

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

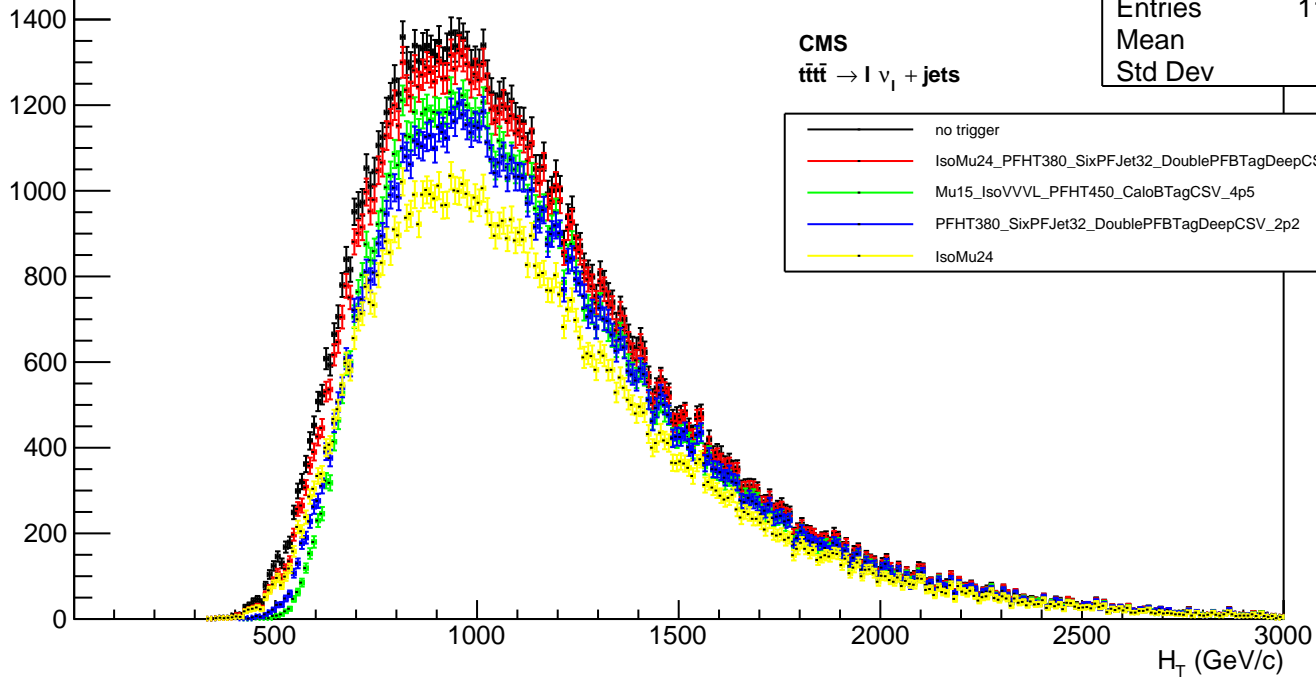
- **Jets:** number  $> 5$
- **Muons:** number  $> 0$
- **Electrons:** number  $> 0$

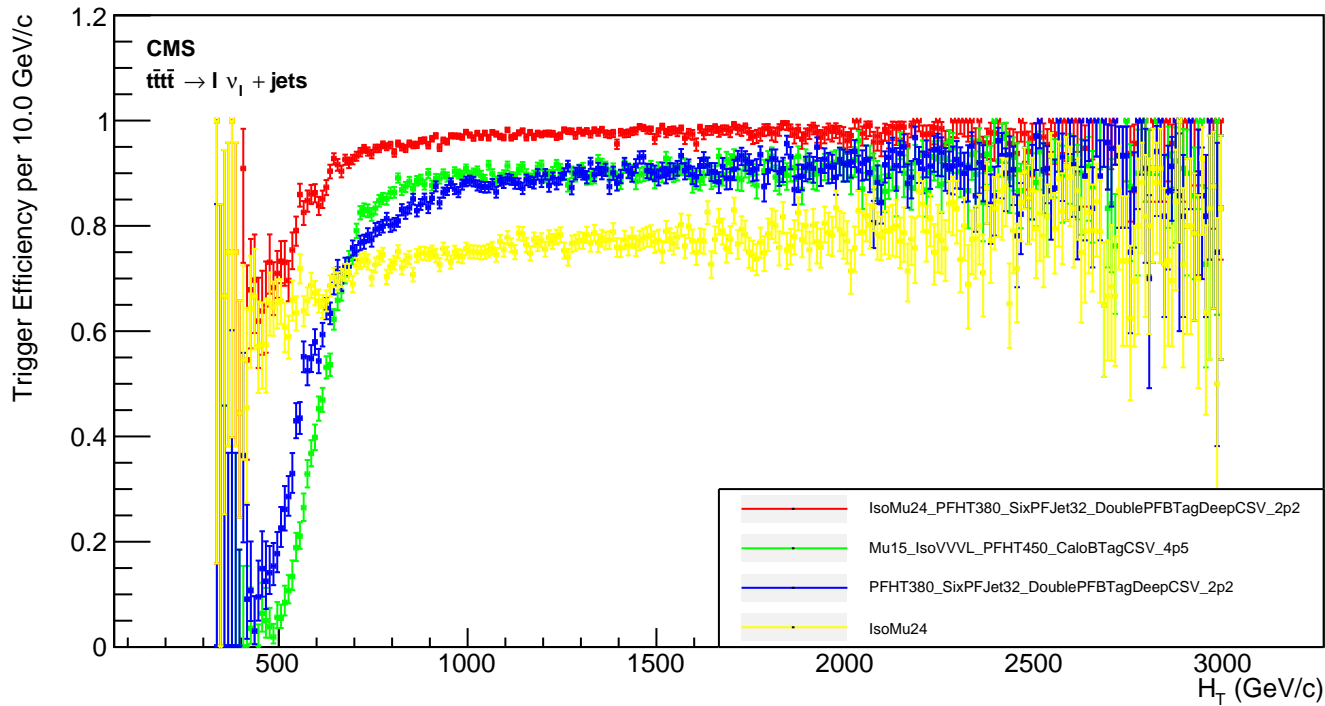
**Event Limit:** None (see last page)

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

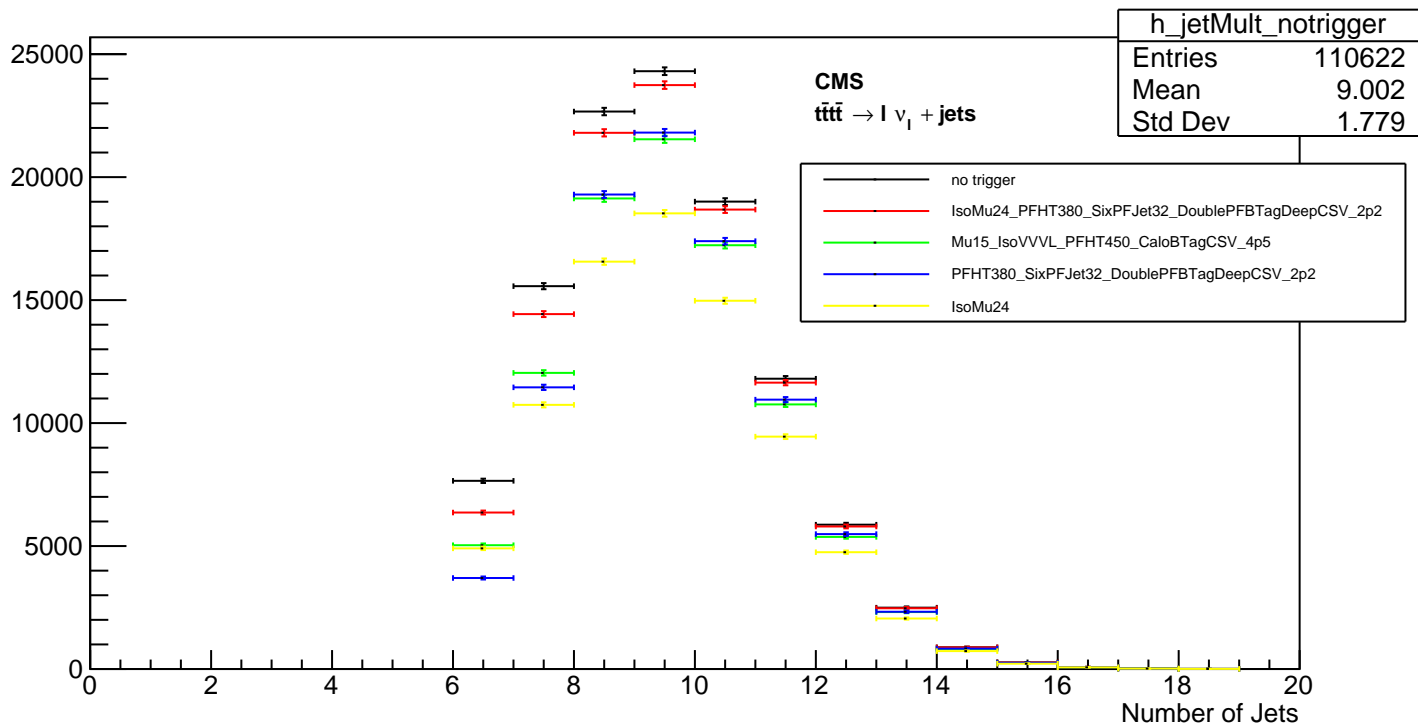
- **Jets:**  $\text{jetId} > 2$  ,  $p_T > 30$  and  $|\eta| < 2.4$  (for at least 6)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{miniPFRellso\_all} < 0.15$  (for at least 1)

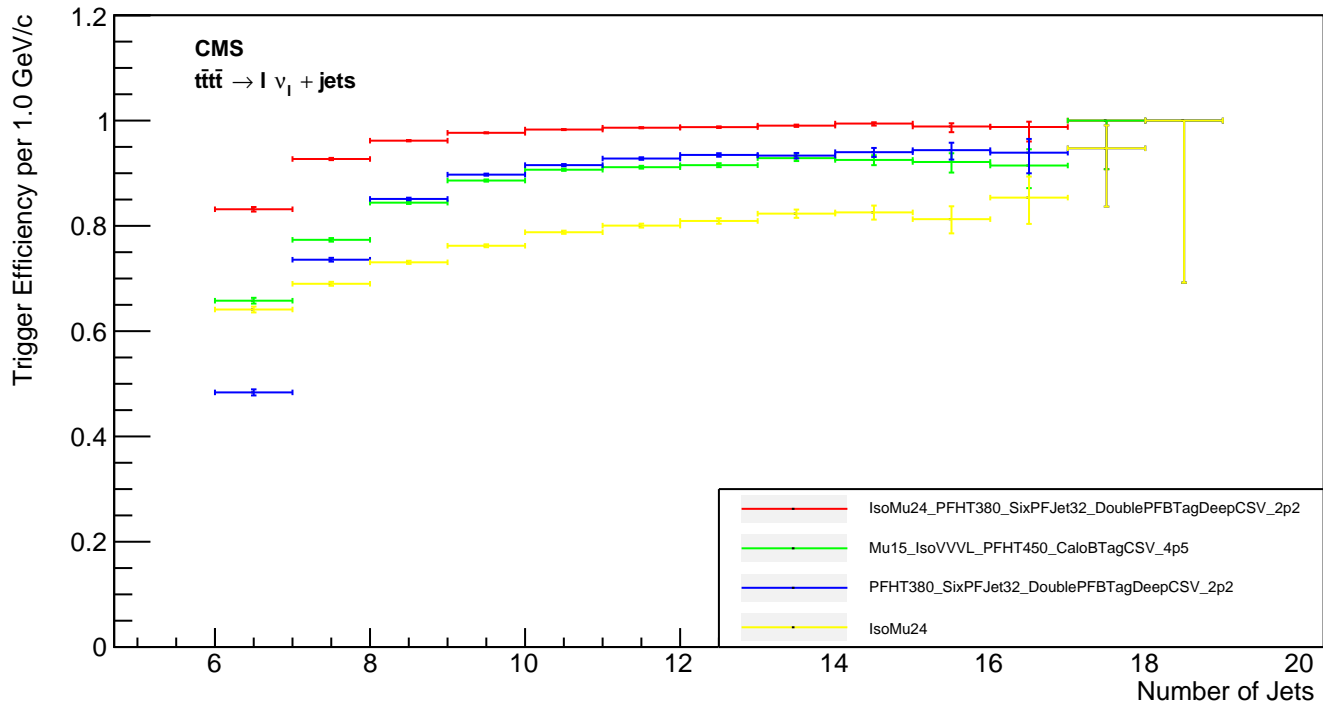
Number of Events per 10 GeV/c



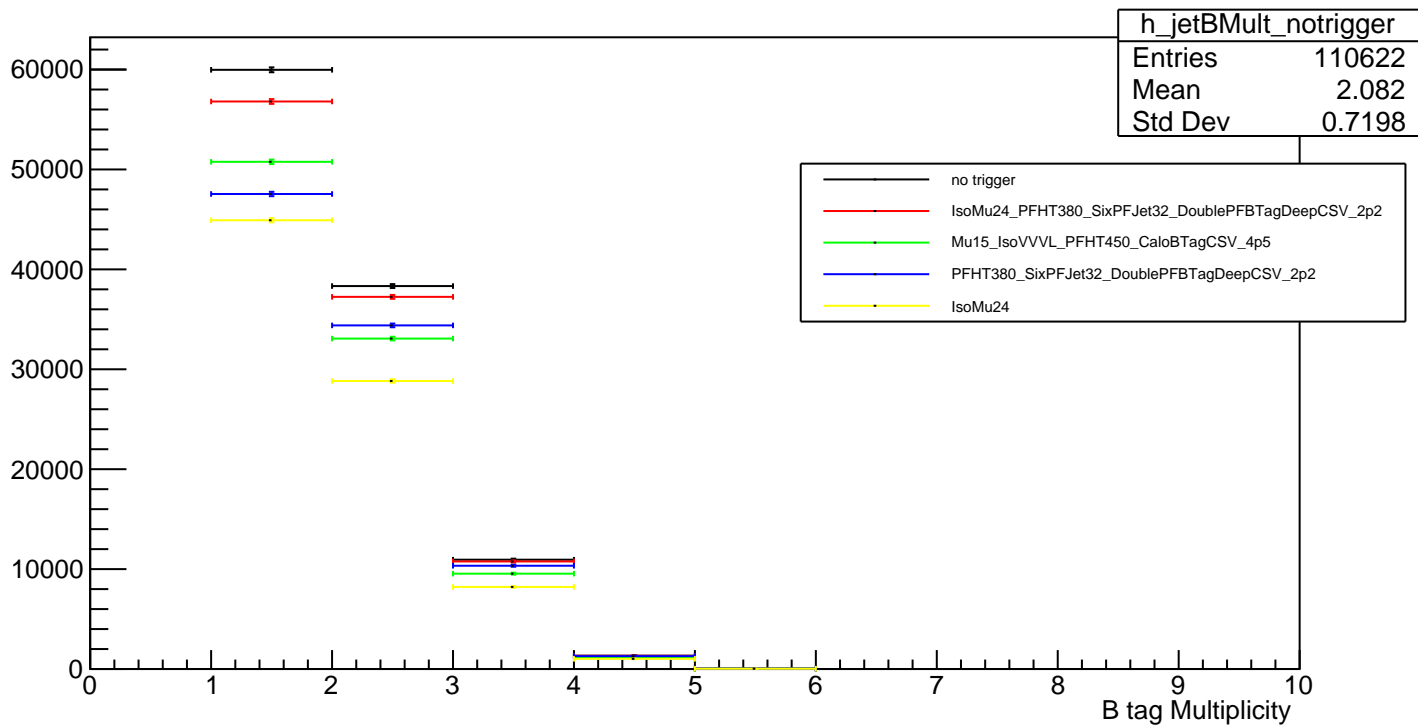


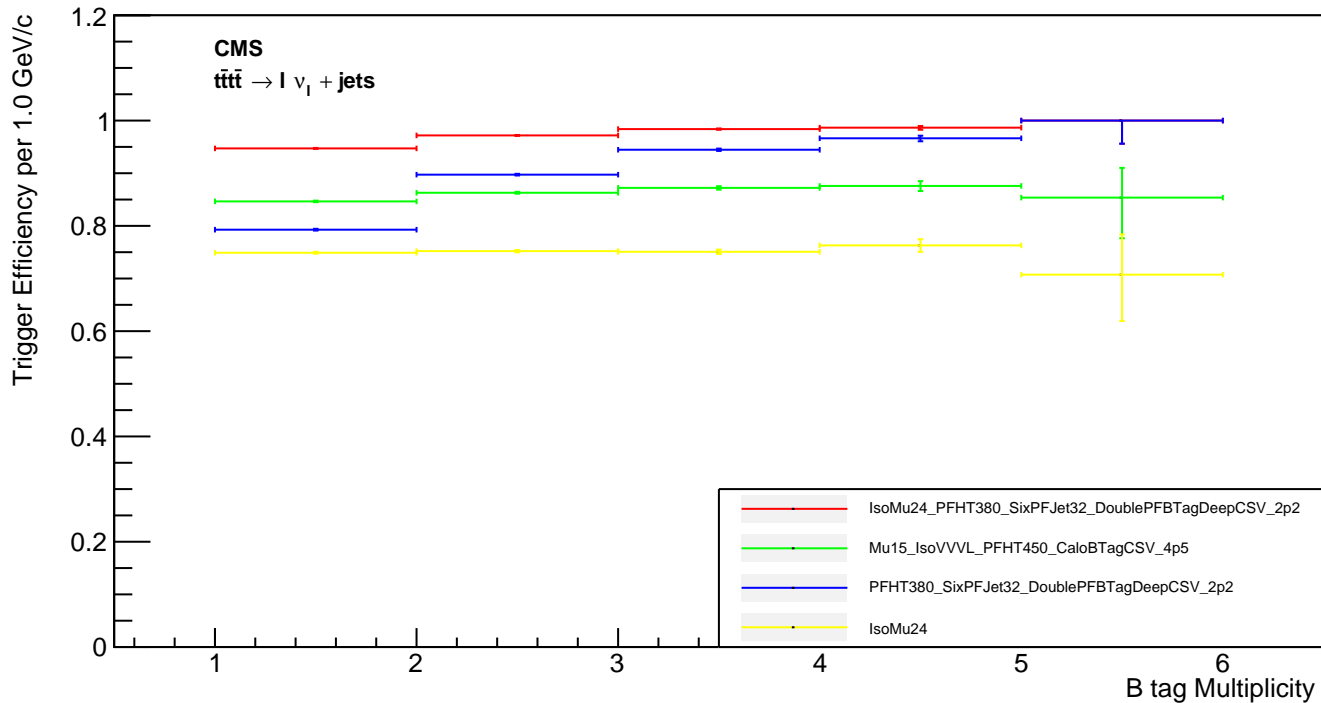
Number of Events per Number of Jets

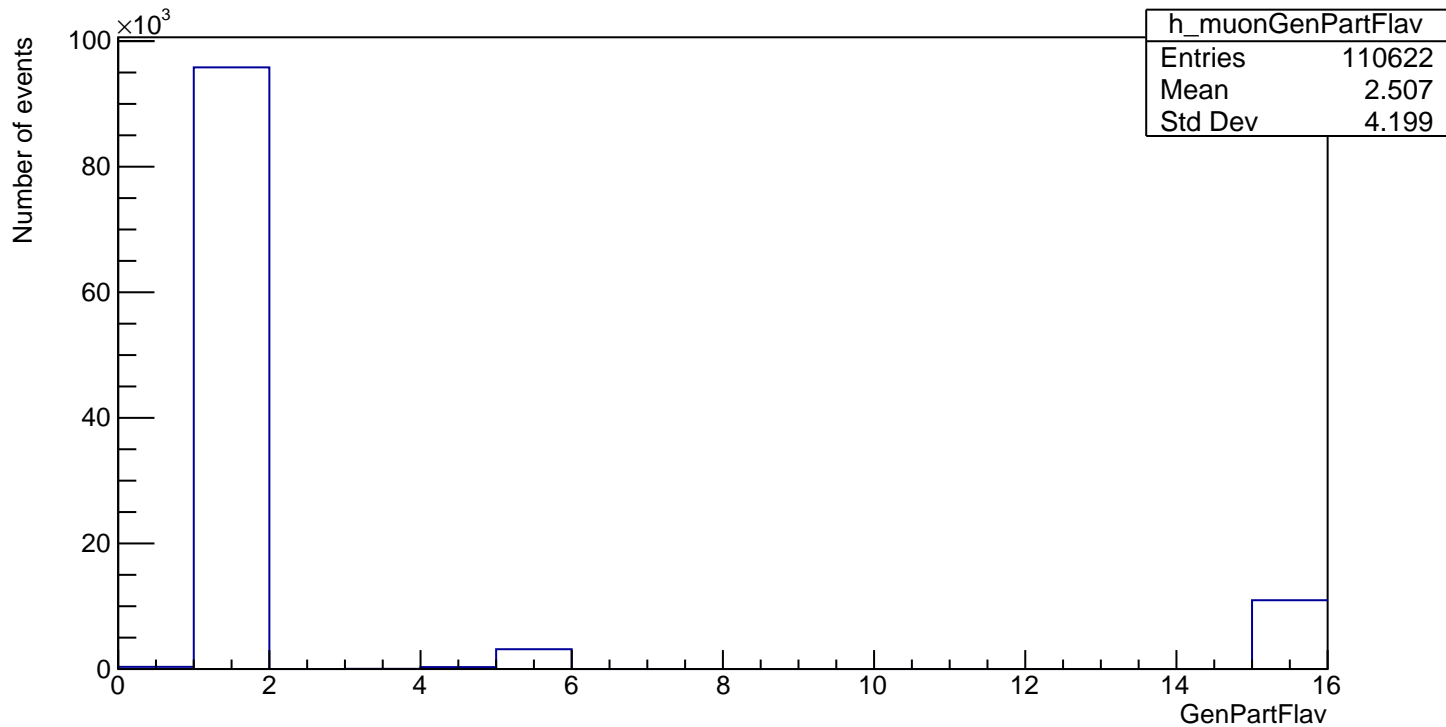




Number of Events per Number of Jets

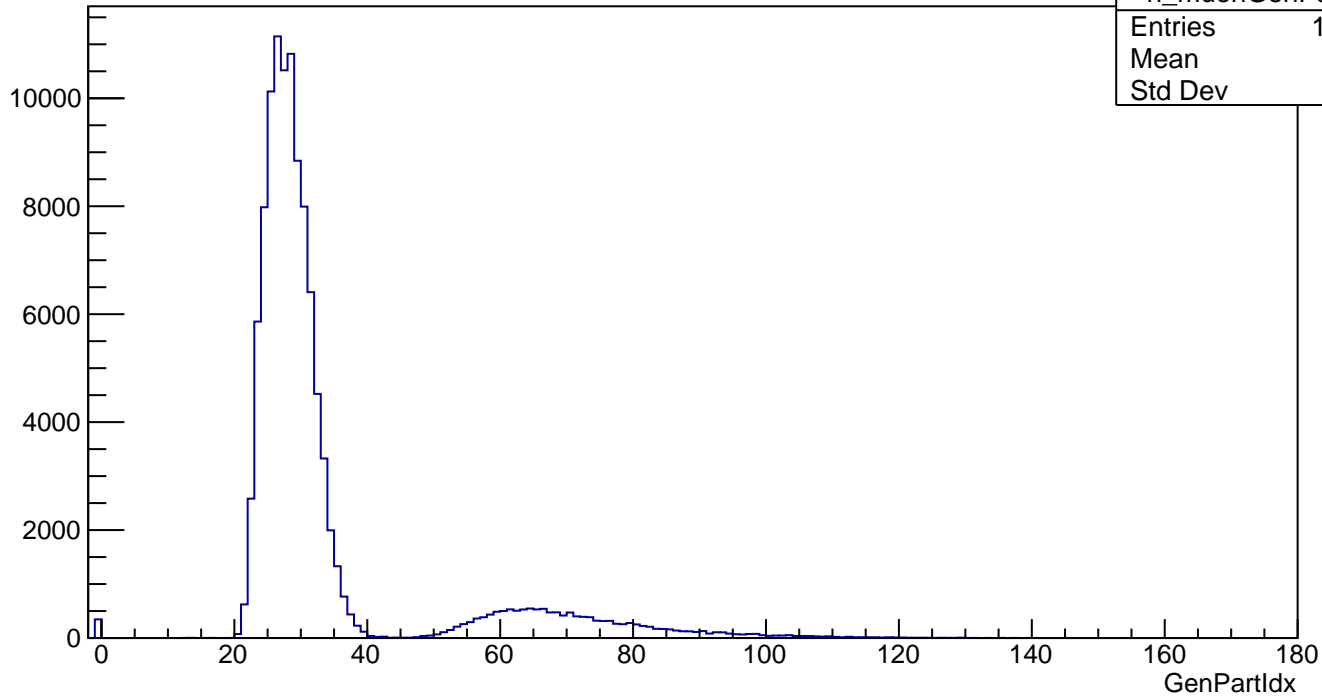


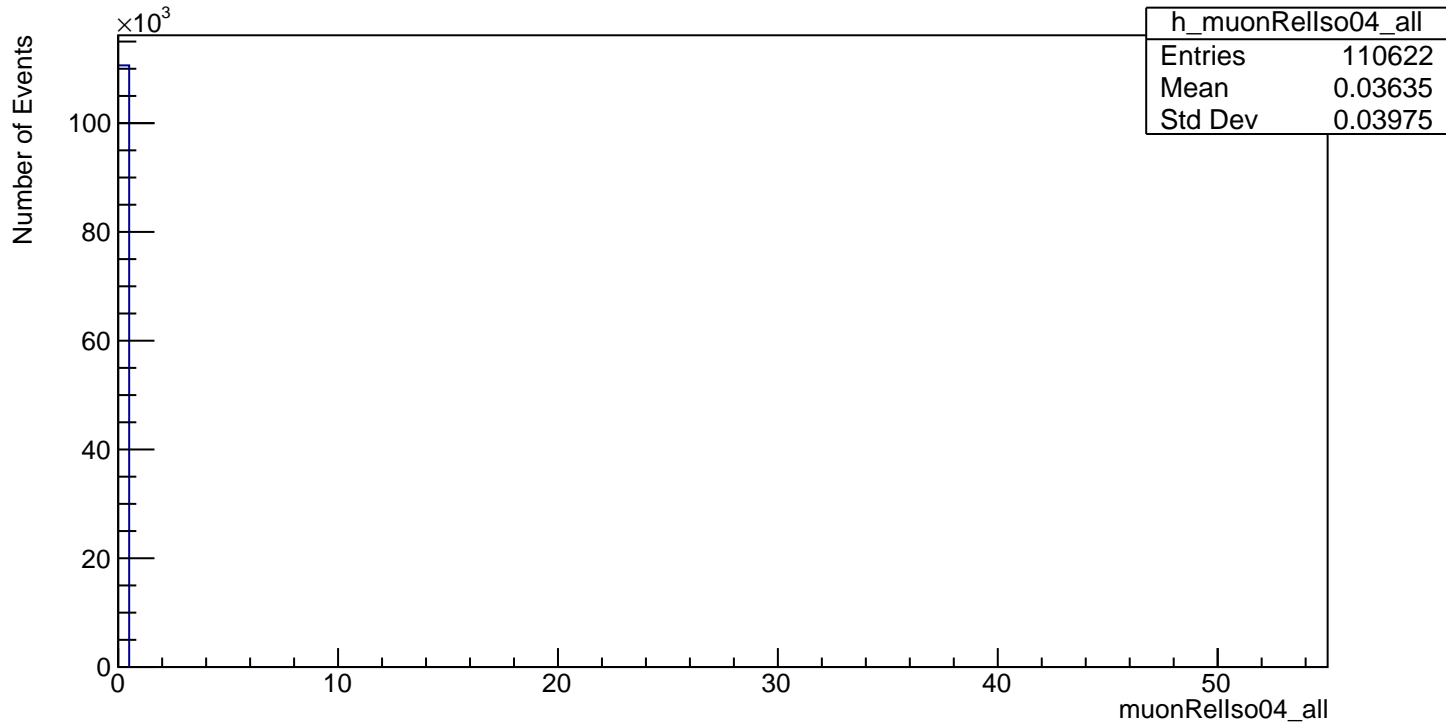




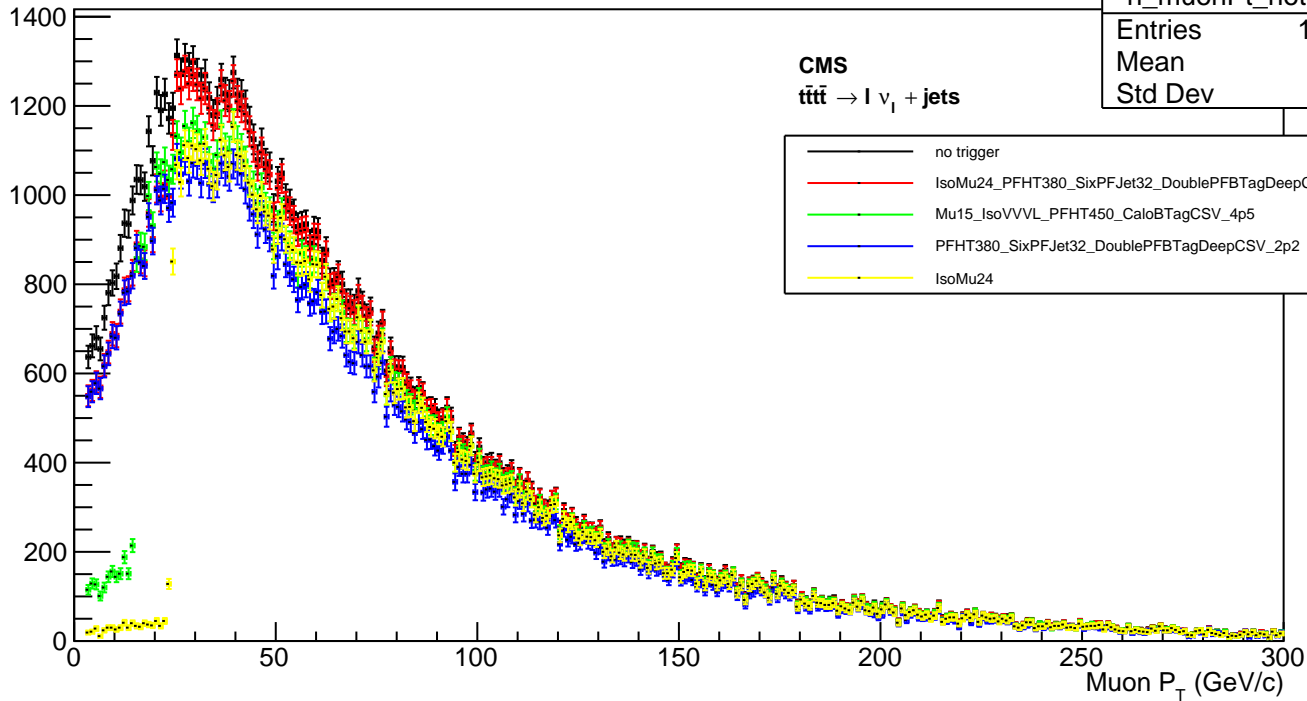


Number of events



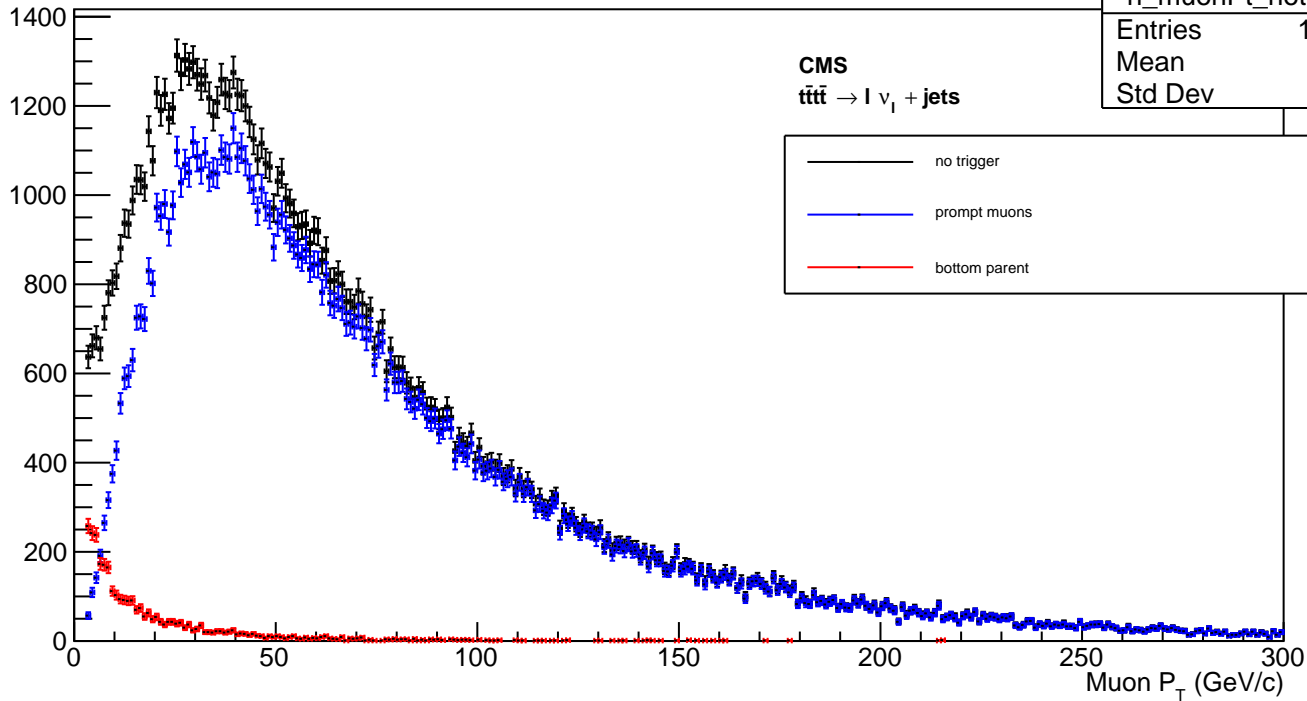


Number of Events per 1 GeV/c

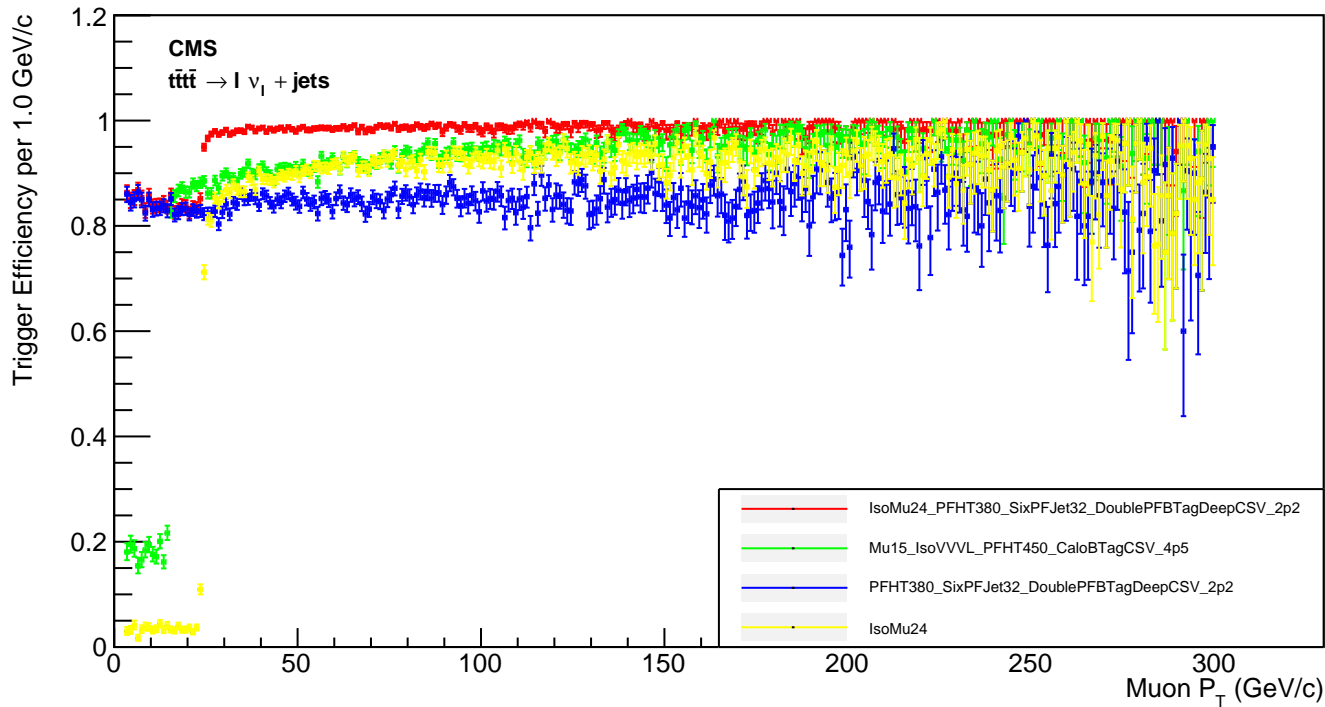


h_muonPt_notrigger	
Entries	110622
Mean	68.62
Std Dev	53.53

Number of Events per 1 GeV/c



h_muonPt_notrigger	
Entries	110622
Mean	68.62
Std Dev	53.53



Number of Events per 1 GeV/c

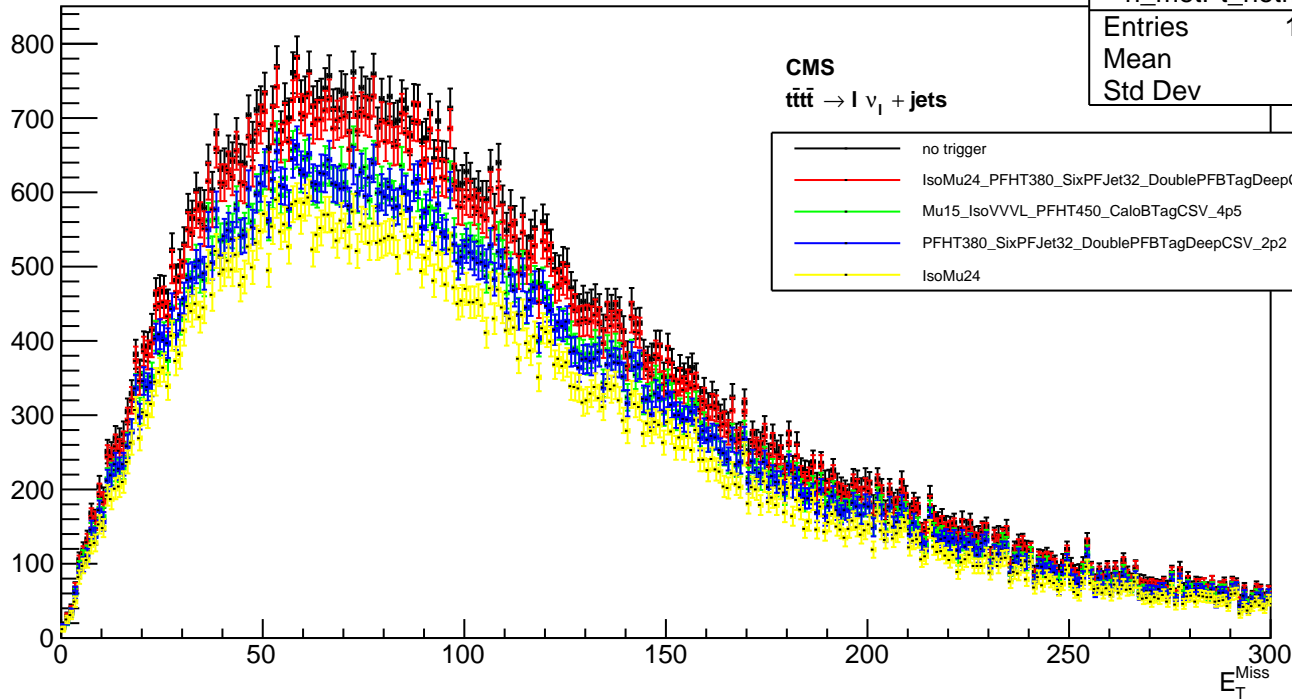
**CMS**

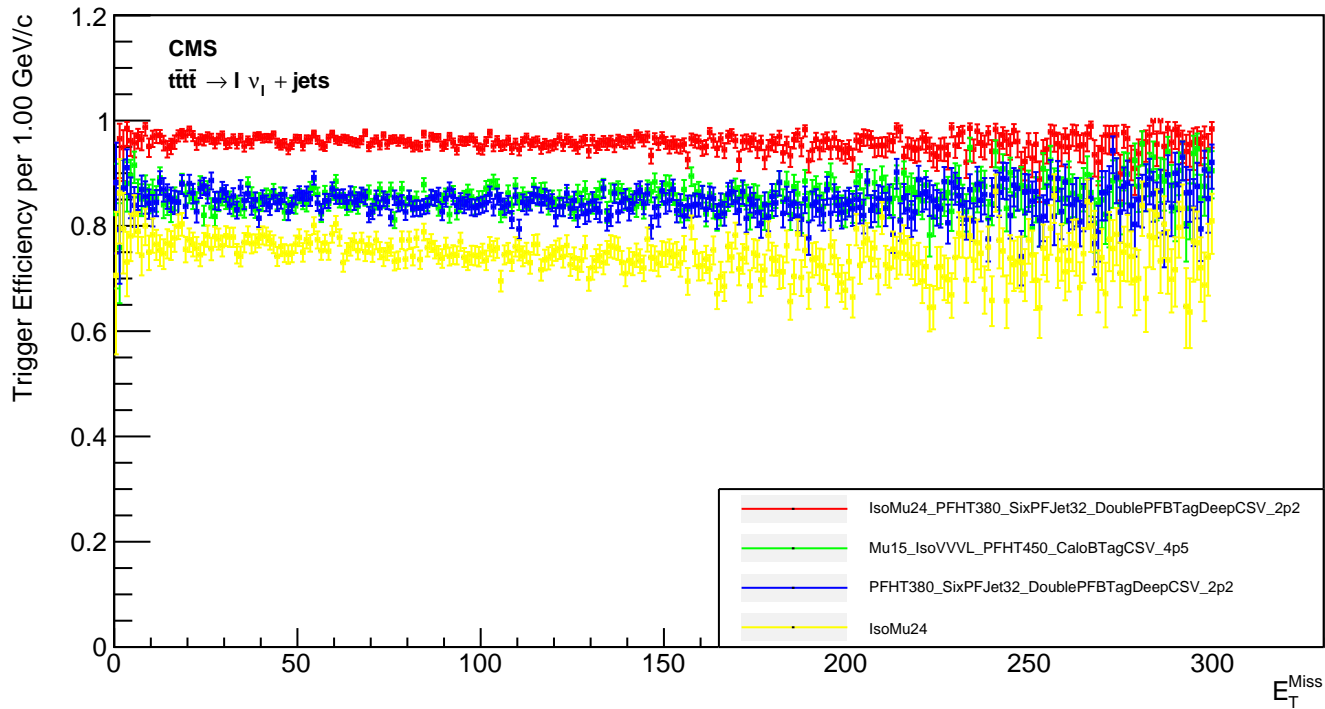
$t\bar{t}t\bar{t} \rightarrow l \nu_l + \text{jets}$

h\_metPt\_notrigger

Entries	110622
Mean	107.3
Std Dev	64.66

—	no trigger
—	IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
—	Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5
—	PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
—	IsoMu24





Number of Events per 1GeV/c

**CMS**

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

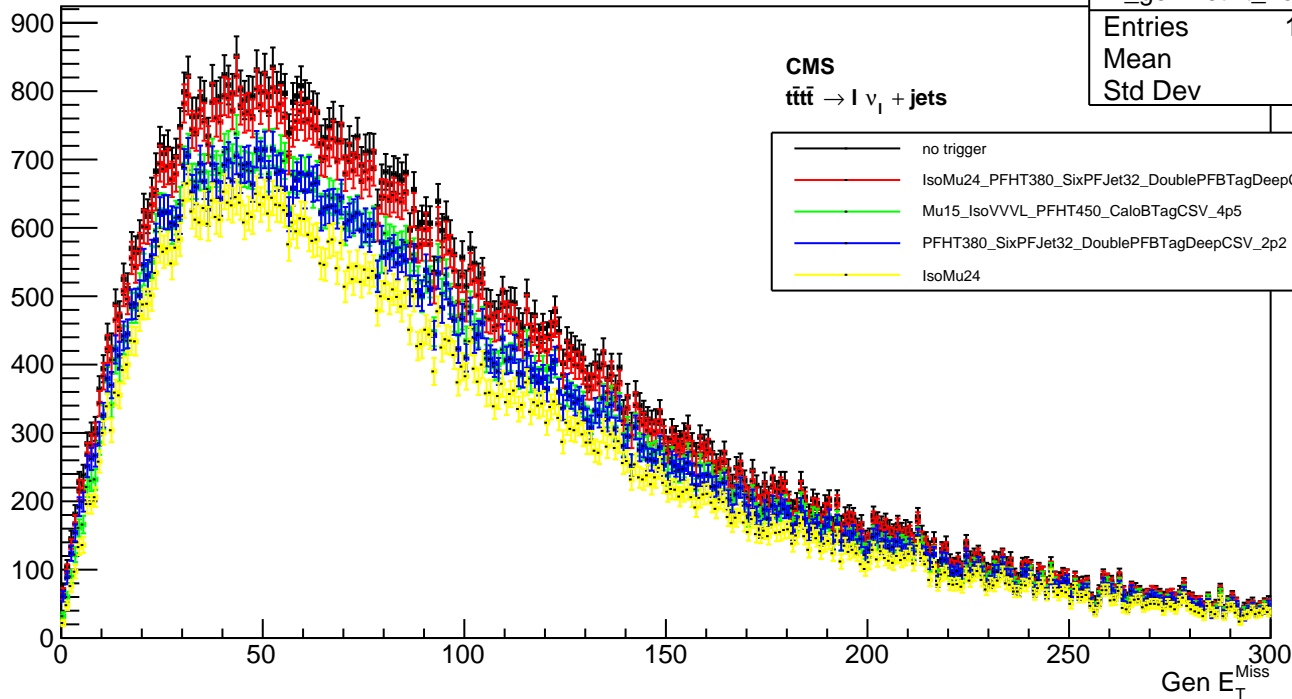
h\_genMetPt\_notrigger

Entries 110622

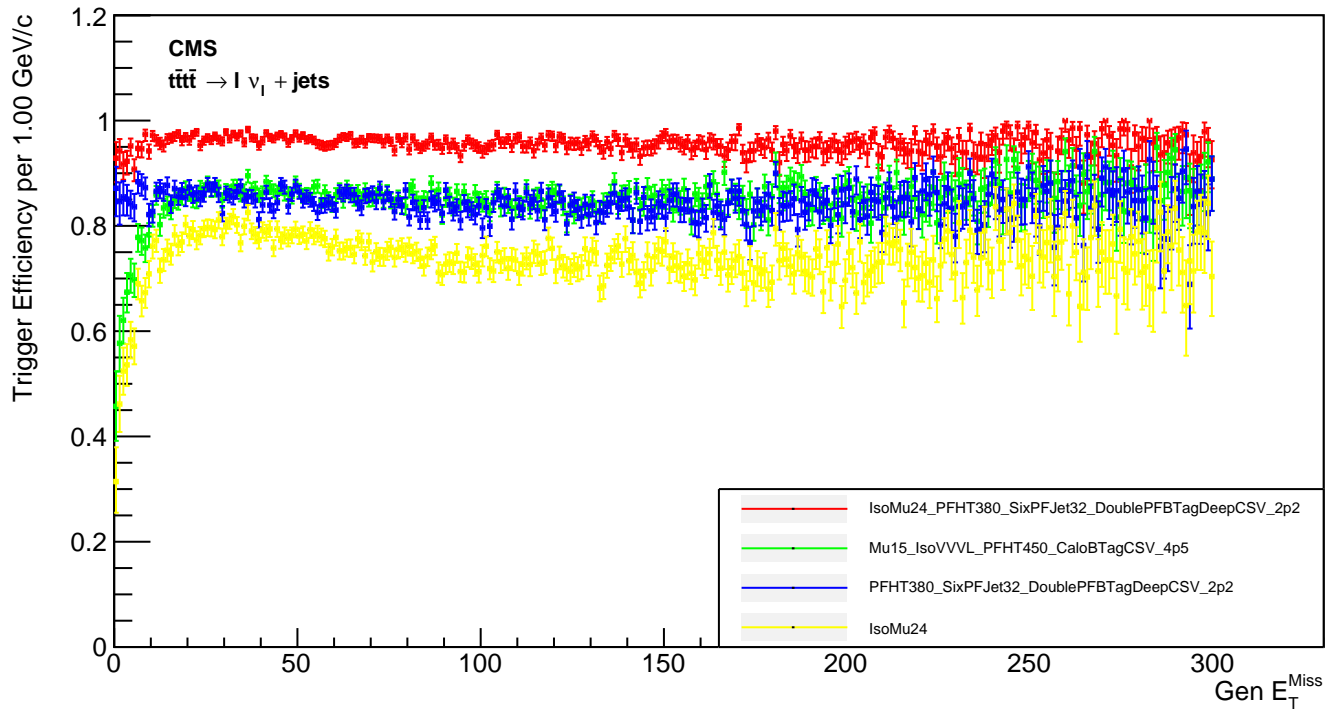
Mean 96.05

Std Dev 64.66

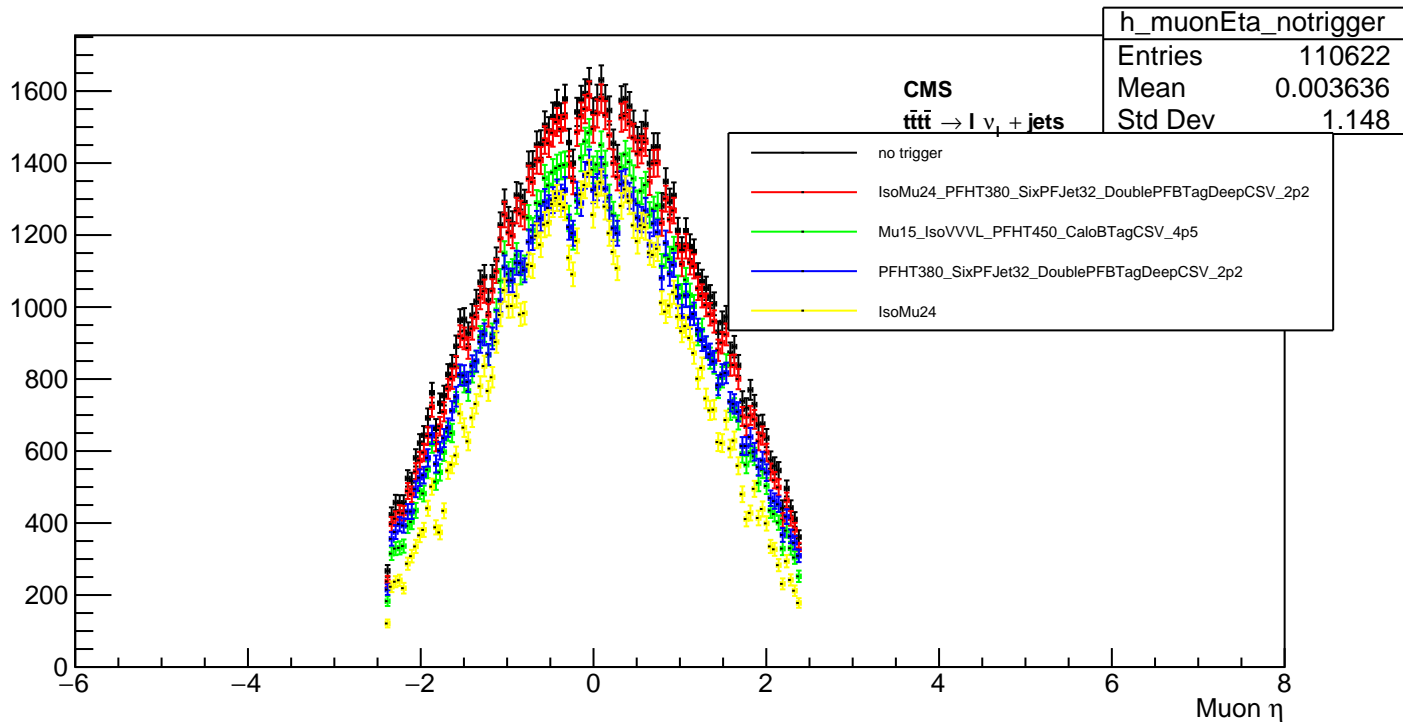
- no trigger
- IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2
- Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5
- PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2
- IsoMu24







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



Trigger Efficiency per 0.0466666666667 GeV/c

