

On-line (pre-)selection Requisites for:

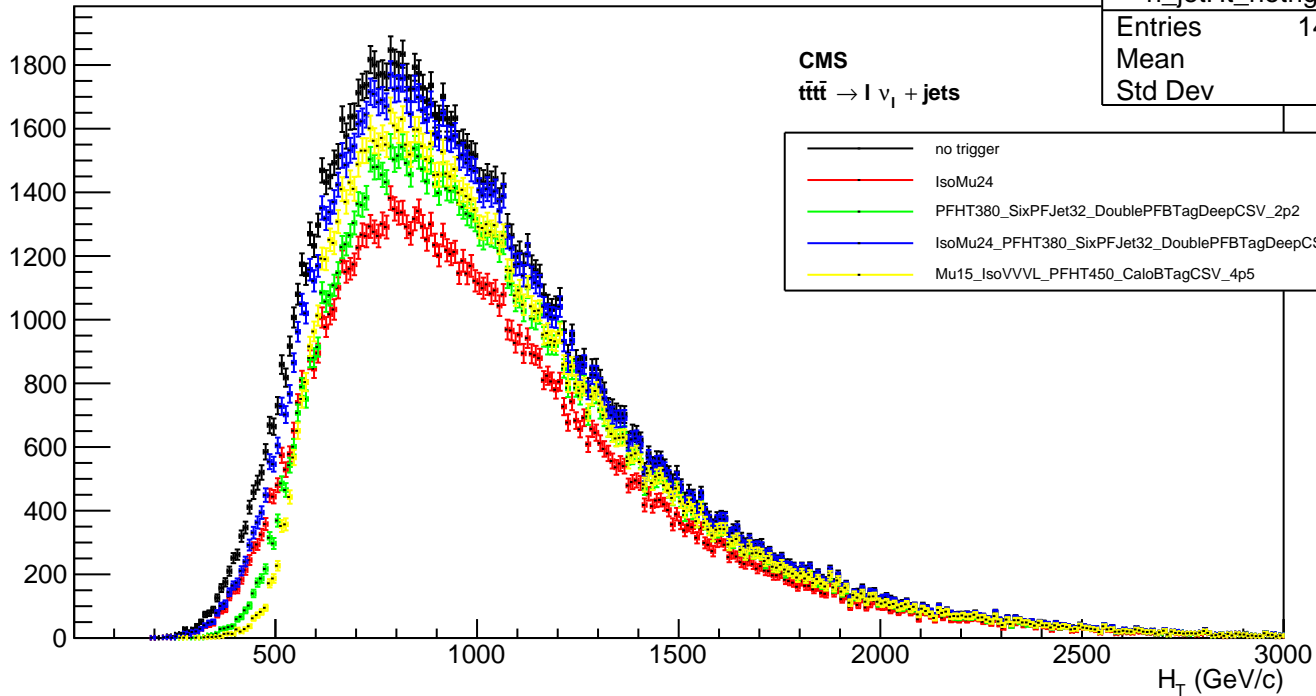
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

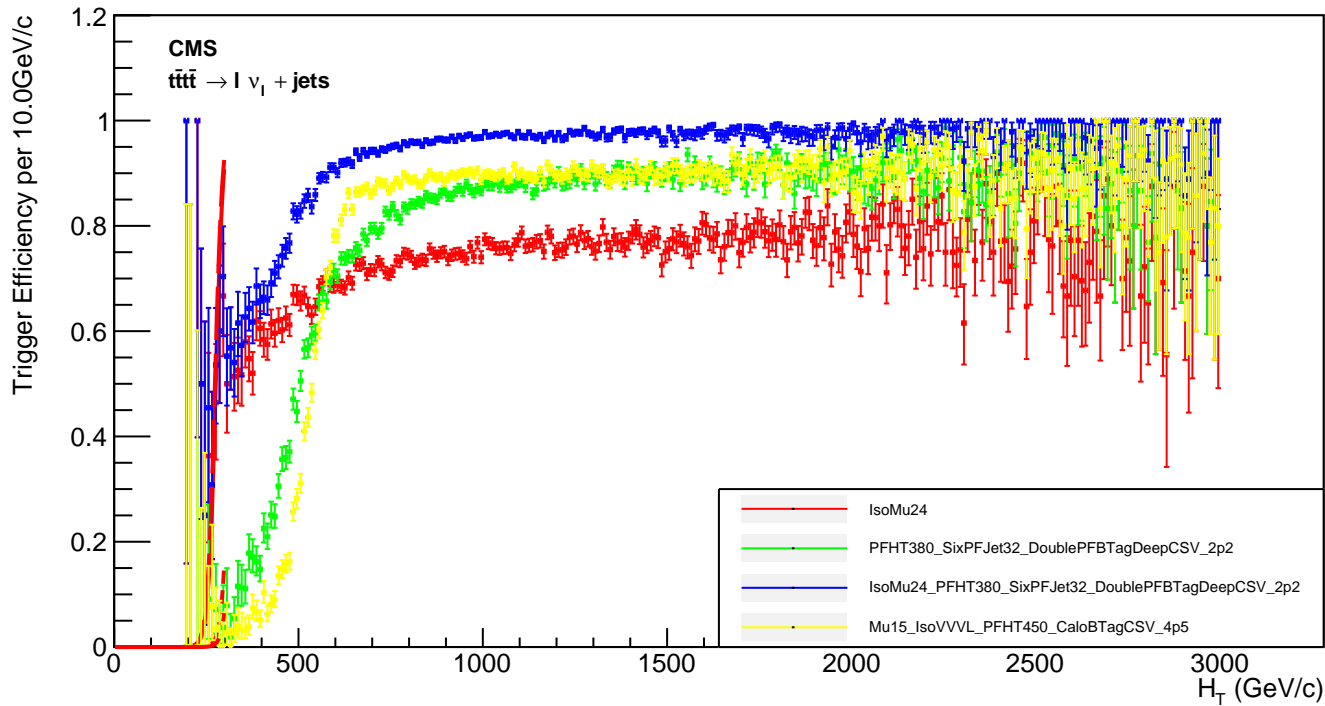
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

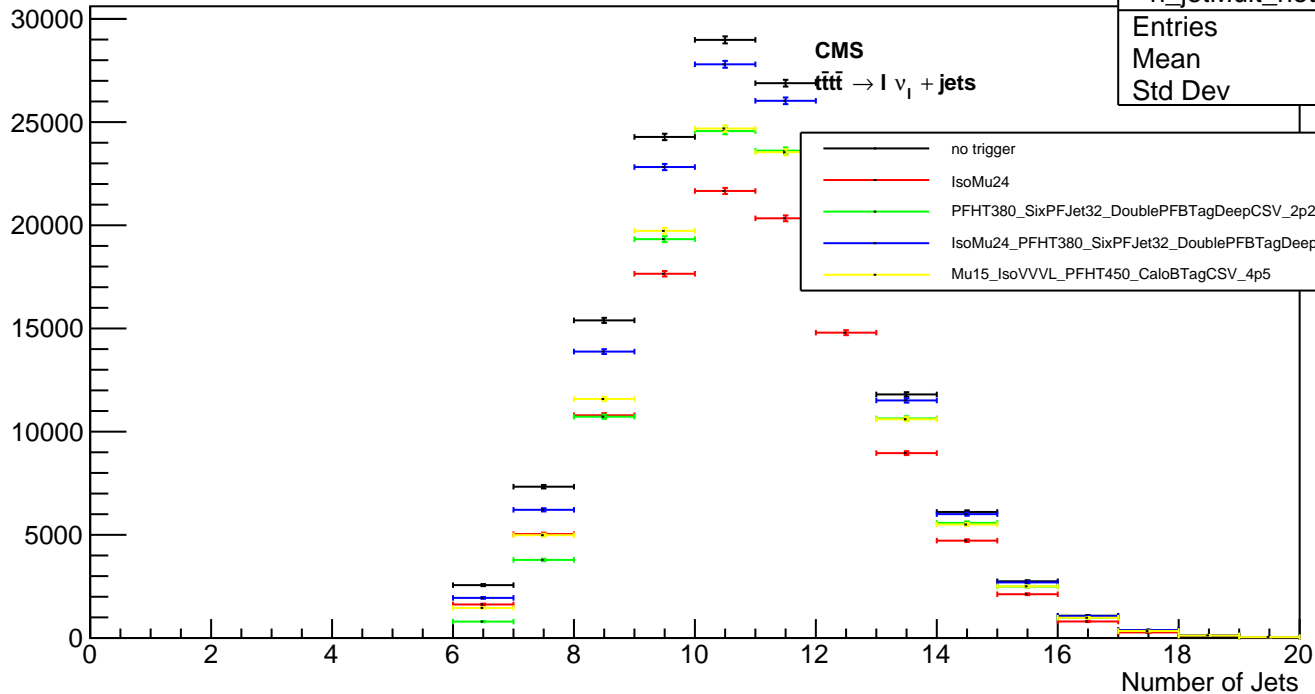
- **Jets:** $\text{jetId} > 2$, $p_T > 20$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.15$ (for at least 1)

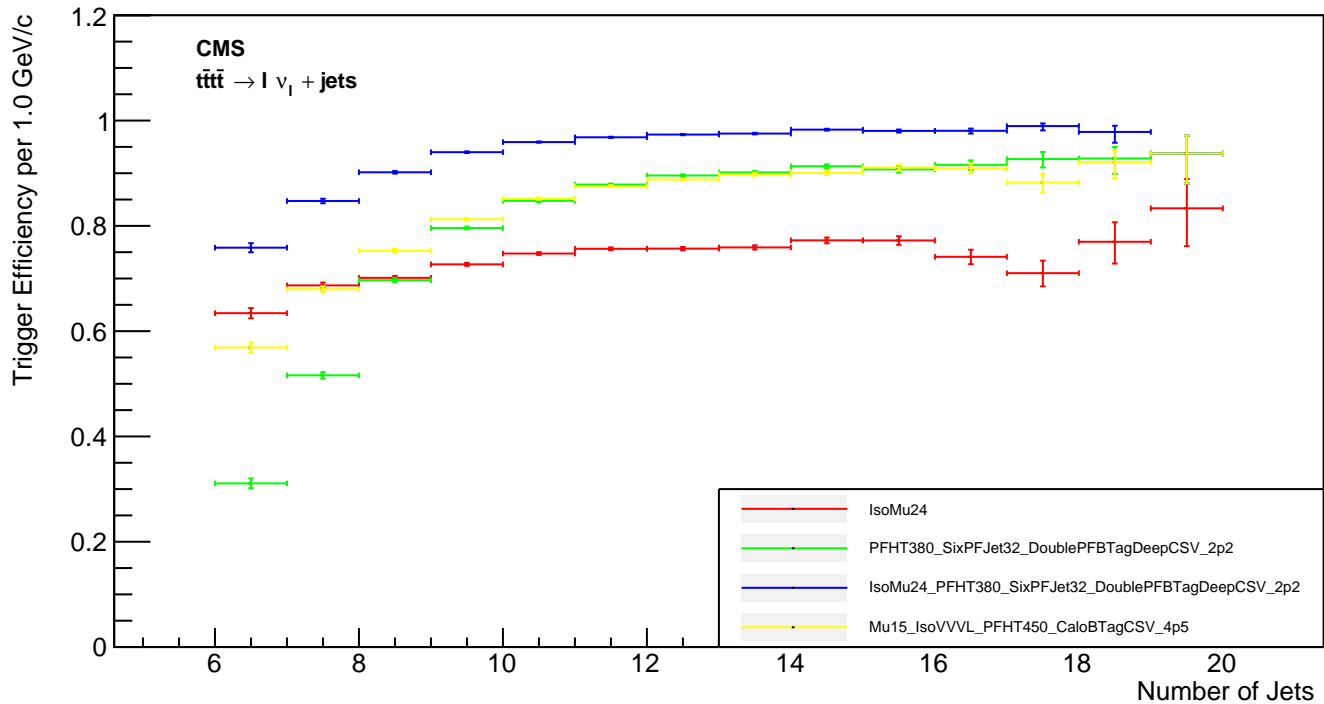
Number of Events per 10 GeV/c



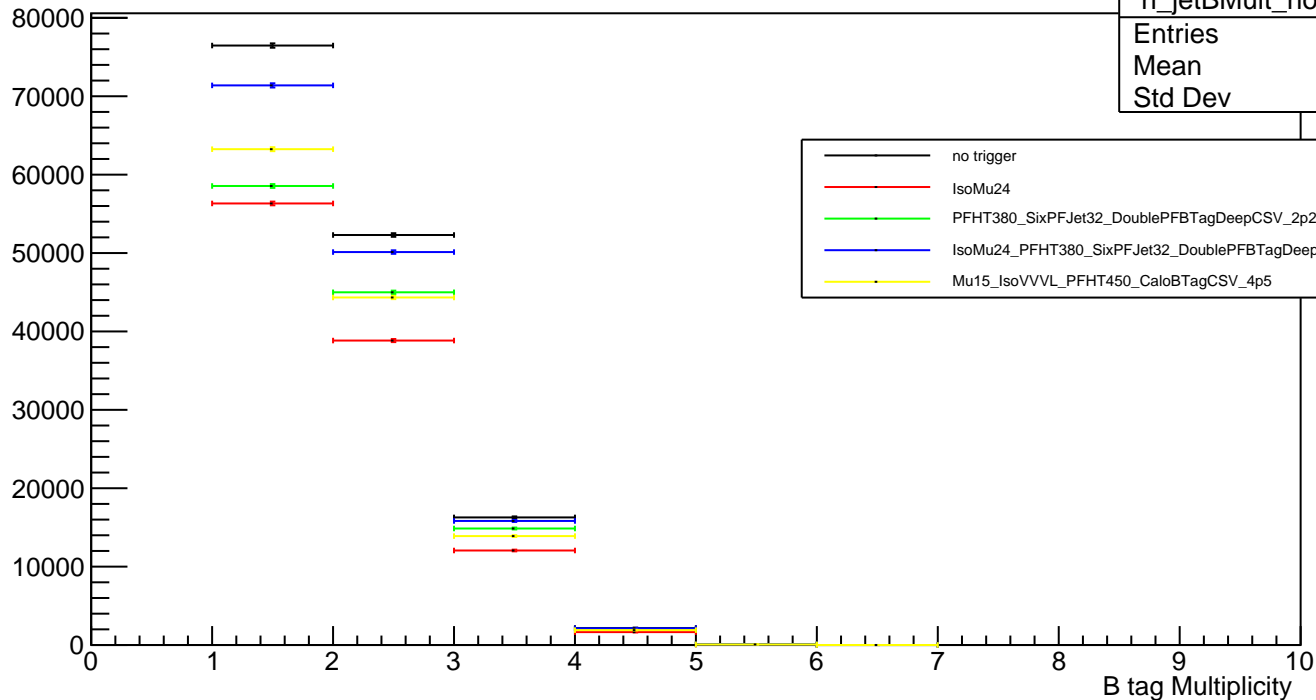


Number of Events per Number of Jets

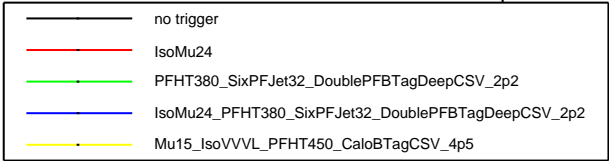


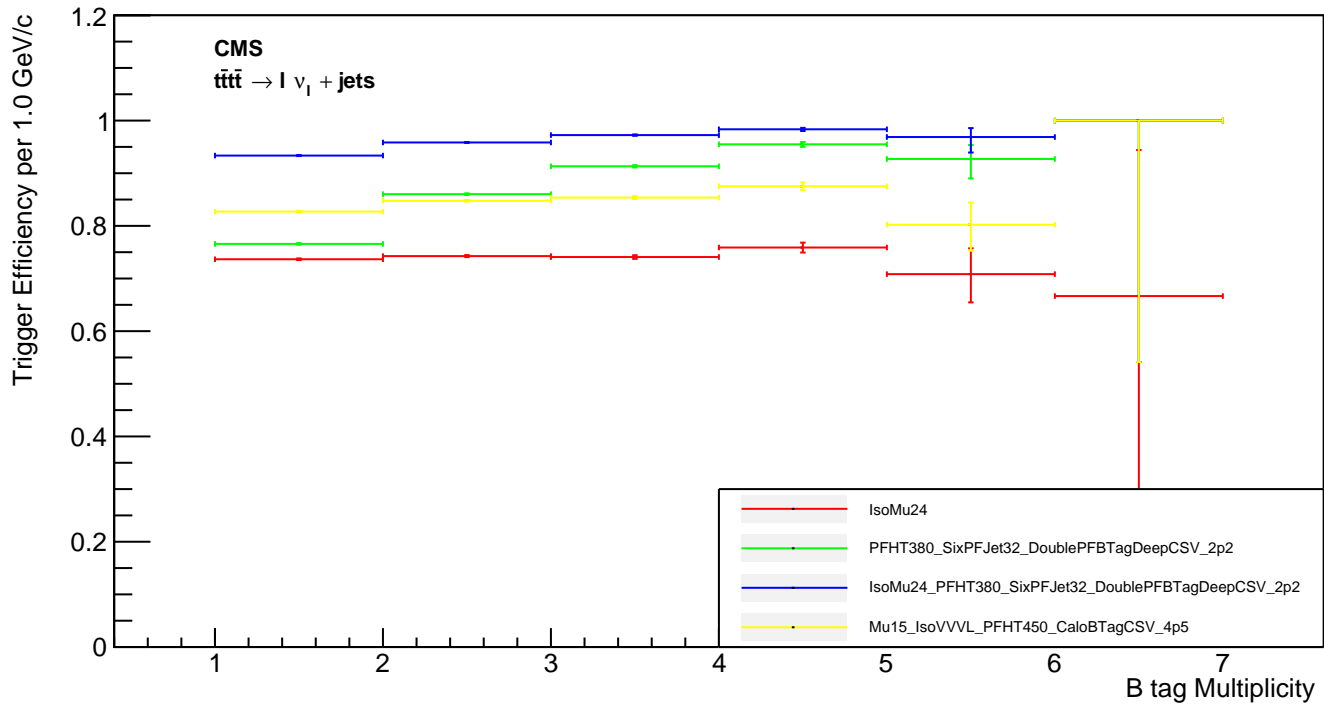


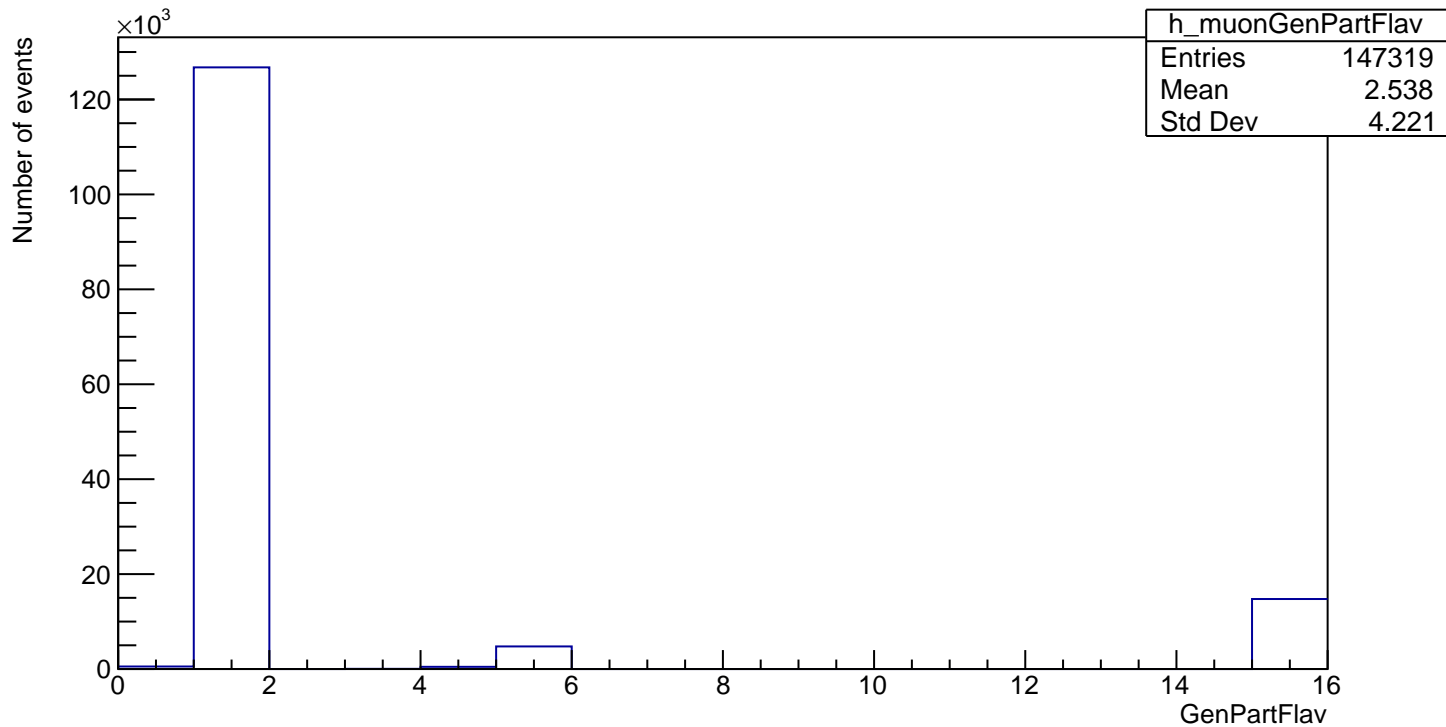
Number of Events per Number of Jets



h_jetBMult_notrigger	
Entries	147319
Mean	2.123
Std Dev	0.7434

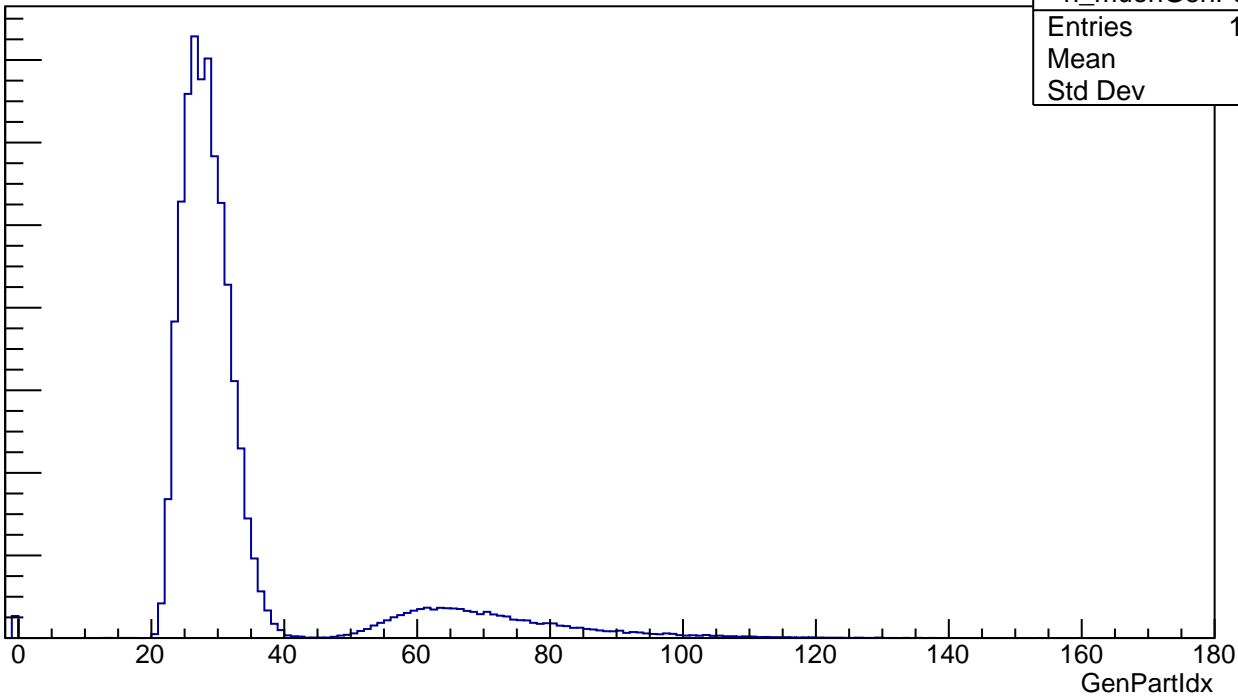






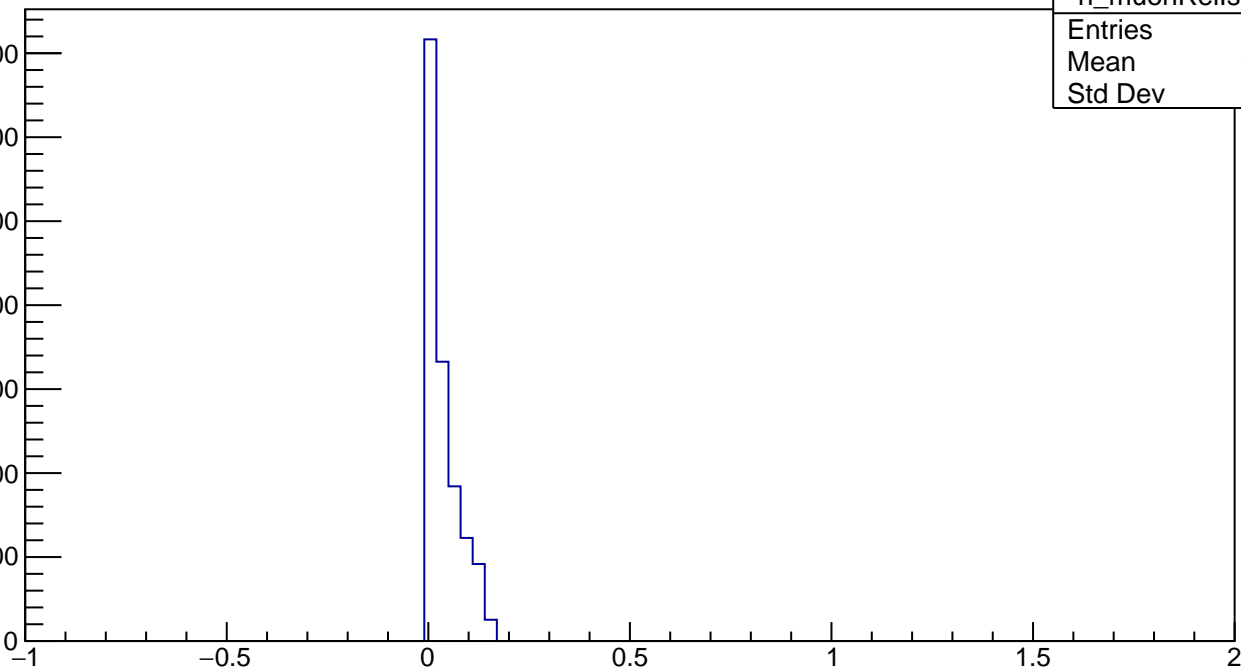
Number of events

14000
12000
10000
8000
6000
4000
2000
0



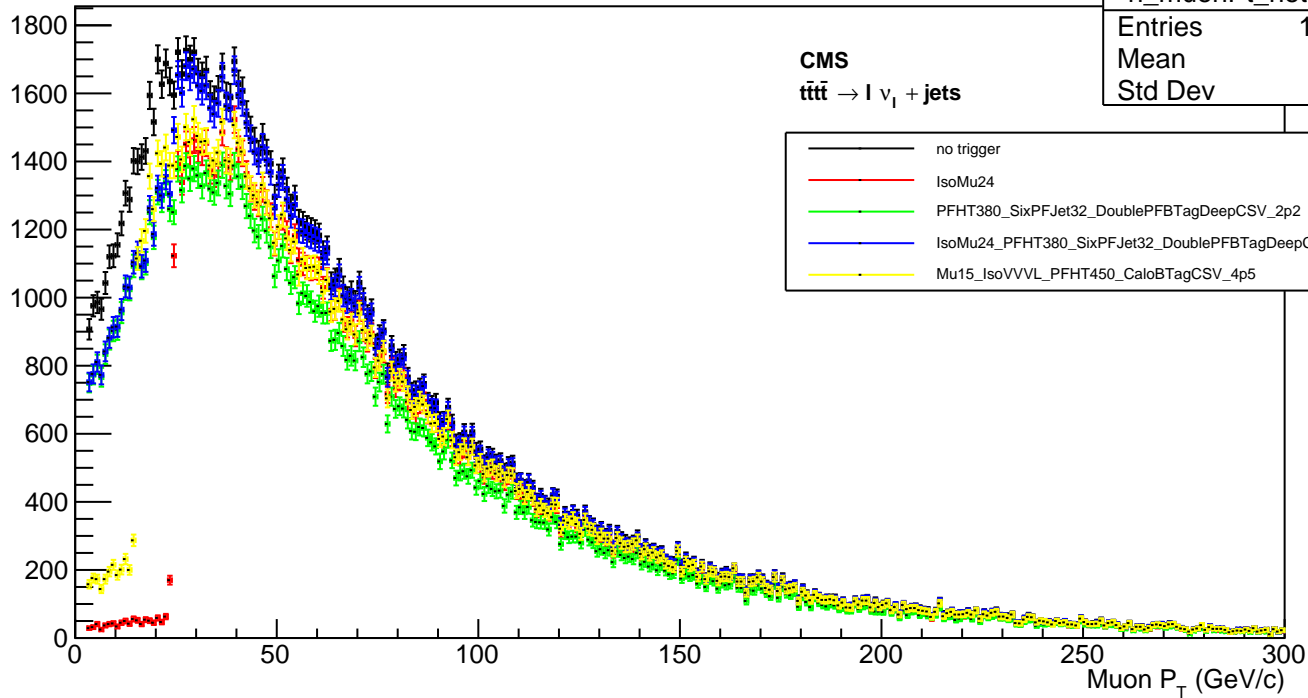
Number of Events

70000
60000
50000
40000
30000
20000
10000
0



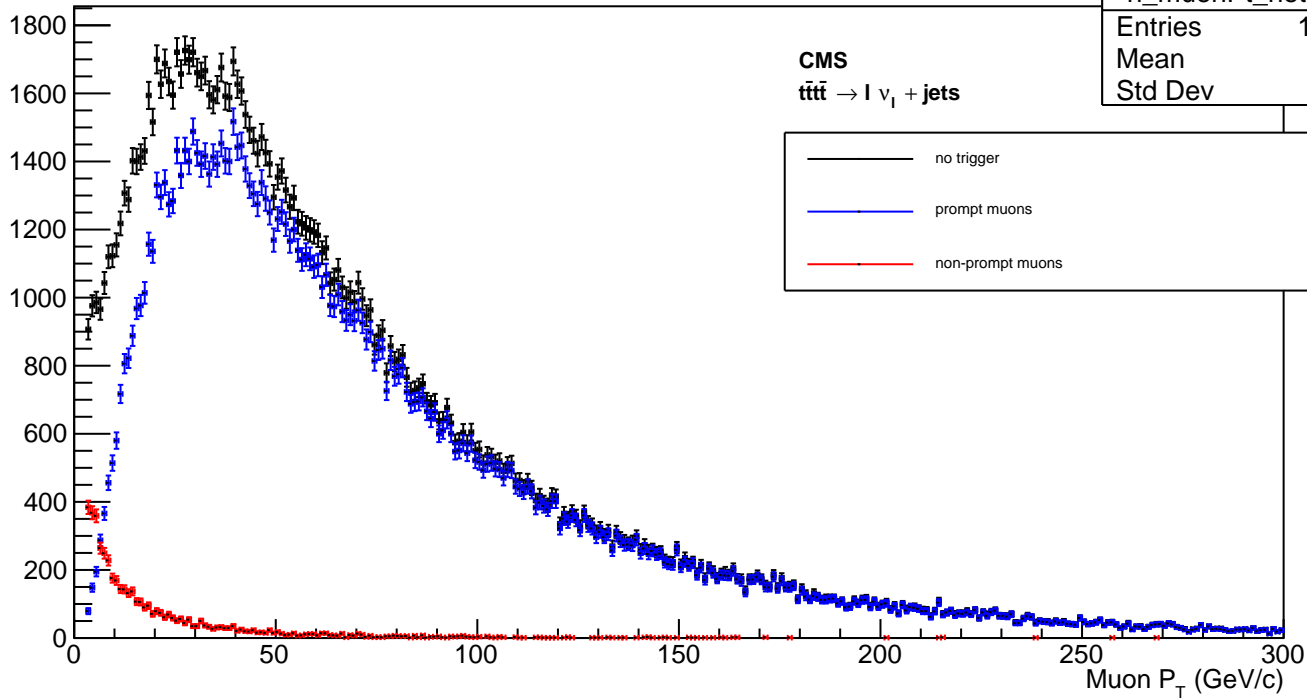
h_muonRellso04_all	
Entries	147319
Mean	0.03618
Std Dev	0.03983

Number of Events per 1 GeV/c

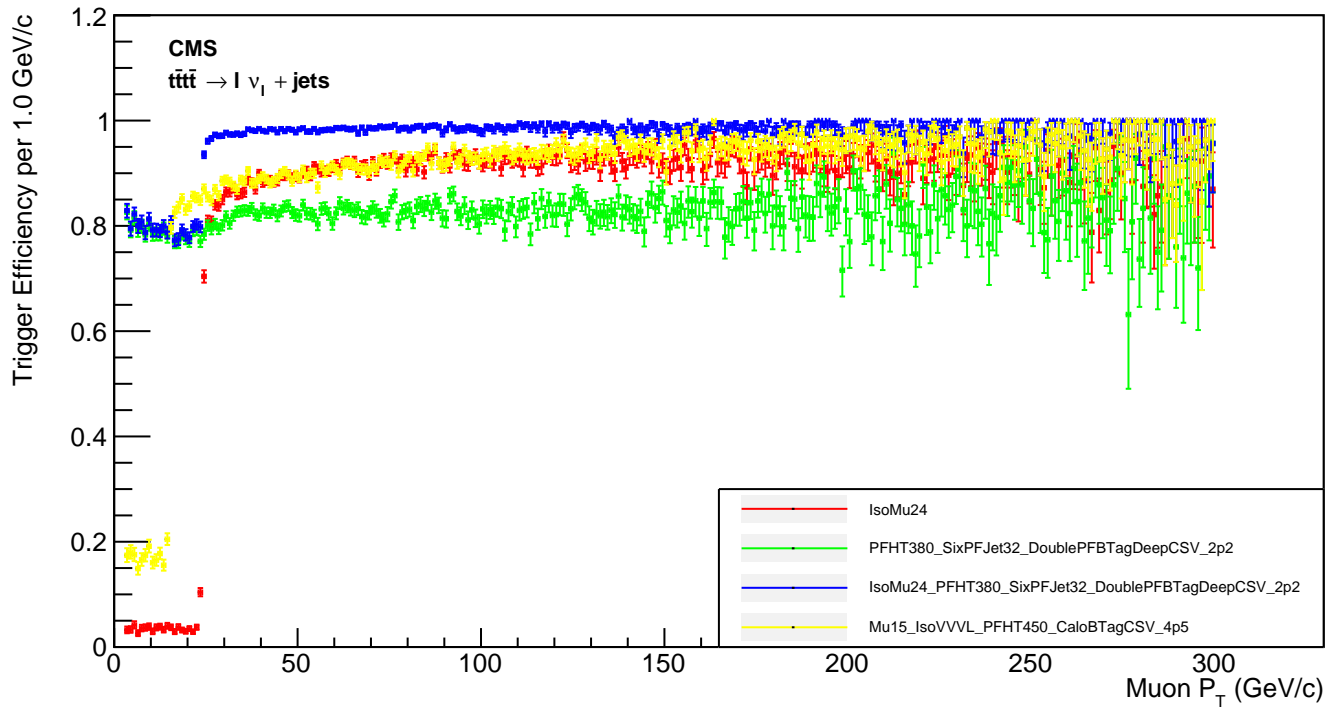


h_muonPt_notrigger	
Entries	147319
Mean	68.13
Std Dev	53.75

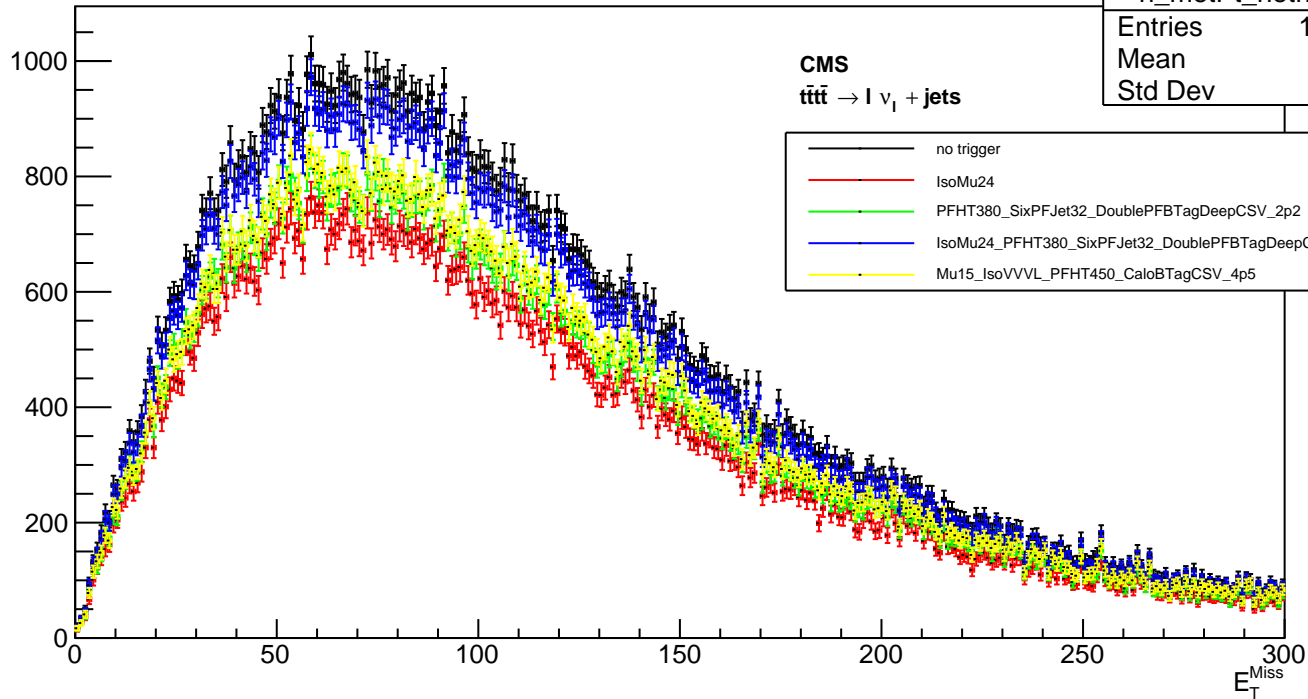
Number of Events per 1 GeV/c

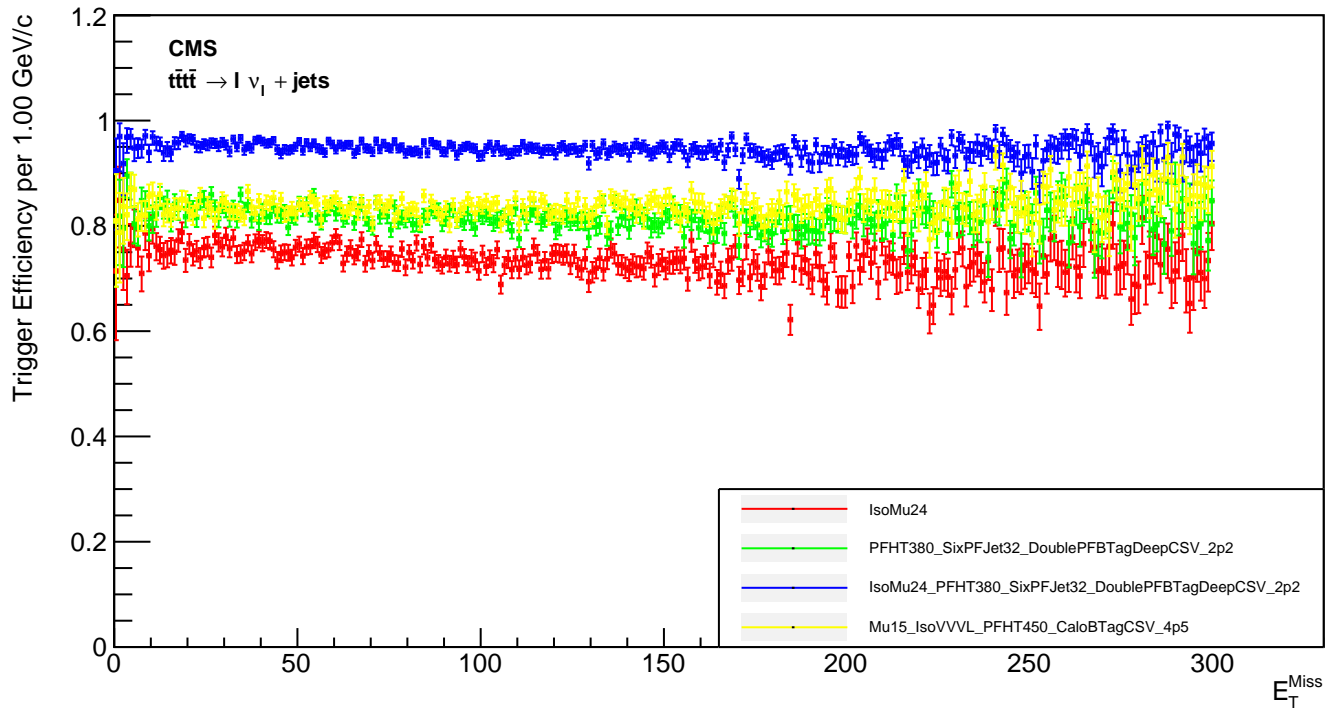


h_muonPt_notrigger	
Entries	147319
Mean	68.13
Std Dev	53.75

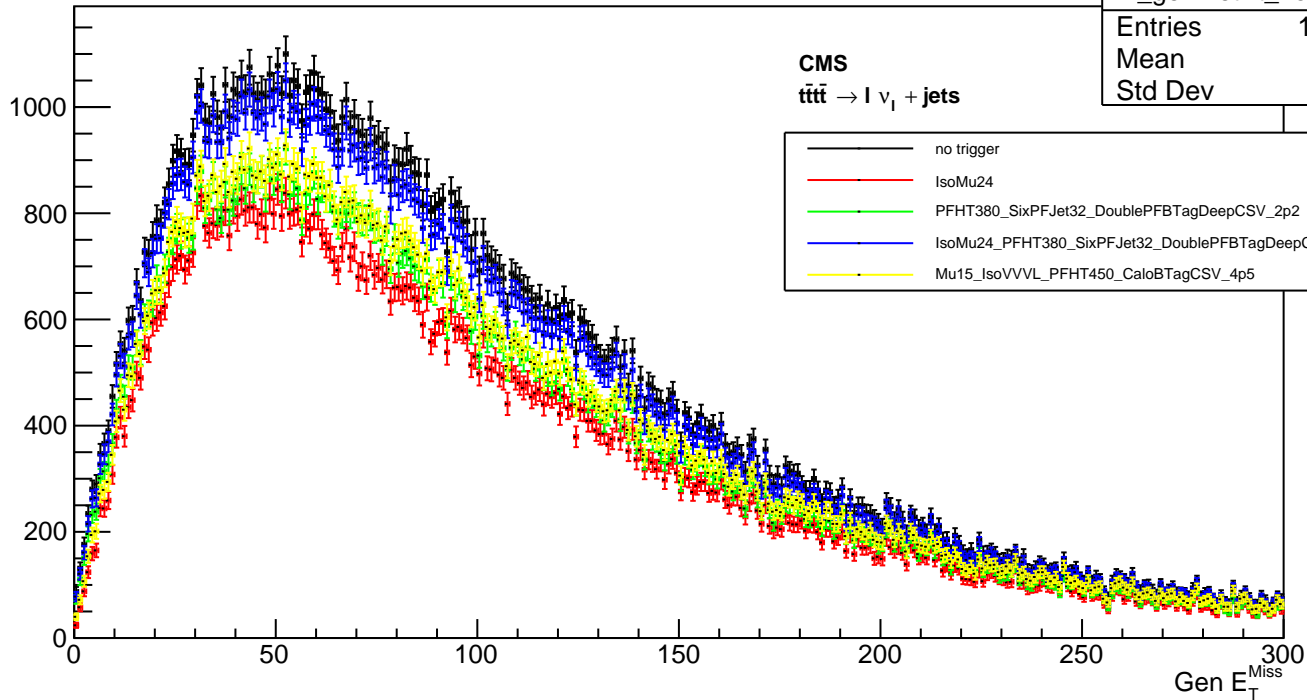


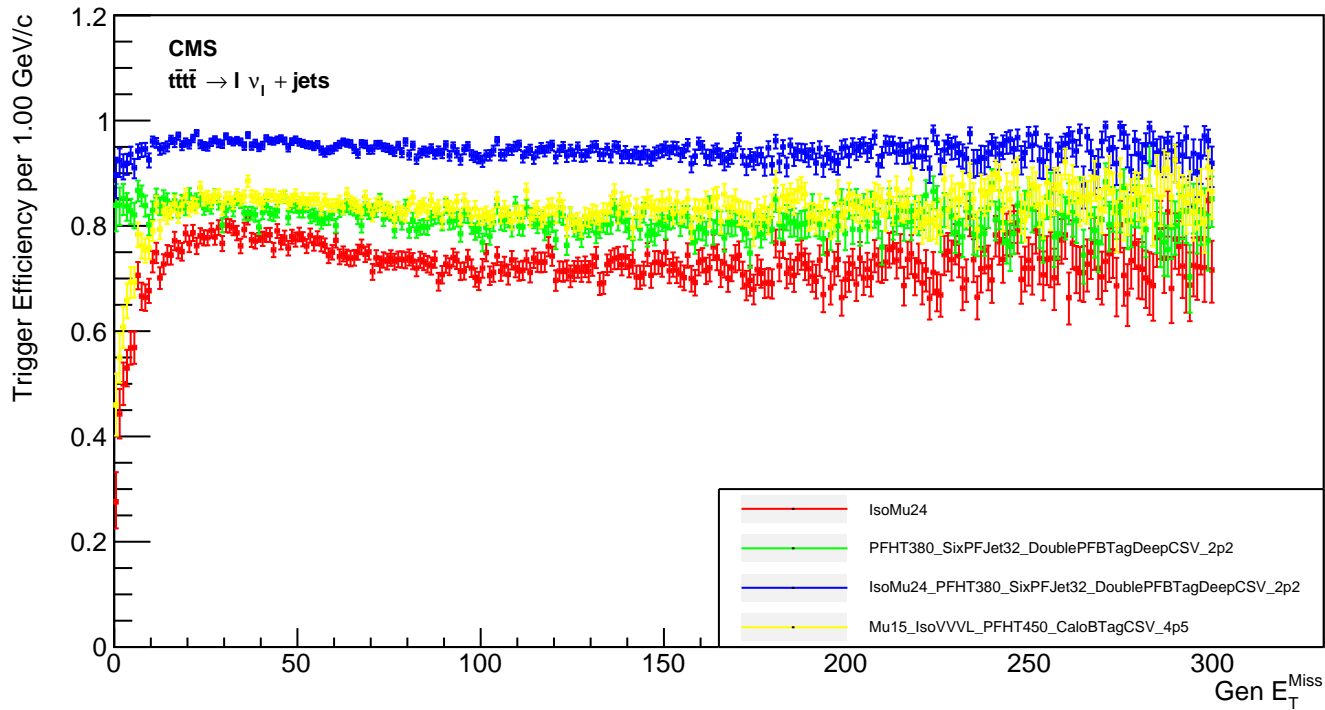
Number of Events per 1 GeV/c



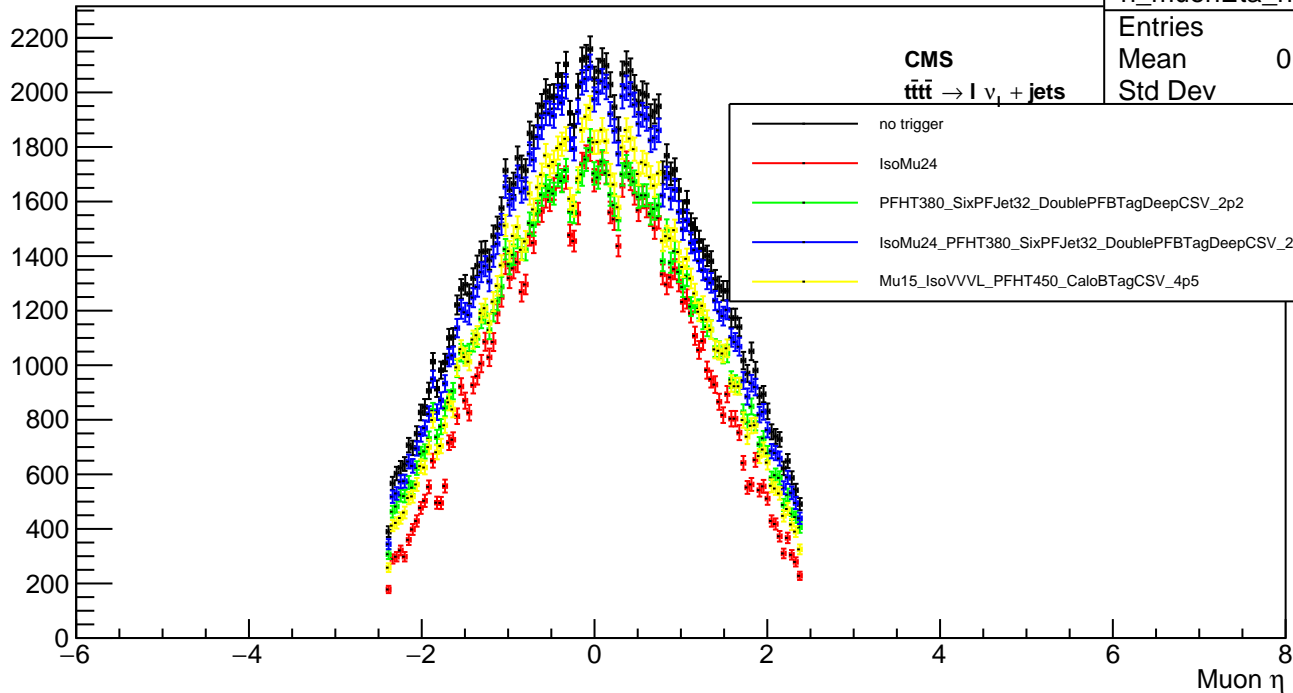


Number of Events per 1GeV/c



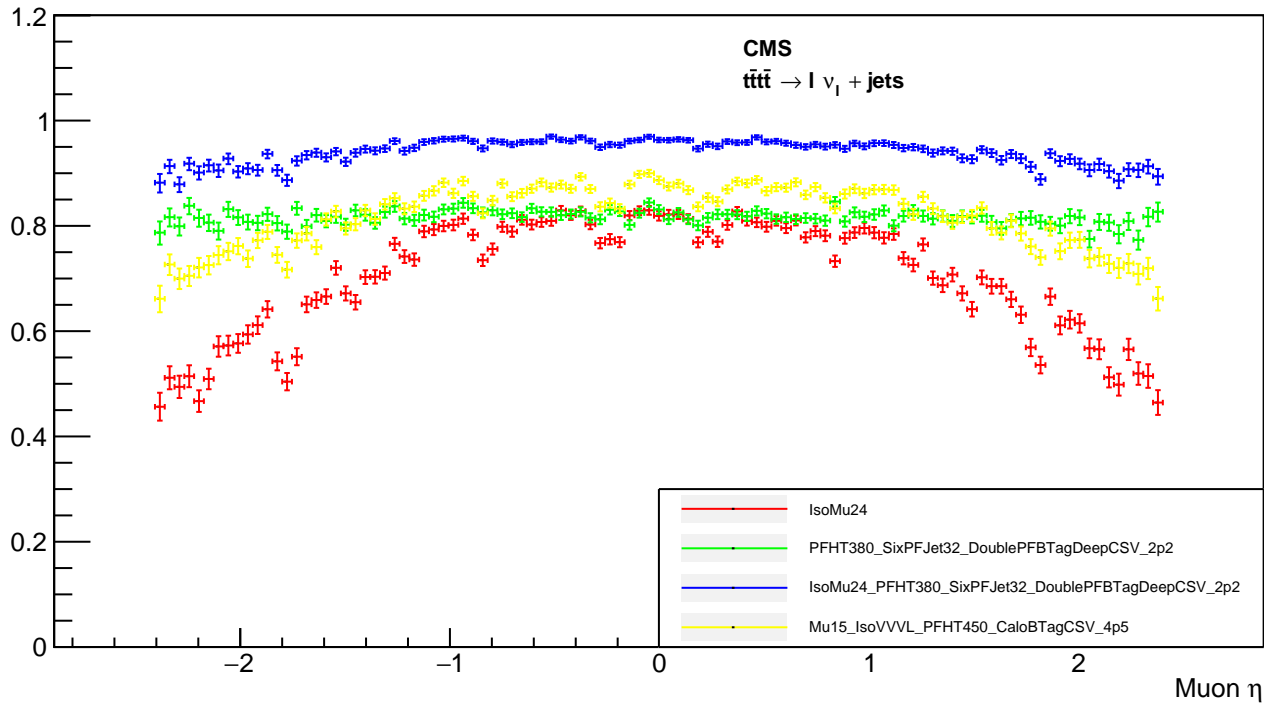


Number of Events per $\delta\eta = 0.046$

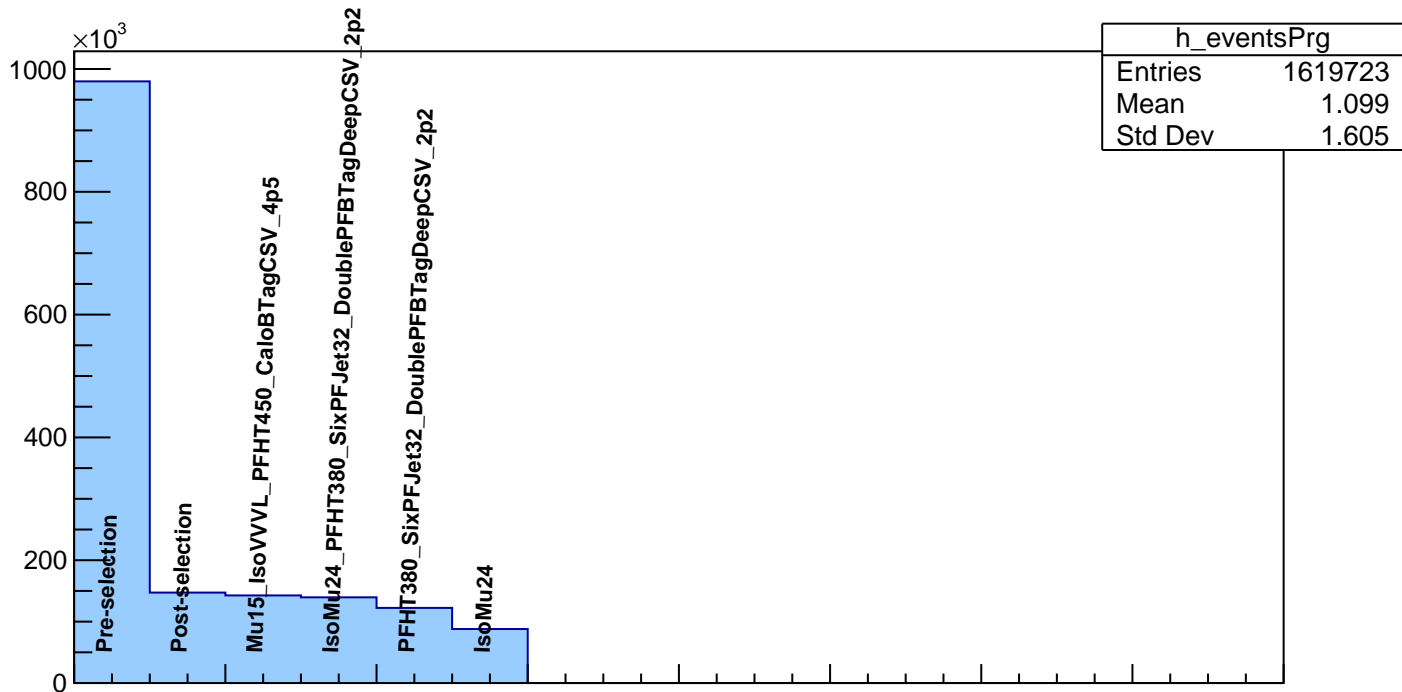


h_muonEta_notrigger	
Entries	147319
Mean	0.002562
Std Dev	1.15

Trigger Efficiency per 0.04666666666666667 GeV/c



Total Number of Accepted Events



Cuts and Triggers