

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

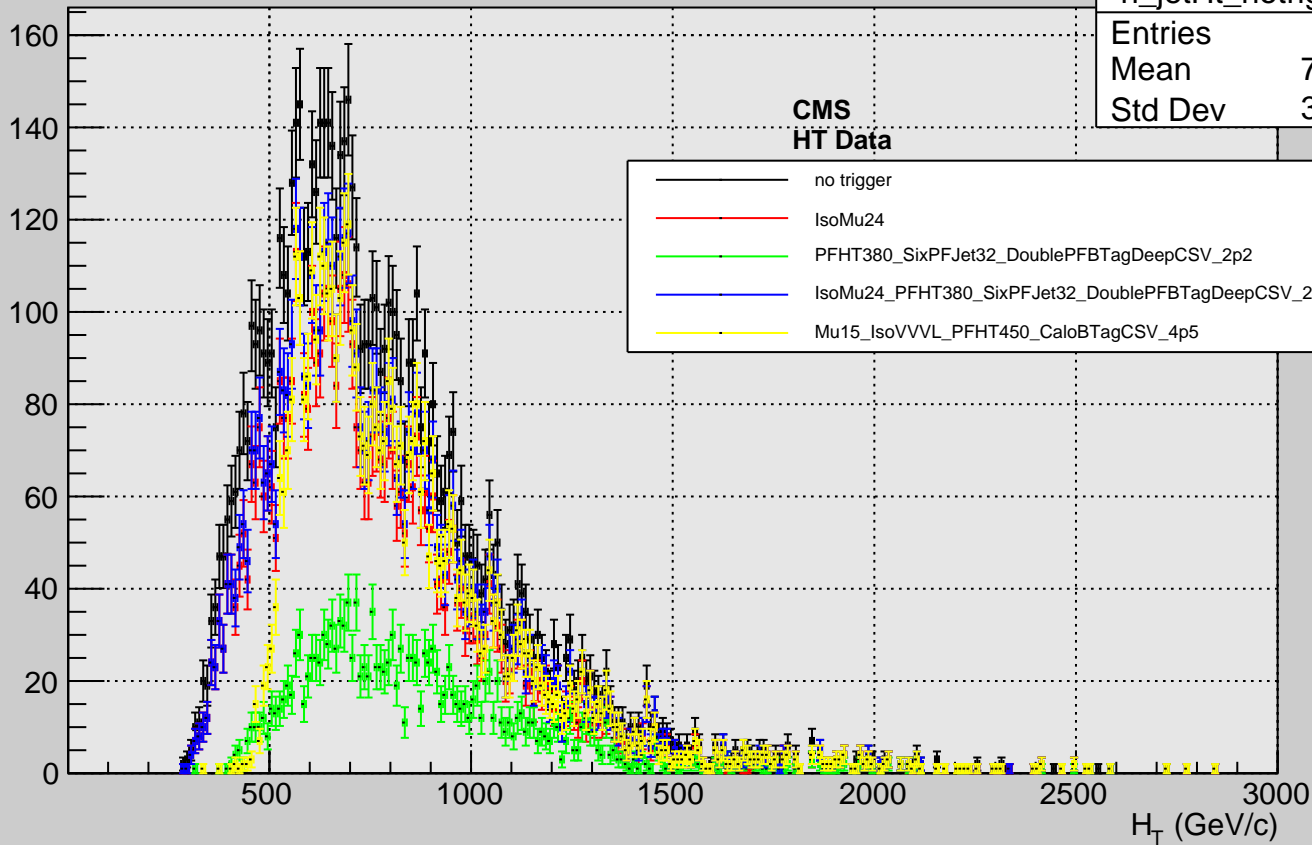
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

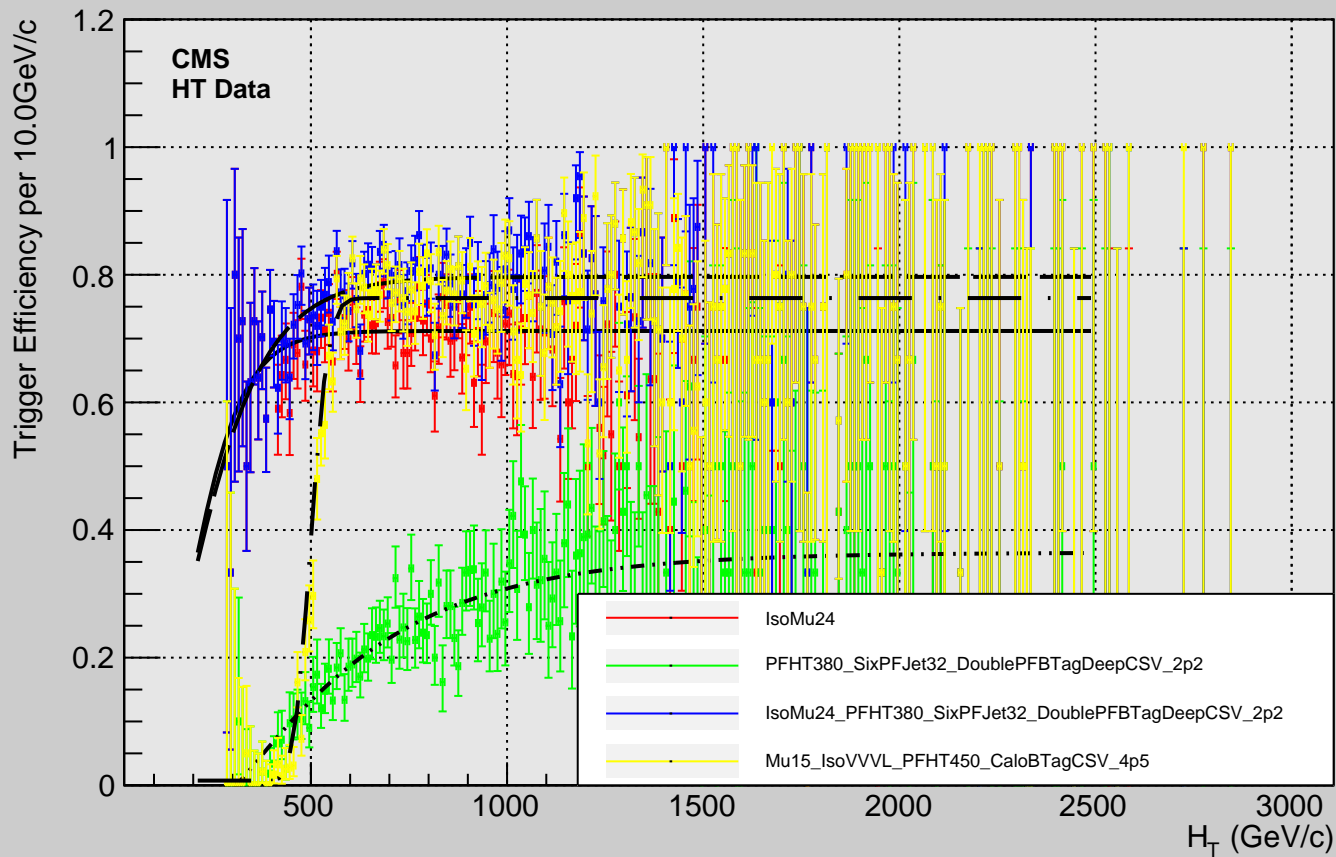
**Event Limit:** None (see last page)

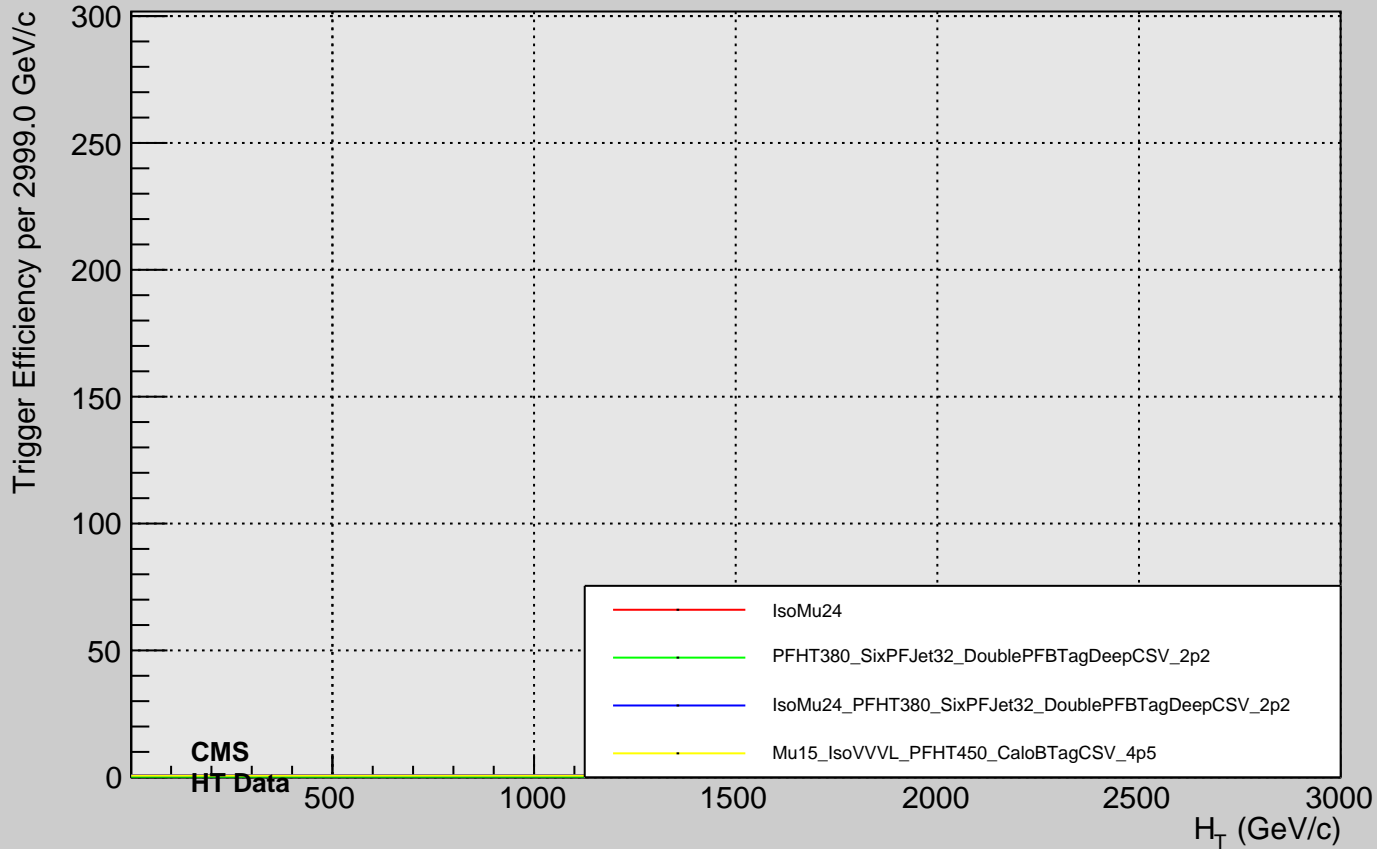
### Off-line (post-)selection Requisites for:

- **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)

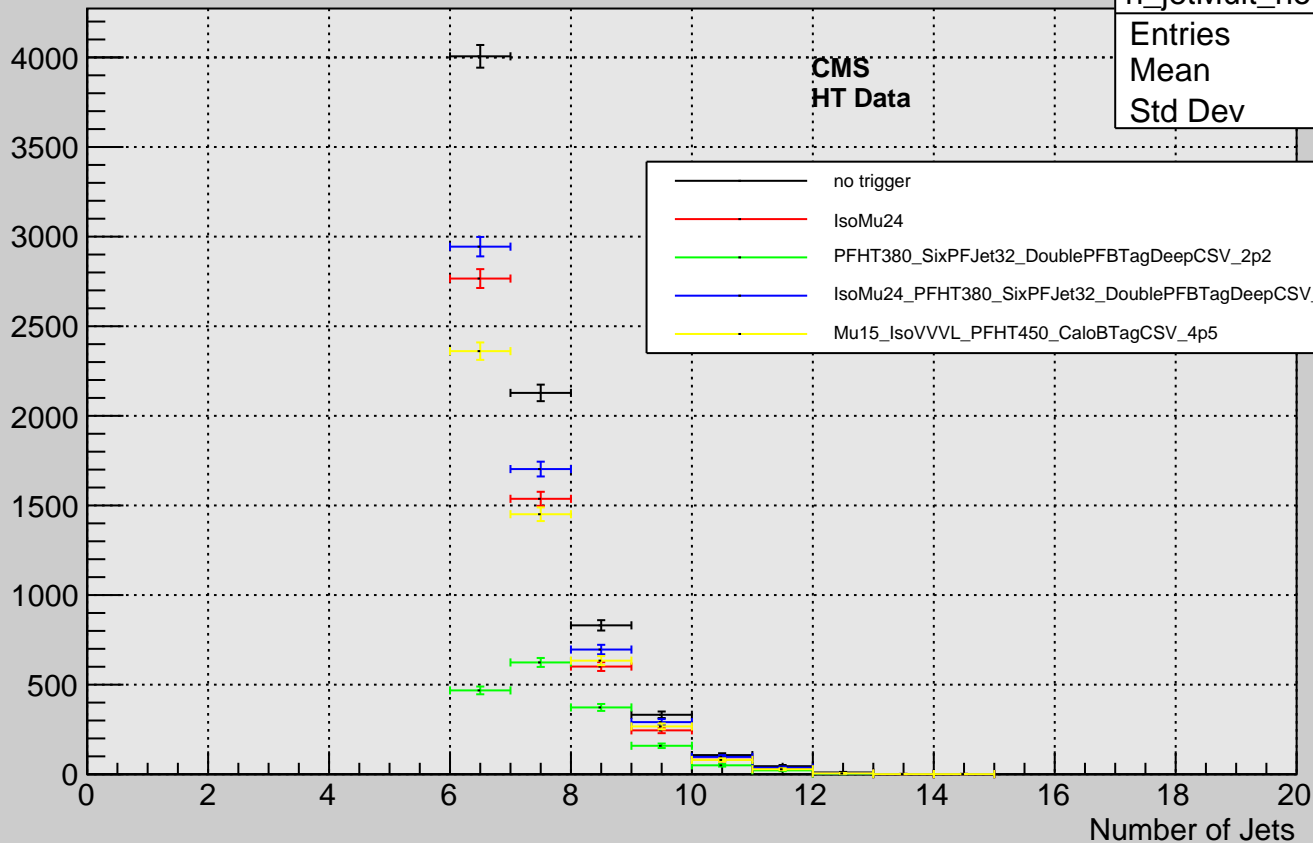
Number of Events per 10 GeV/c



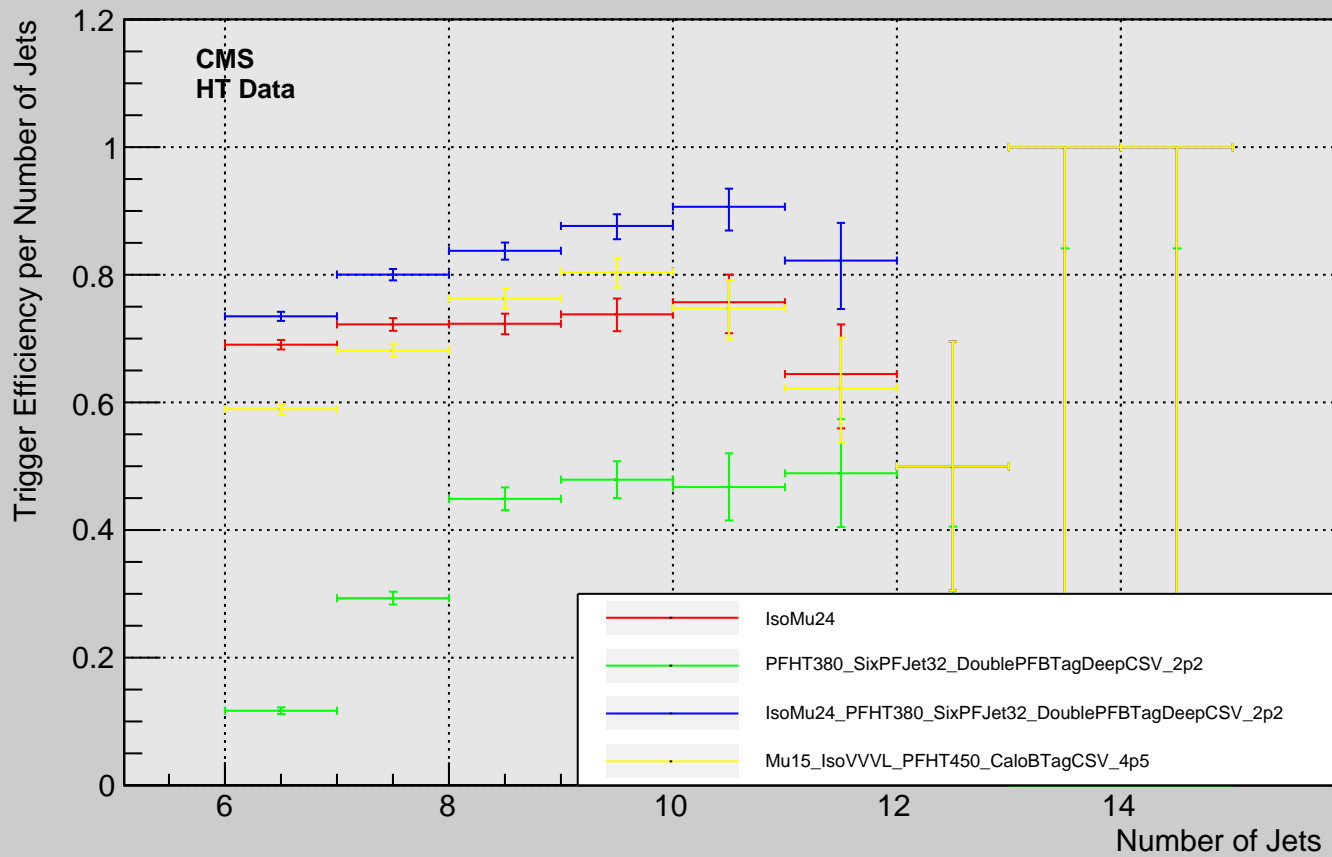




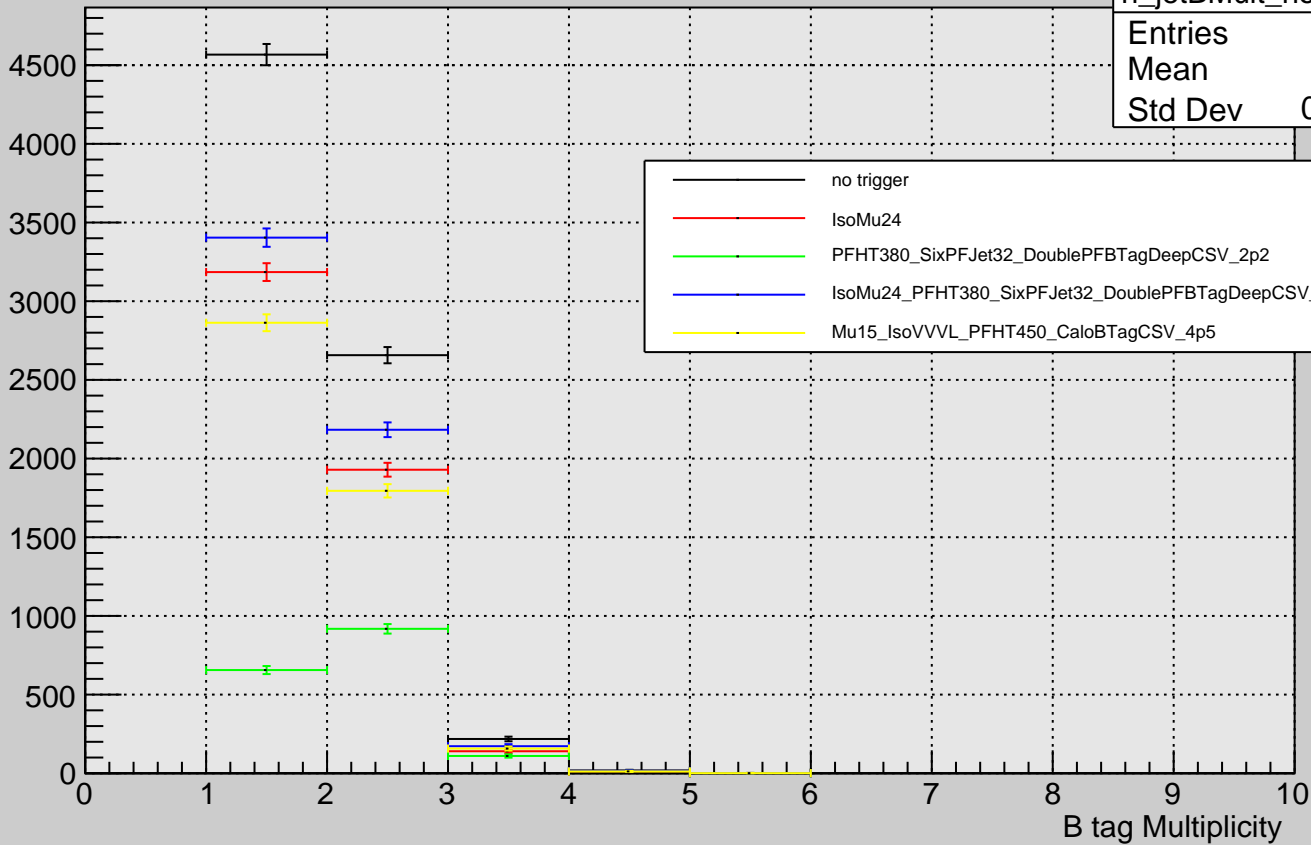
Number of Events per Number of Jets



h_jetMult_notrigger	
Entries	7461
Mean	6.739
Std Dev	1.014



Number of Events per Number of Jets

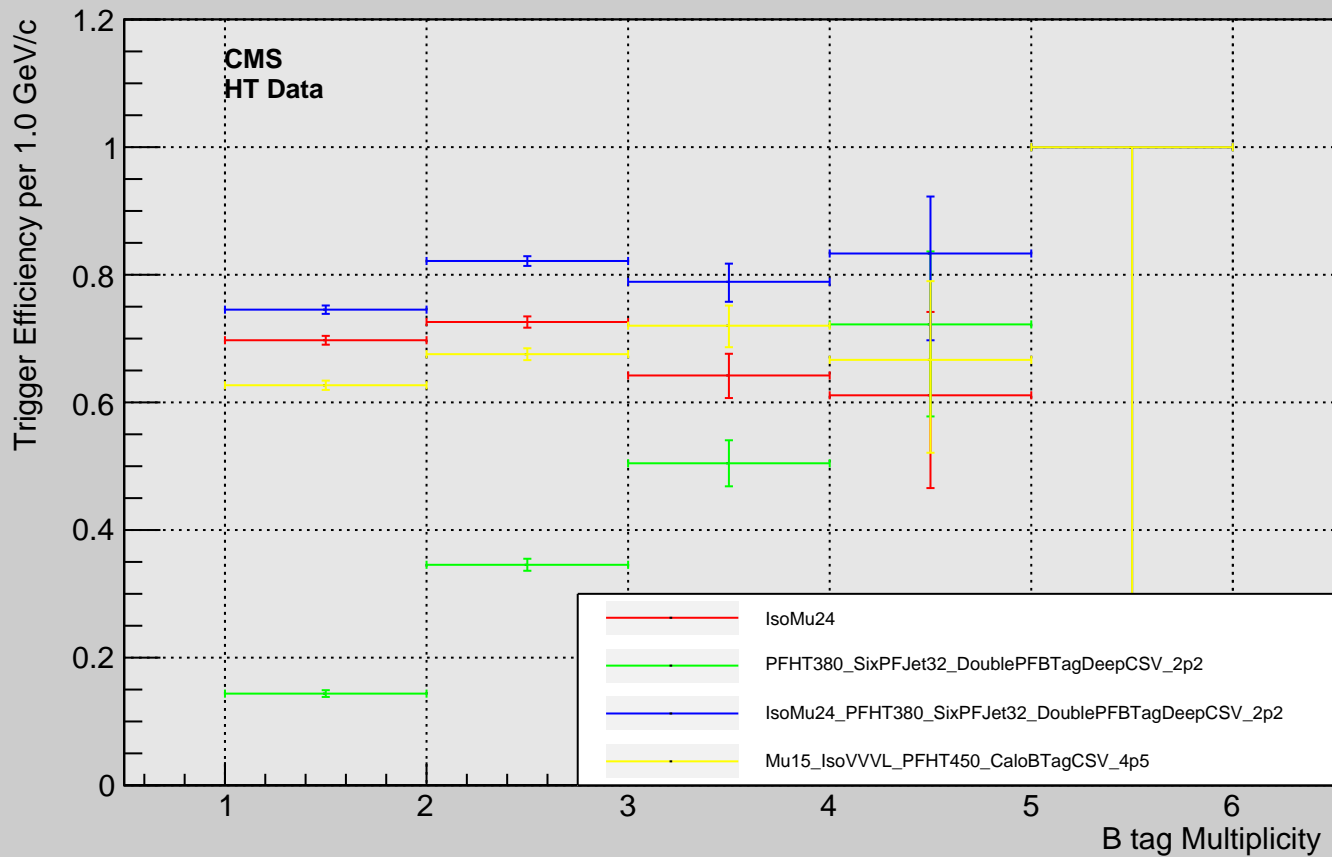


h\_jetBMult\_notrigger

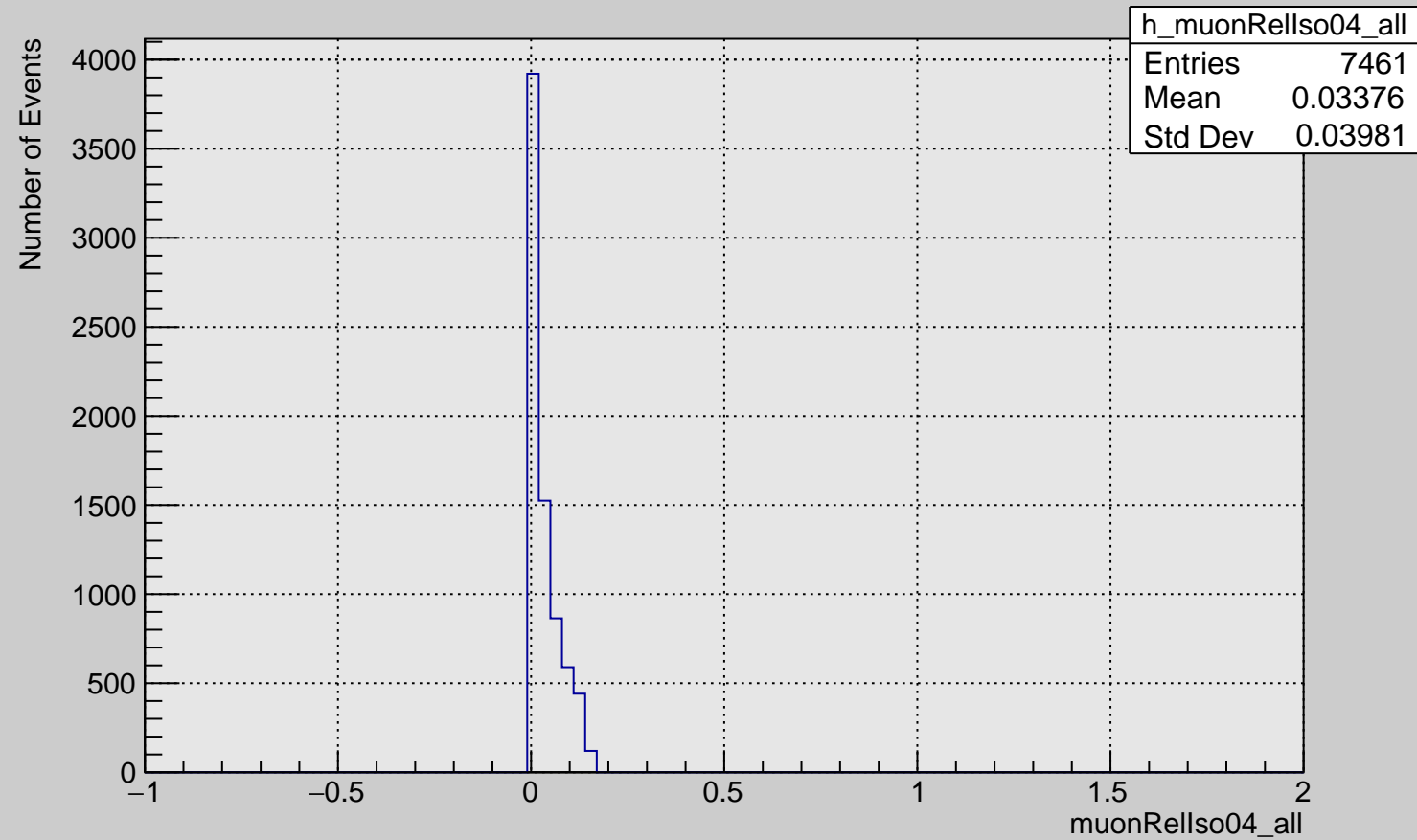
Entries 7461

Mean 1.922

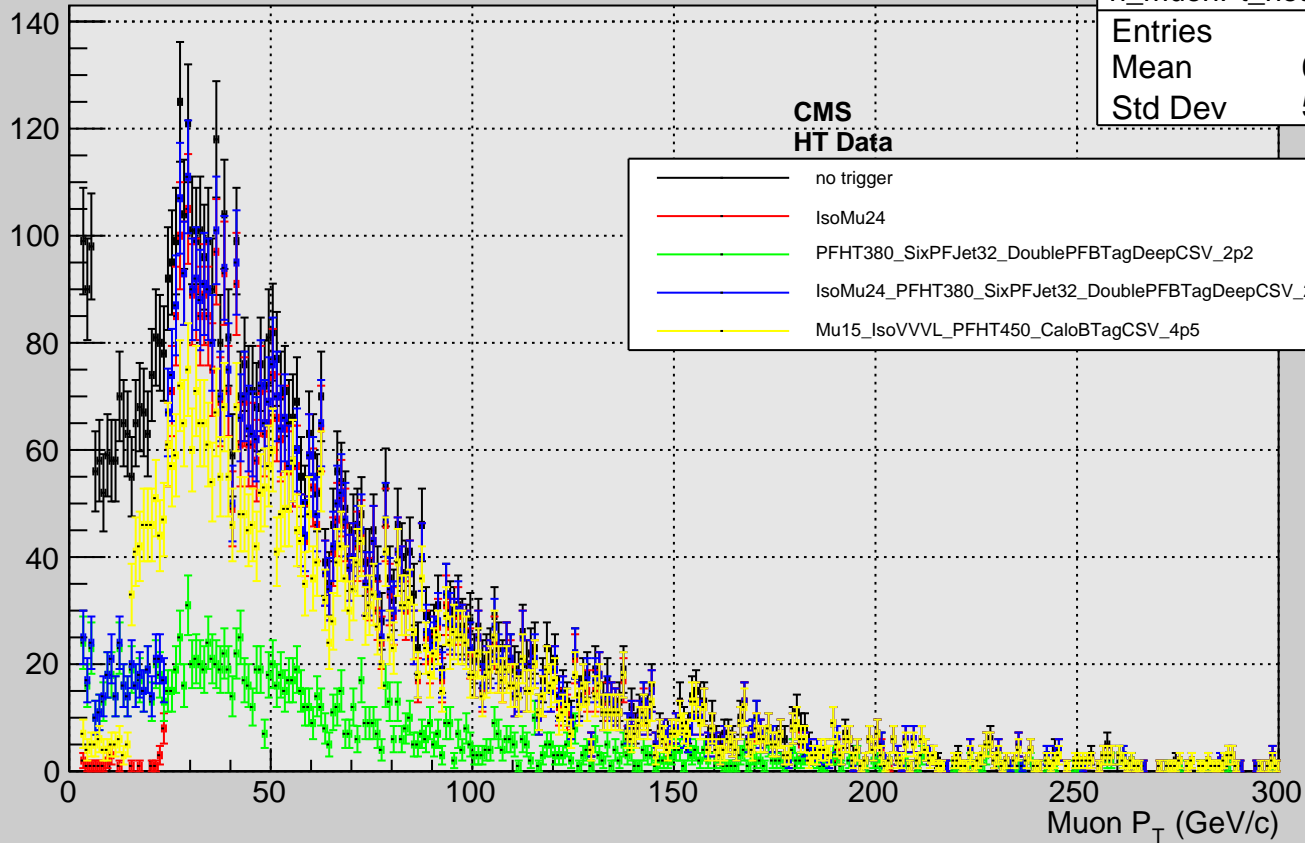
Std Dev 0.5643







Number of Events per 1 GeV/c



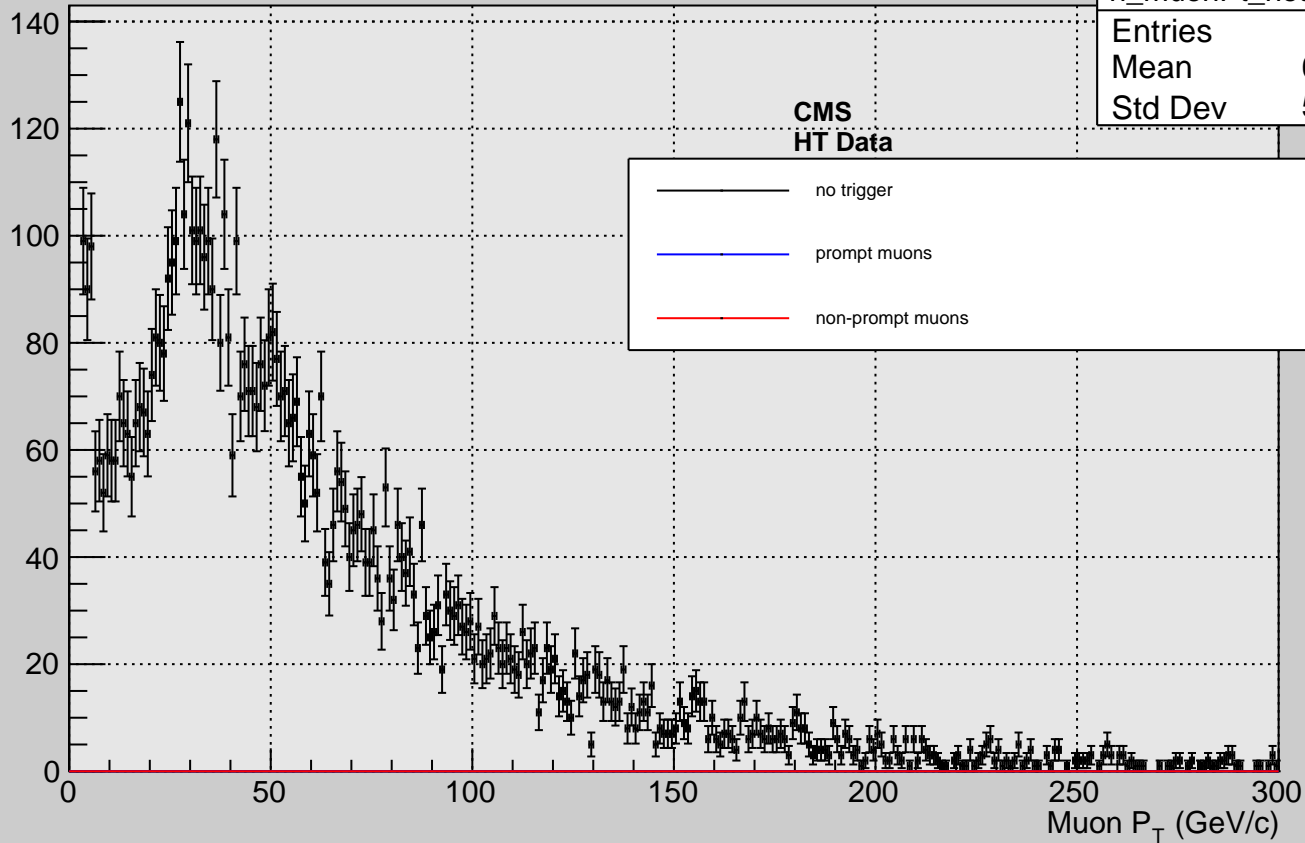
h\_muonPt\_notrigger

Entries 7461

Mean 63.07

Std Dev 51.17

Number of Events per 1 GeV/c

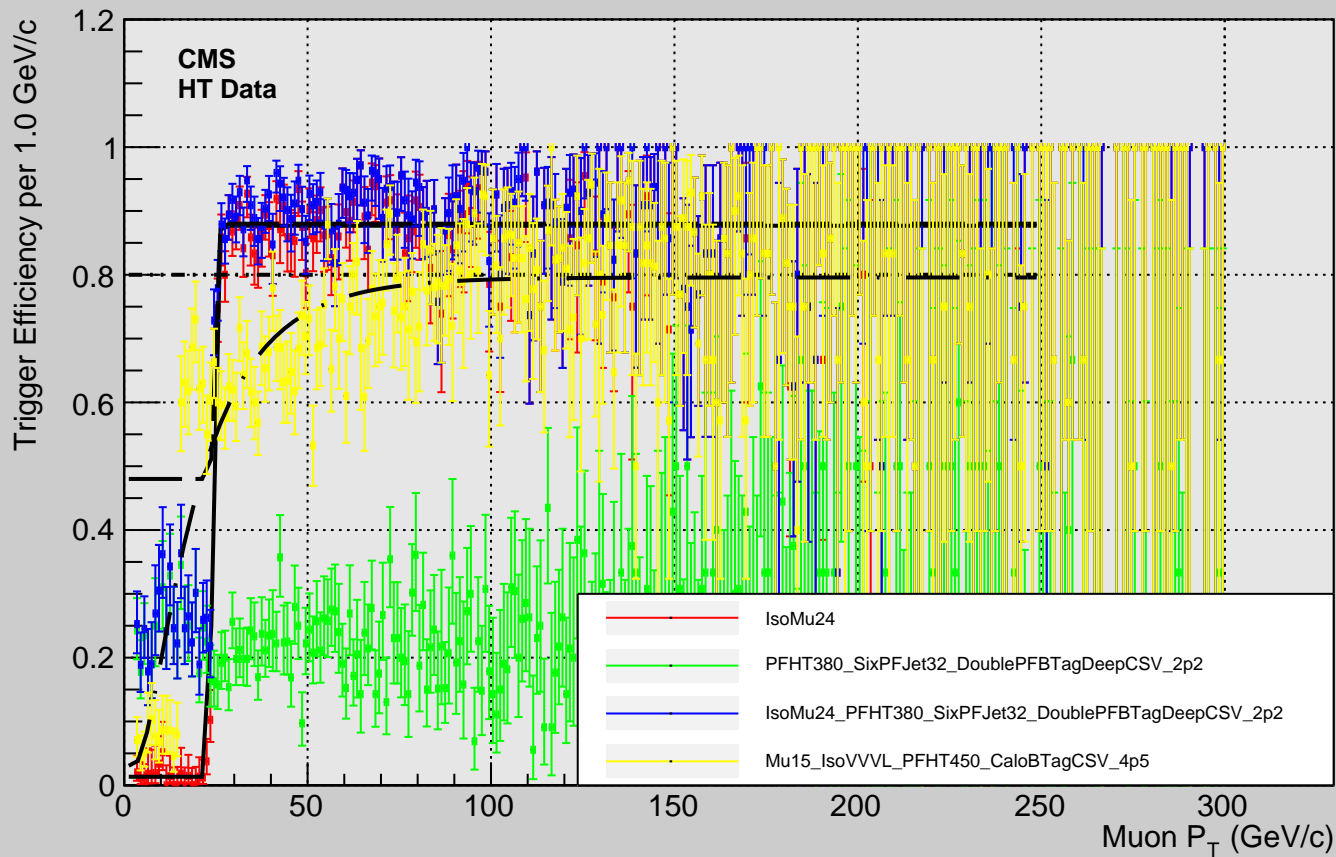


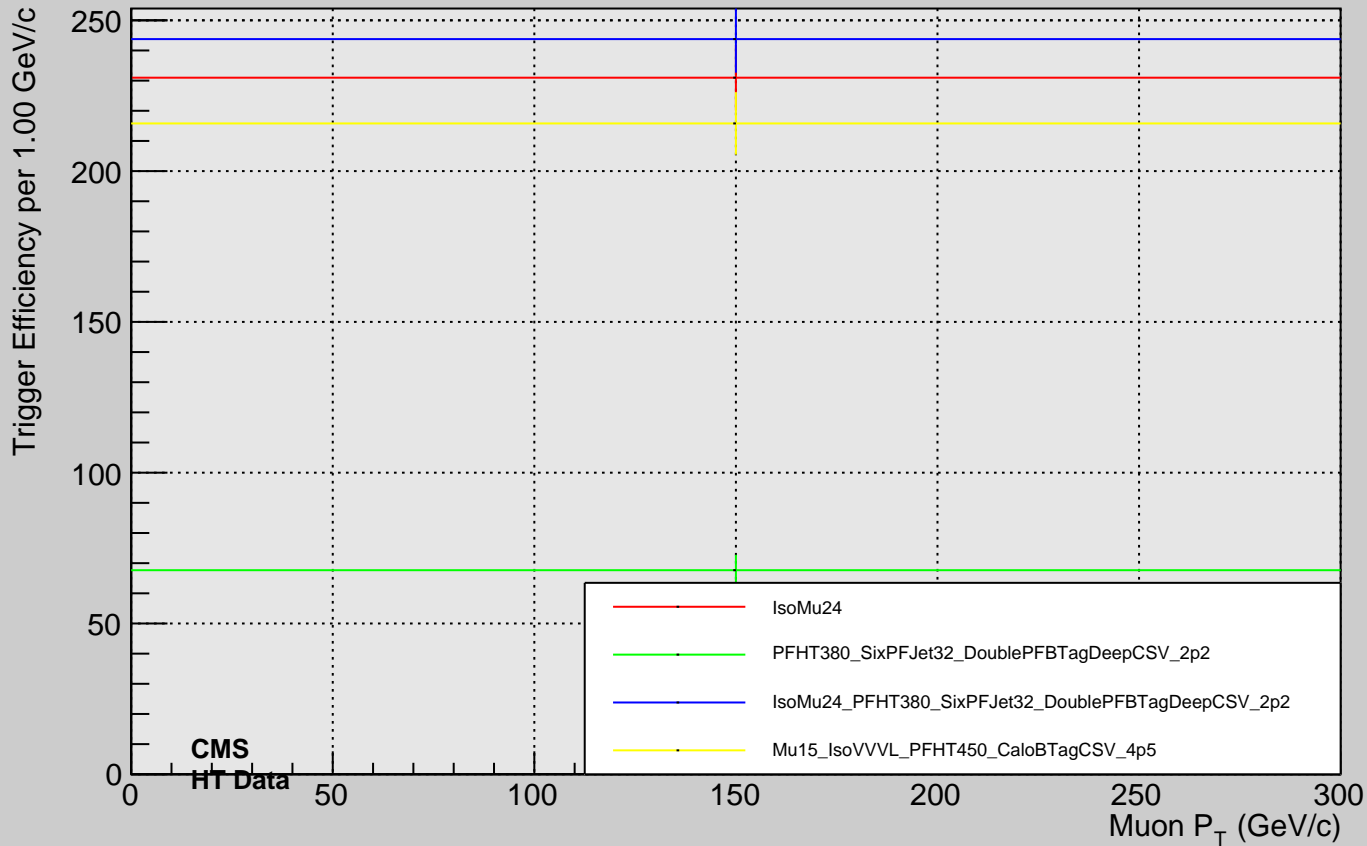
h\_muonPt\_notrigger

Entries 7461

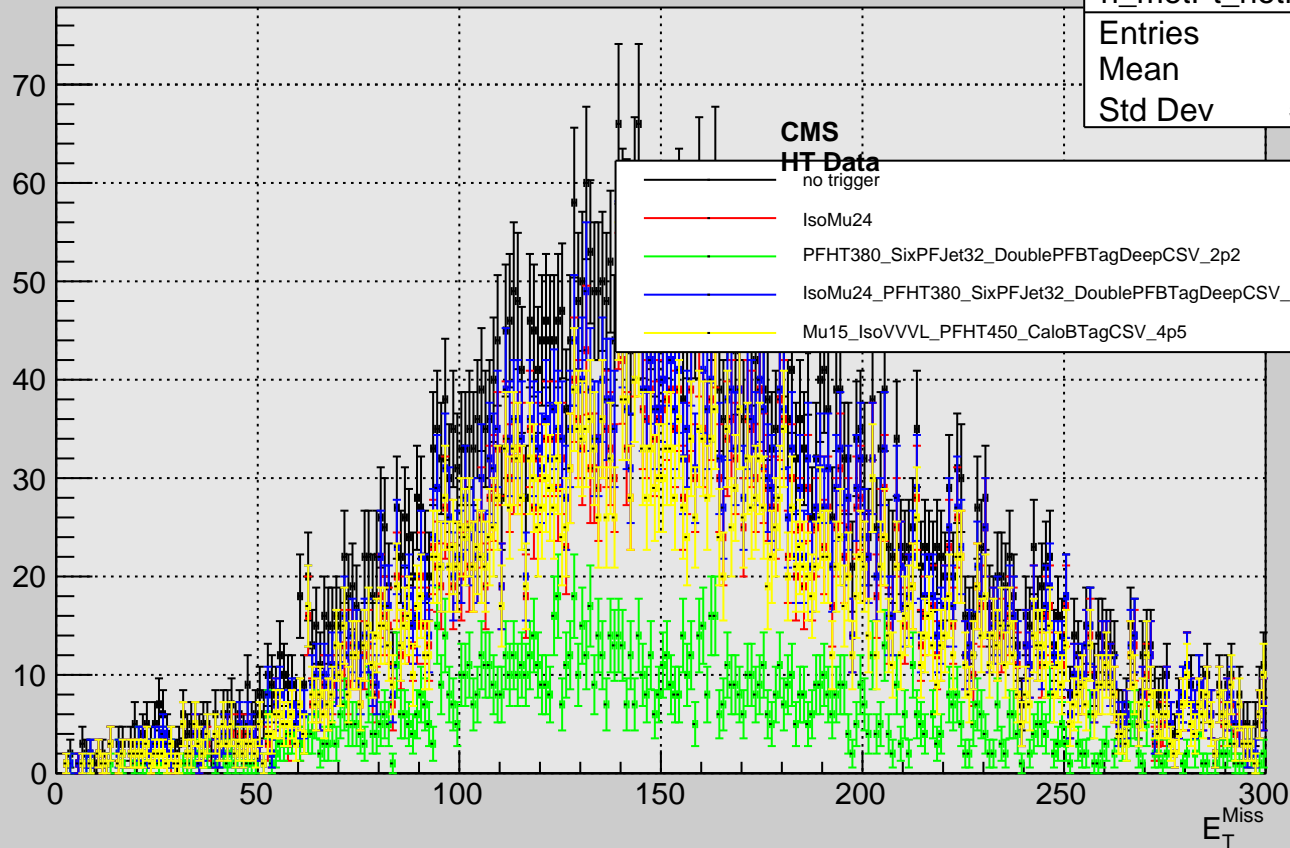
Mean 63.07

Std Dev 51.17





Number of Events per 1 GeV/c

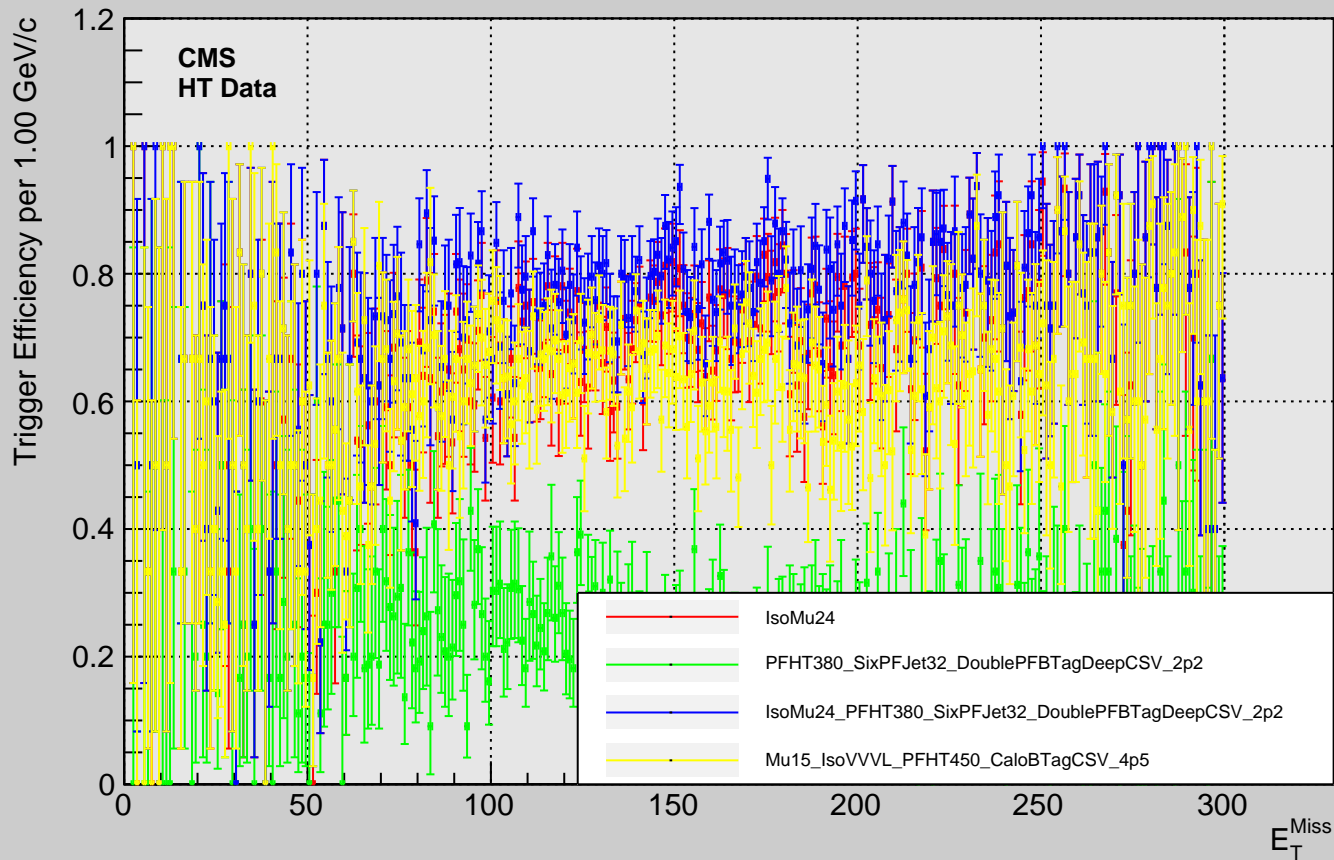


h\_metPt\_notrigger

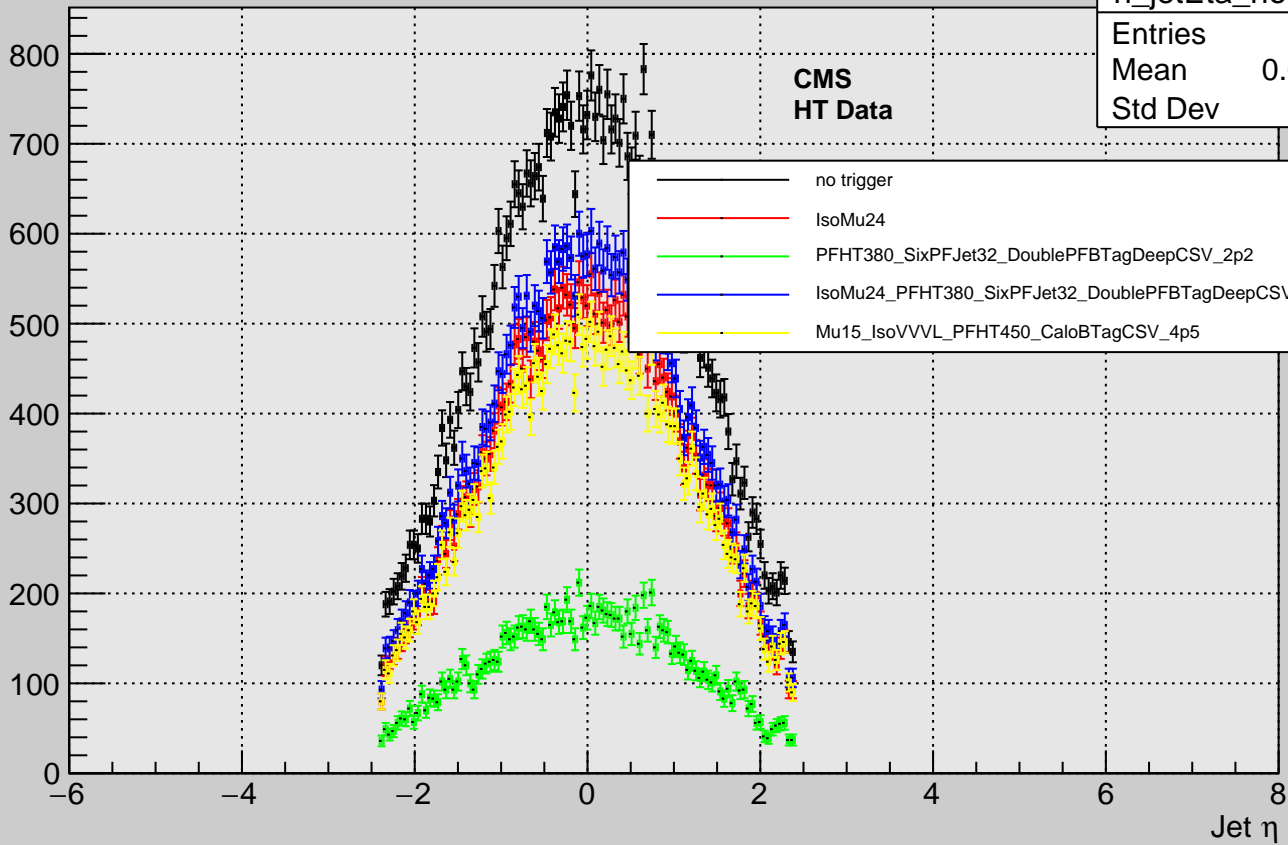
Entries 7461

Mean 156.2

Std Dev 57.25



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



h\_jetEta\_notrigger

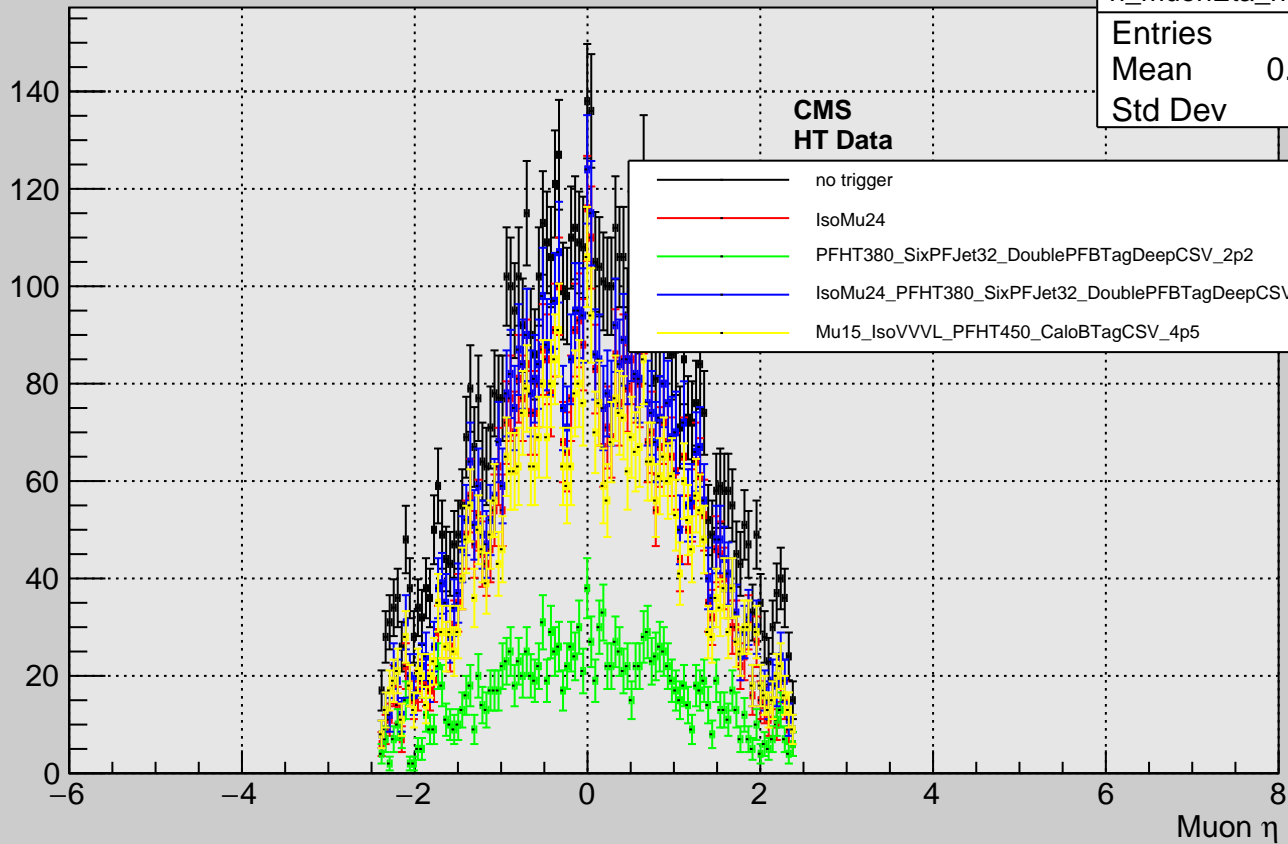
Entries 50280

Mean 0.003121

Std Dev 1.121



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

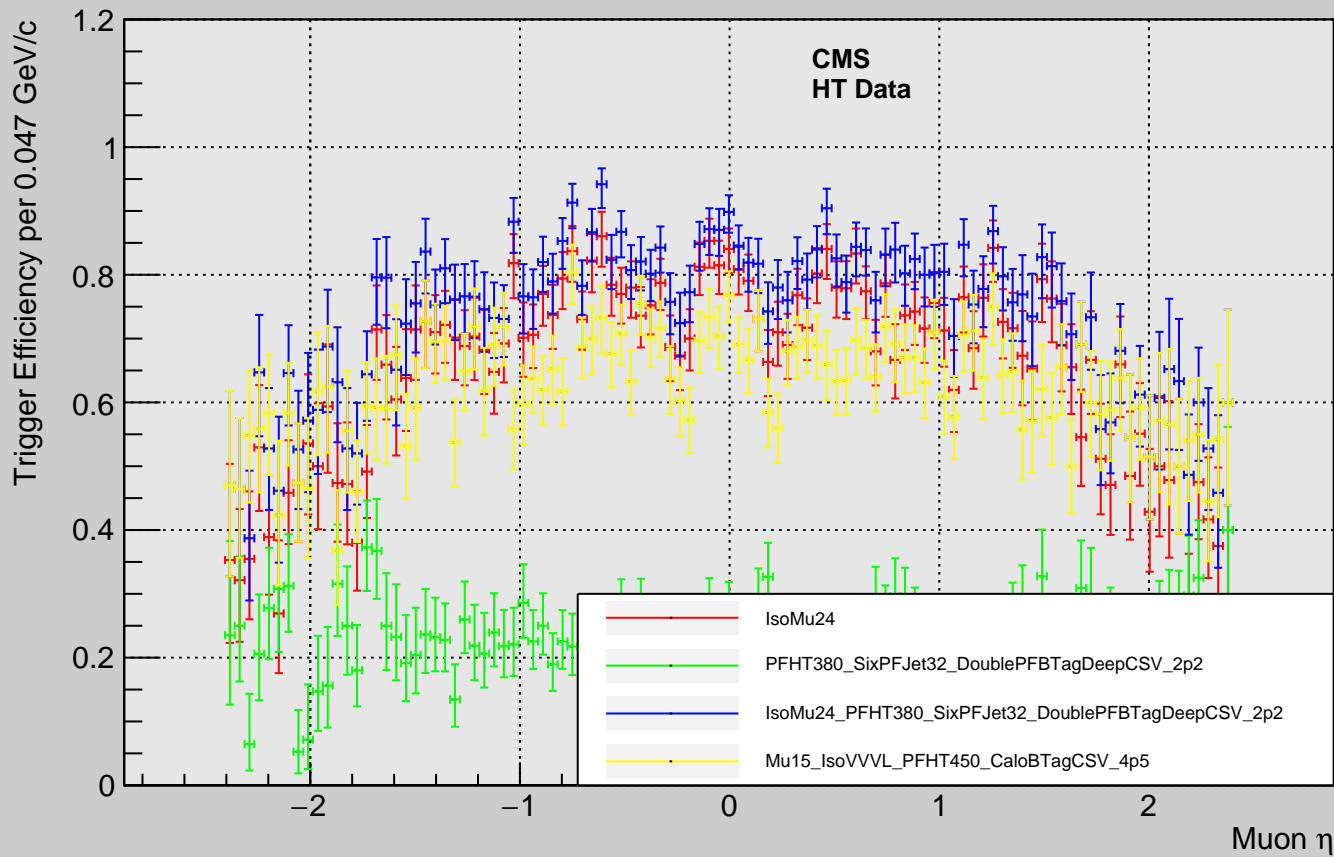


h\_muonEta\_notrigger

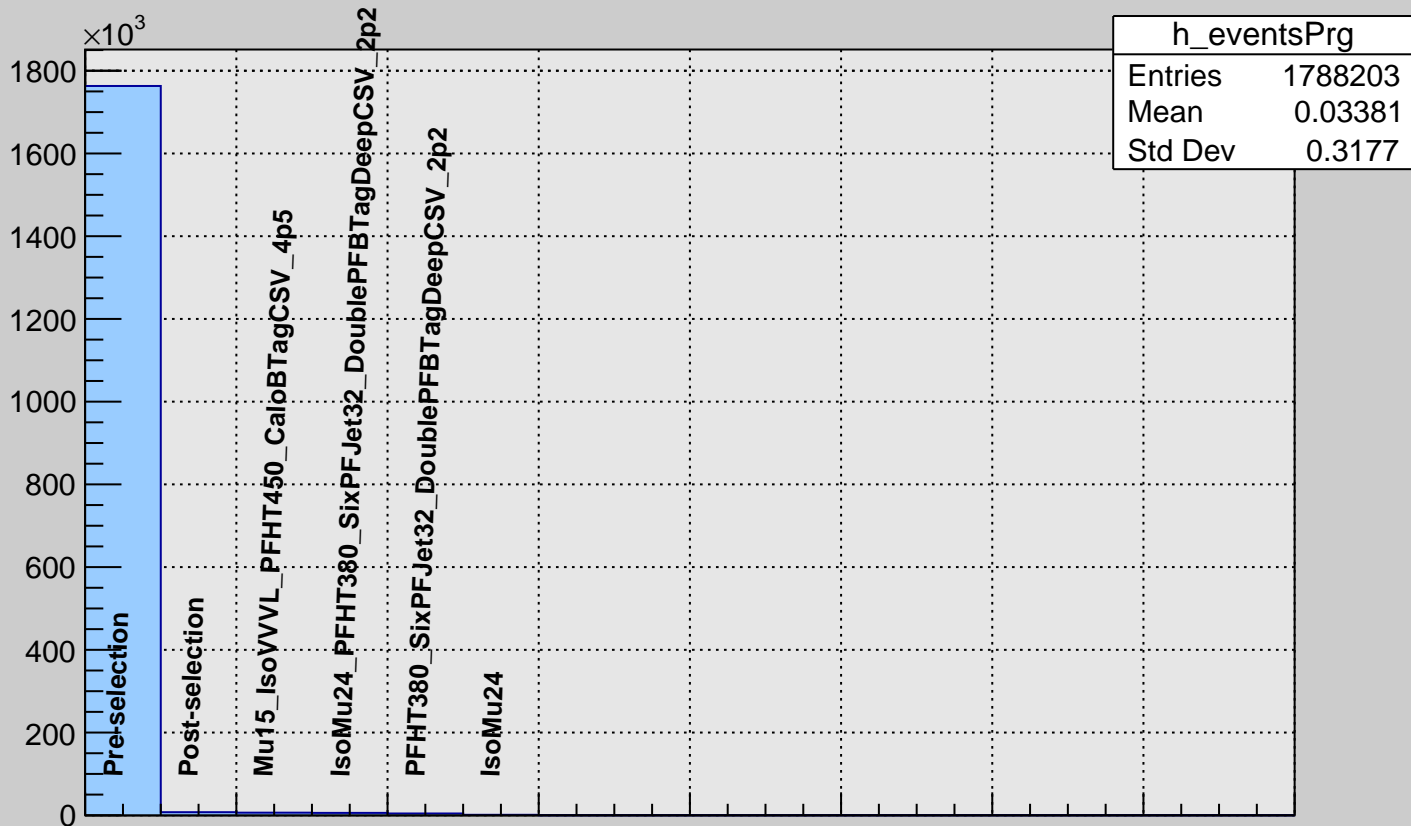
Entries 7461

Mean 0.00838

Std Dev 1.114



Total Number of Accepted Events



Cuts and Triggers