

On-line (pre-)selection Requisites for:

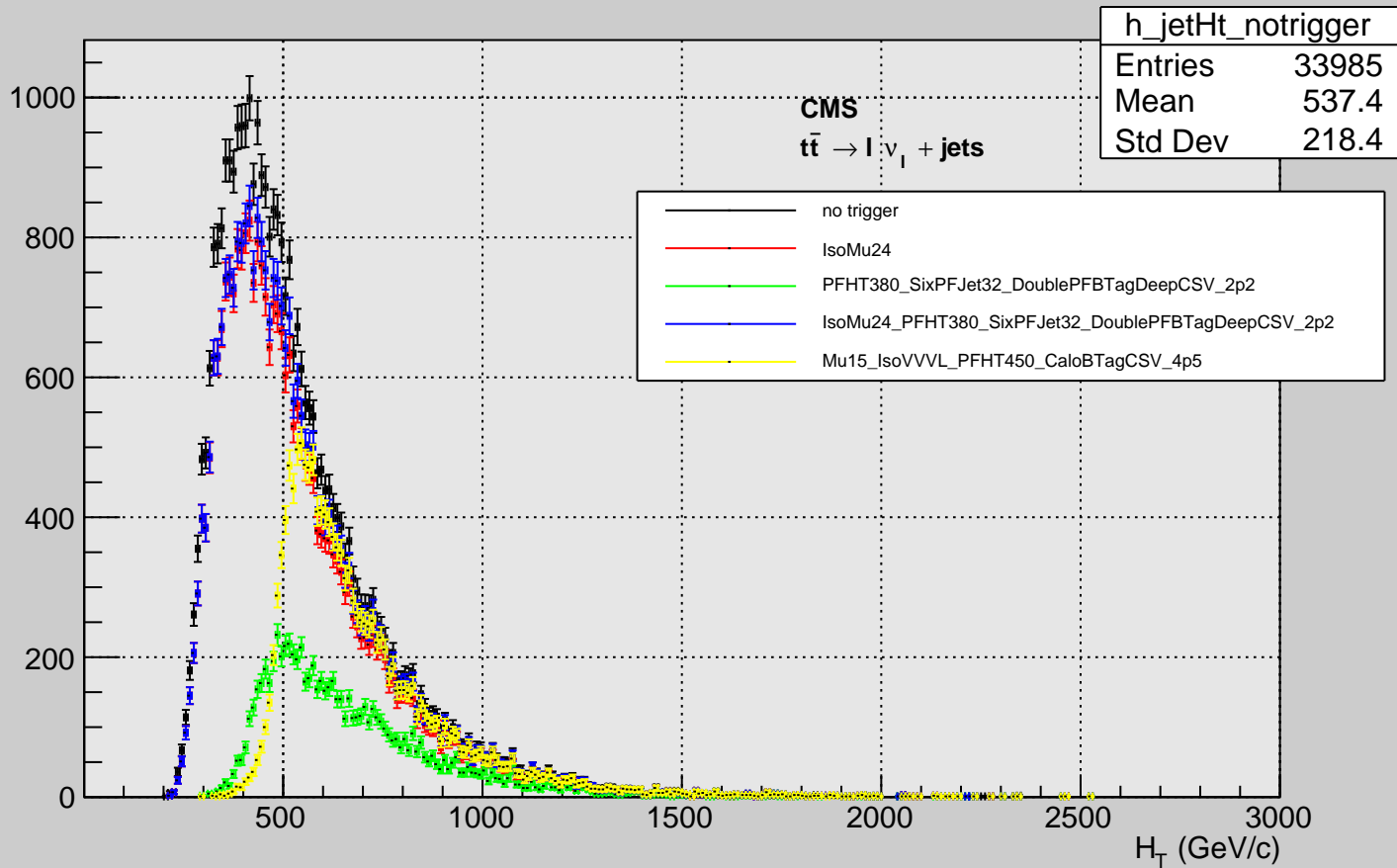
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

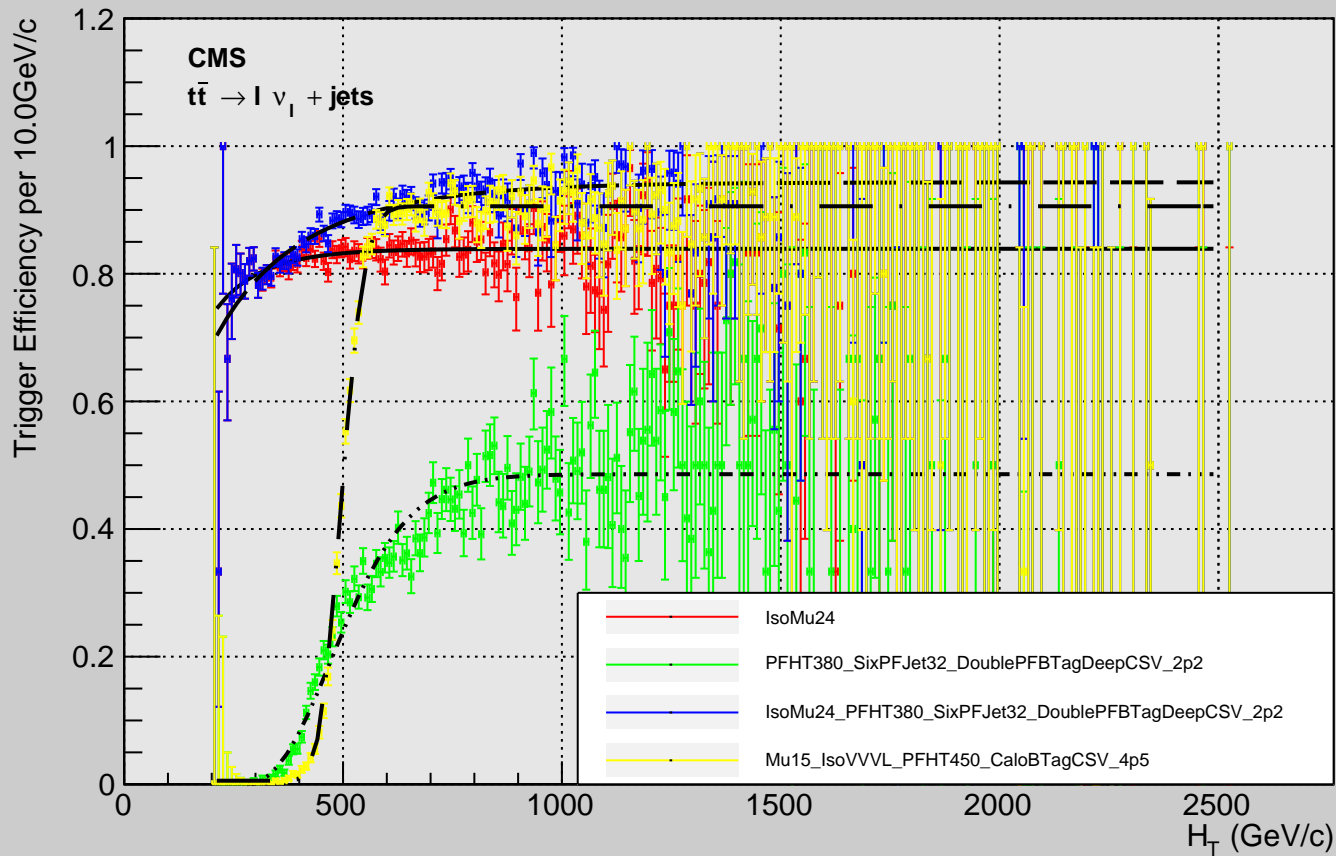
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

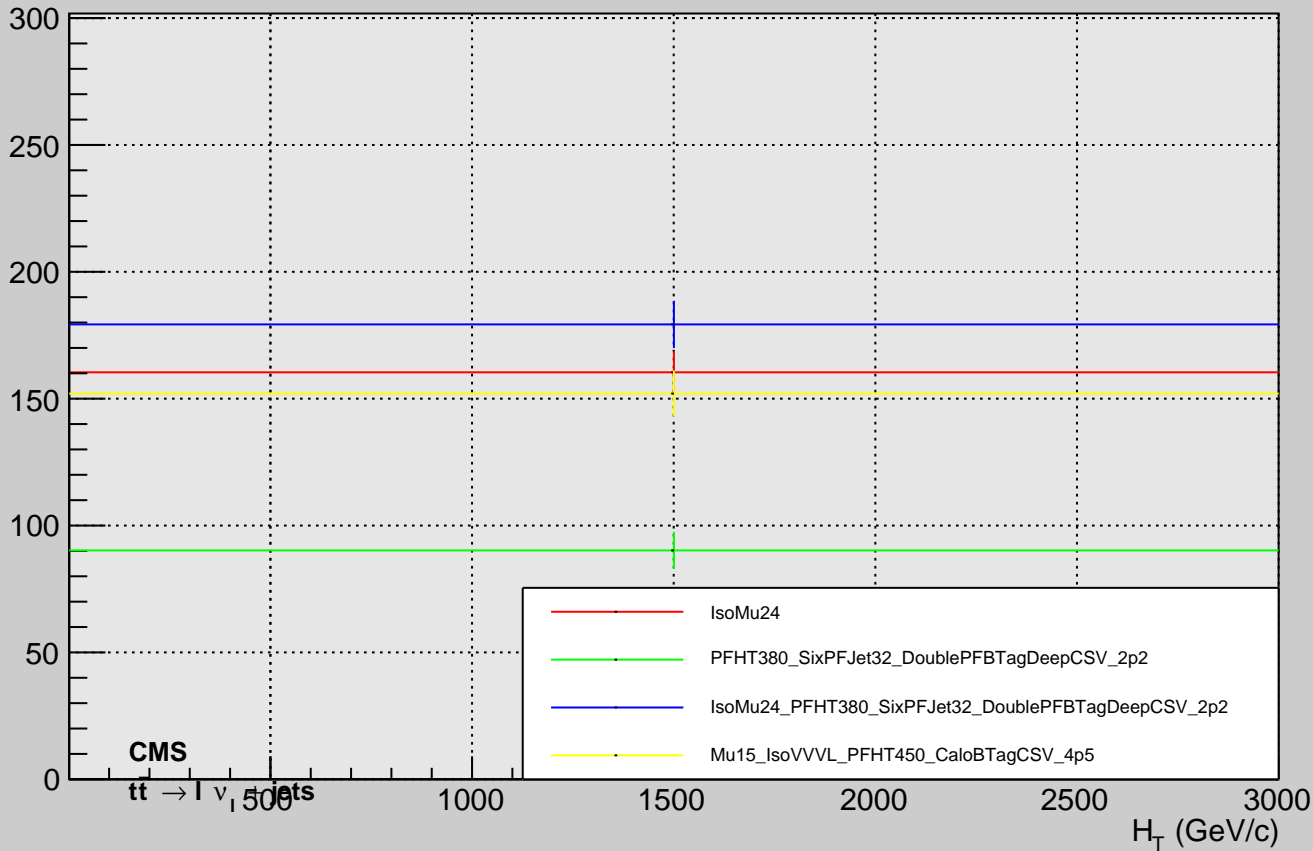
- **Jets:** $\text{jetId} > 2$, $p_{\text{T}} > 30$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.15$ (for at least 1)

Number of Events per 10 GeV/c

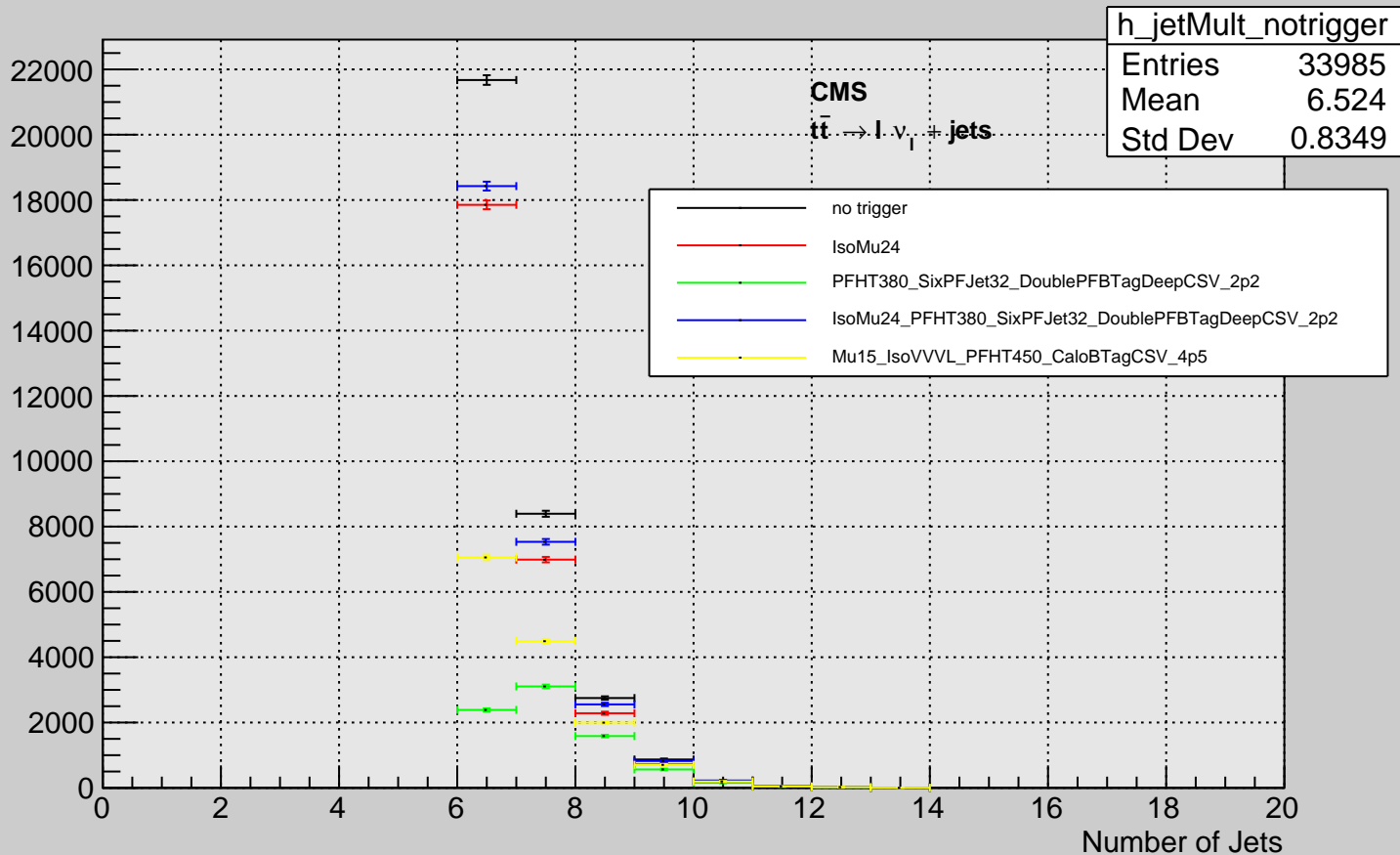


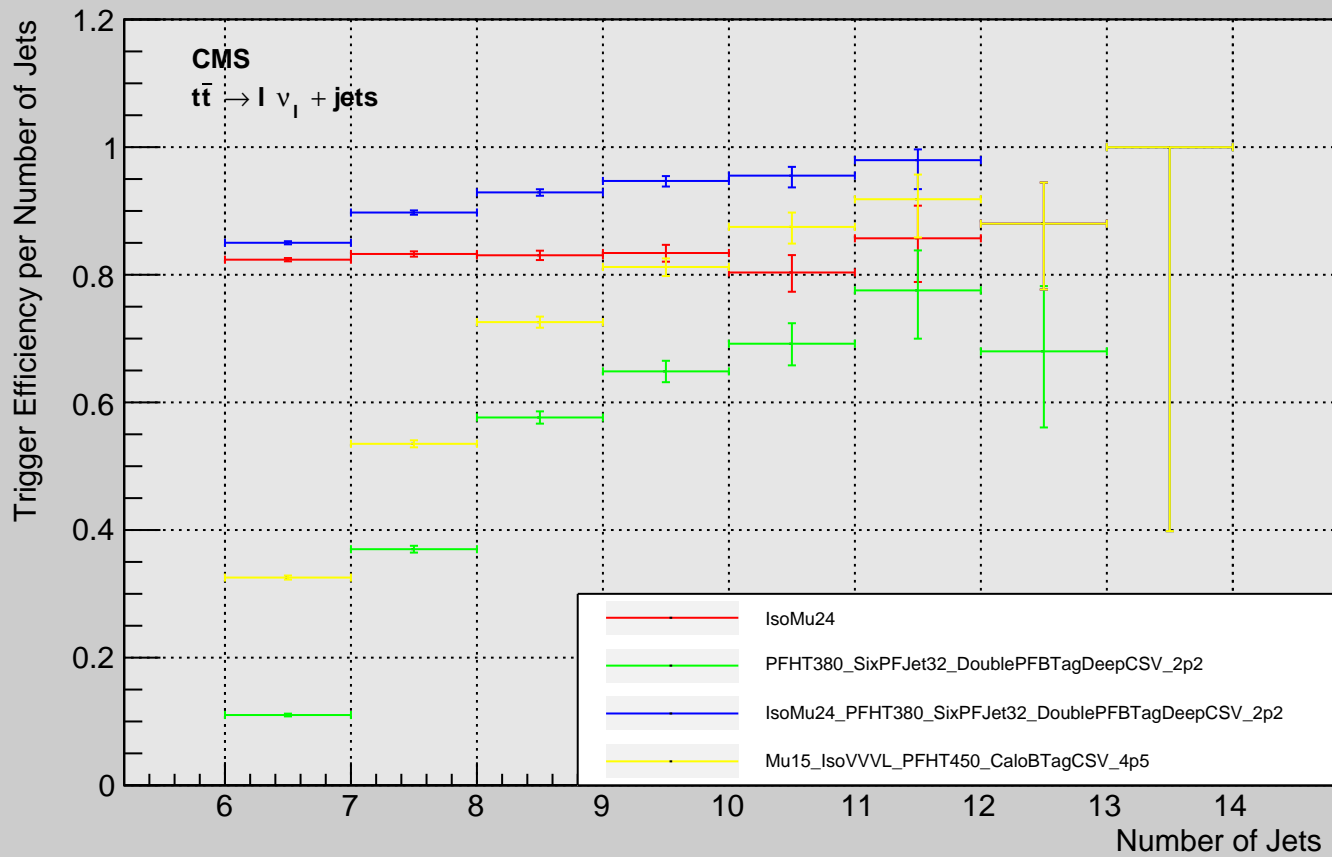


Trigger Efficiency per 10.0 GeV/c

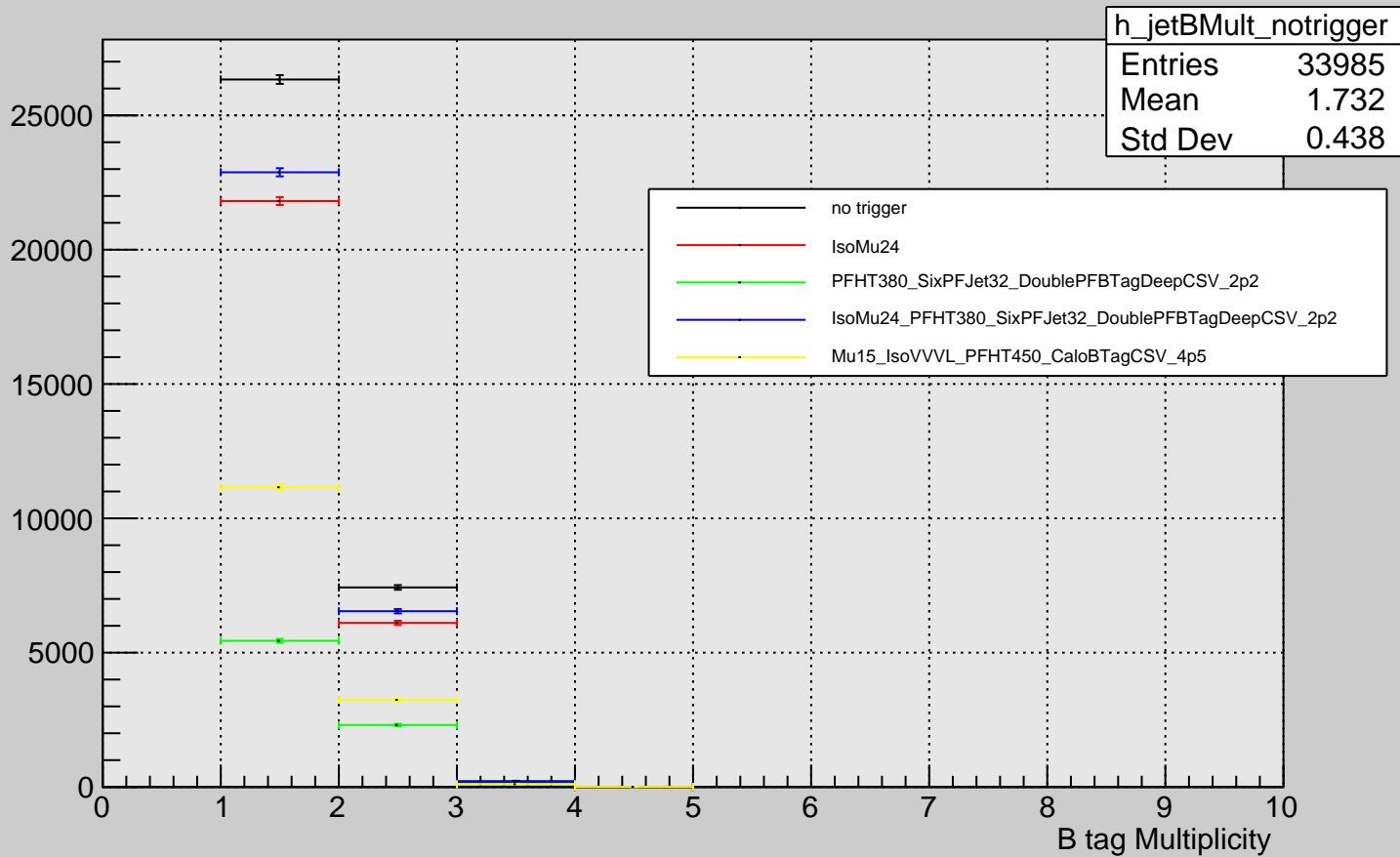


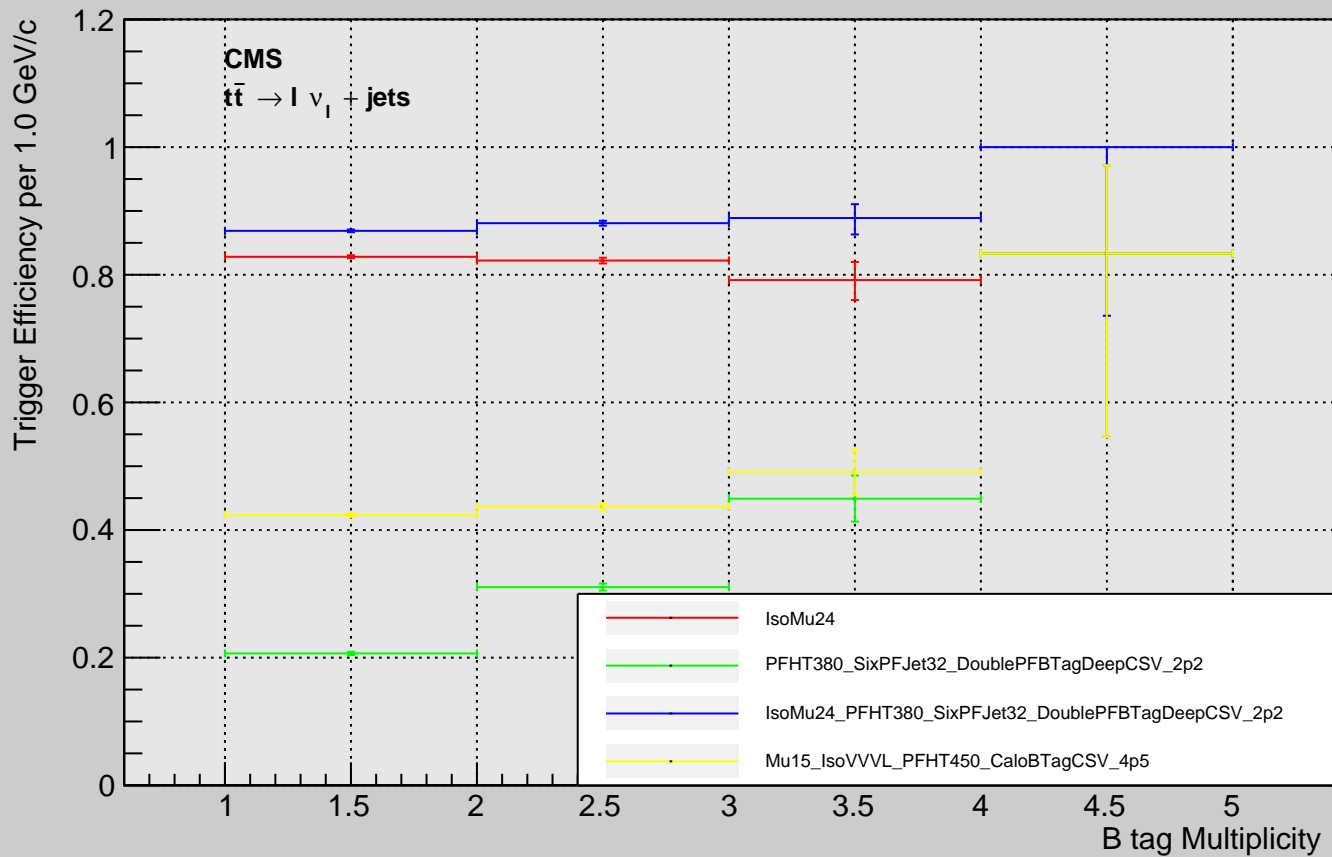
Number of Events per Number of Jets



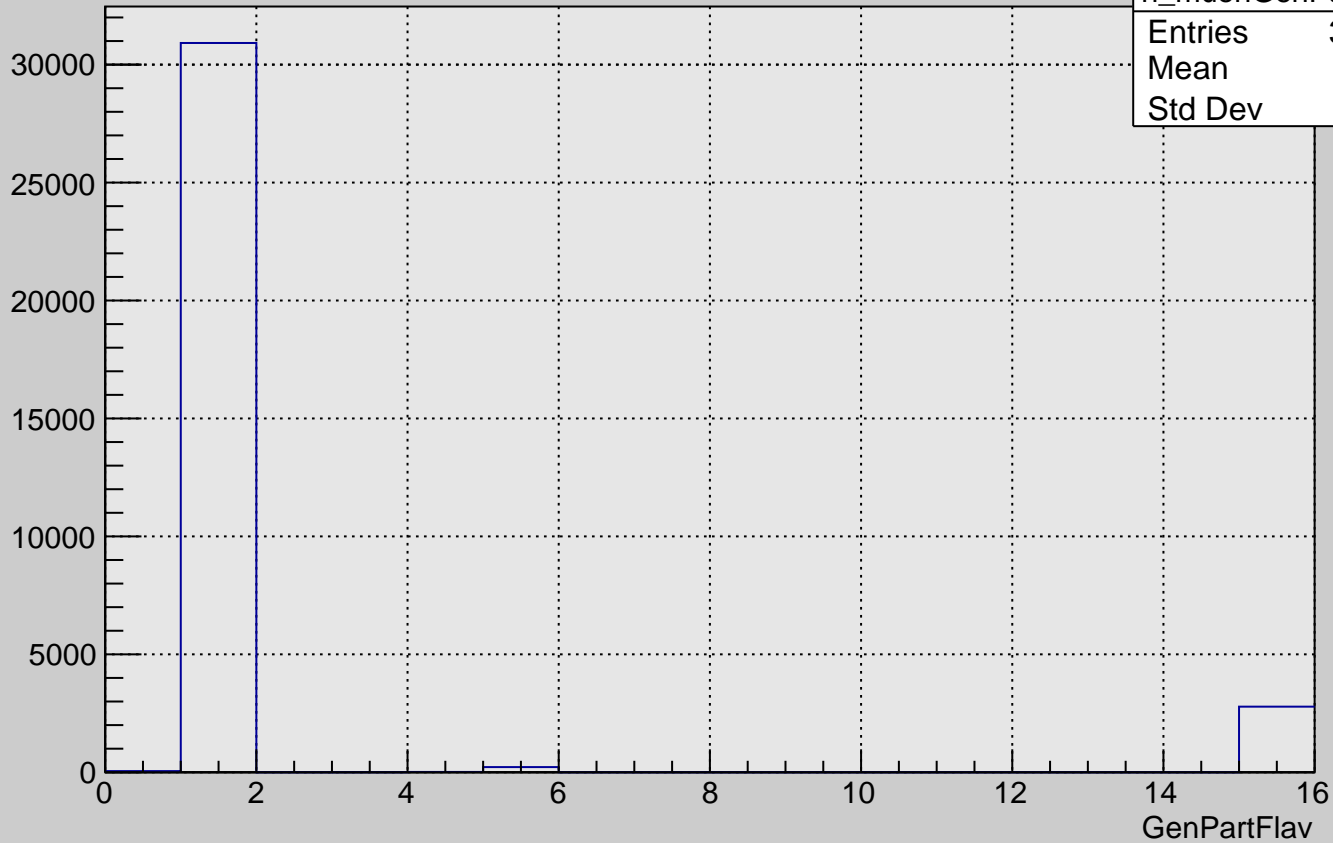


Number of Events per Number of Jets

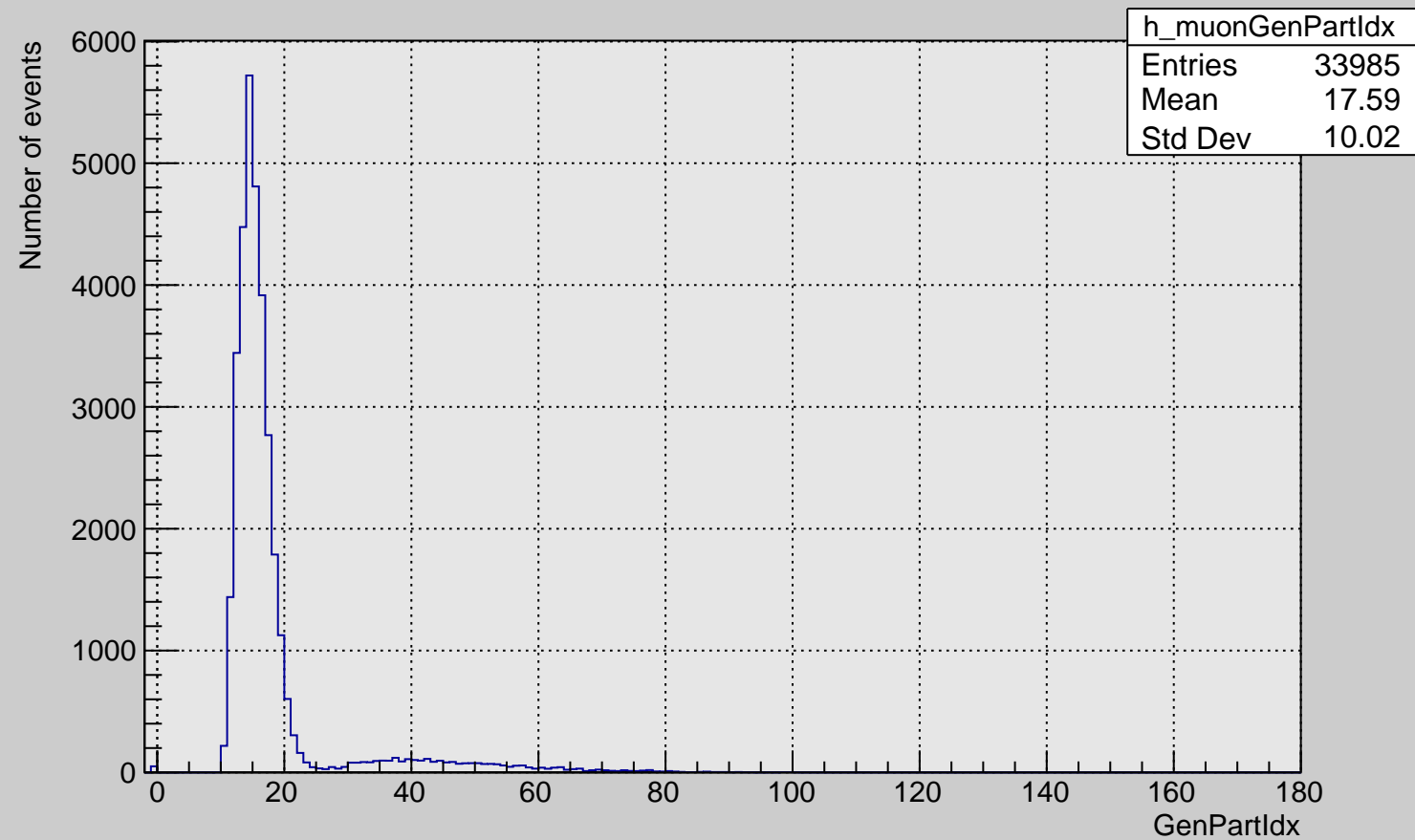




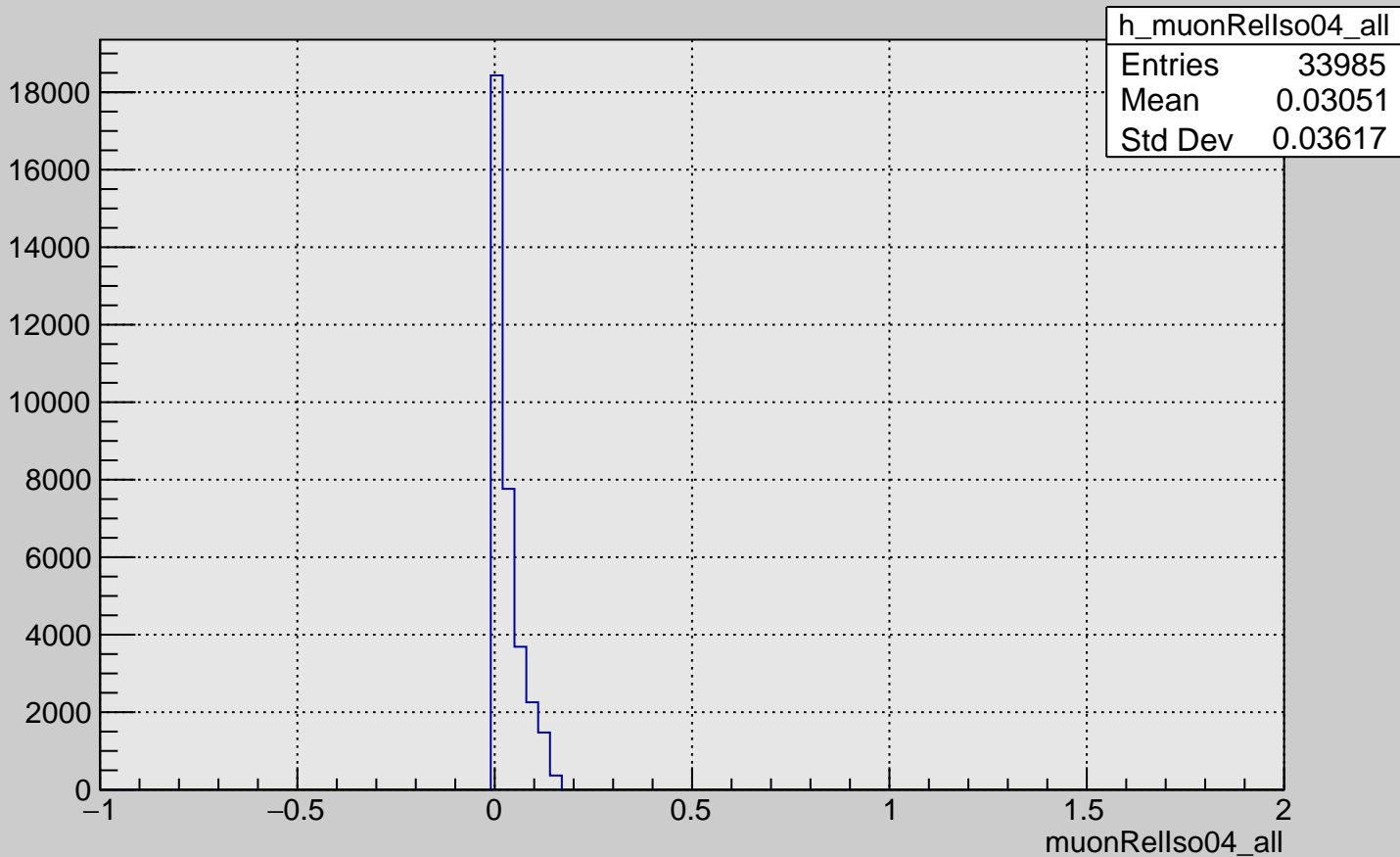
Number of events



h_muonGenPartFlav	
Entries	33985
Mean	2.172
Std Dev	3.845



Number of Events



Number of Events per 1 GeV/c

CMS

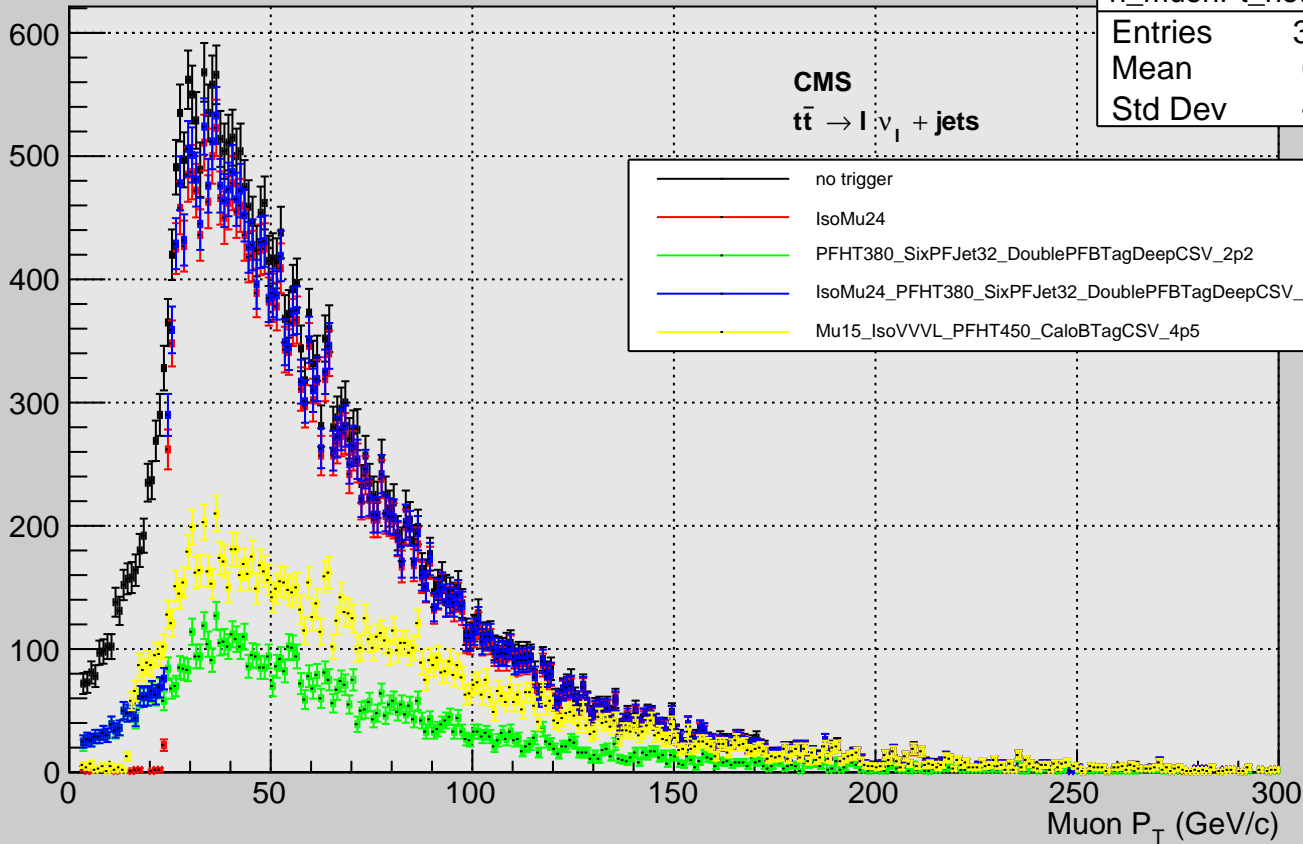
$t\bar{t} \rightarrow l \nu_l + \text{jets}$

h_muonPt_notrigger

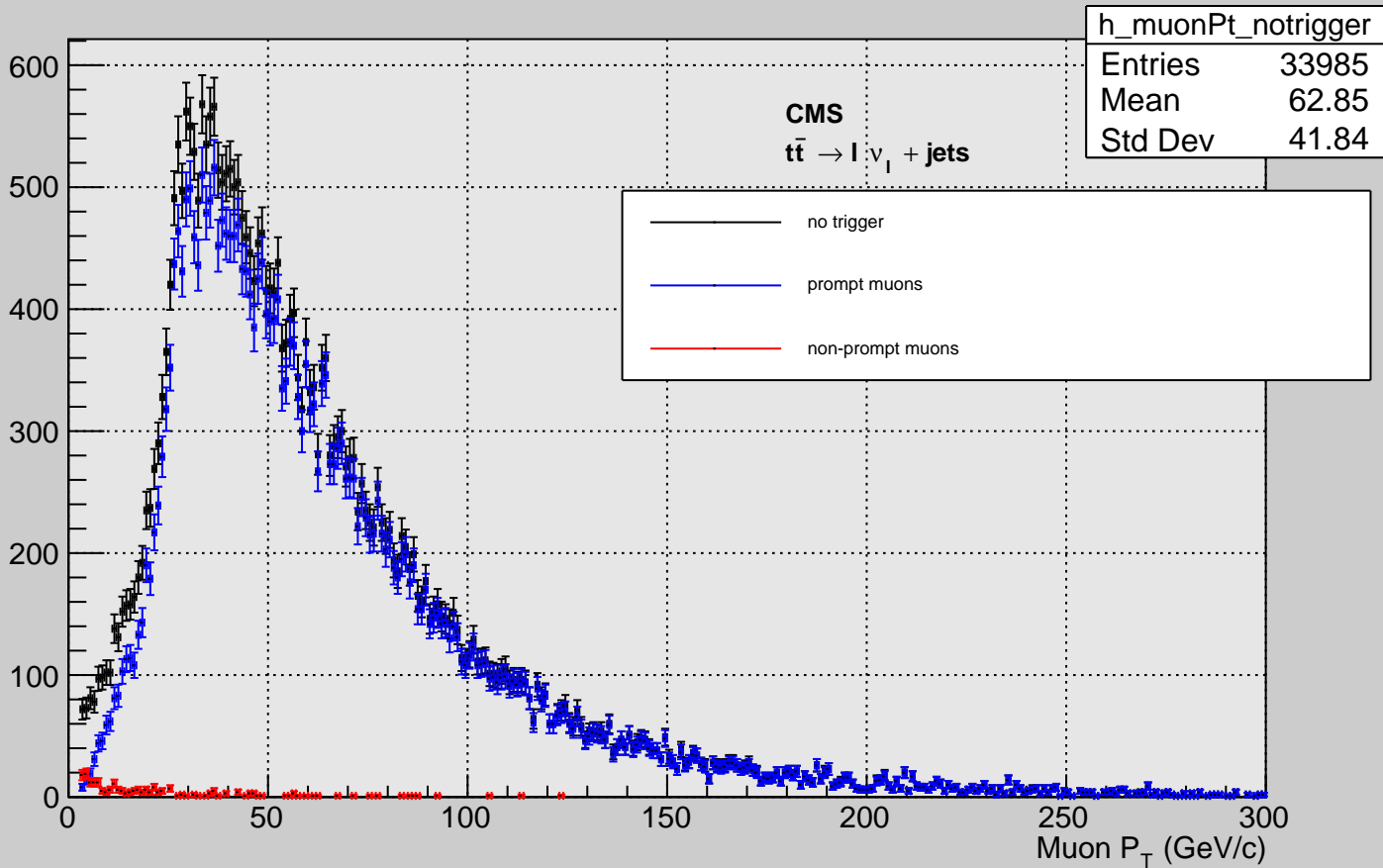
Entries 33985

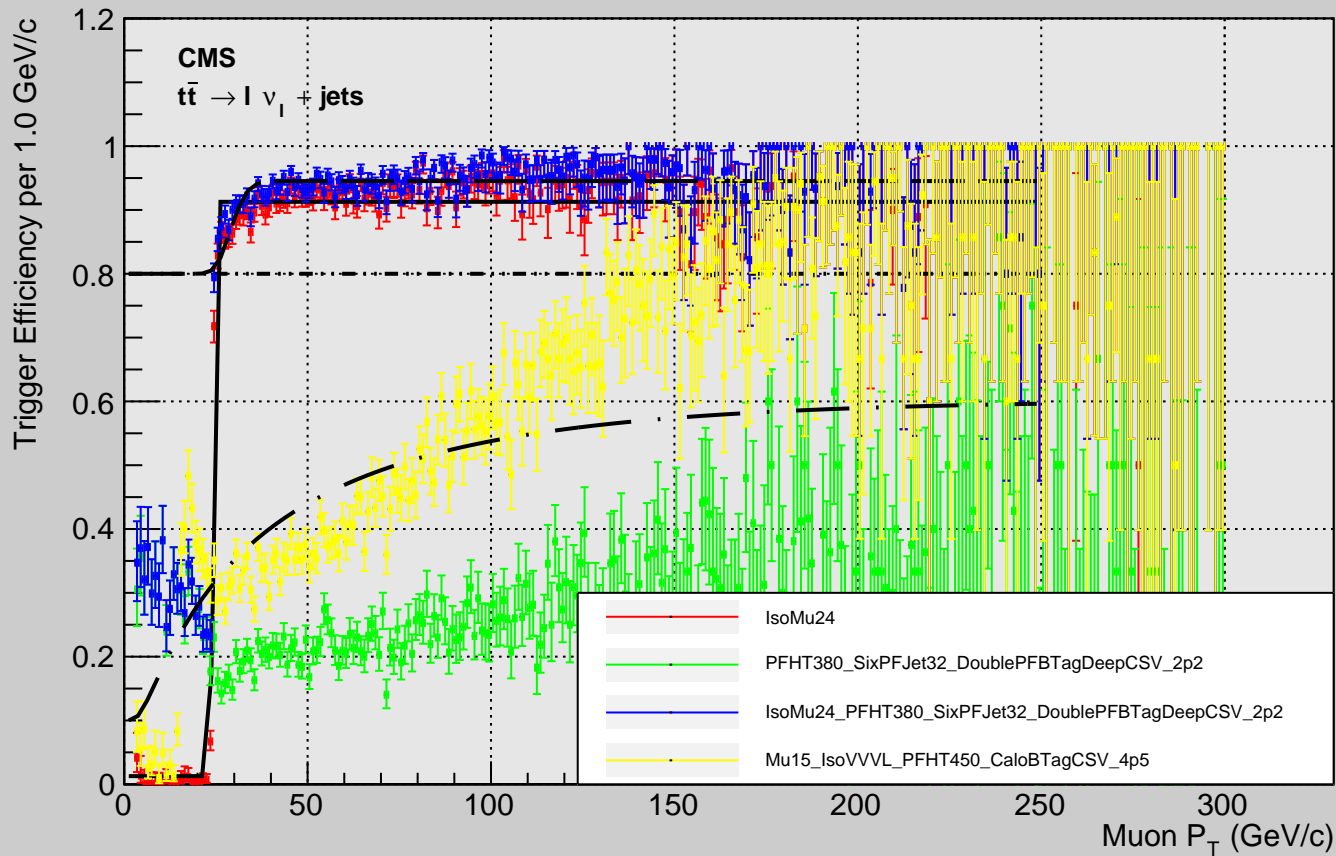
Mean 62.85

Std Dev 41.84

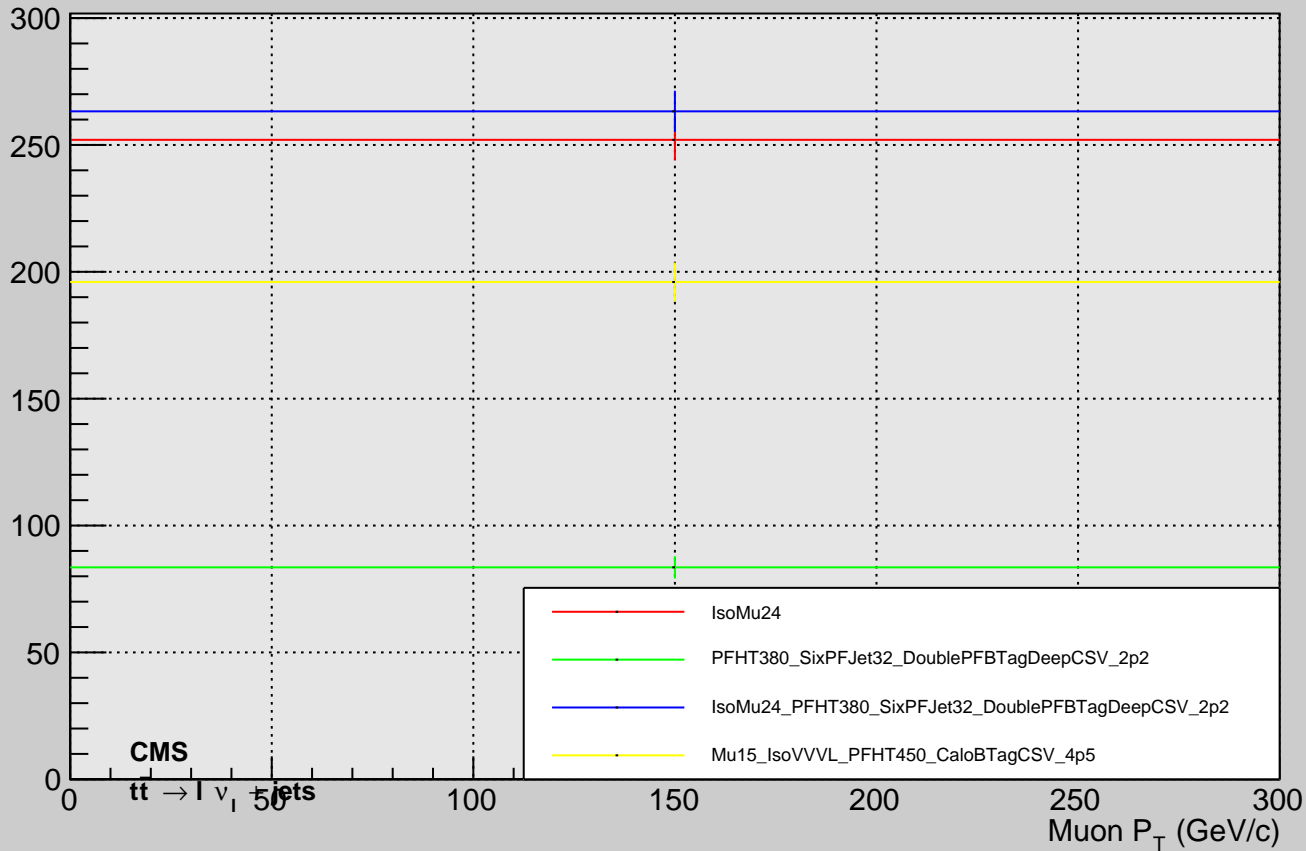


Number of Events per 1 GeV/c

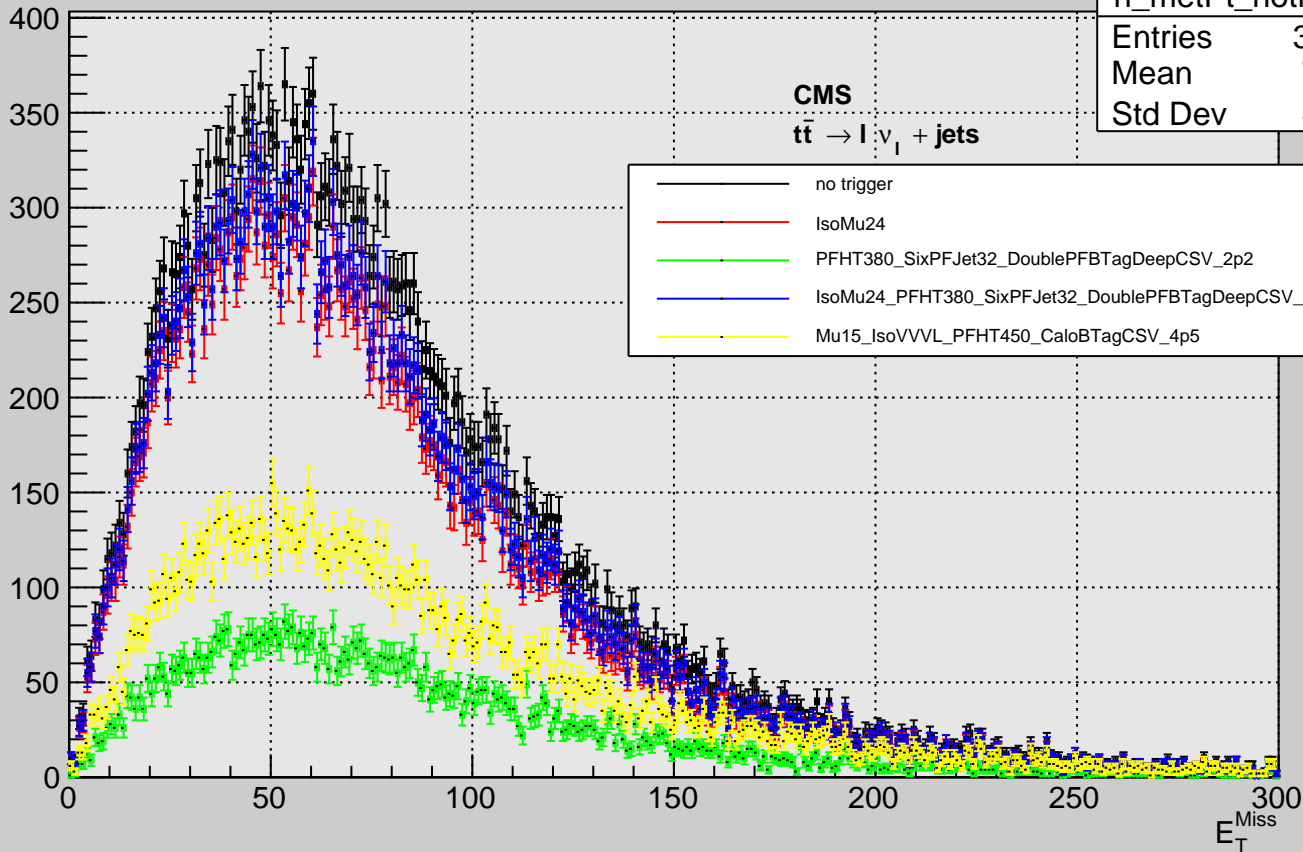




Trigger Efficiency per 1.00 GeV/c



Number of Events per 1 GeV/c

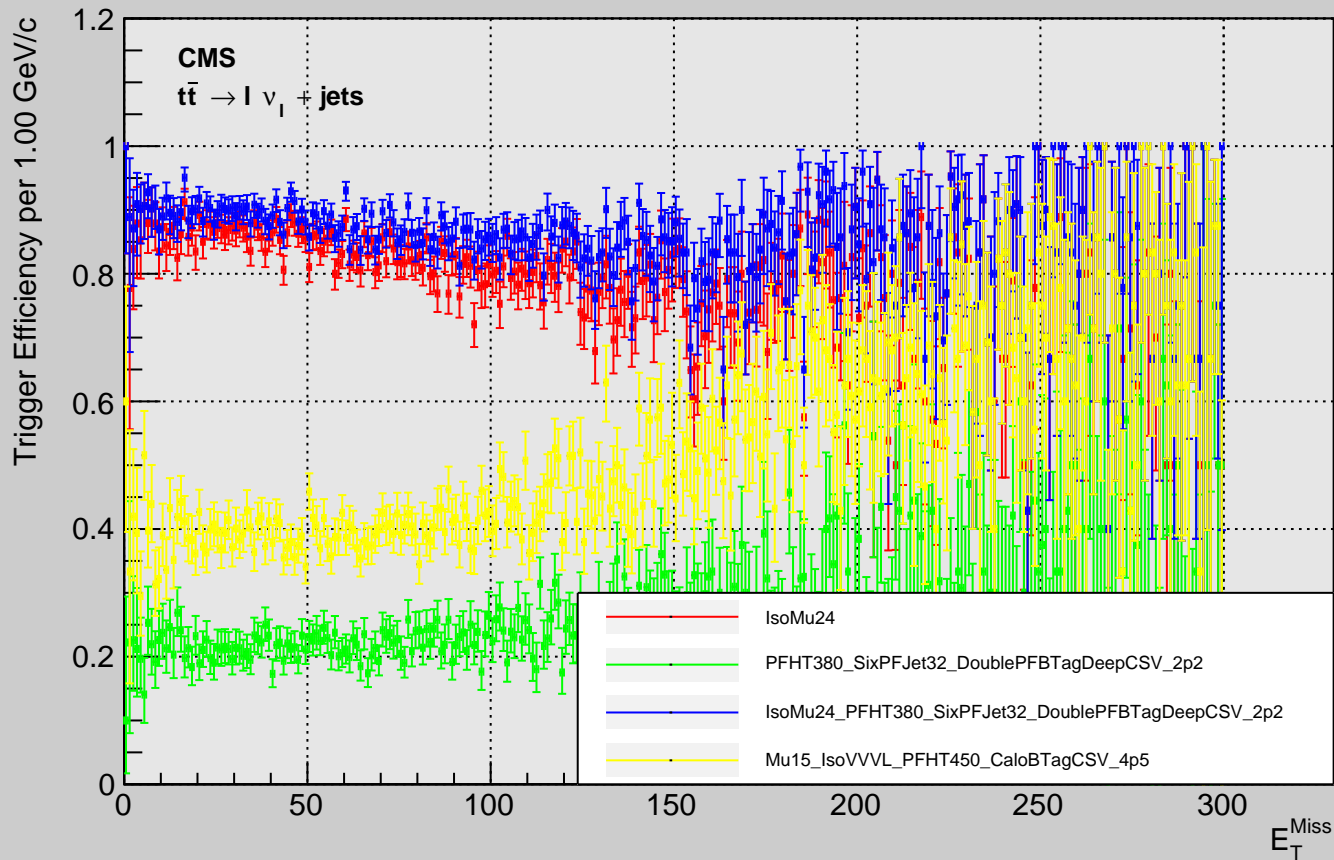


h_metPt_notrigger

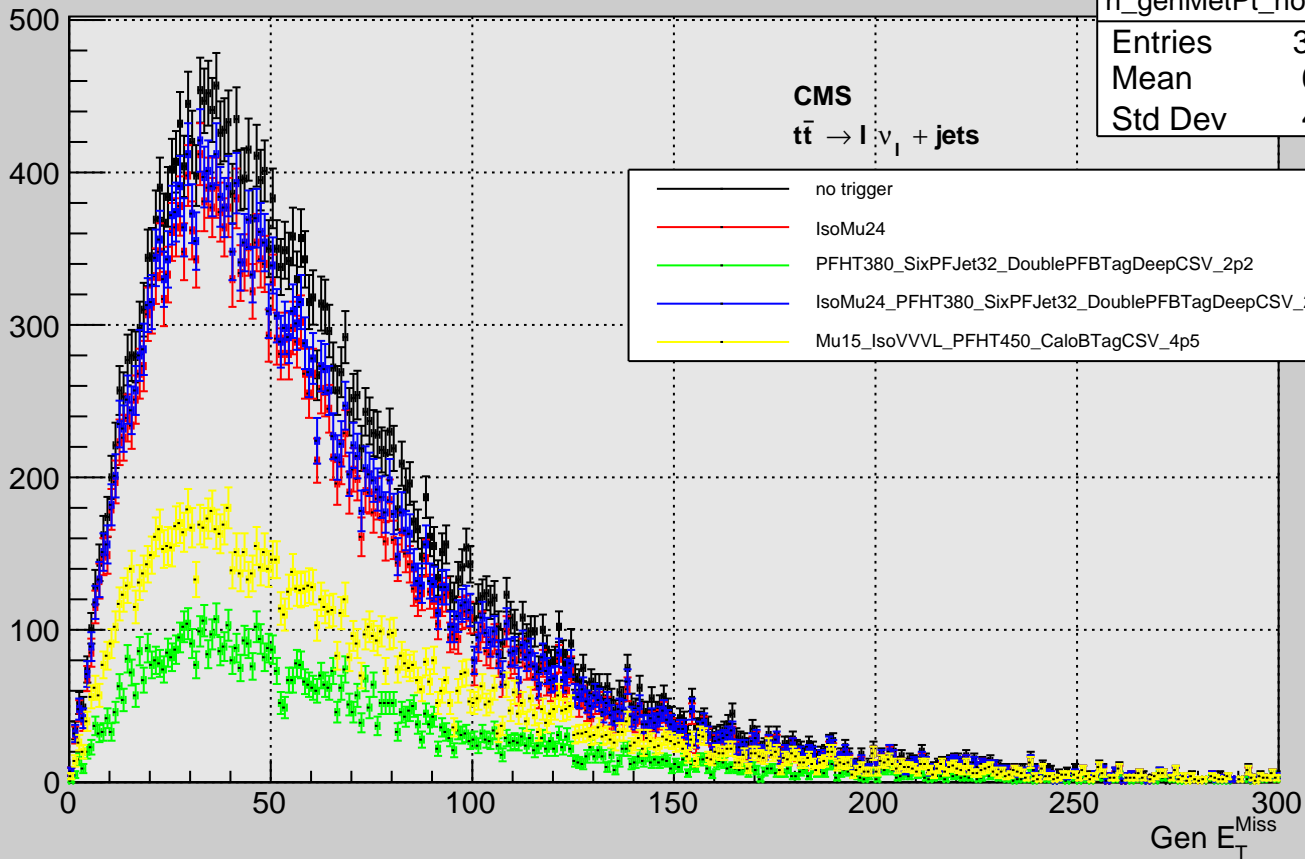
Entries 33985

Mean 77.93

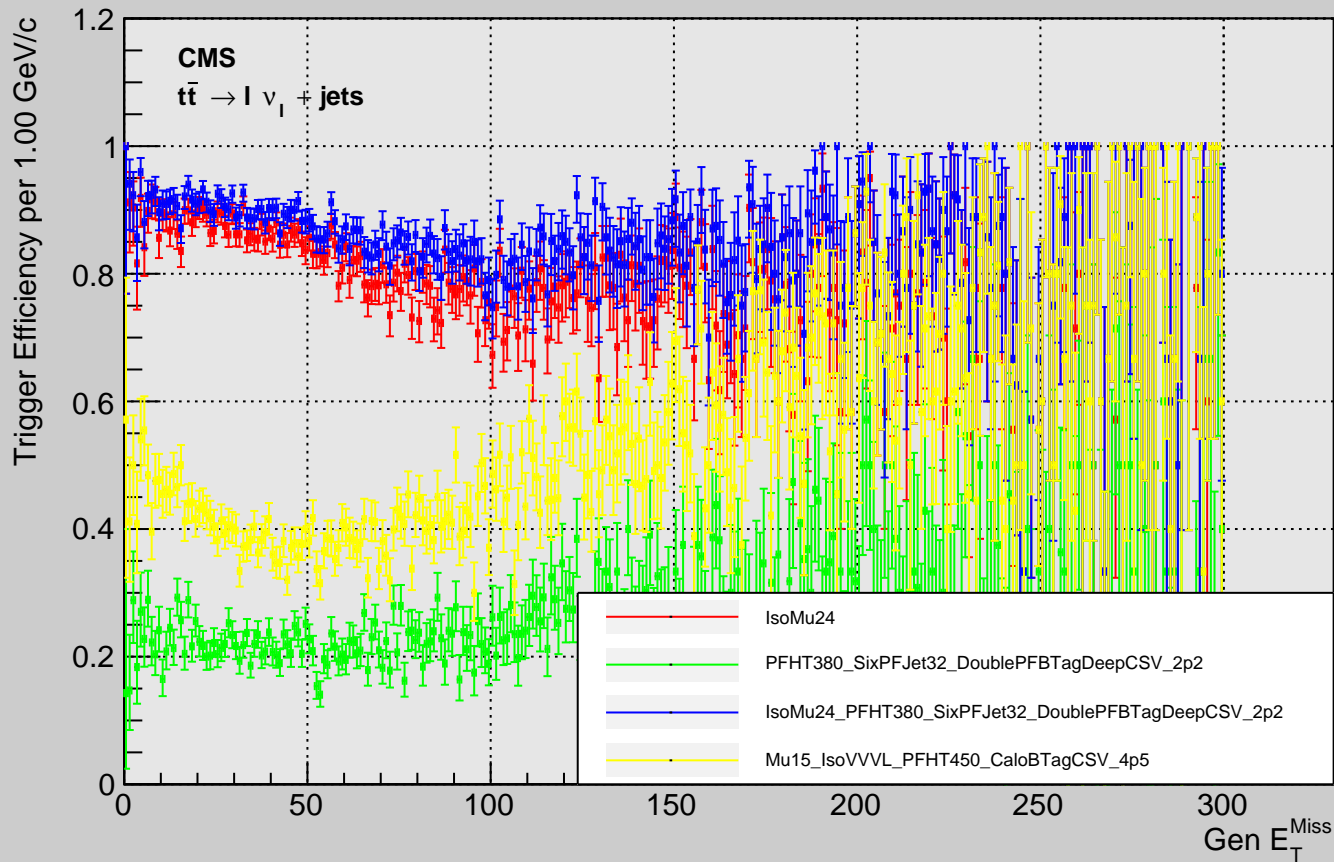
Std Dev 50.42



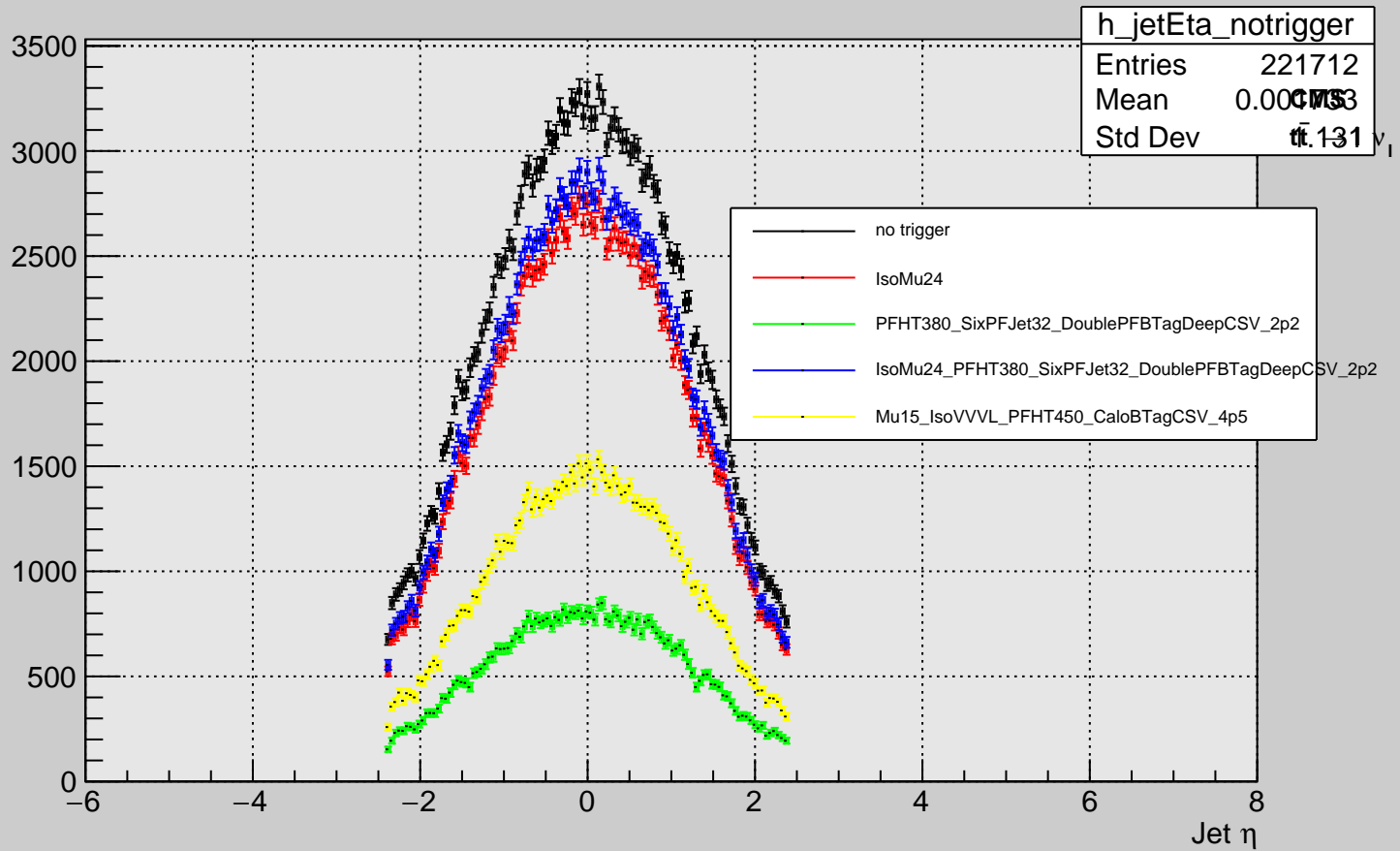
Number of Events per 1GeV/c



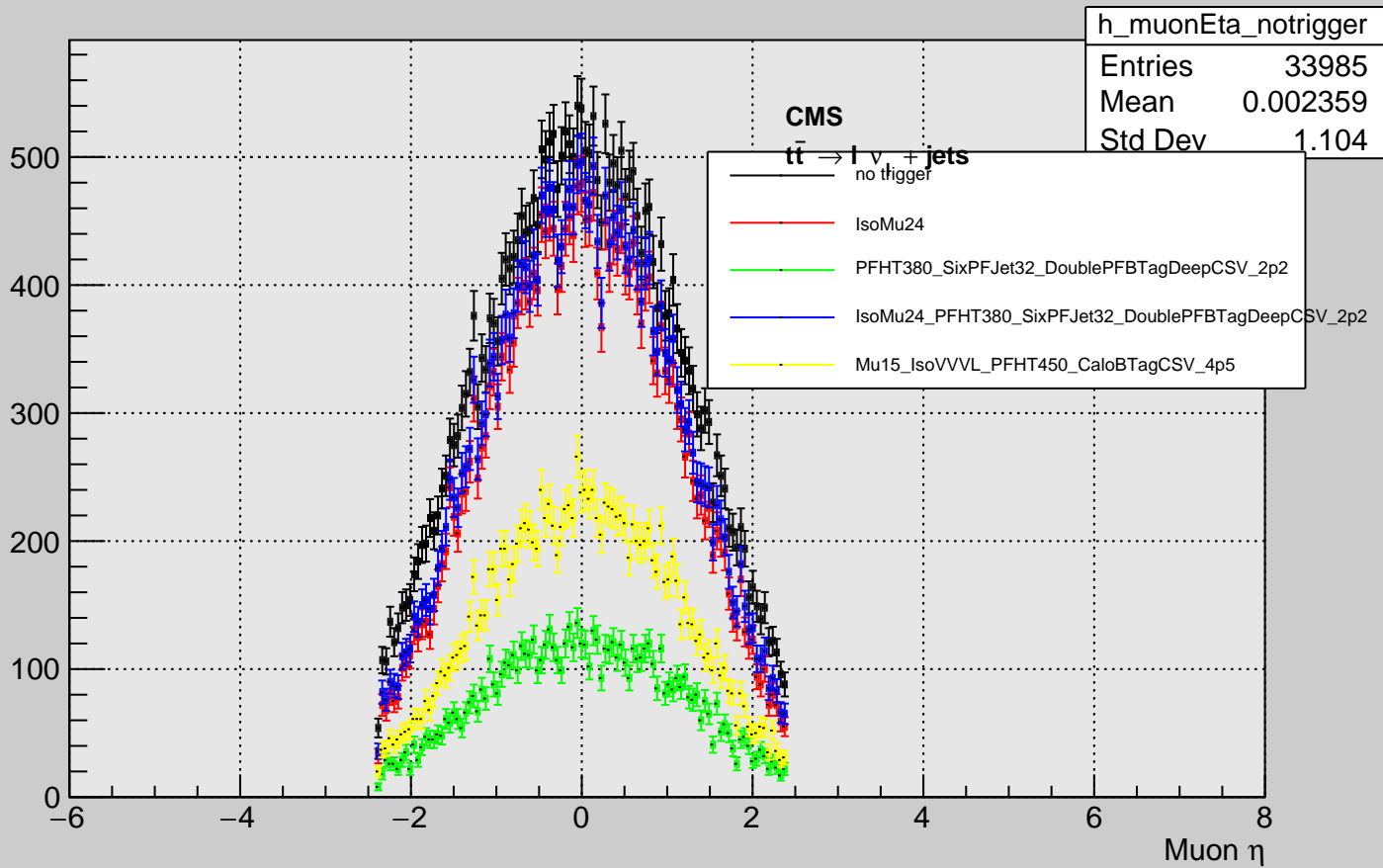
h_genMetPt_notrigger	
Entries	33985
Mean	65.08
Std Dev	47.28

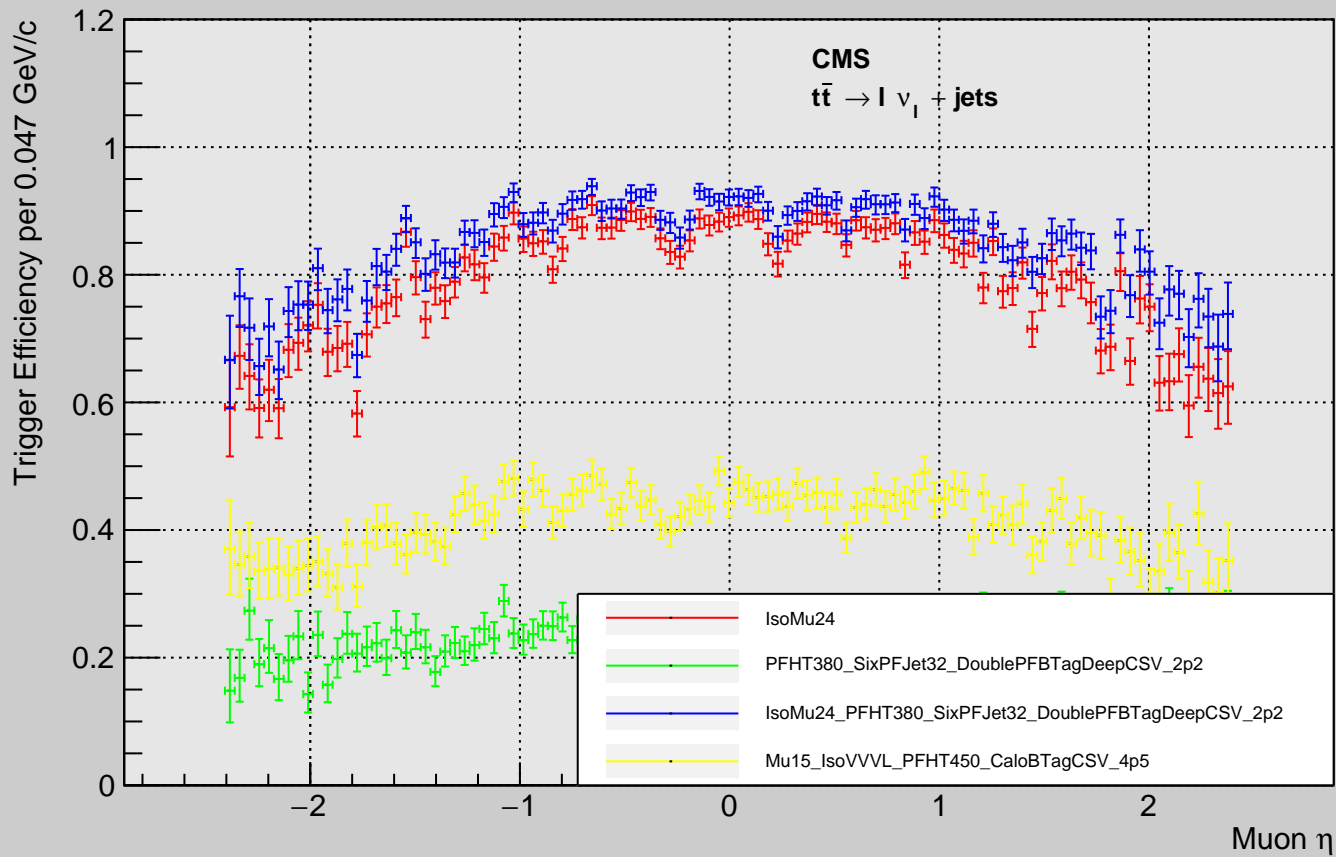


Number of Events per $\delta\eta = 0.046$

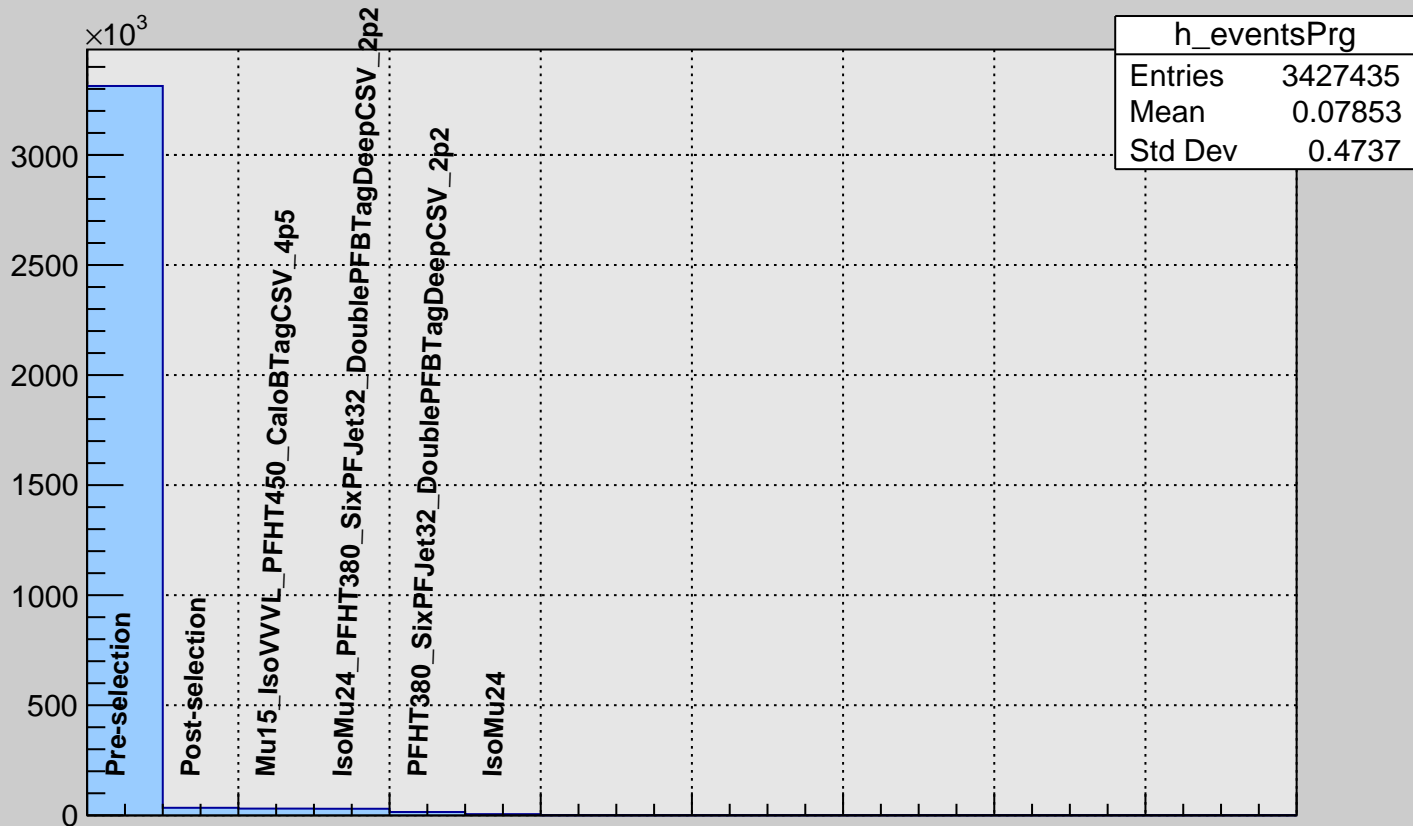


Number of Events per $\delta\eta = 0.046$





Total Number of Accepted Events



Cuts and Triggers

h_eventsPrg

Entries	3427435
Mean	0.07853
Std Dev	0.4737