

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

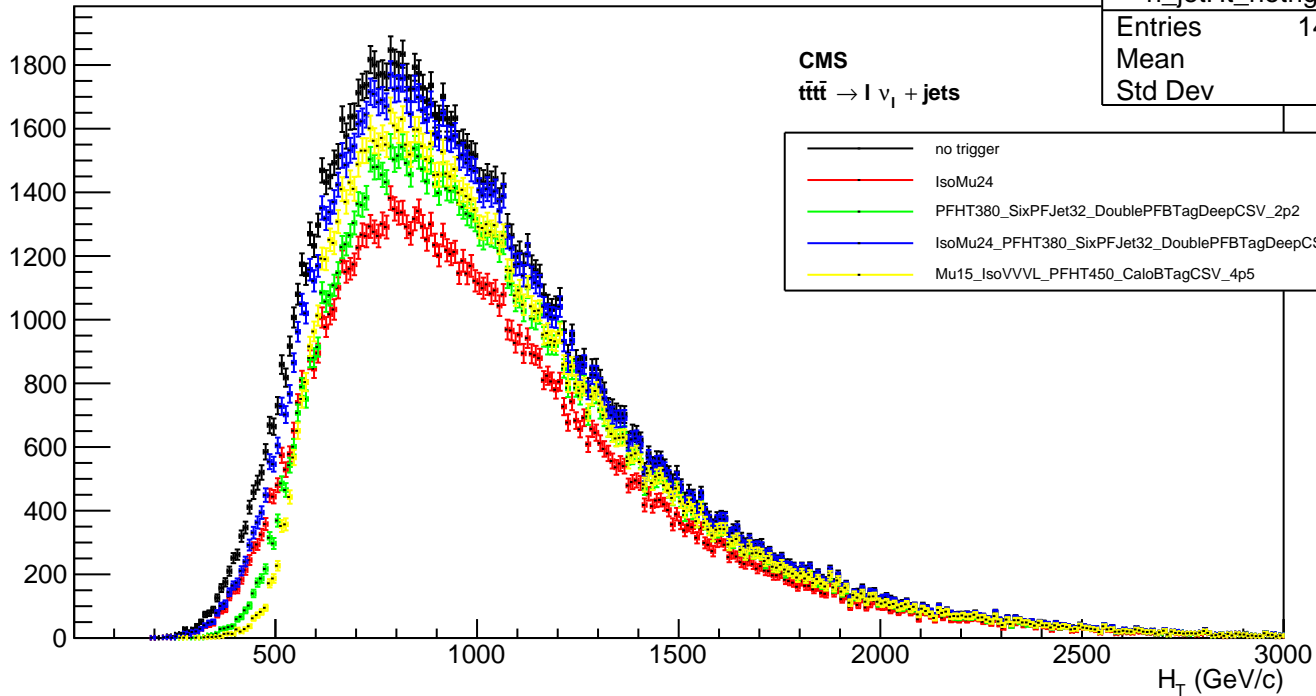
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

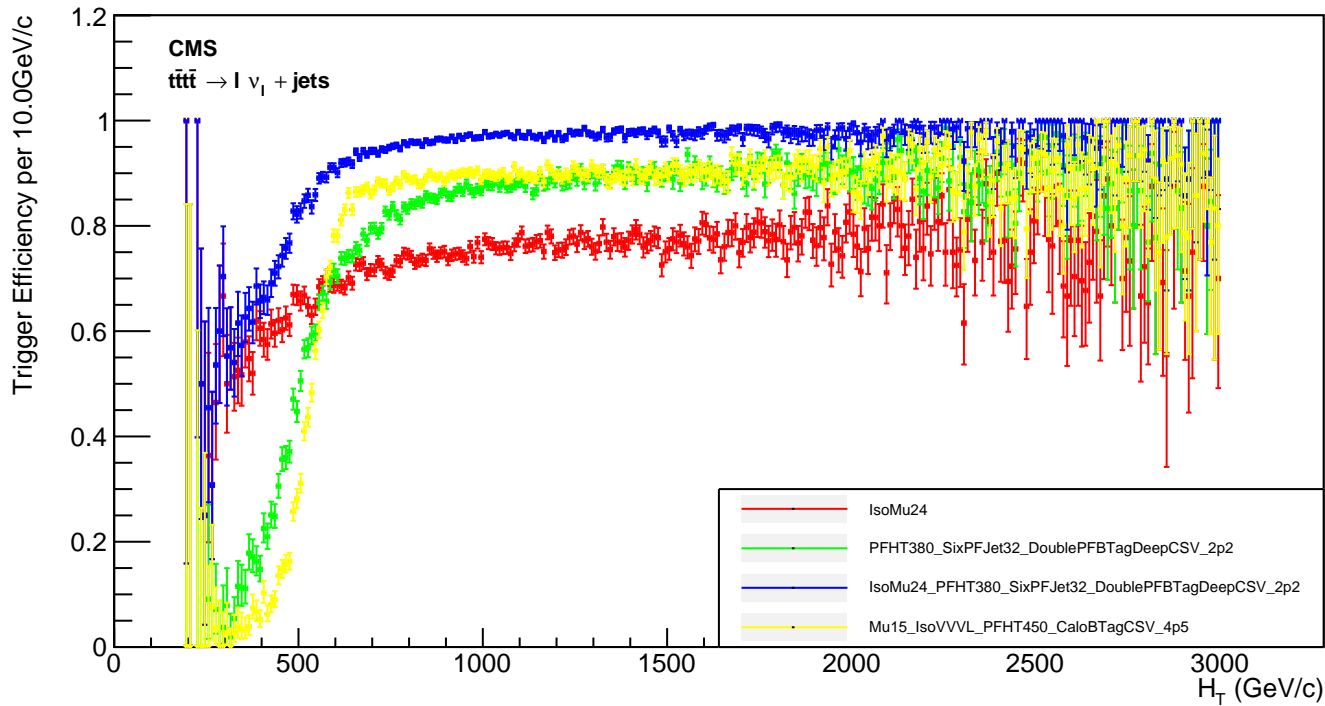
**Event Limit:** None (see last page)

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

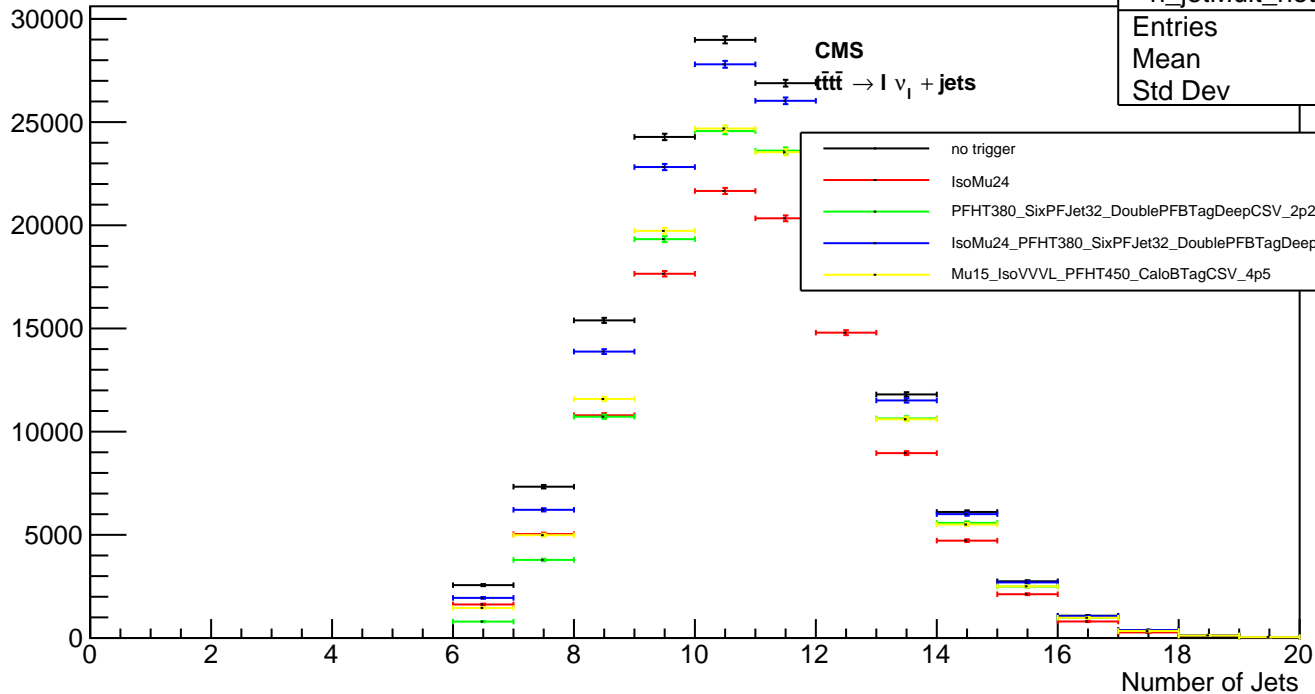
- **Jets:**  $\text{jetId} > 2$  ,  $p_T > 20$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{miniPFRellso\_all} < 0.15$  (for at least 1)

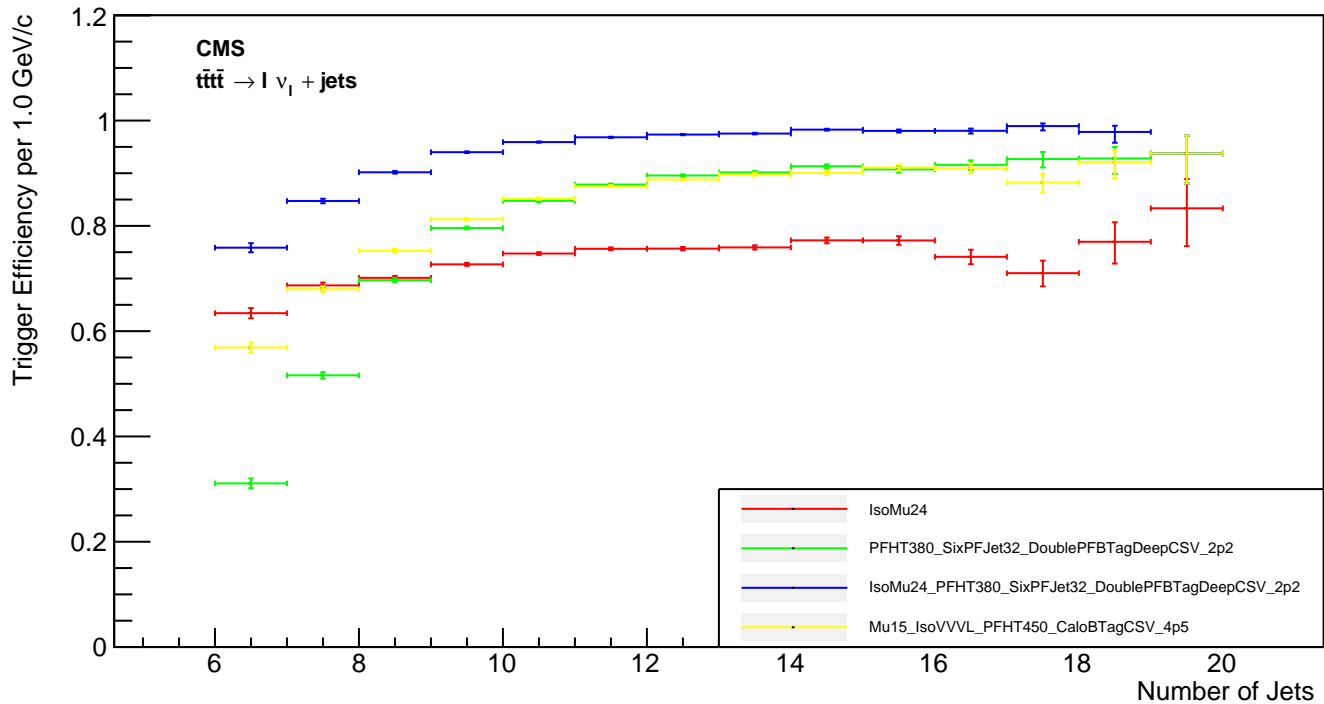
Number of Events per 10 GeV/c



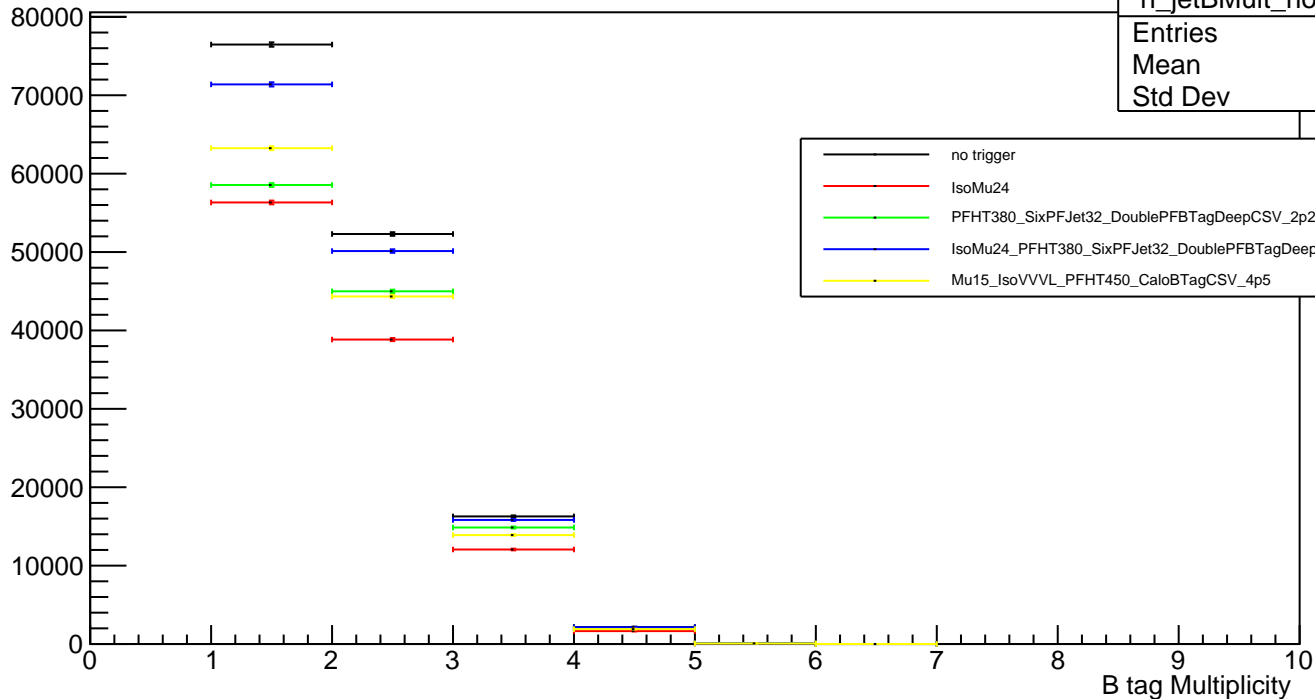


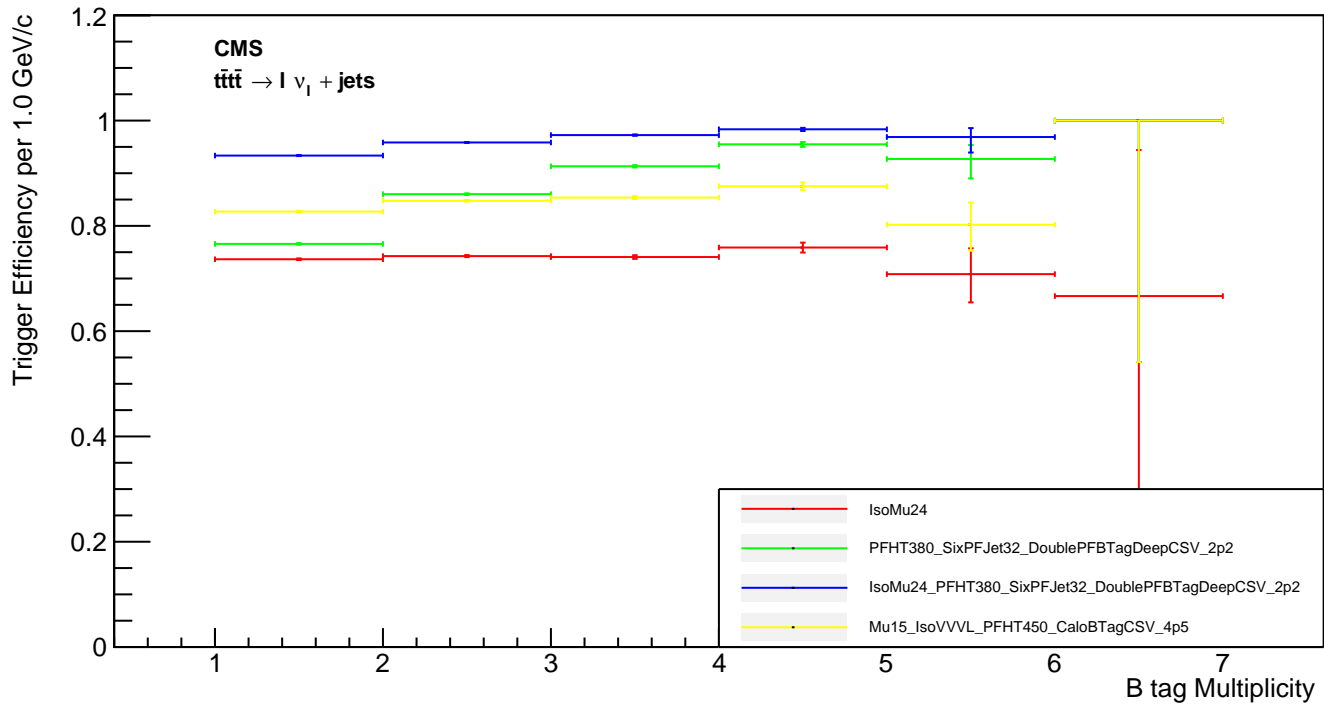
Number of Events per Number of Jets

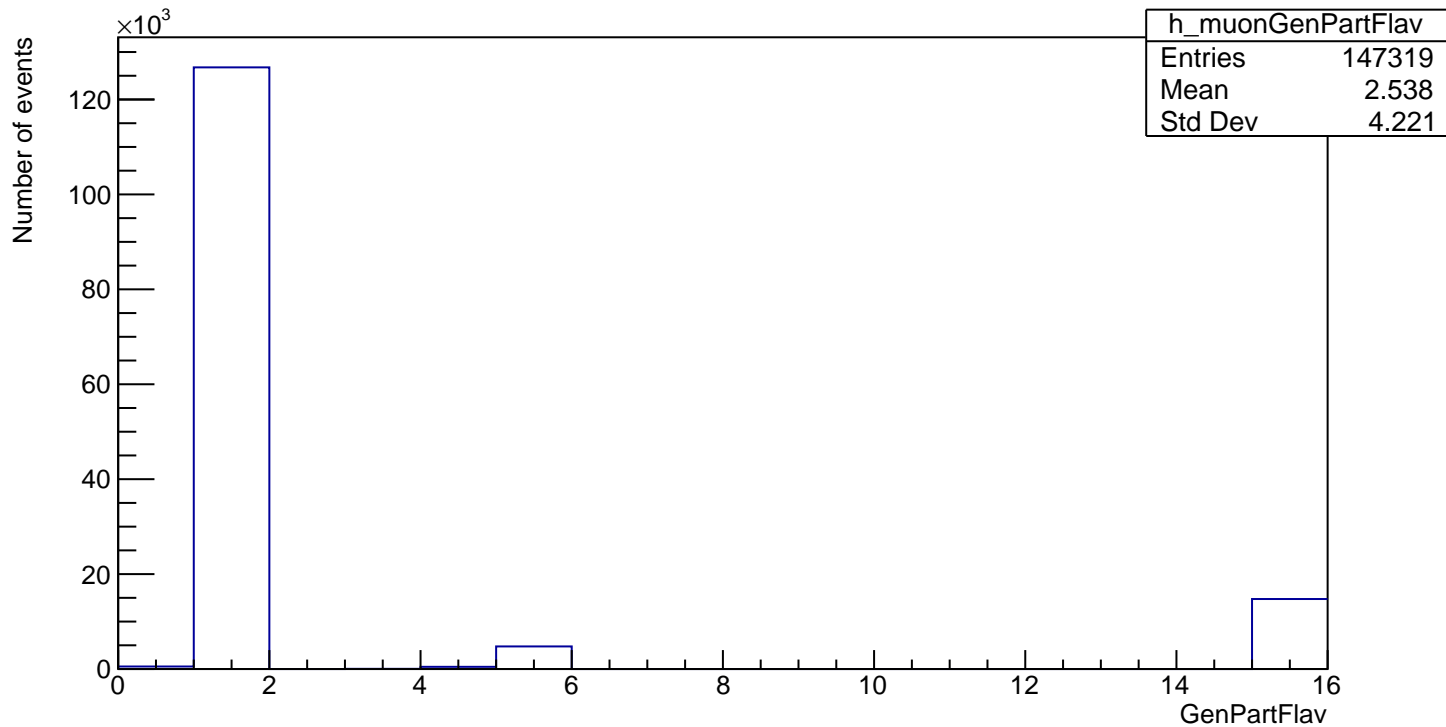




Number of Events per Number of Jets

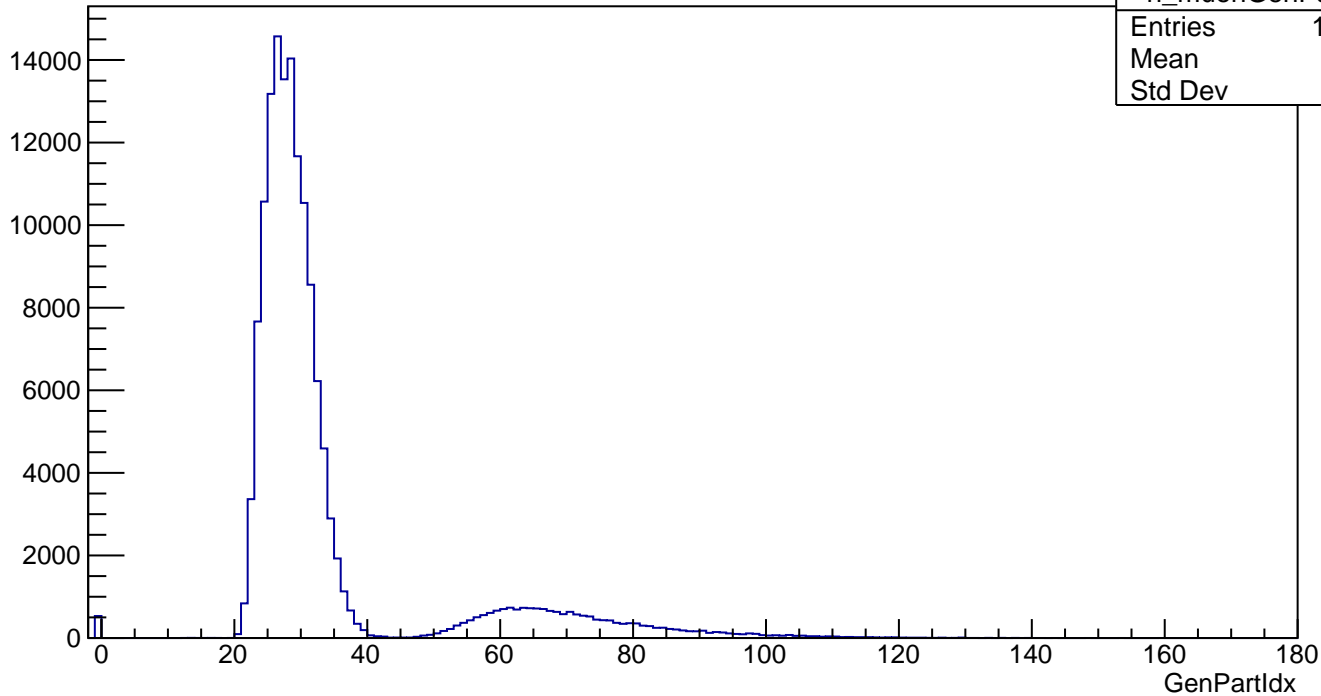








Number of events



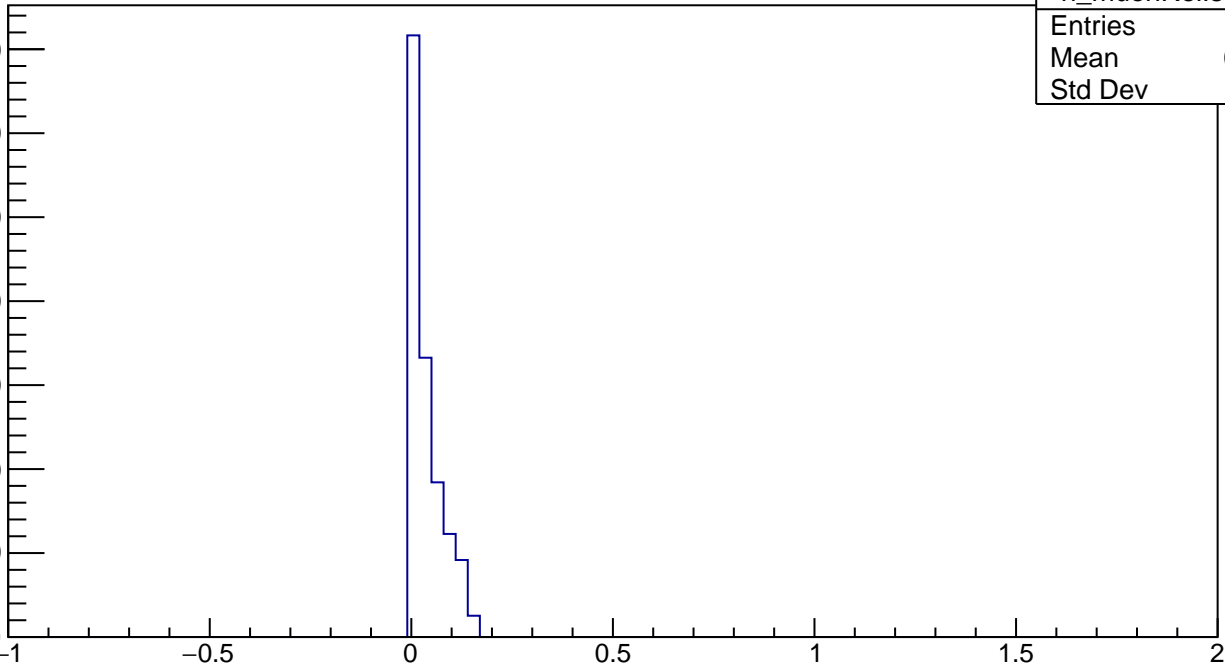
Number of Events

70000  
60000  
50000  
40000  
30000  
20000  
10000  
0

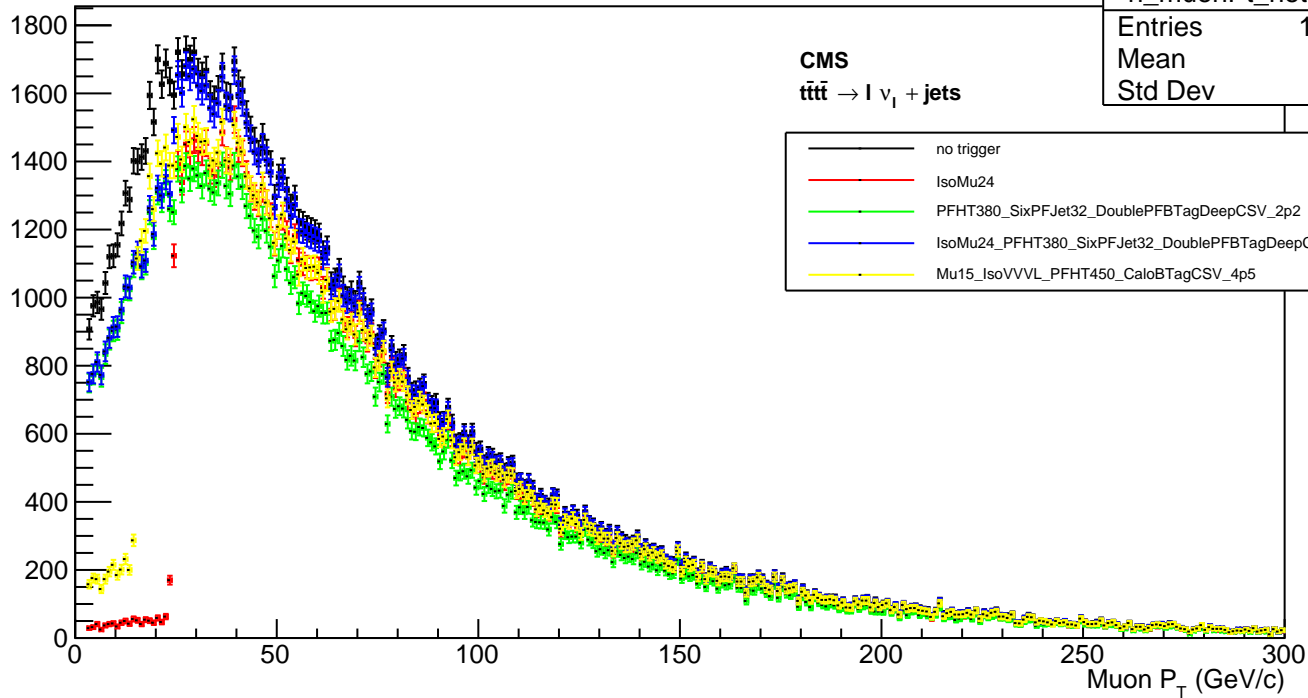
-1 -0.5 0 0.5 1 1.5 2

muonRelIso04\_all

h_muonRelIso04_all	
Entries	147319
Mean	0.03618
Std Dev	0.03983

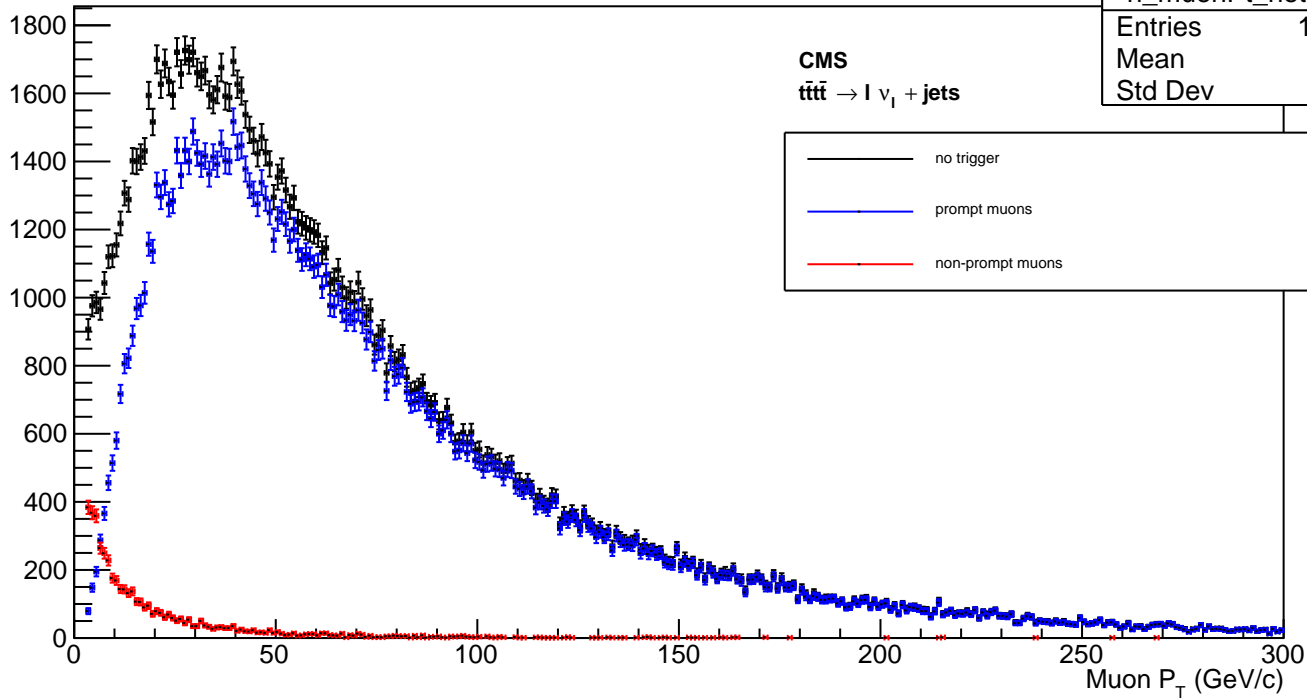


Number of Events per 1 GeV/c

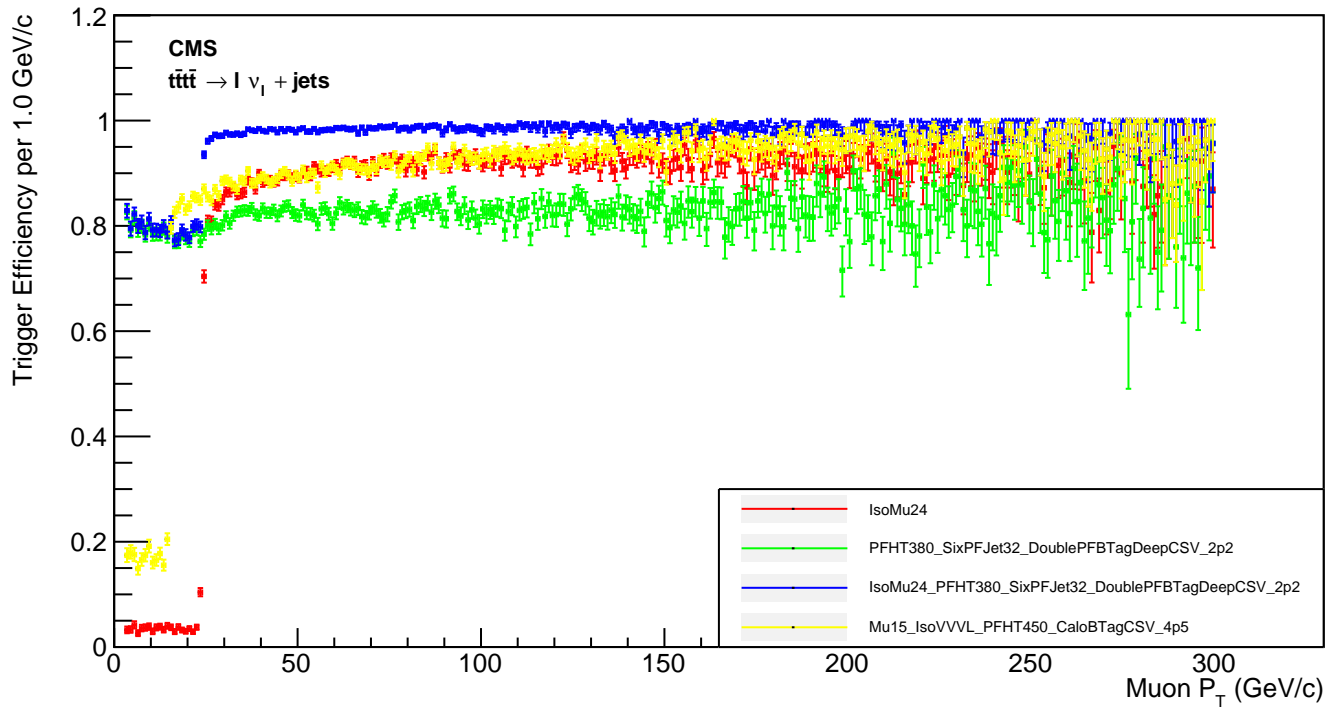


h_muonPt_notrigger	
Entries	147319
Mean	68.13
Std Dev	53.75

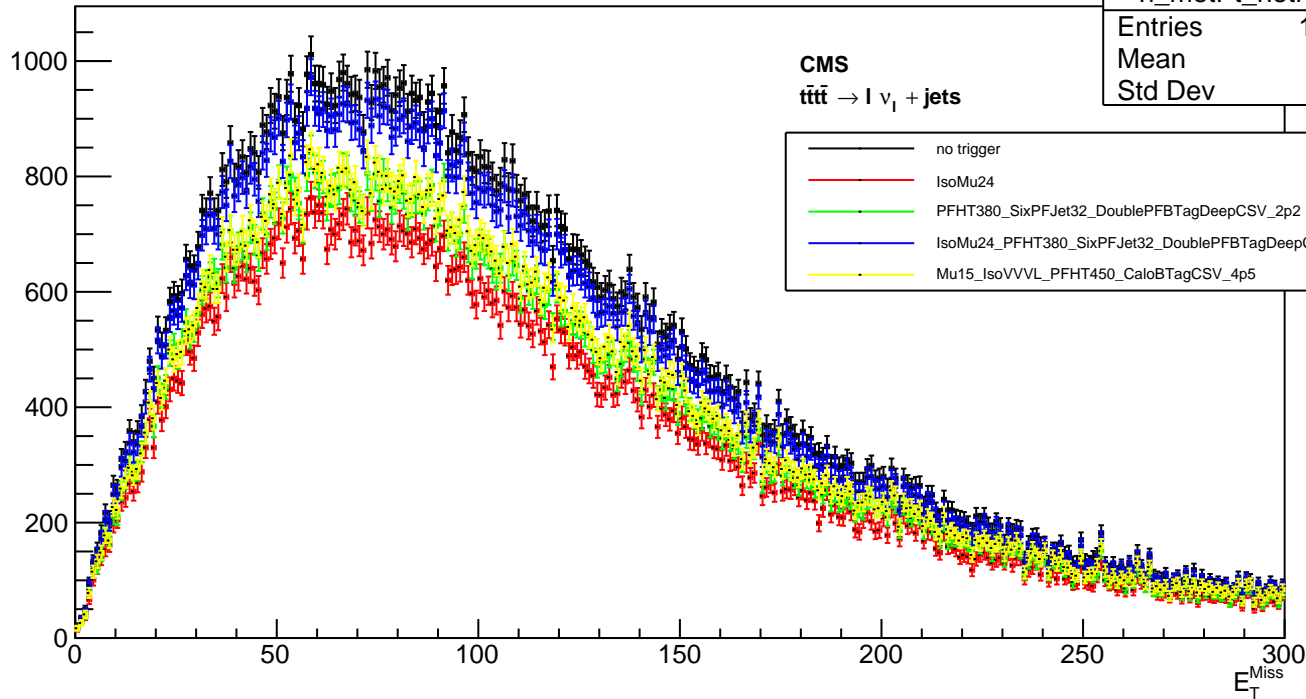
Number of Events per 1 GeV/c

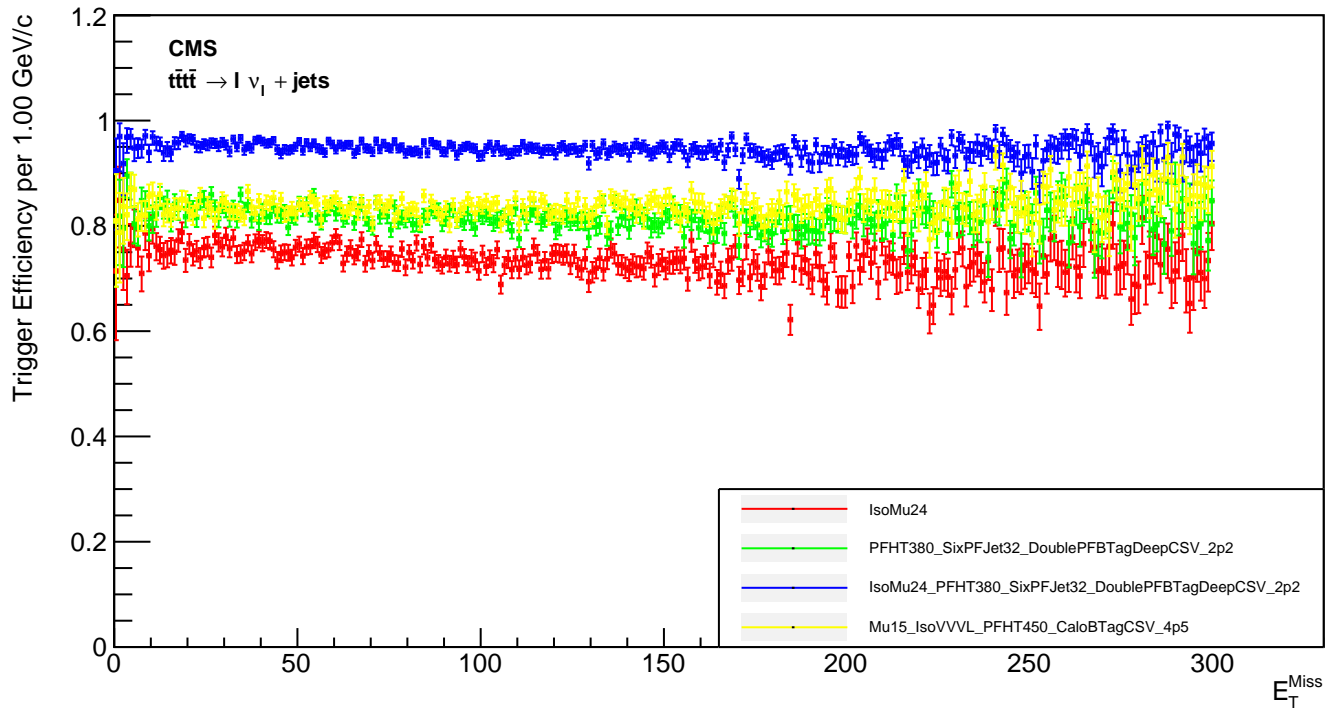


h_muonPt_notrigger	
Entries	147319
Mean	68.13
Std Dev	53.75

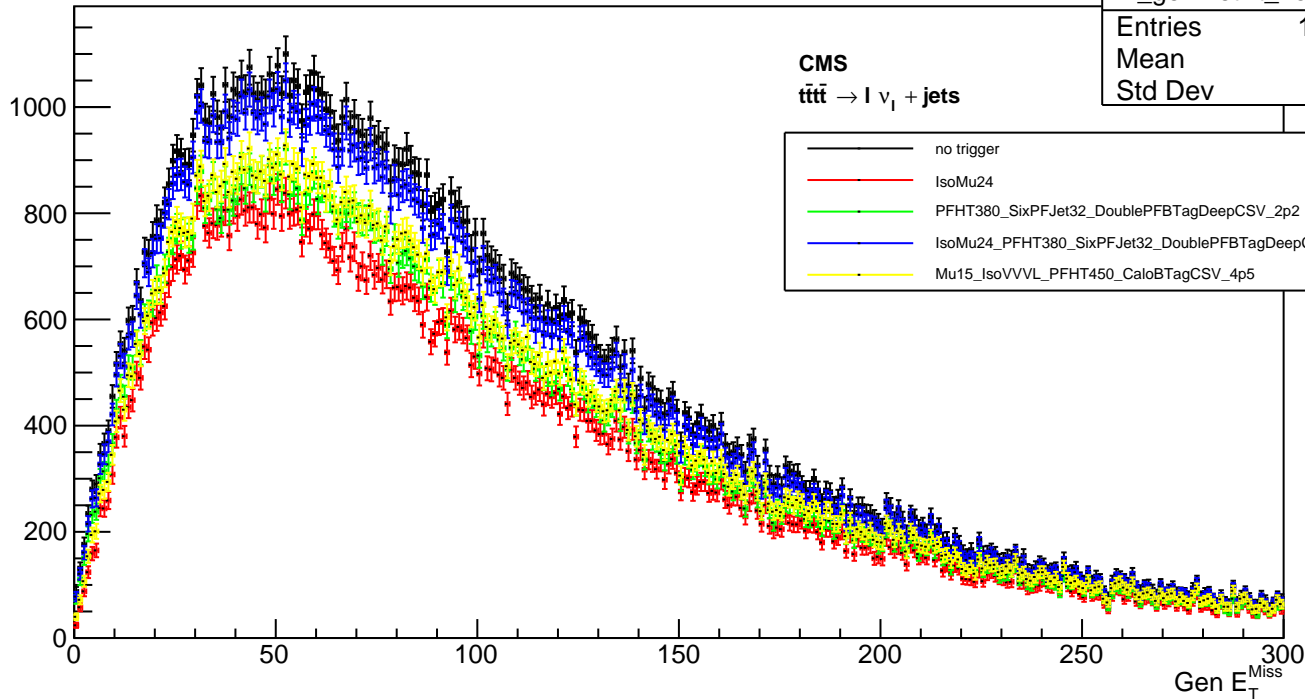


Number of Events per 1 GeV/c

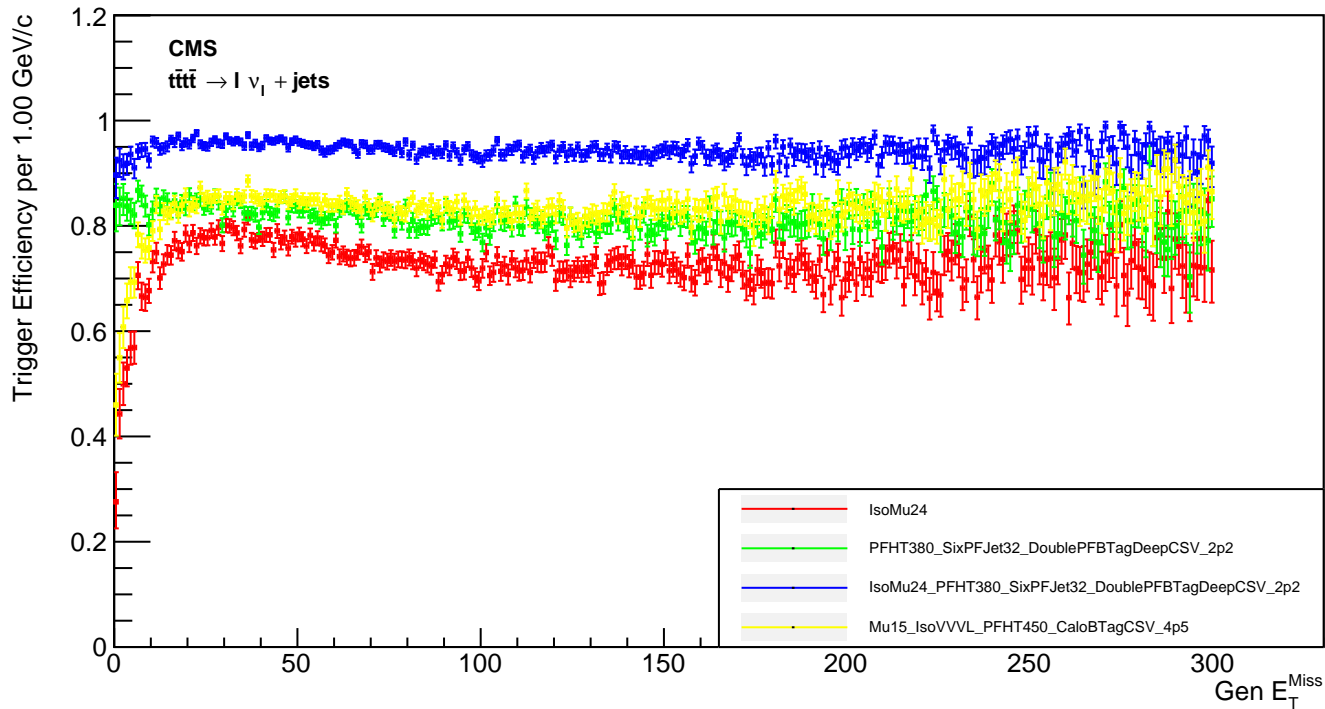




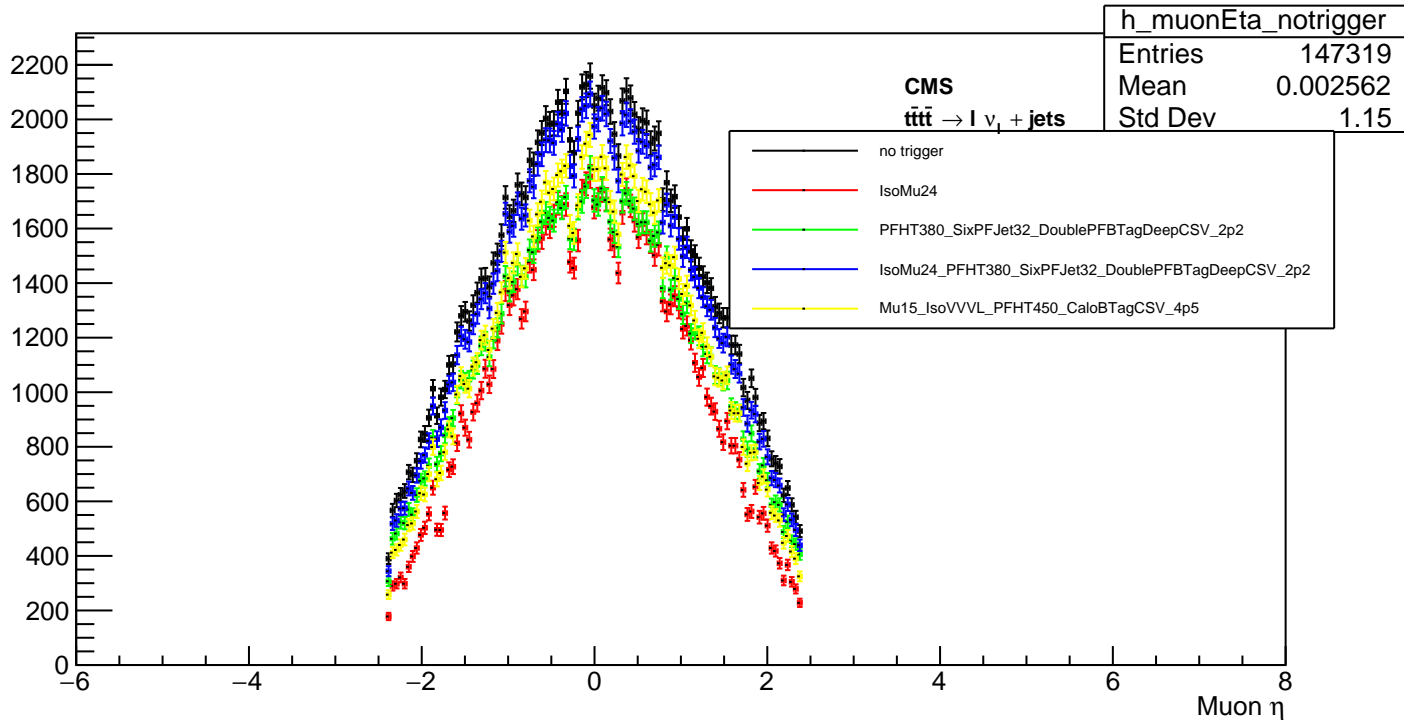
Number of Events per 1GeV/c



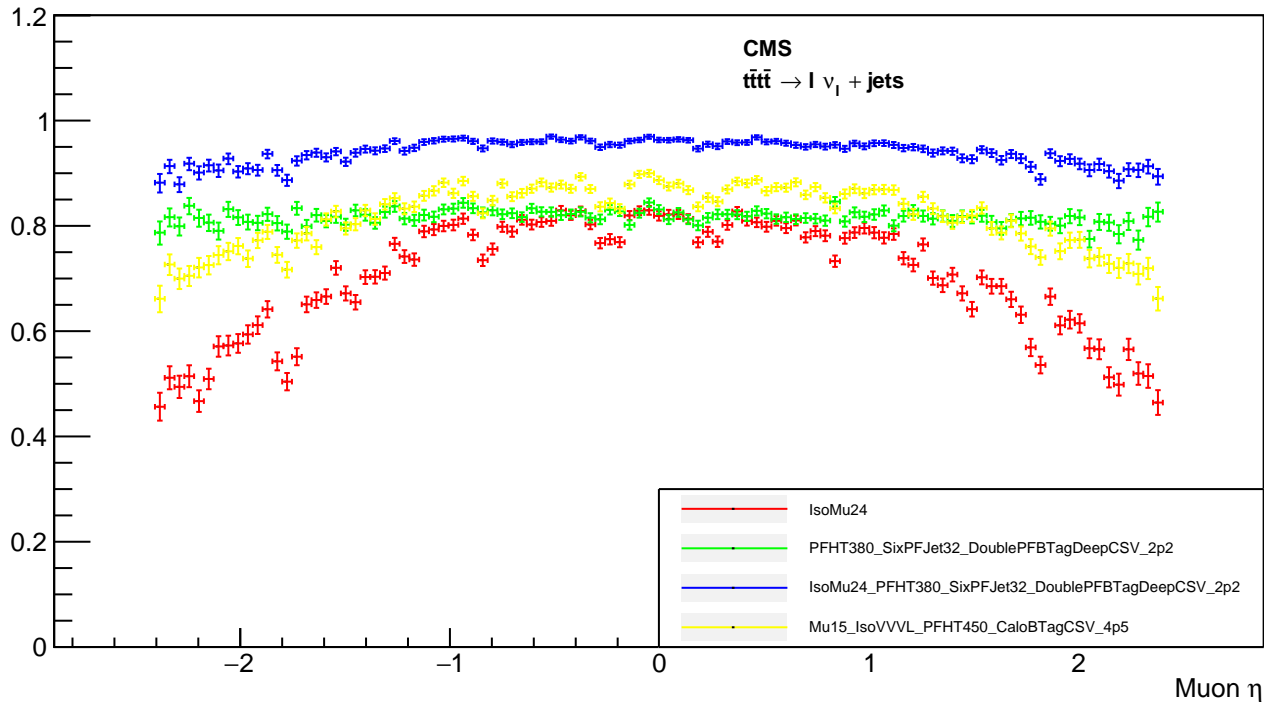




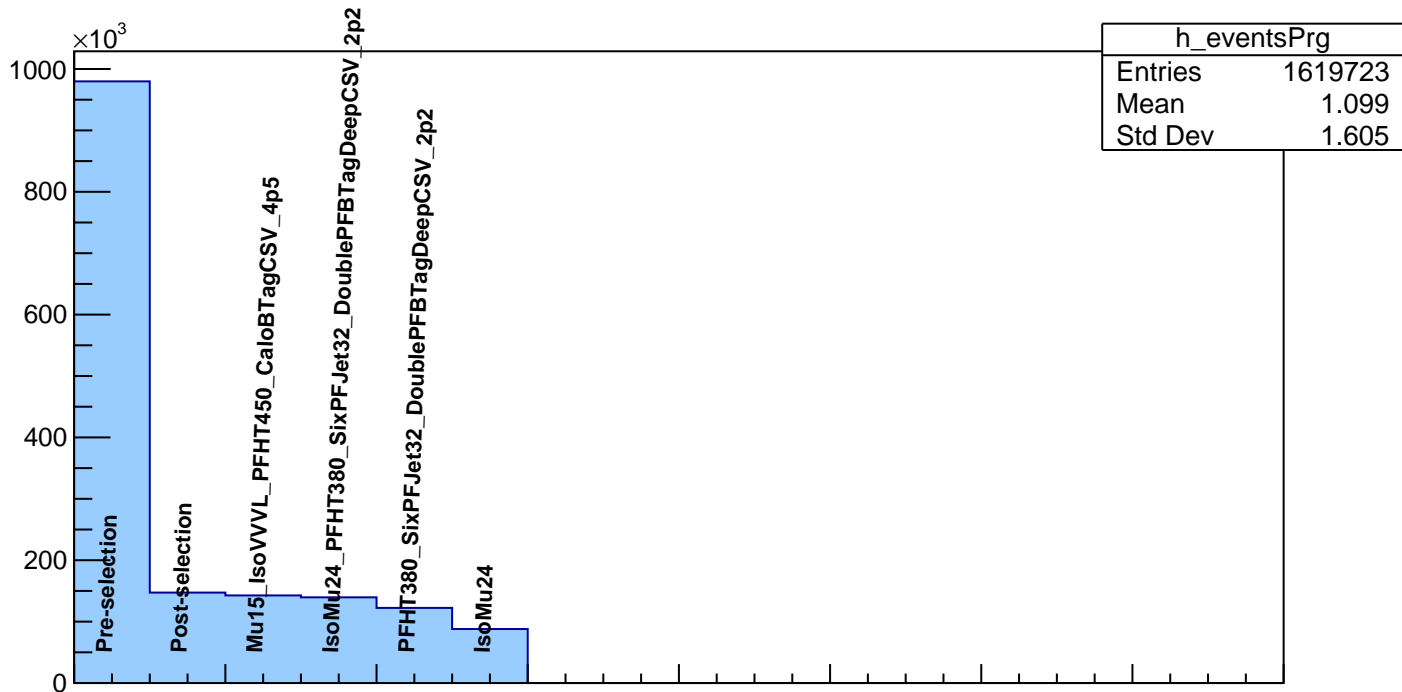
Number of Events per  $\delta\eta = 0.046$



Trigger Efficiency per 0.04666666666666667 GeV/c



Total Number of Accepted Events



Cuts and Triggers