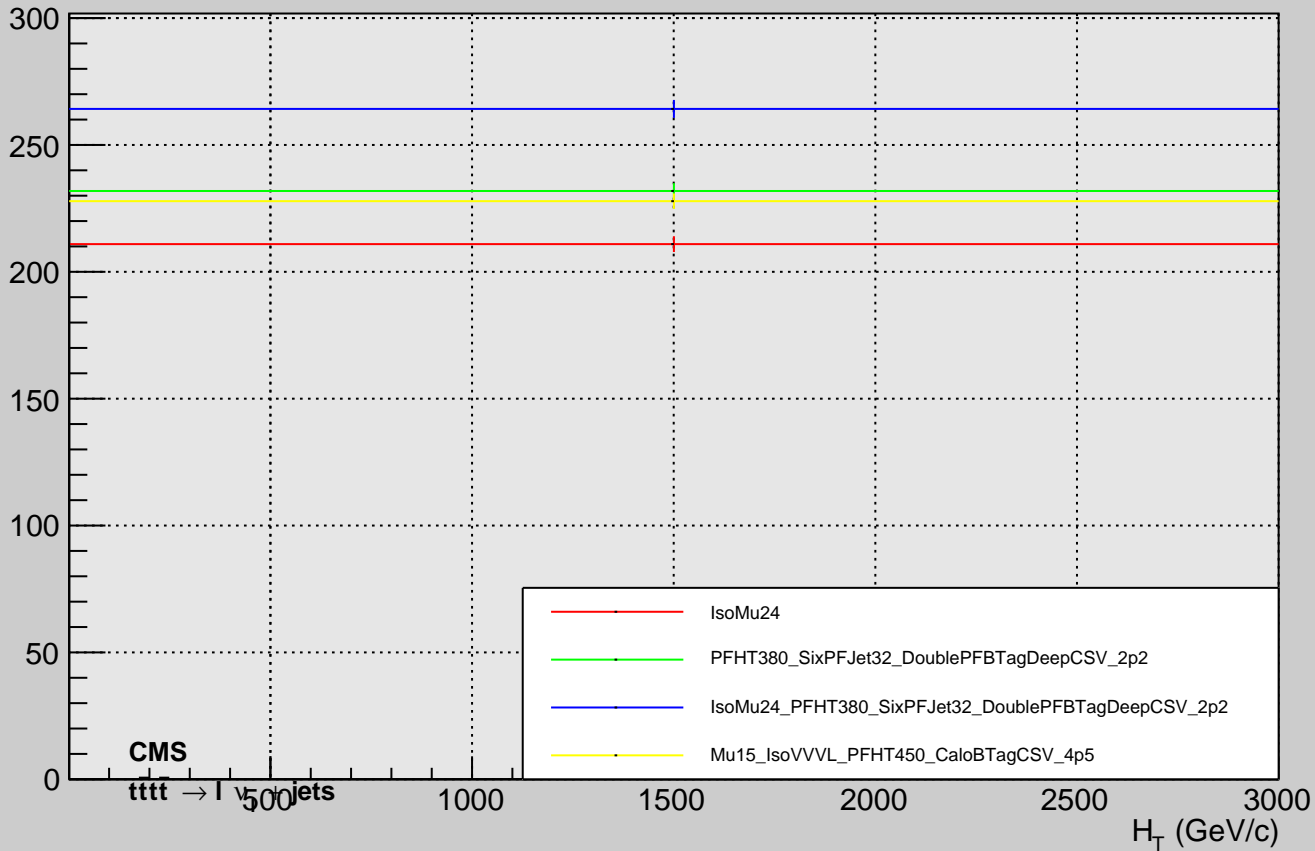
- **Jets:**  $\text{jetId} > 2$  ,  $p_T > 30$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{miniPFRellso\_all} < 0.15$  (for at least 1)

Number of Events per 10 GeV/c

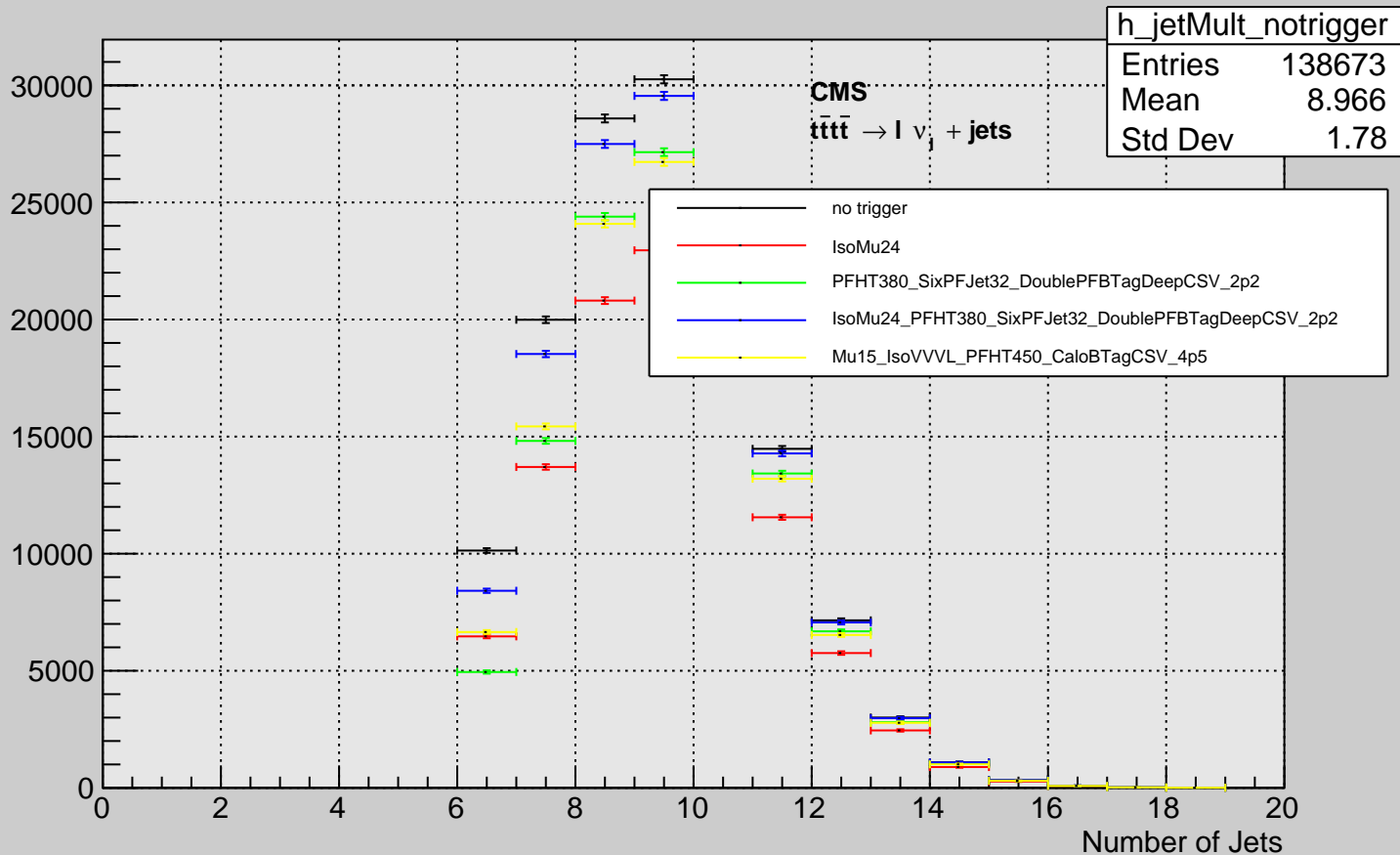


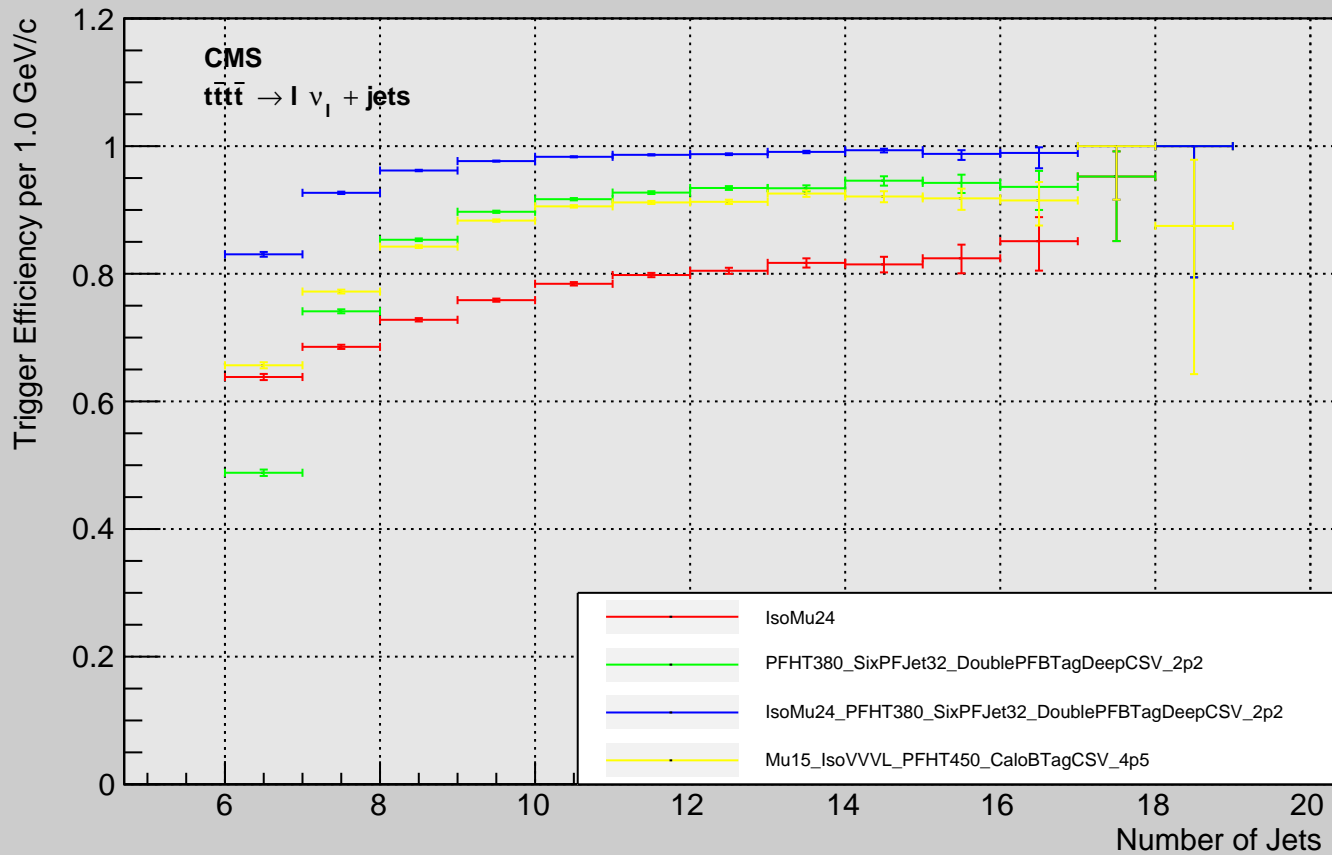


Trigger Efficiency per 10.0 GeV/c

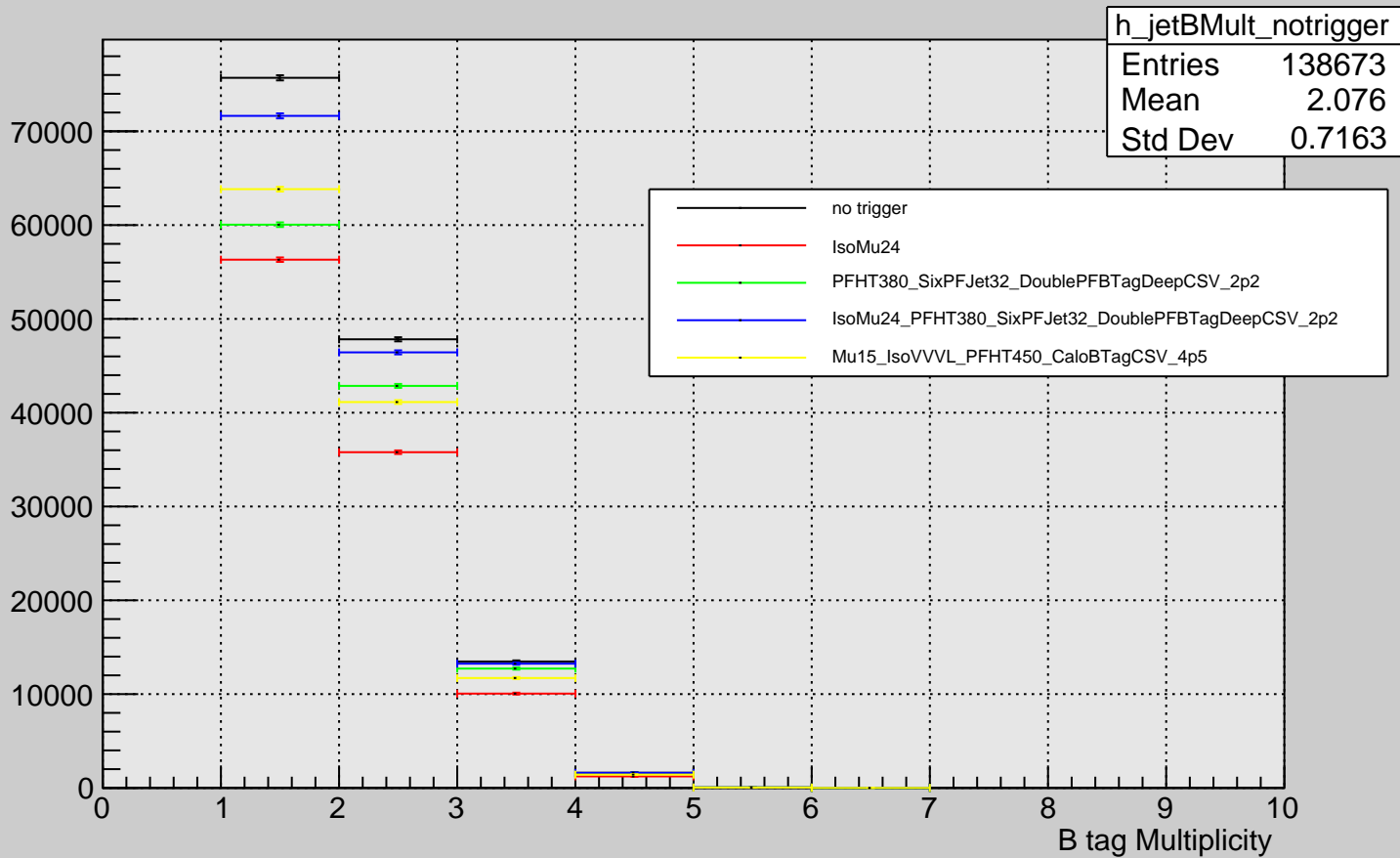


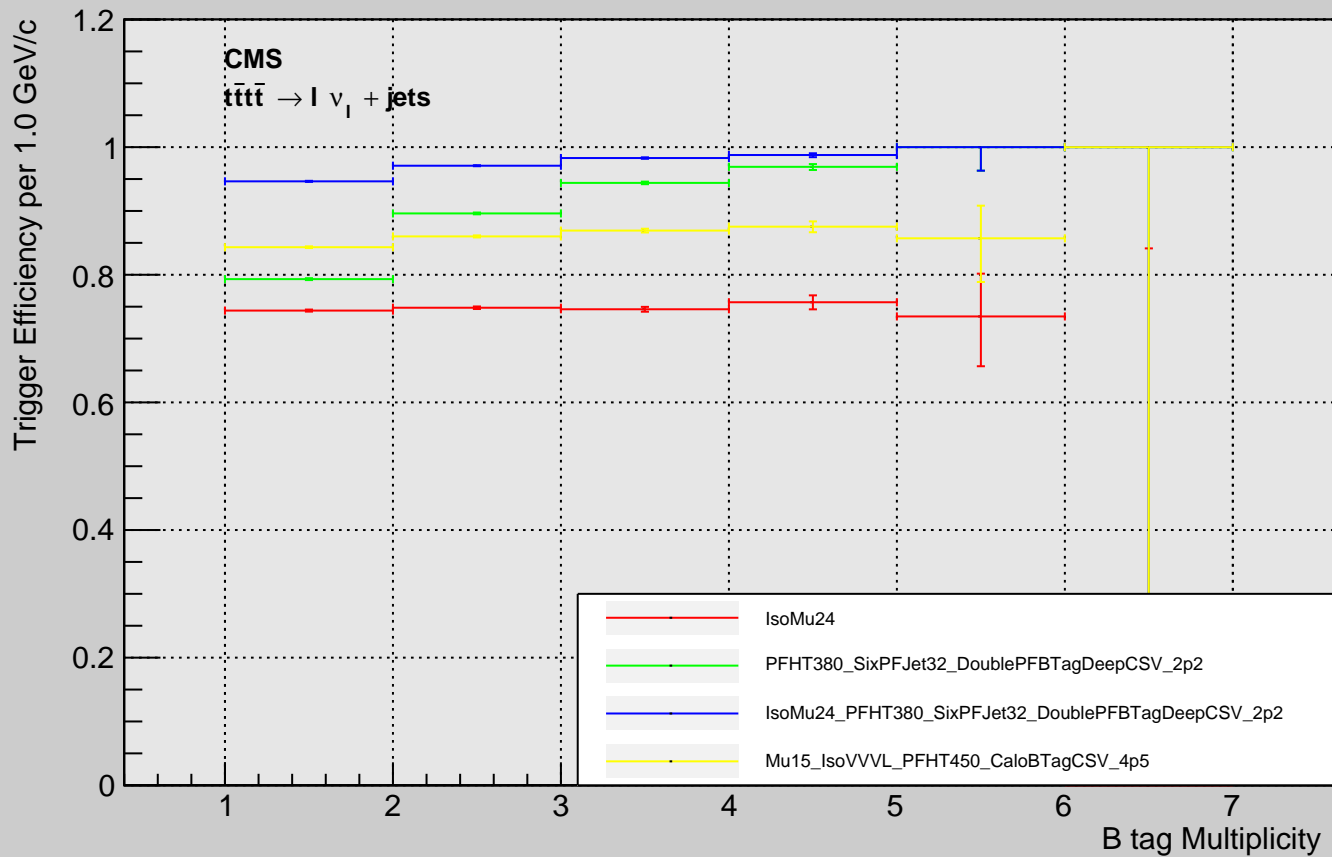
Number of Events per Number of Jets



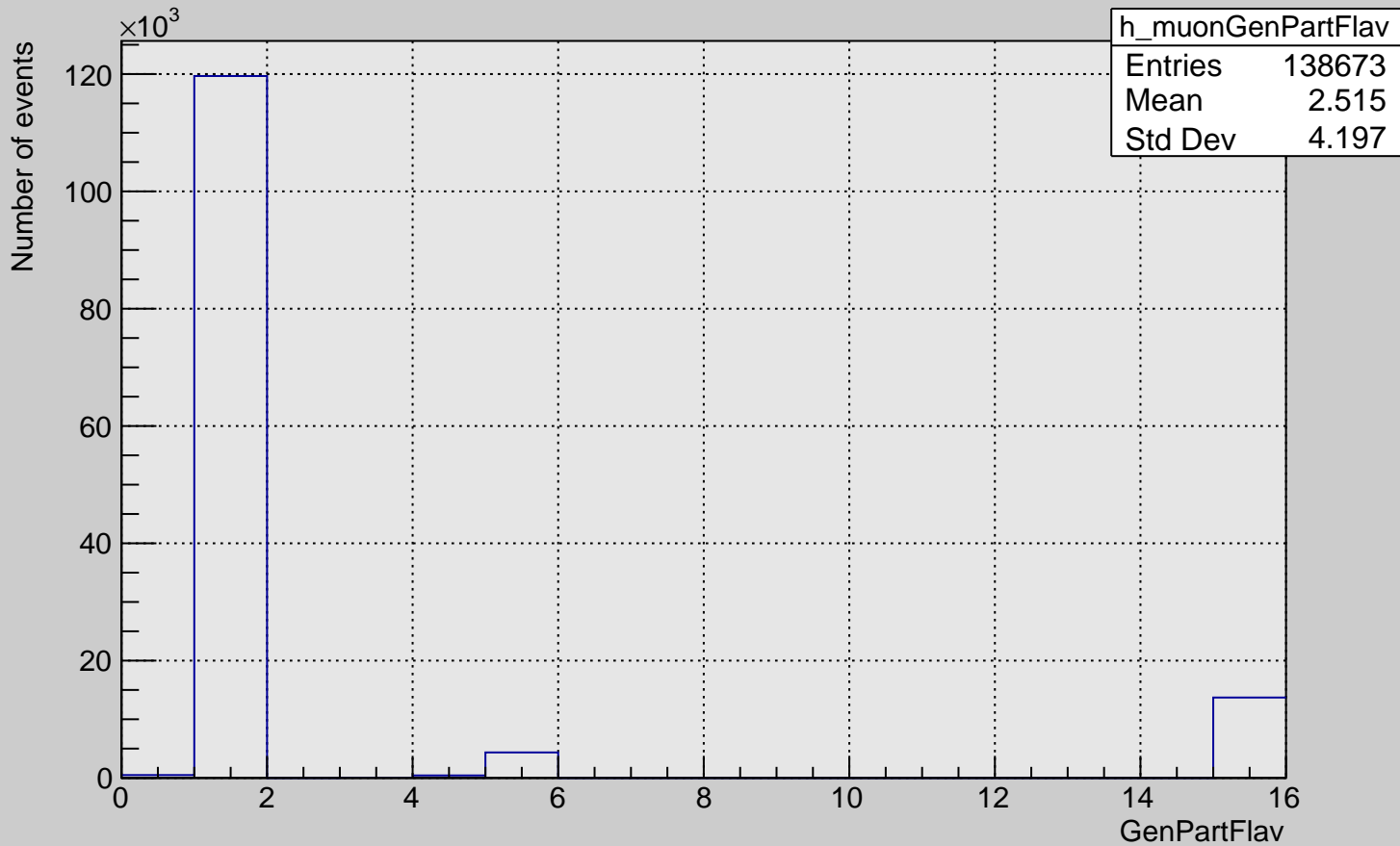


Number of Events per Number of Jets

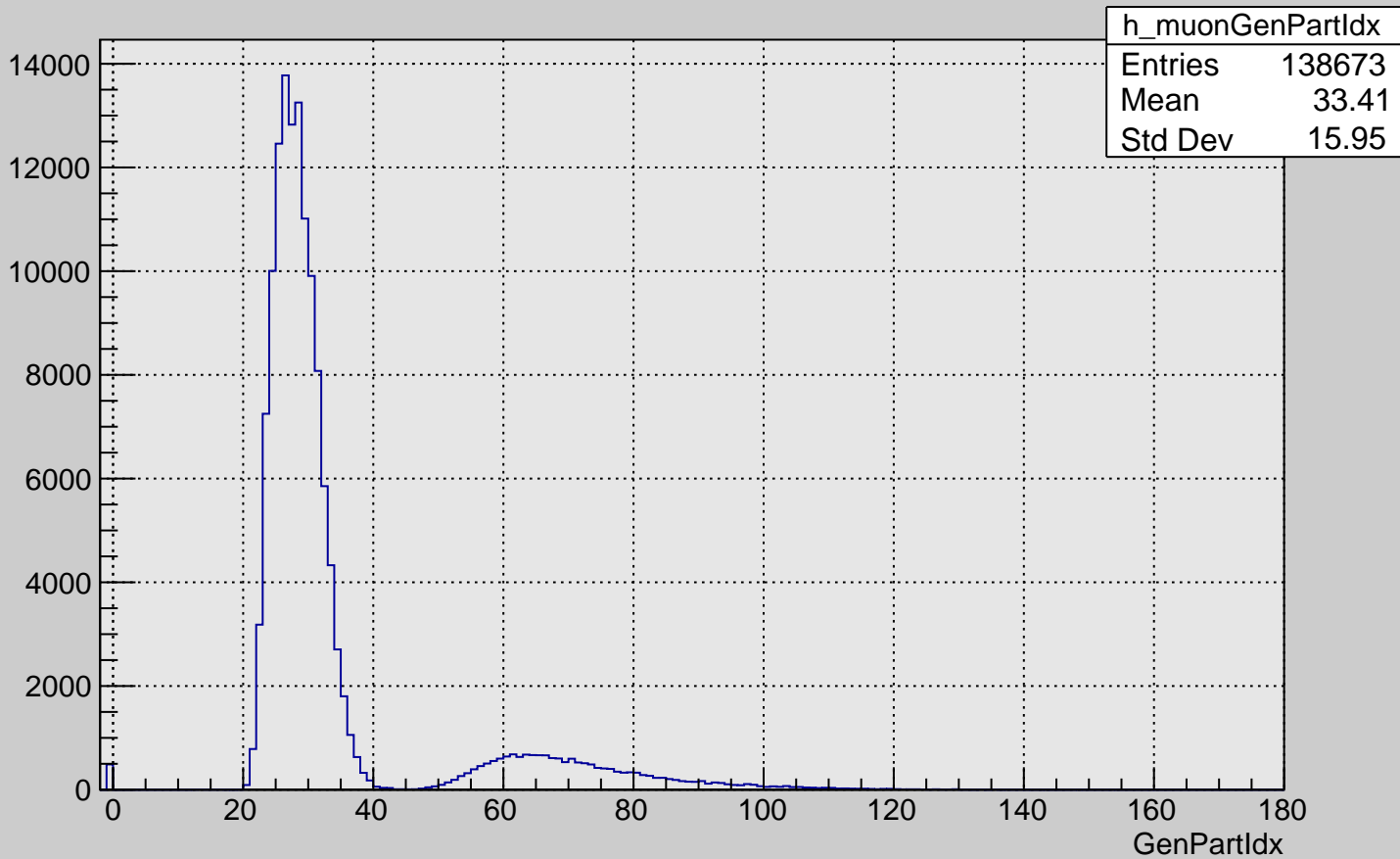


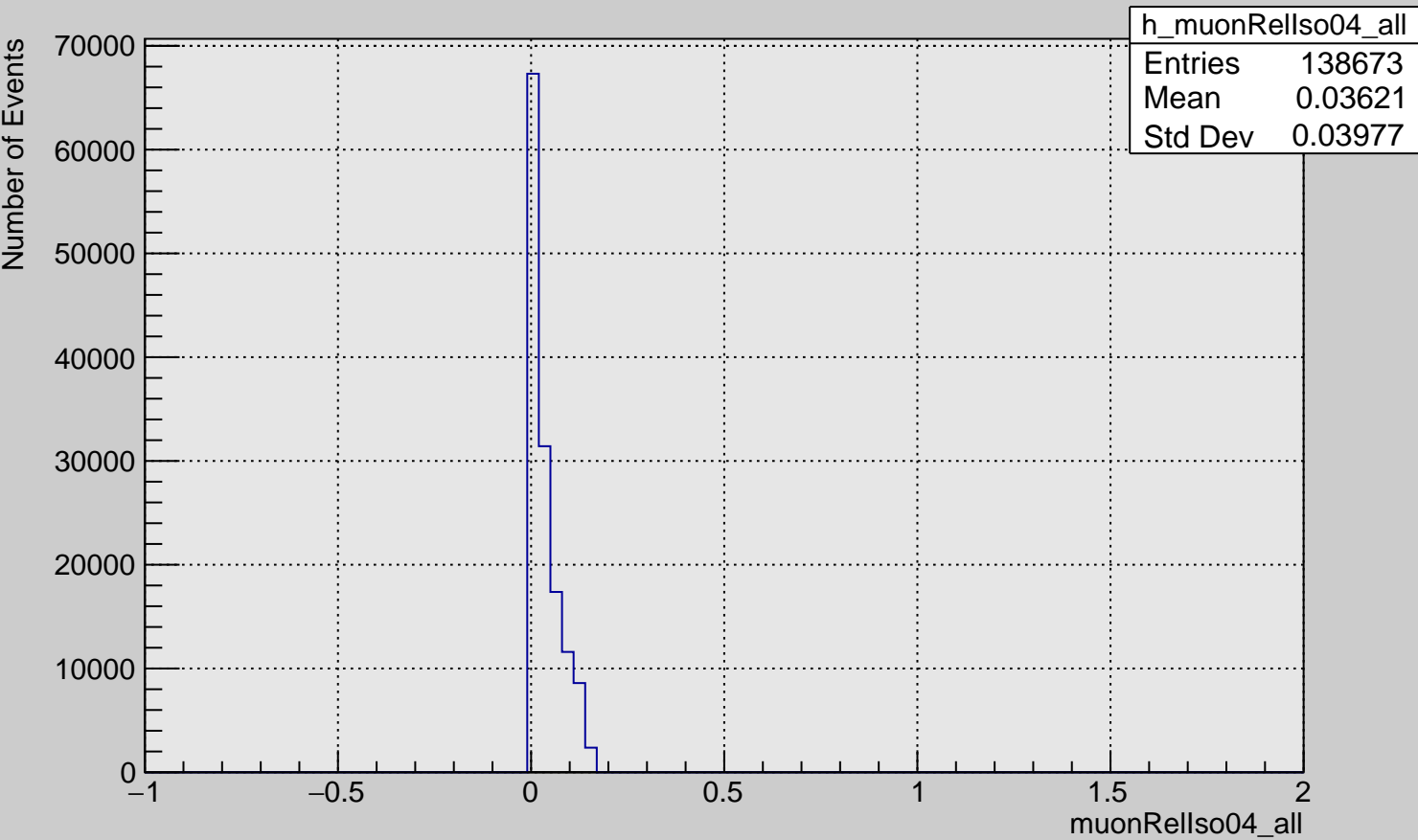




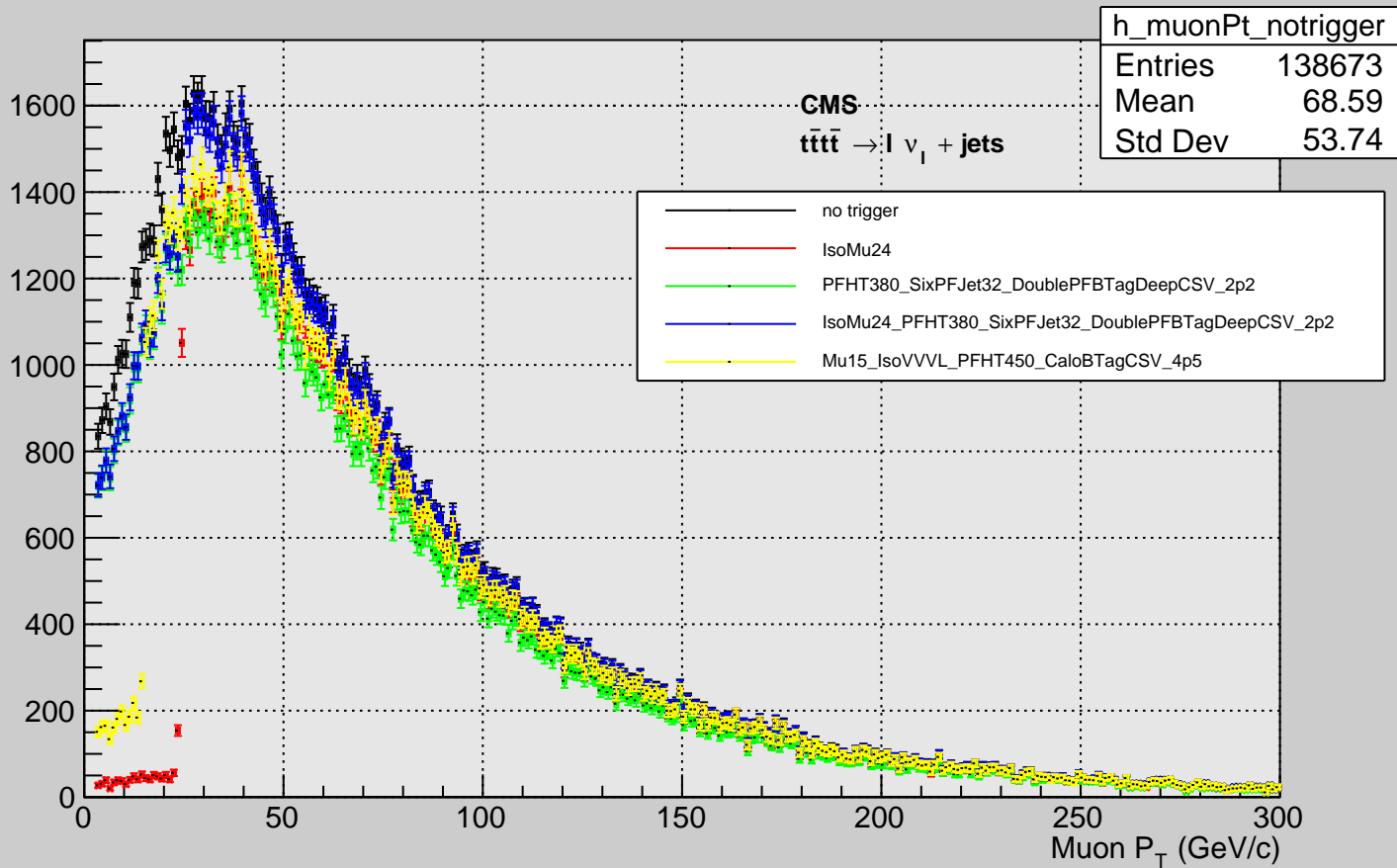


Number of events

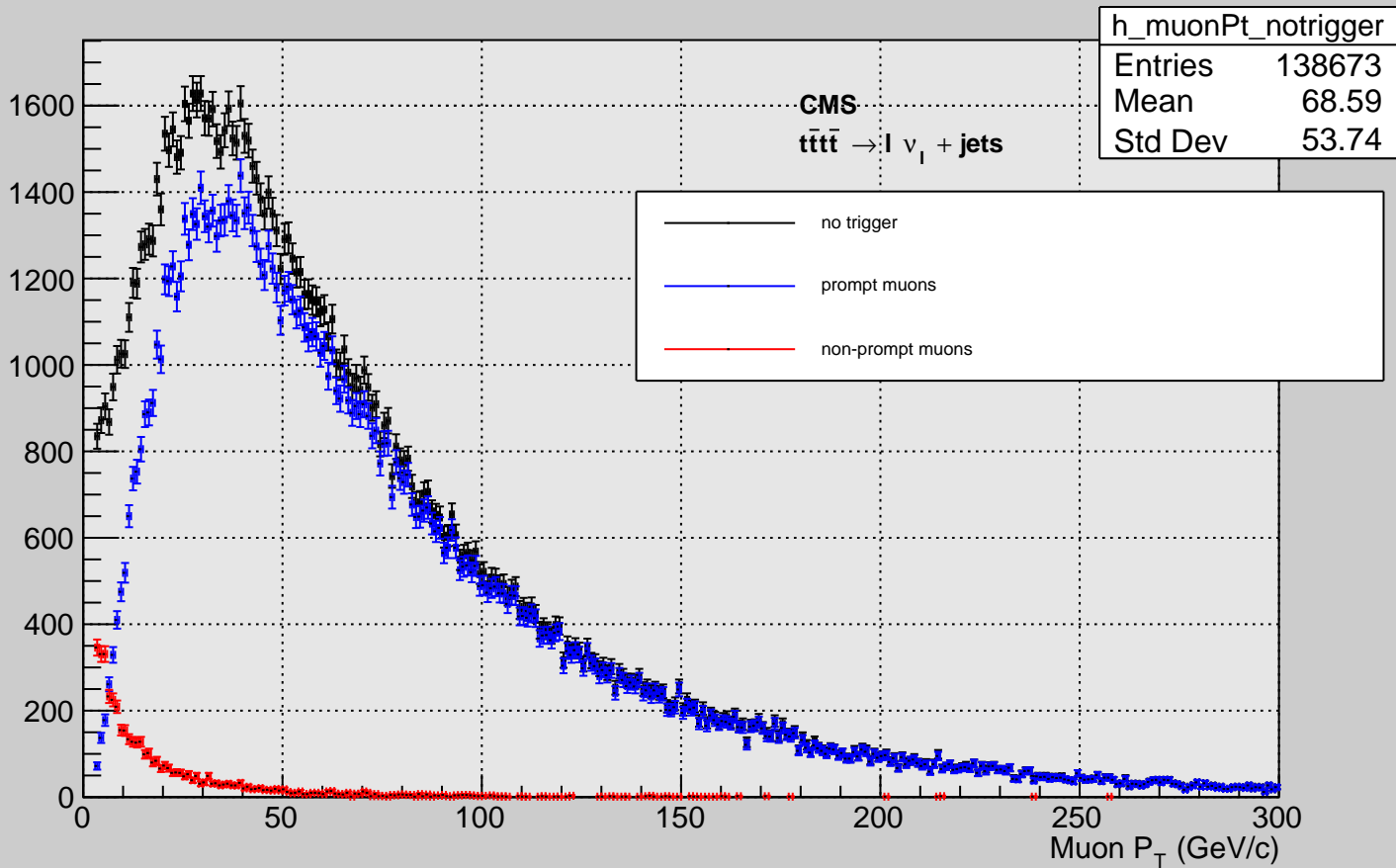


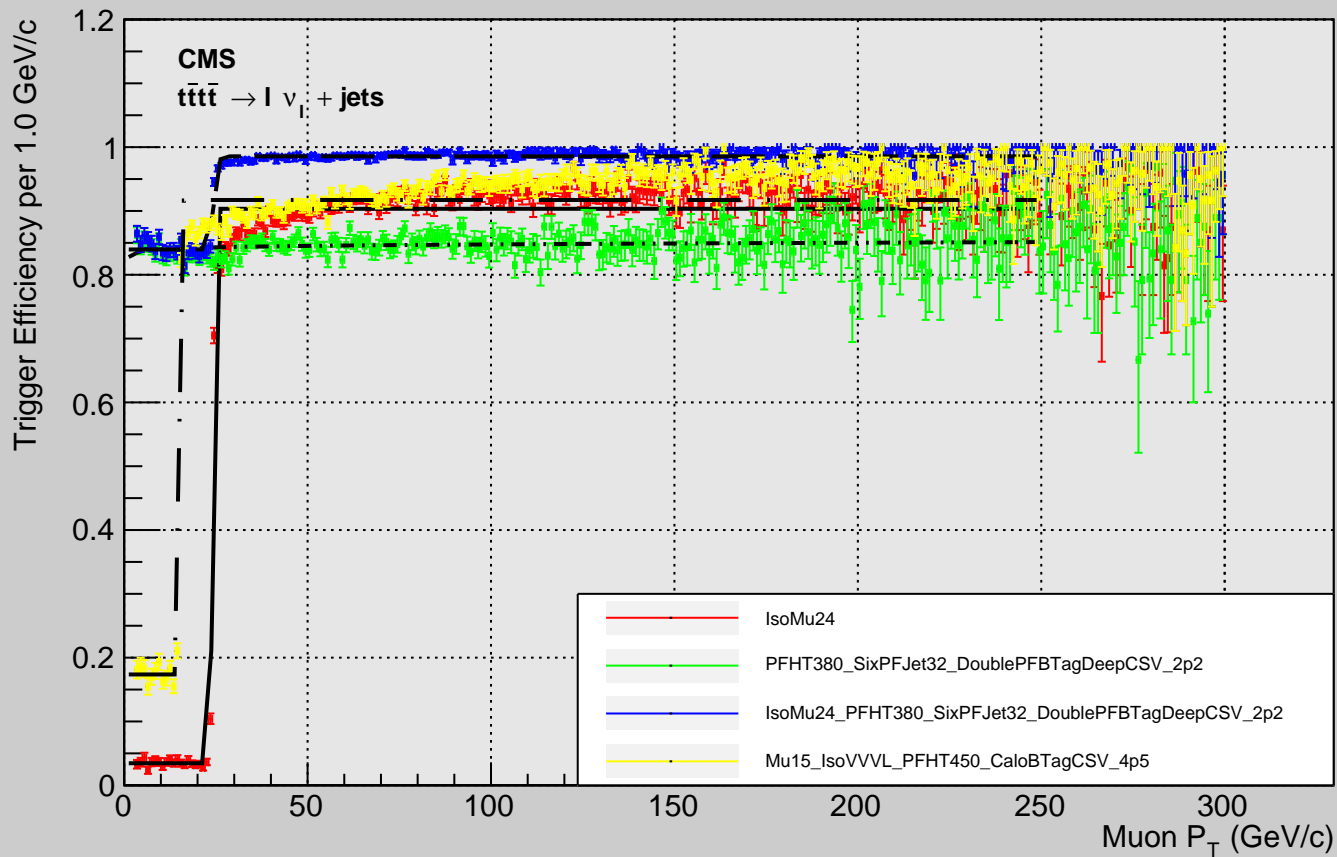


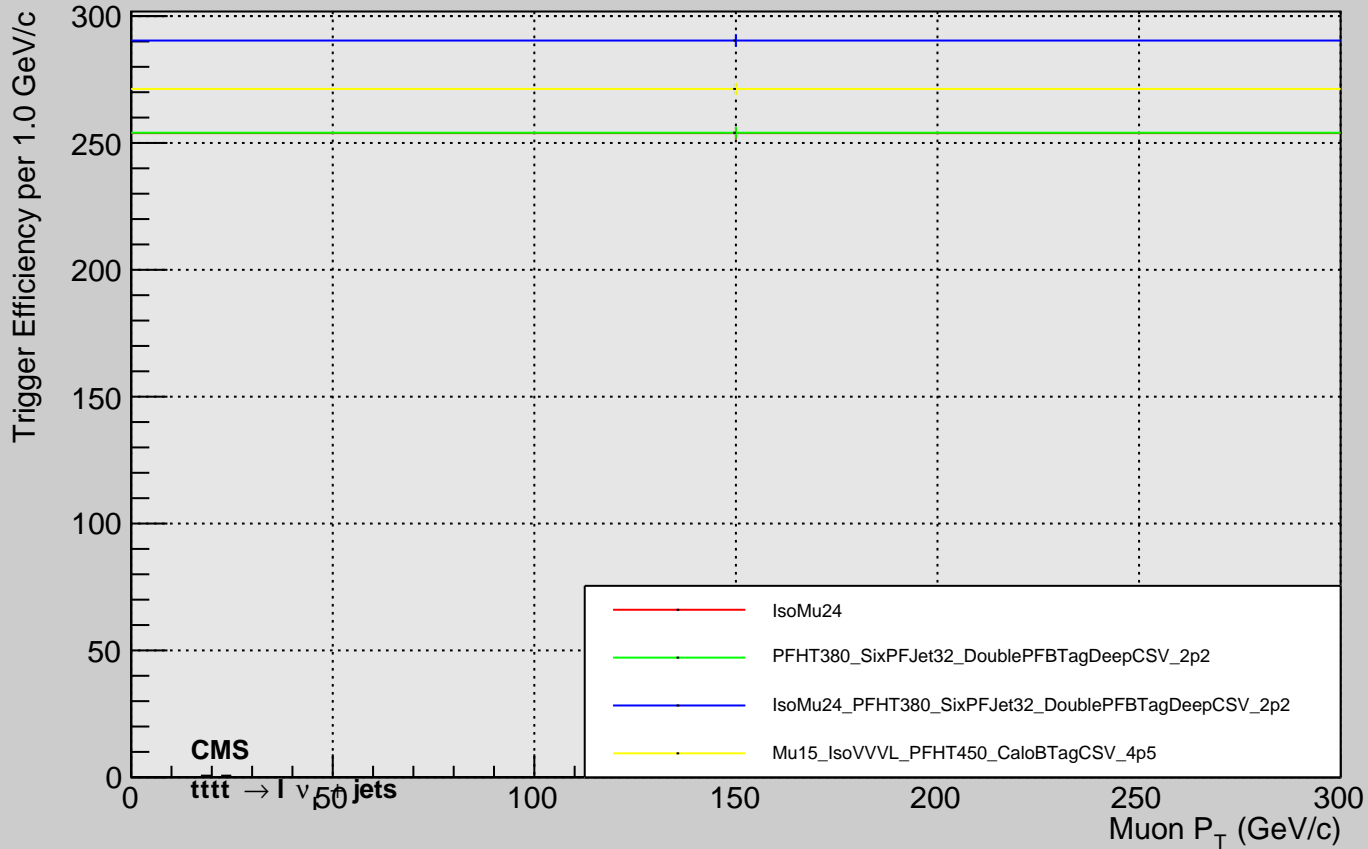
Number of Events per 1 GeV/c



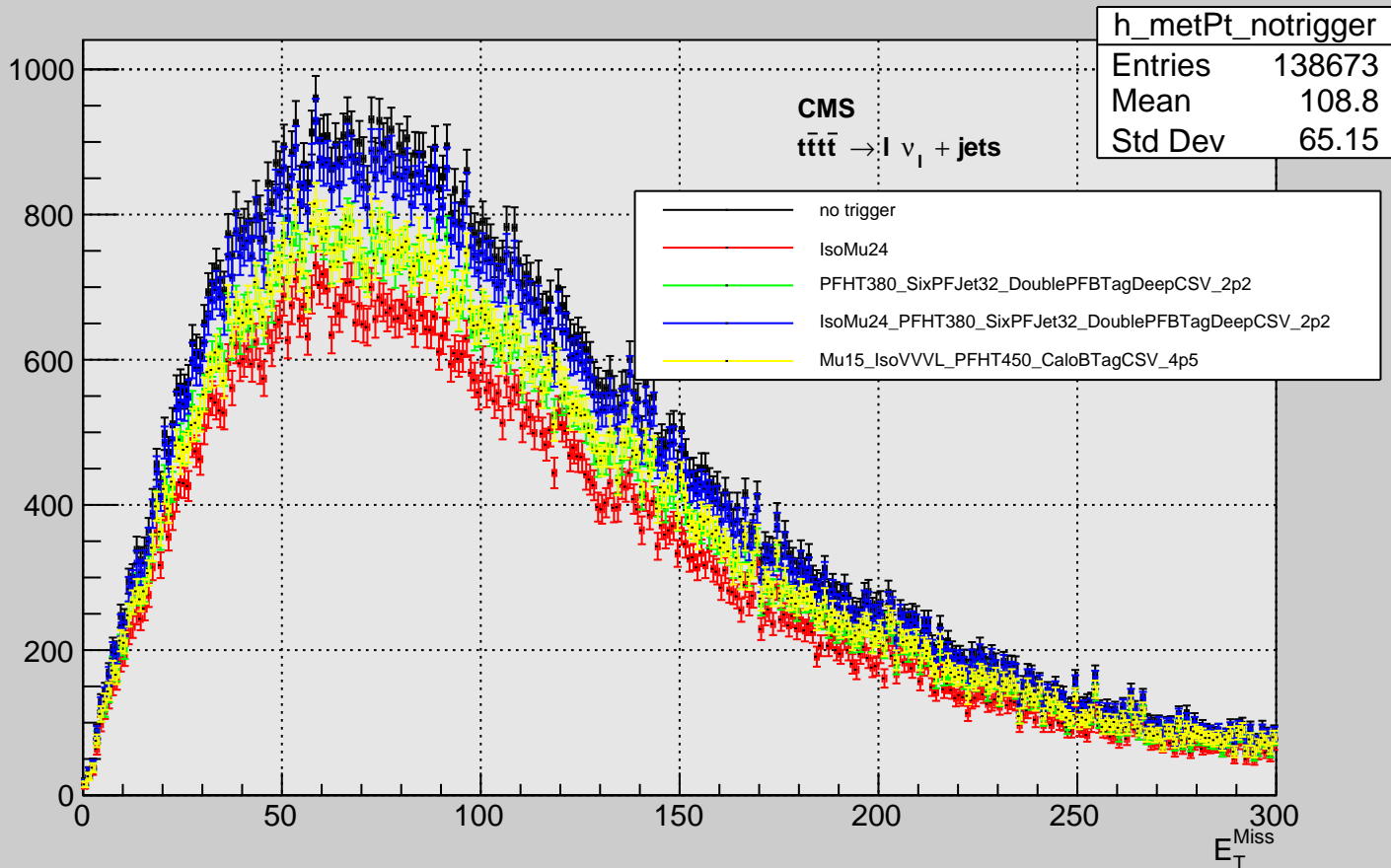
Number of Events per 1 GeV/c



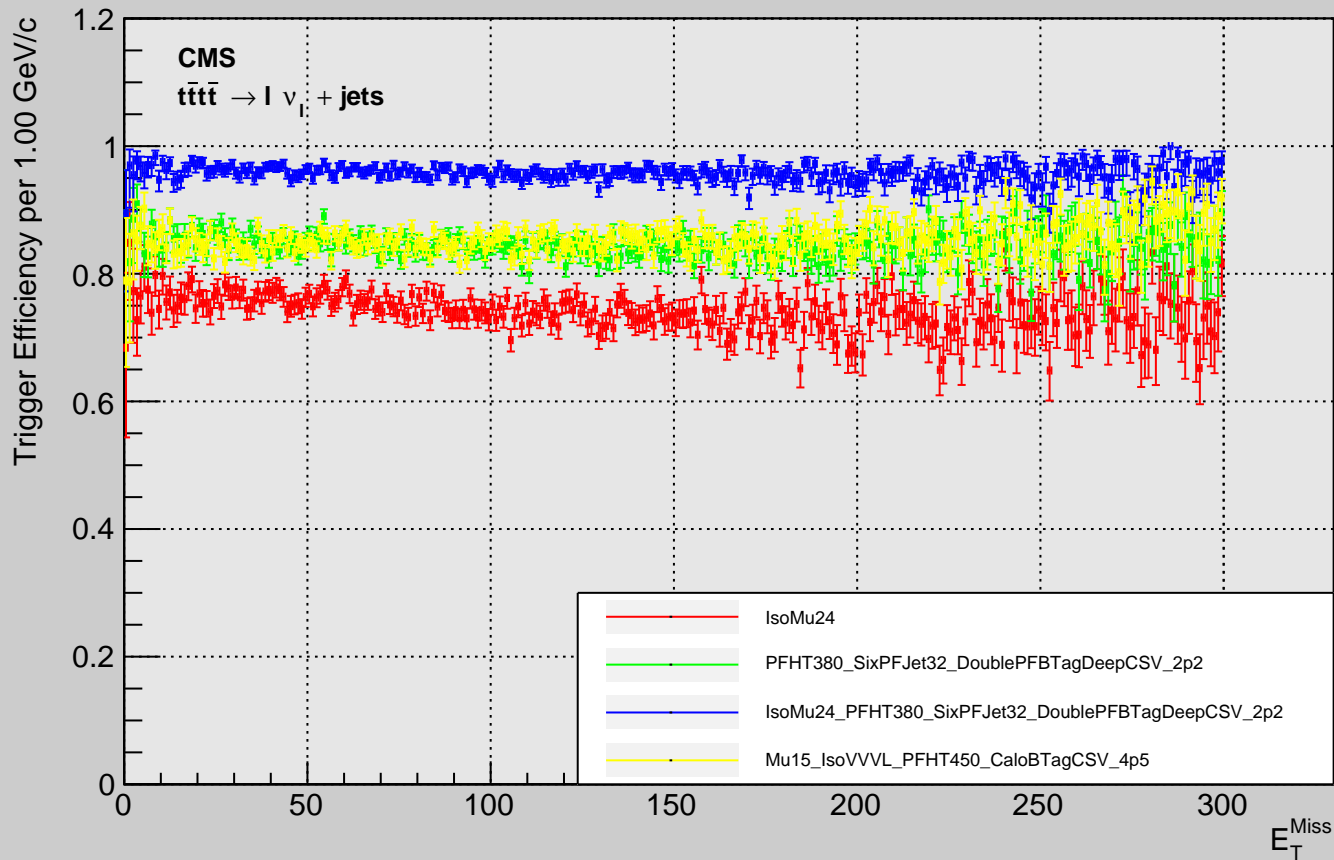




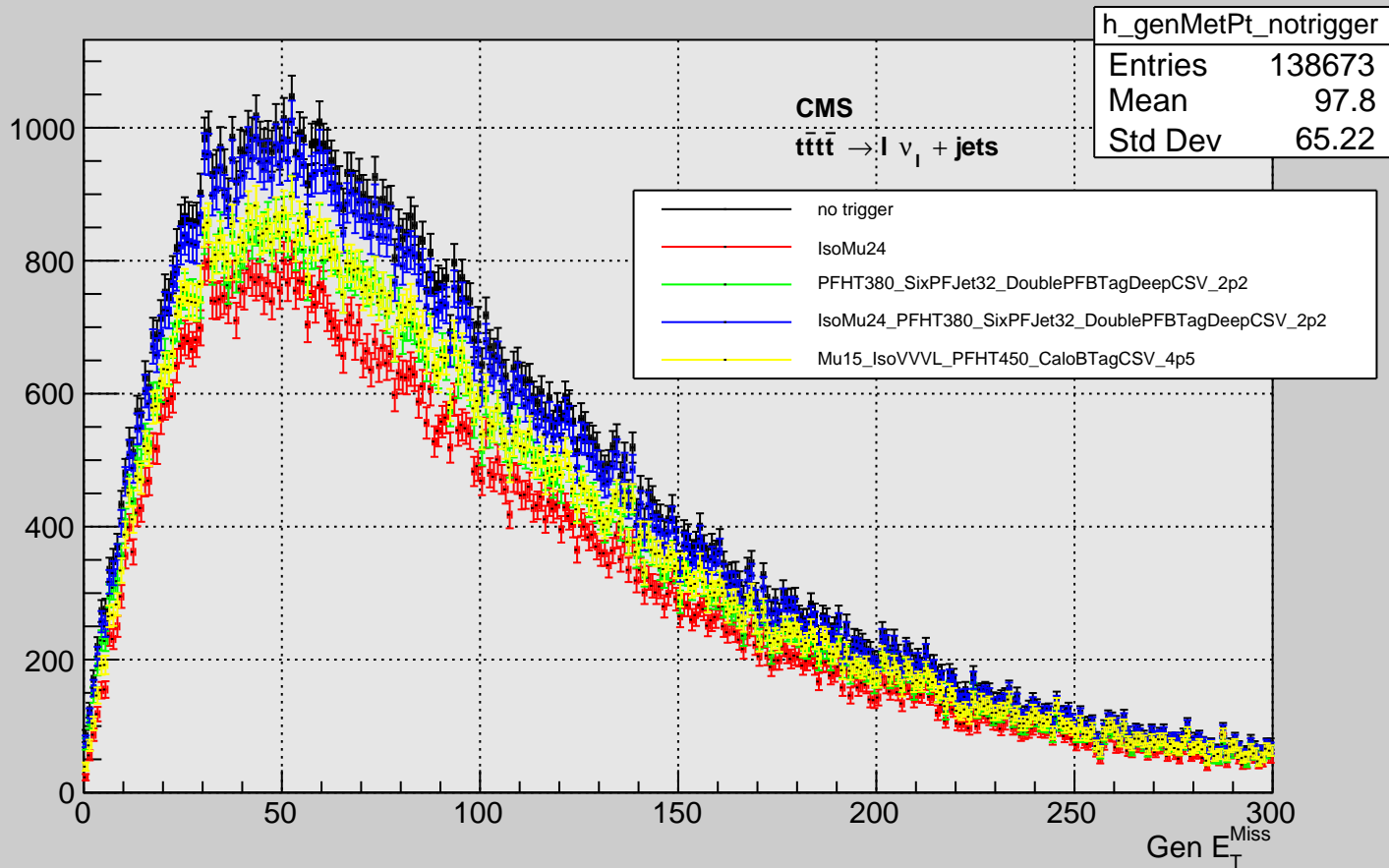
Number of Events per 1 GeV/c

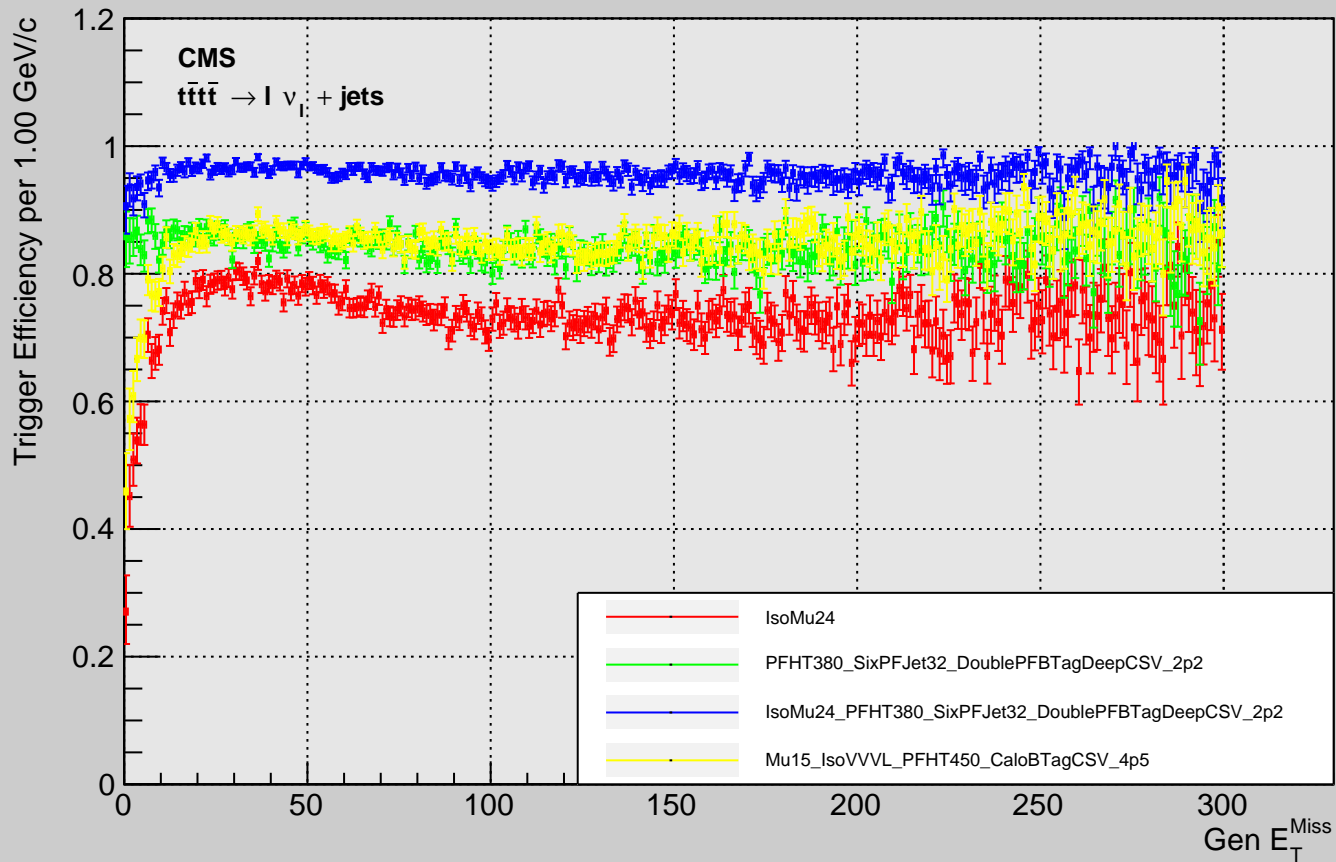




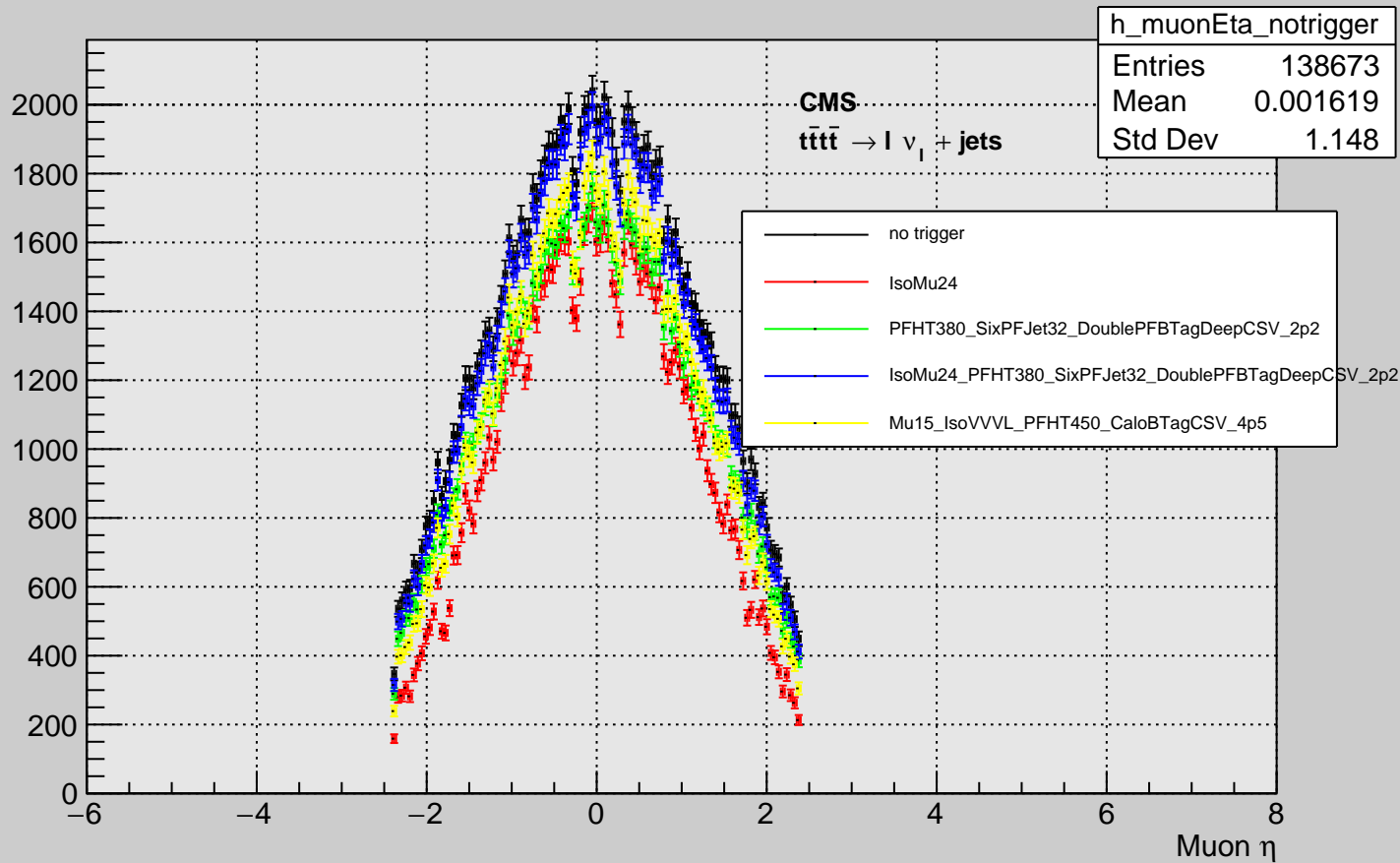


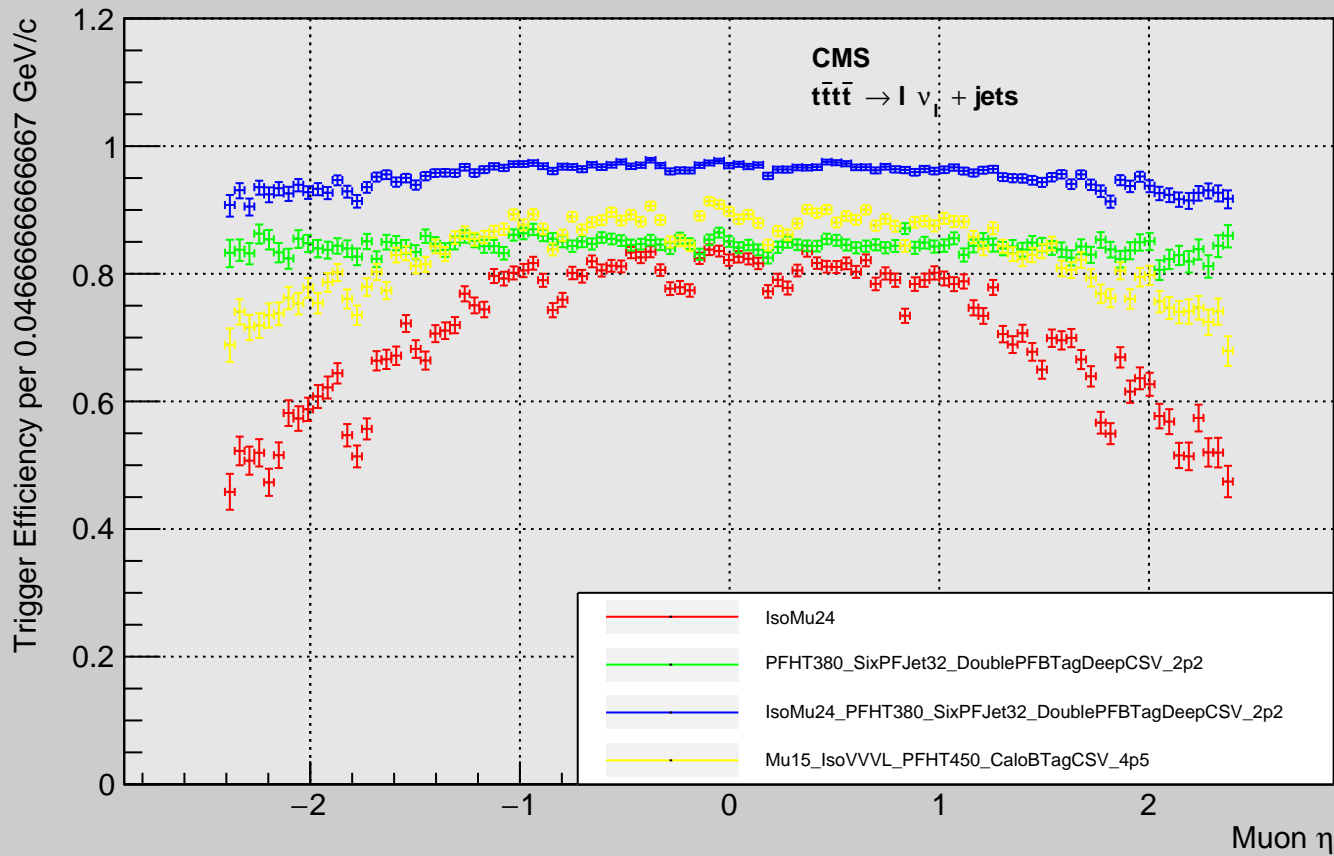
Number of Events per 1GeV/c



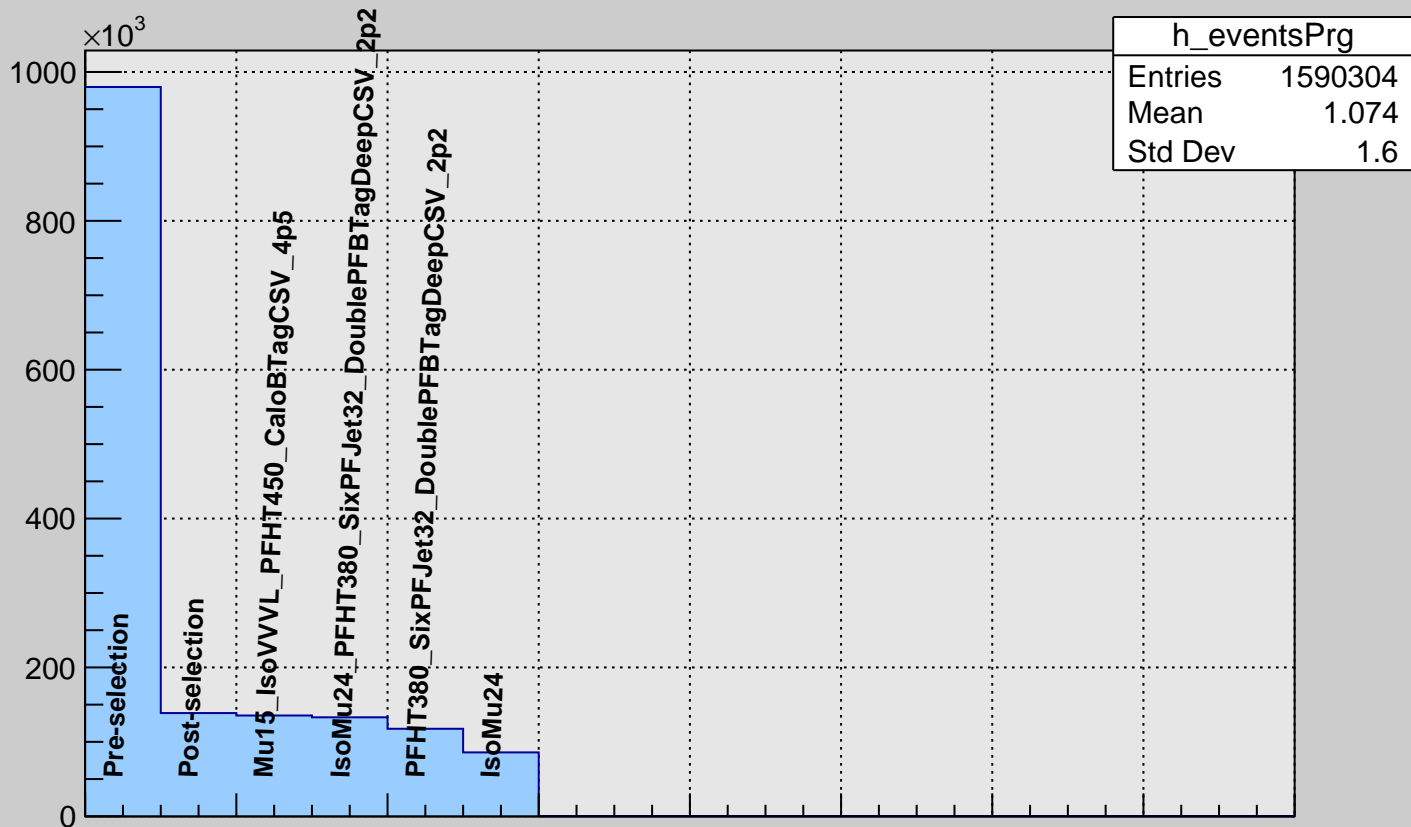


Number of Events per  $\delta\eta = 0.046$





Total Number of Accepted Events



Cuts and Triggers

h\_eventsPrg

Entries 1590304

Mean 1.074

Std Dev 1.6