

On-line (pre-)selection Requisites for:

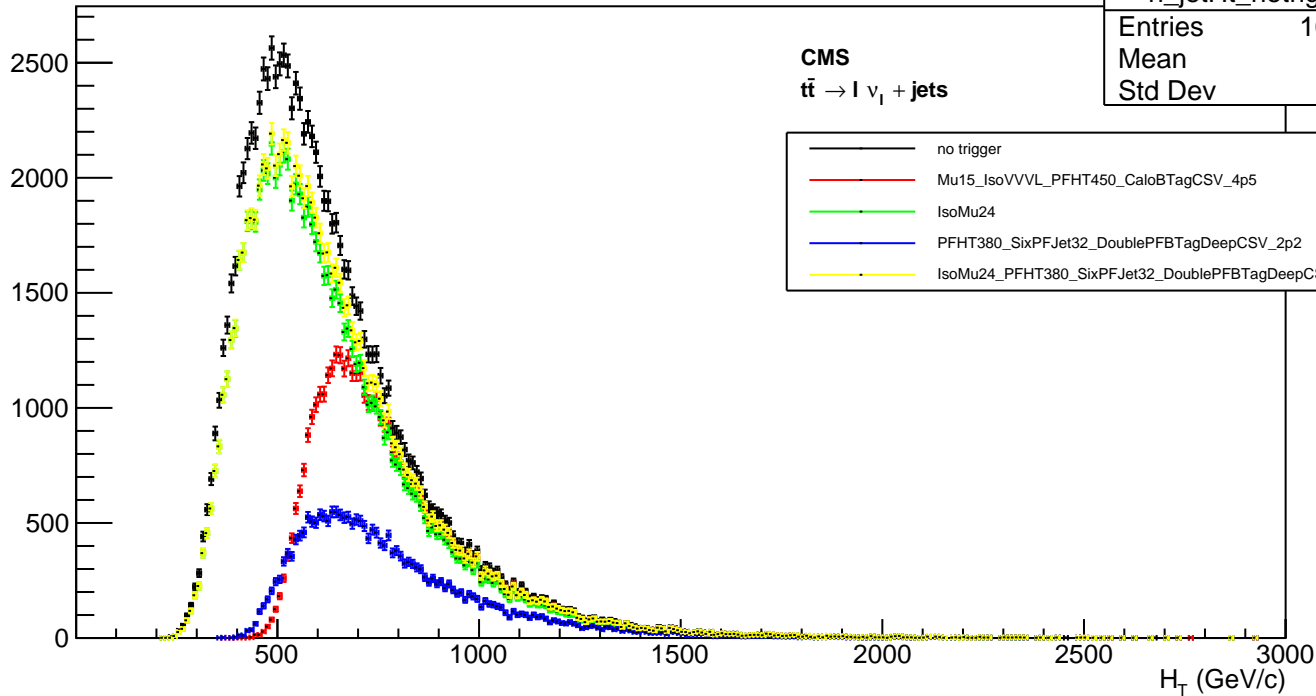
- **Jets:** number > 5
- **Muons:** number > 0
- **Electrons:** number > 0

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



CMS

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

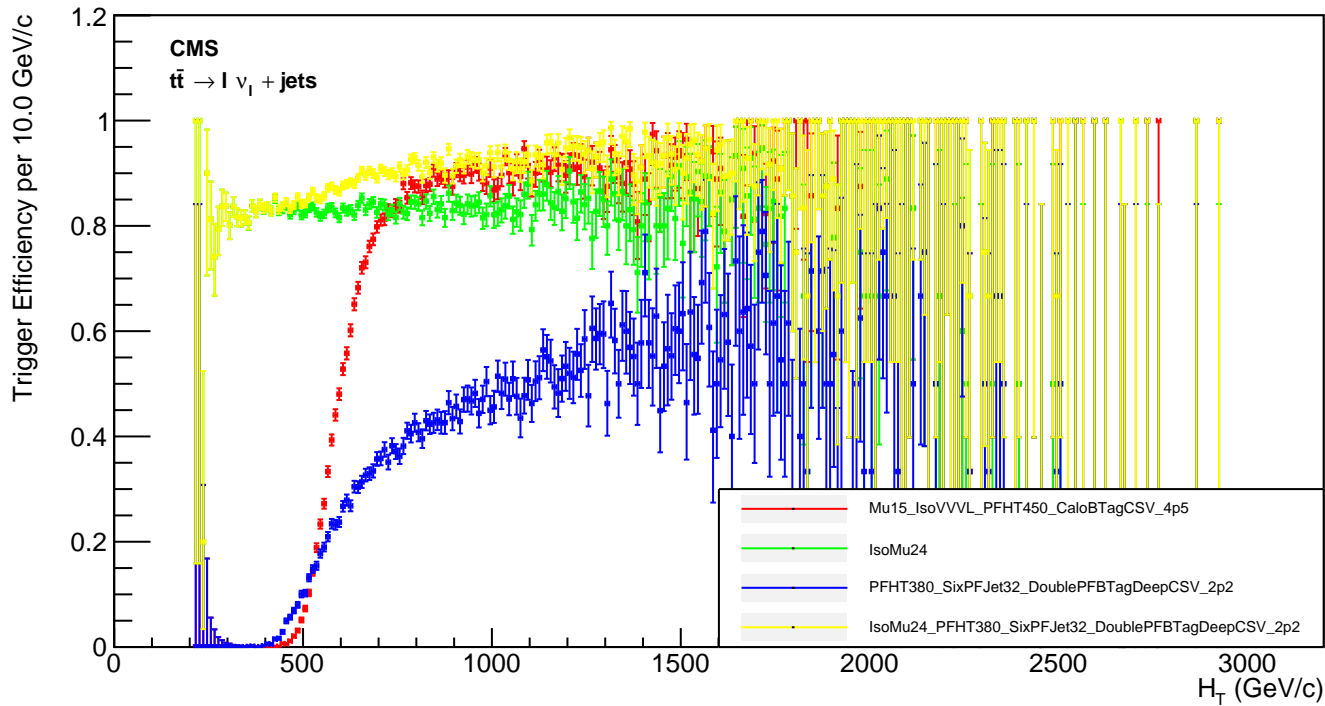
h_jetHt_notrigger

Entries 103418

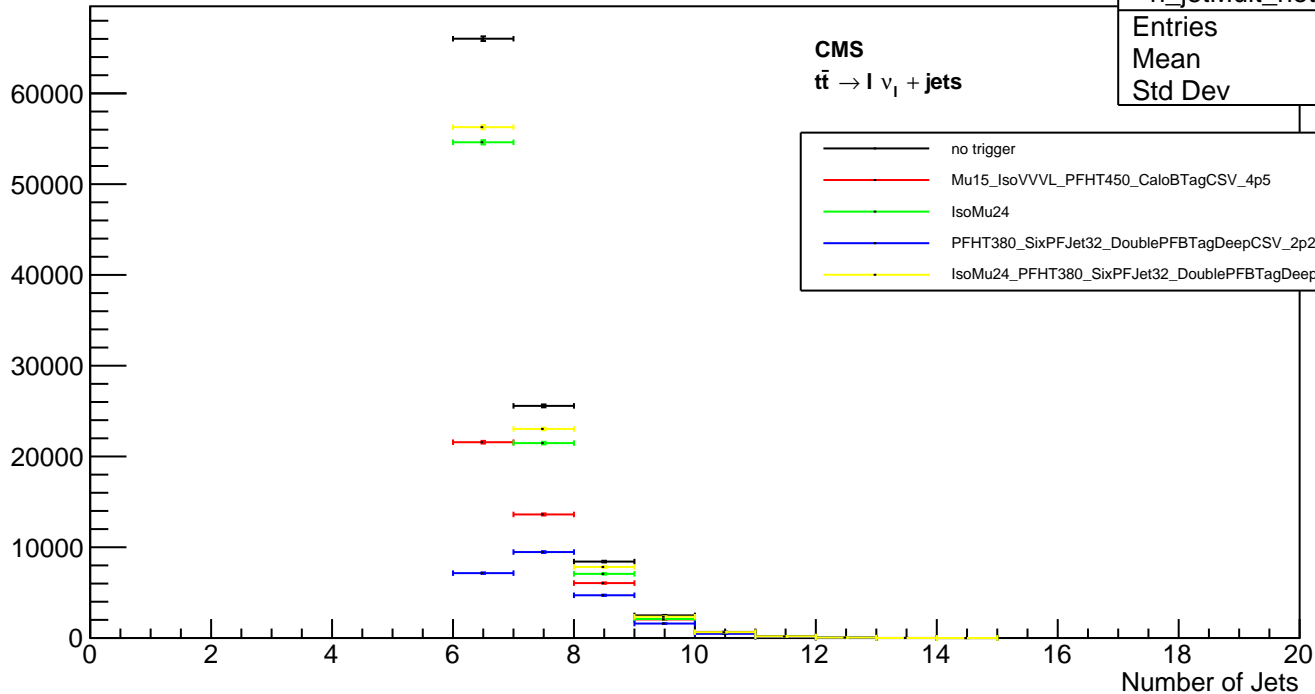
Mean 631.2

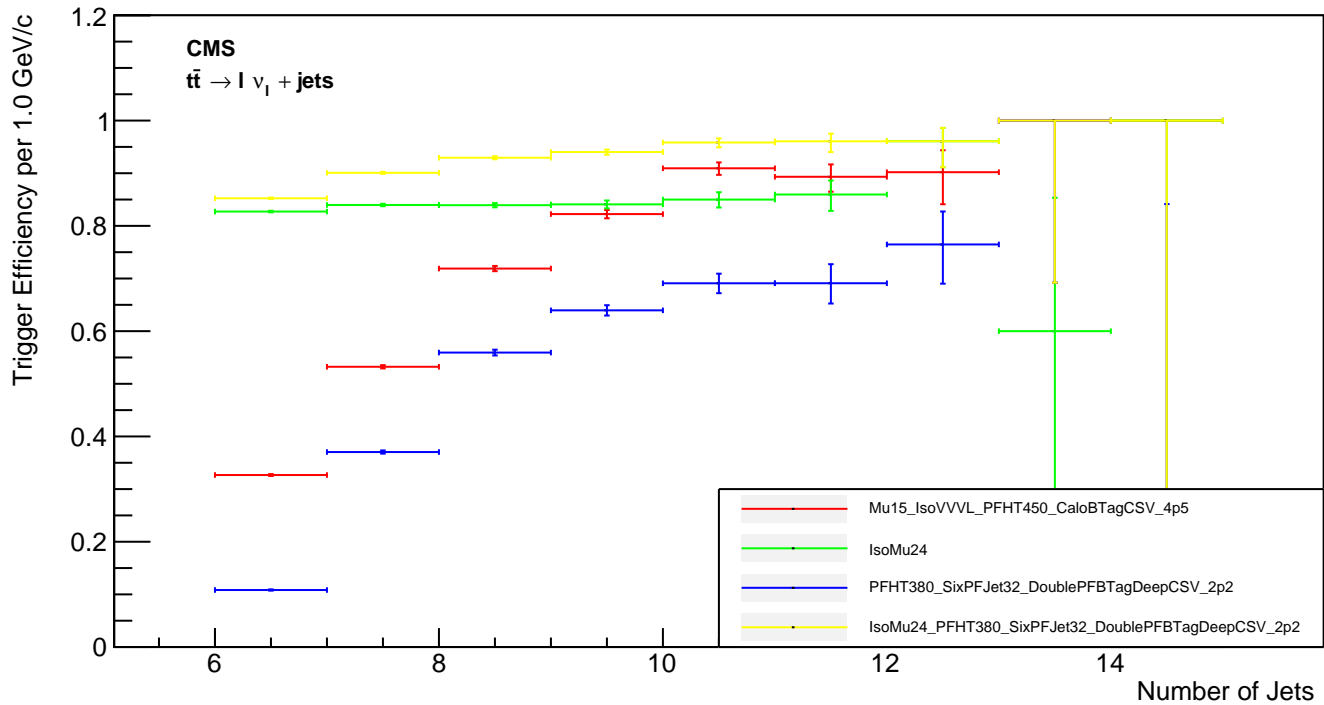
Std Dev 231.7

- no trigger
- Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5
- IsoMu24
- PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

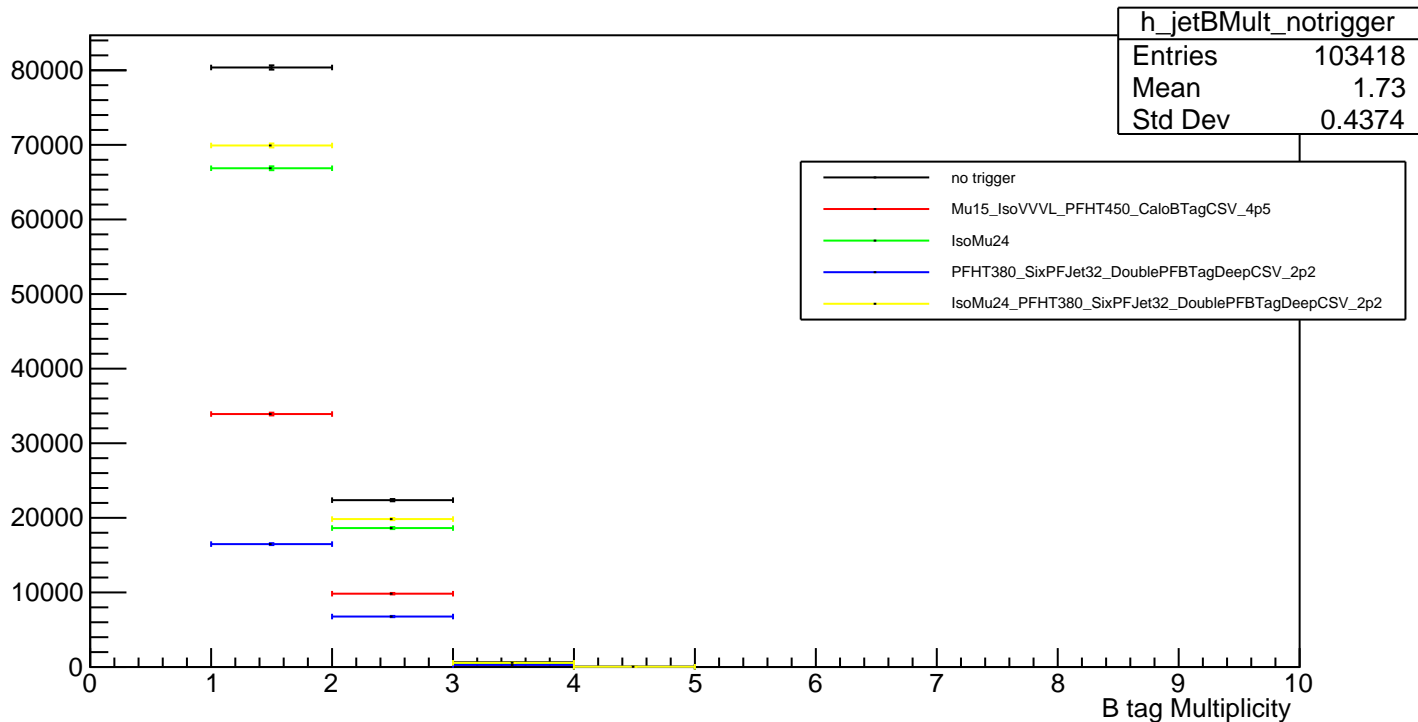


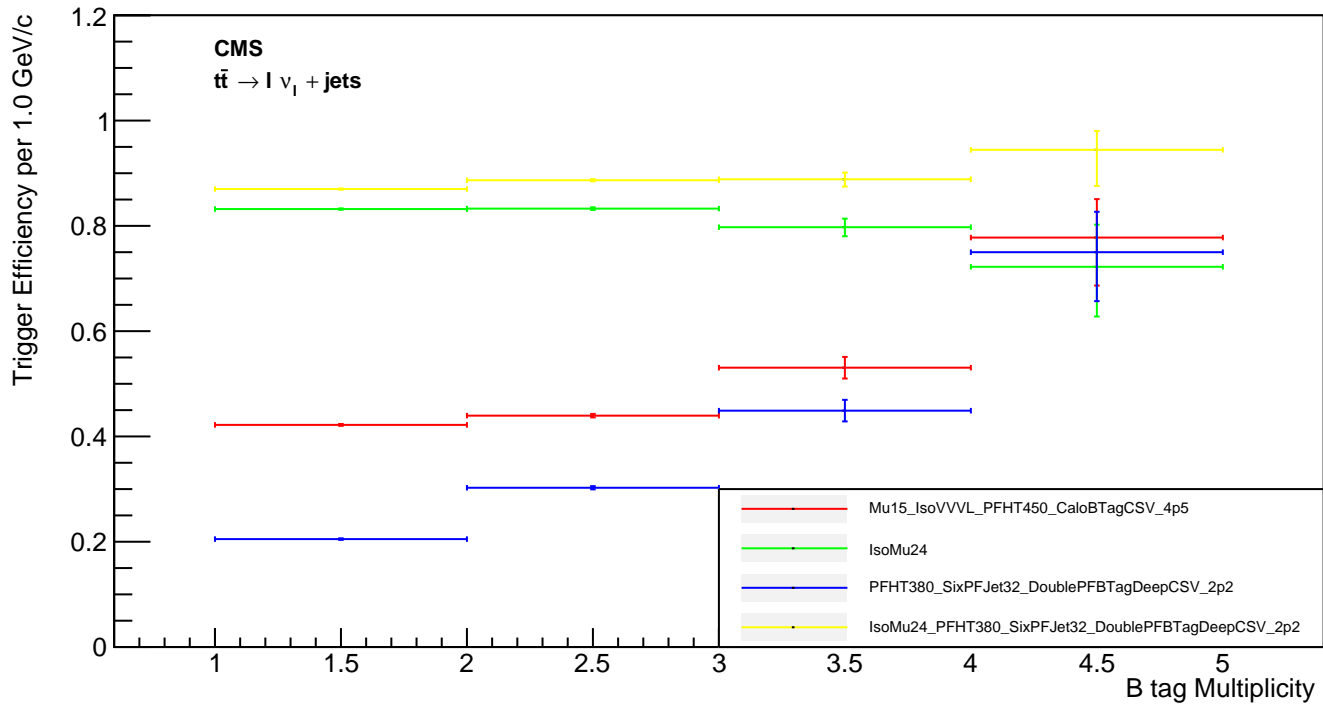
Number of Events per Number of Jets



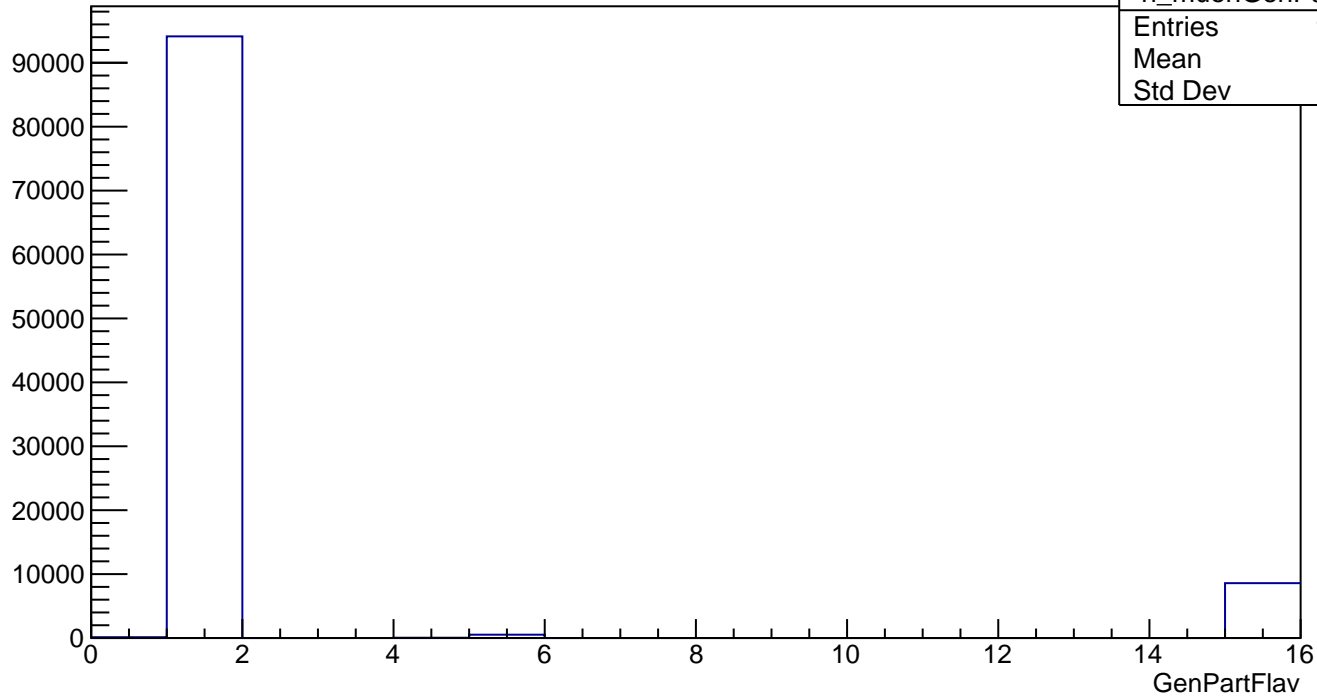


Number of Events per Number of Jets



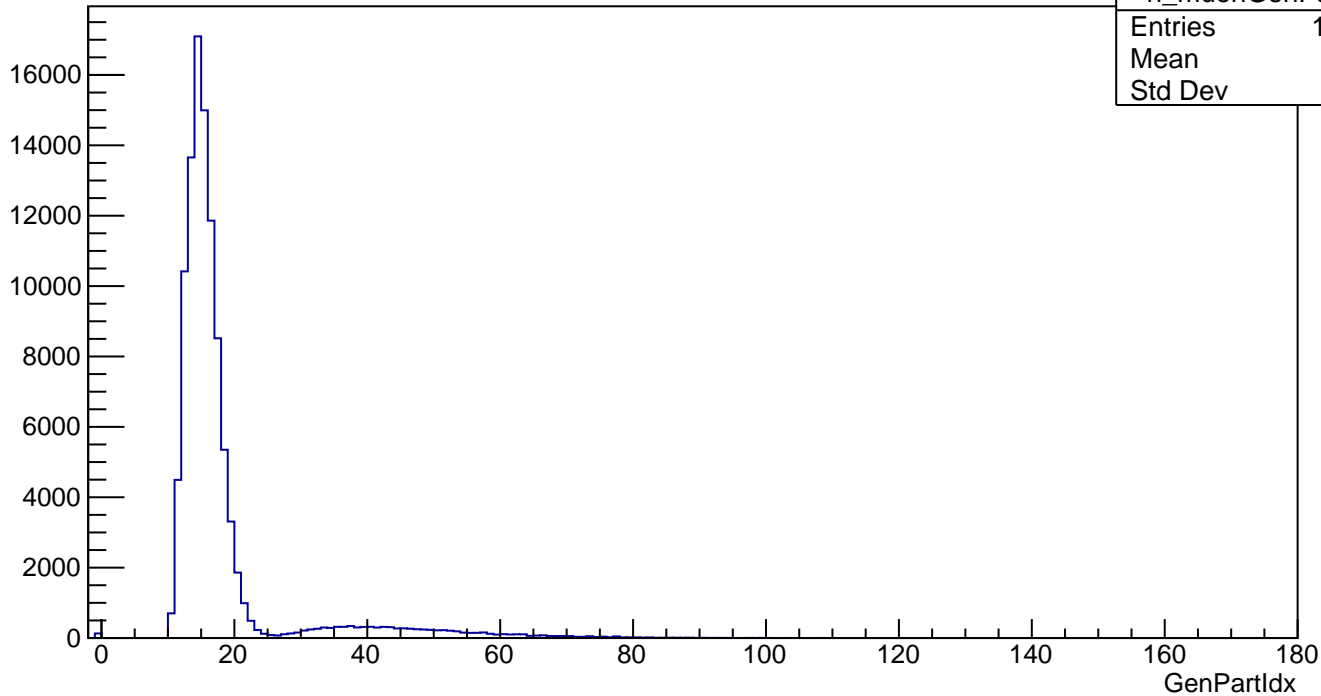


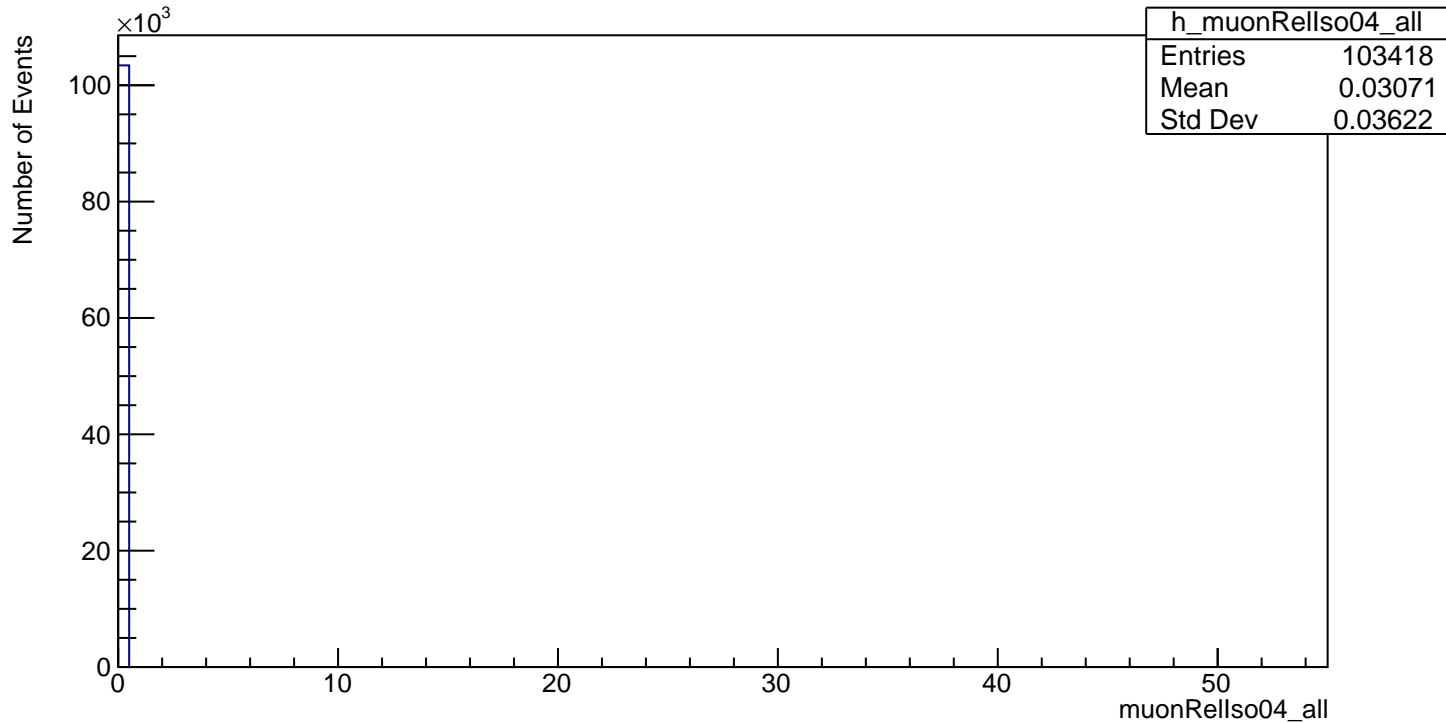
Number of events



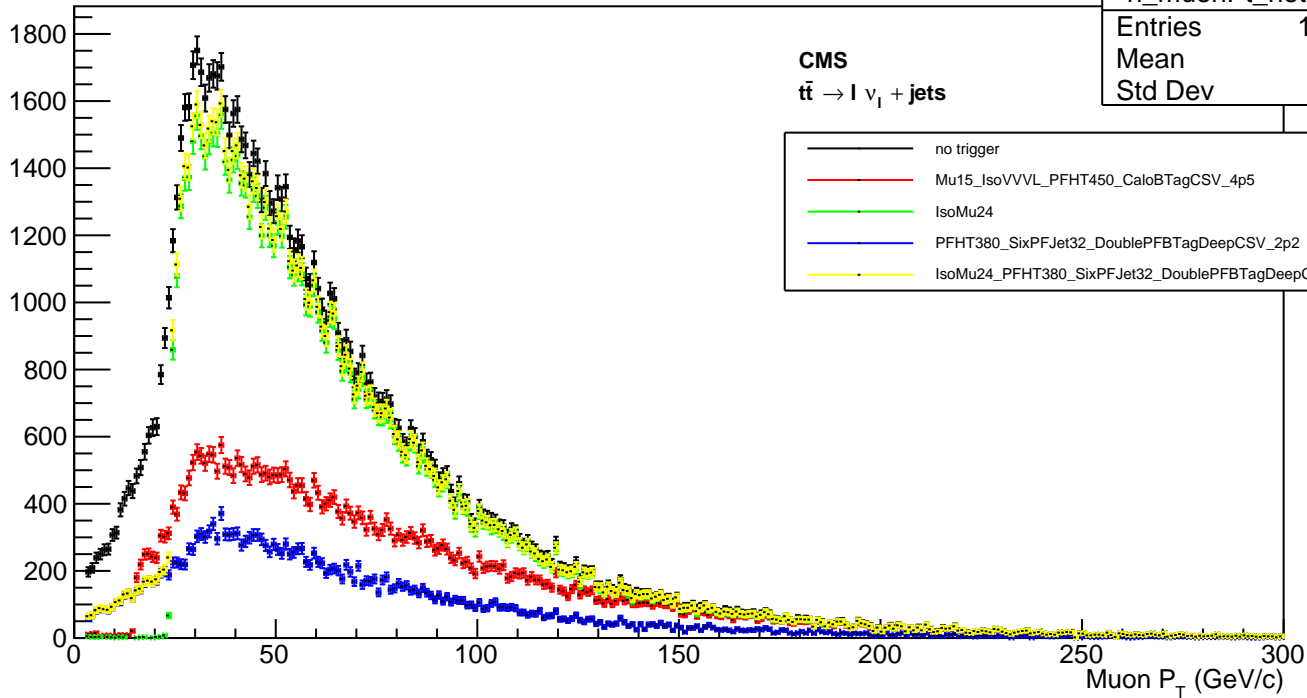
h_muonGenPartFlav	
Entries	103418
Mean	2.183
Std Dev	3.868

Number of events





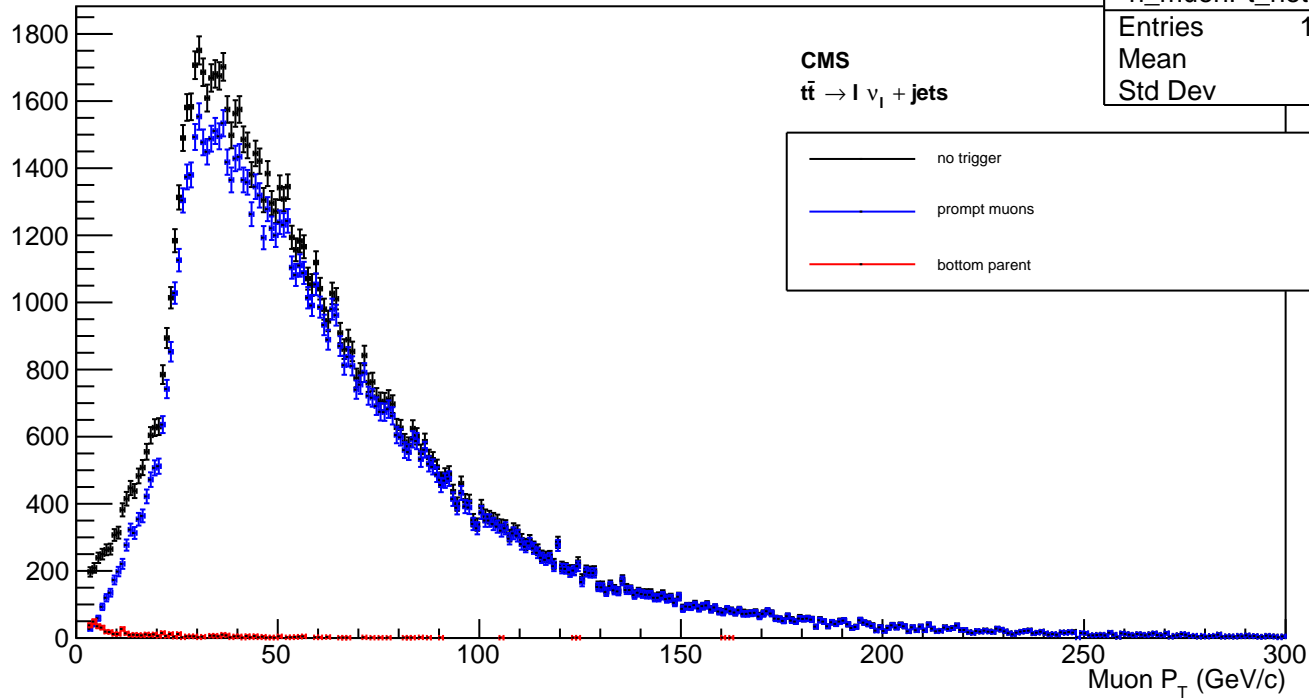
Number of Events per 1 GeV/c



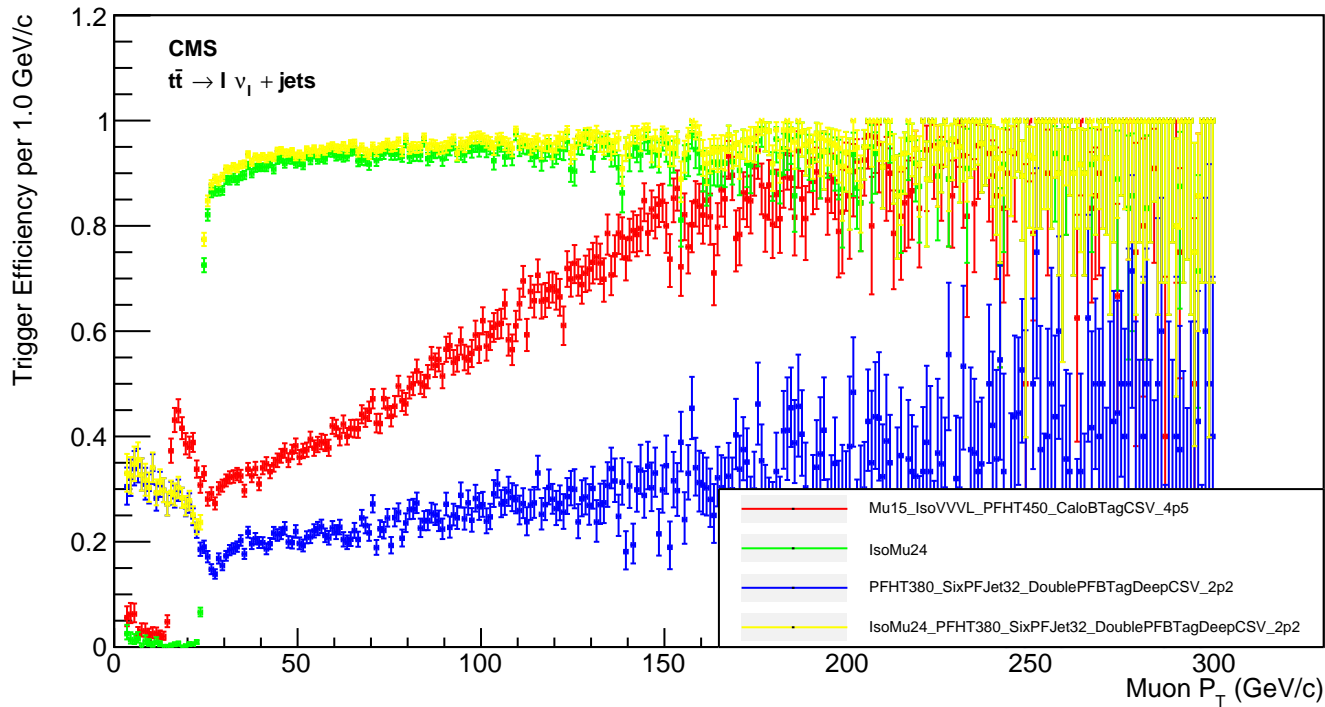
h_muonPt_notrigger

Entries	103418
Mean	62.86
Std Dev	41.75

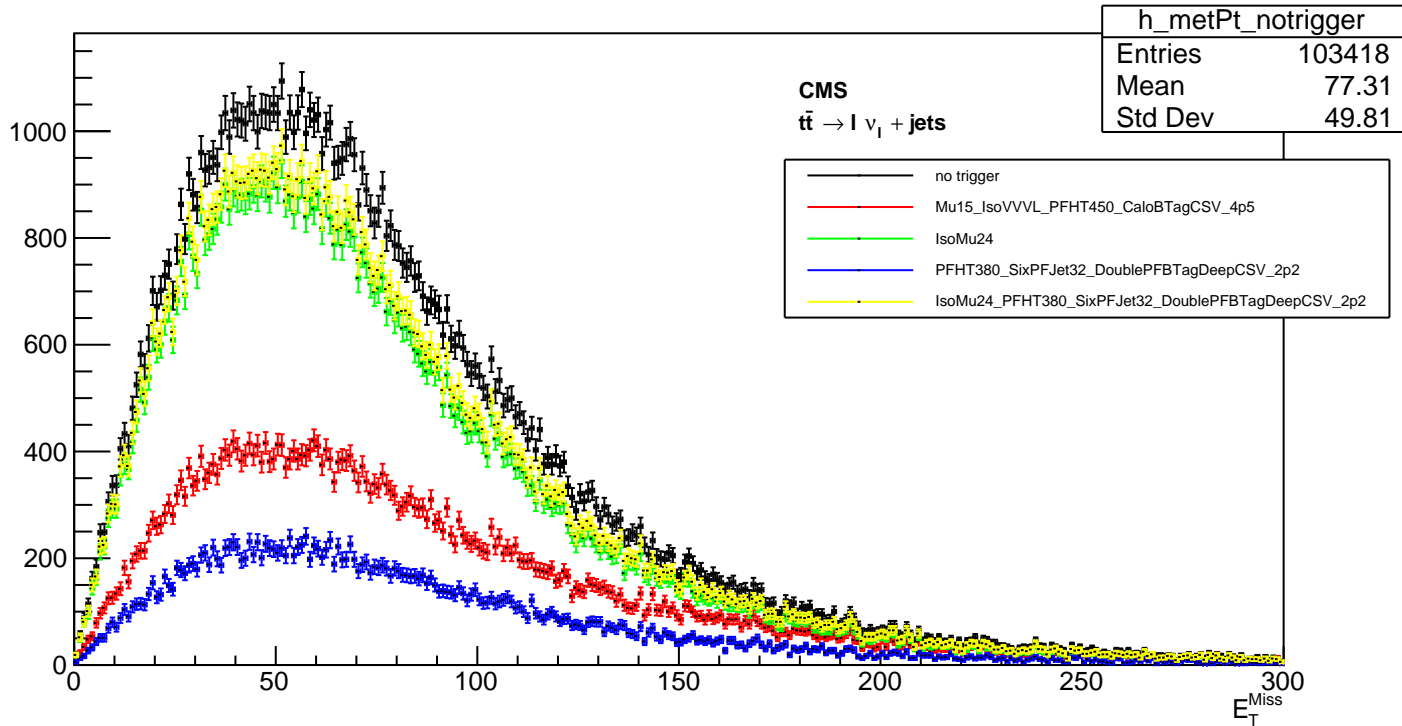
Number of Events per 1 GeV/c

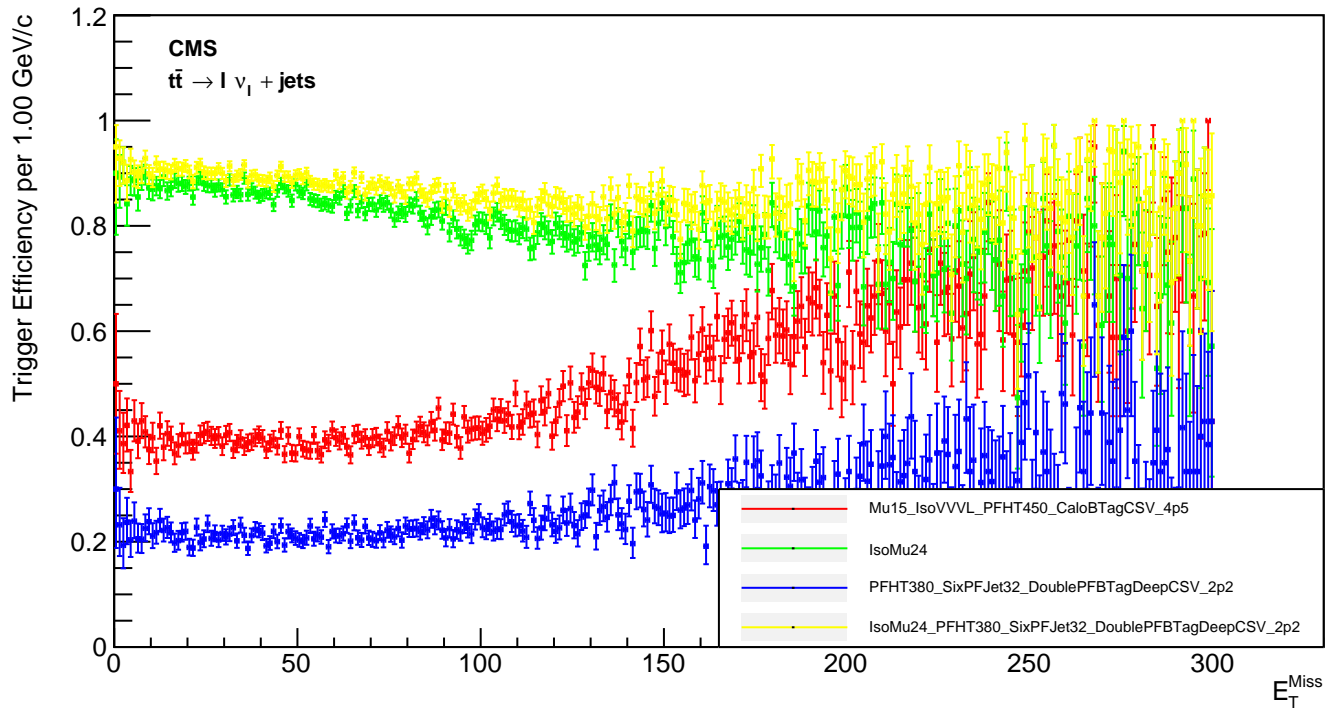


h_muonPt_notrigger	
Entries	103418
Mean	62.86
Std Dev	41.75

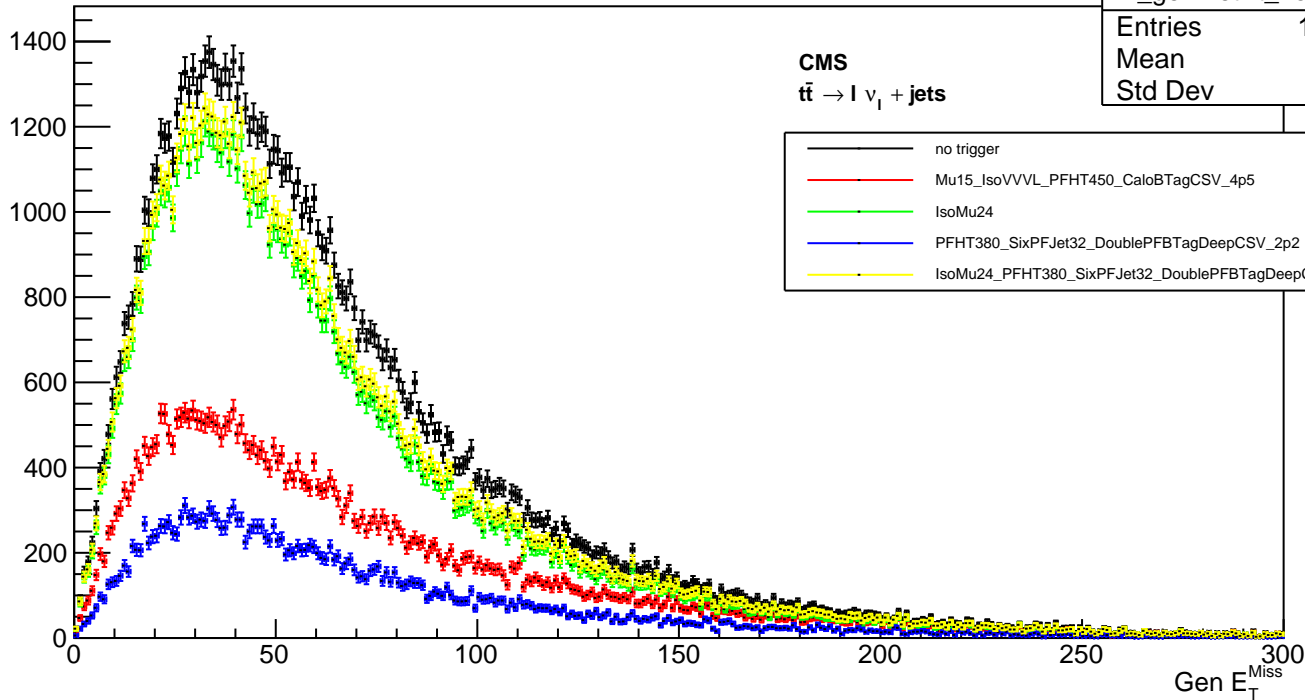


Number of Events per 1 GeV/c





Number of Events per 1GeV/c

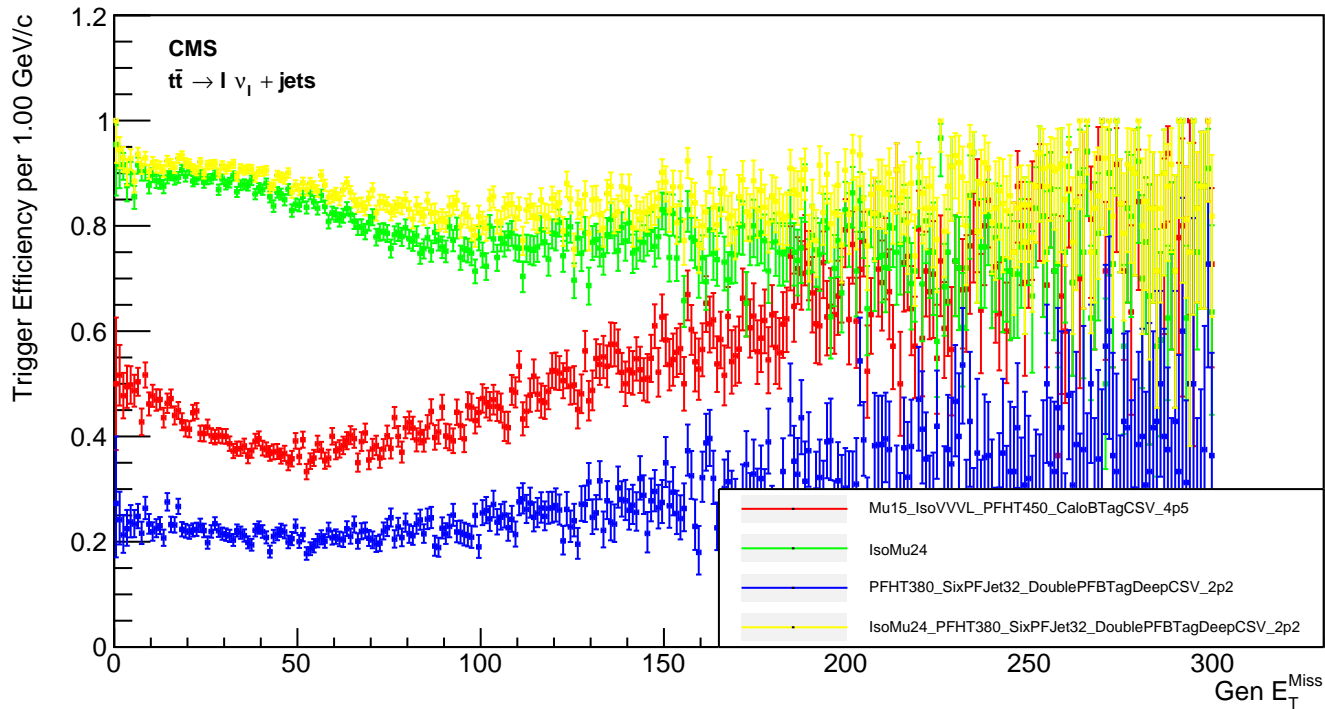


h_genMetPt_notrigger

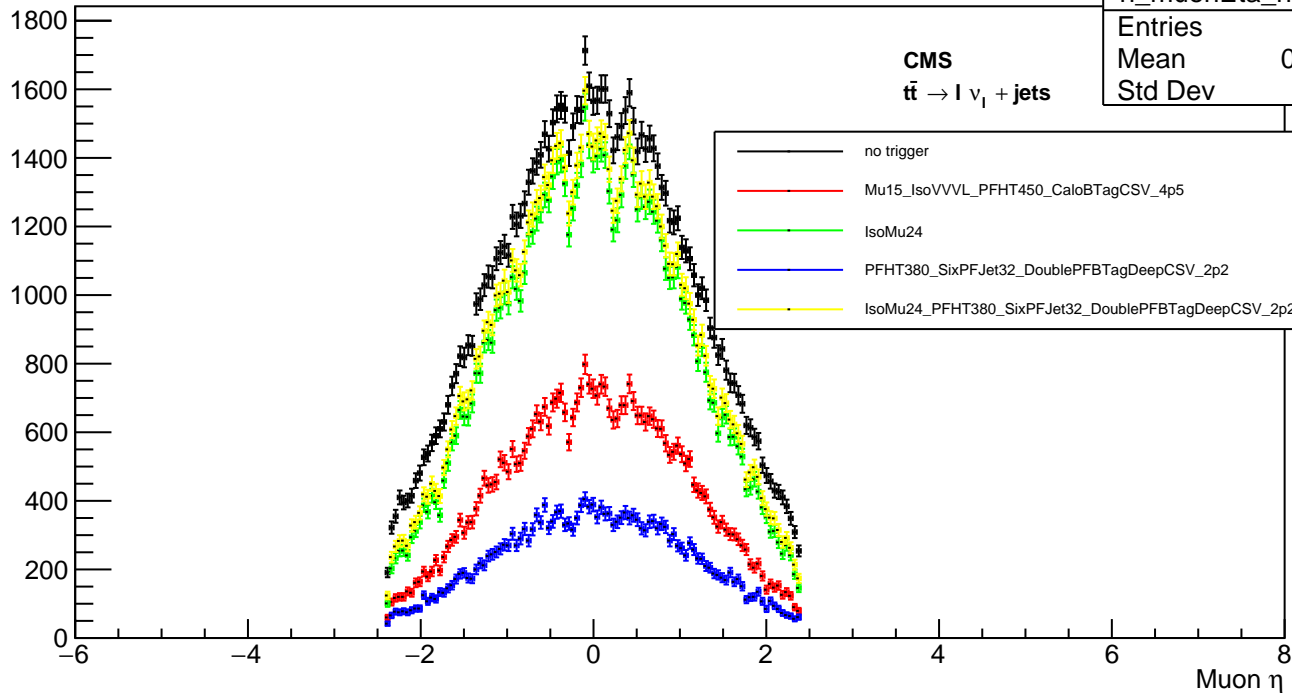
Entries 103418

Mean 64.75

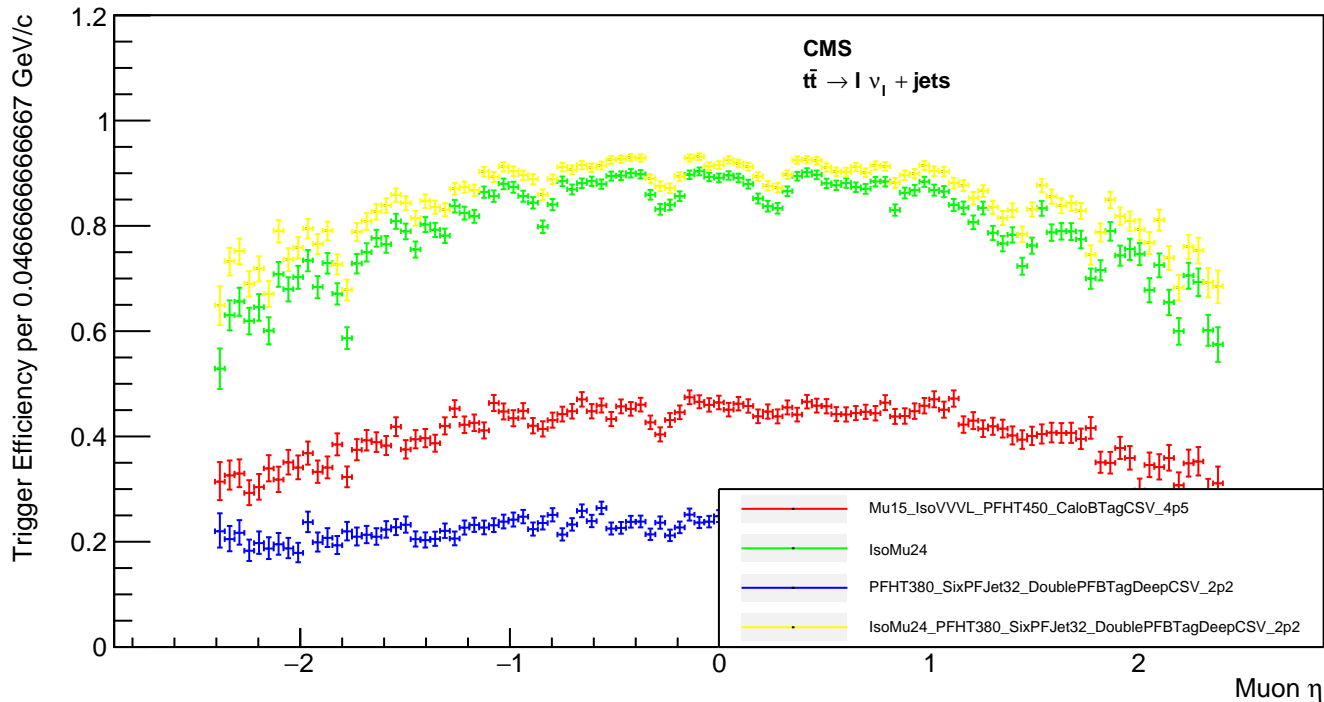
Std Dev 47.2



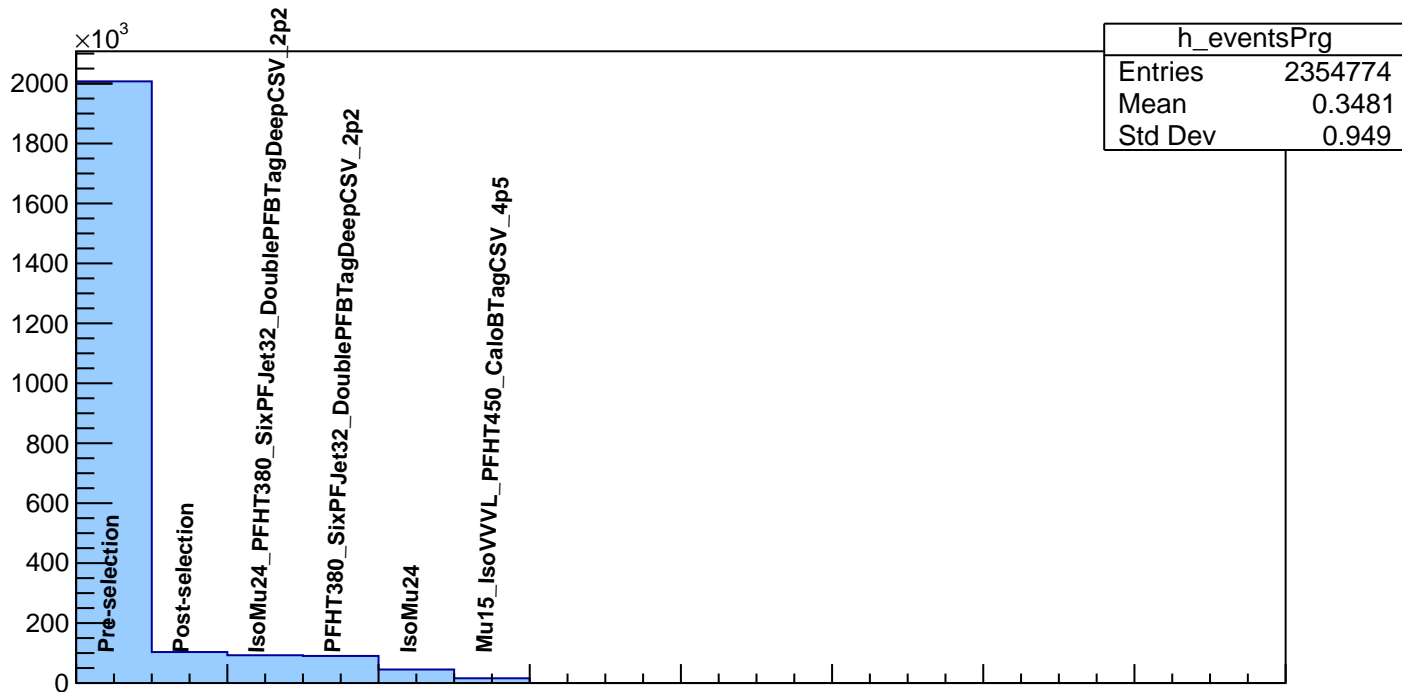
Number of Events per $\delta\eta = 0.046$



h_muonEta_notrigger	
Entries	103418
Mean	0.001301
Std Dev	1.101



Total Number of Accepted Events



Cuts and Triggers

h_eventsPrg	
Entries	2354774
Mean	0.3481
Std Dev	0.949