

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

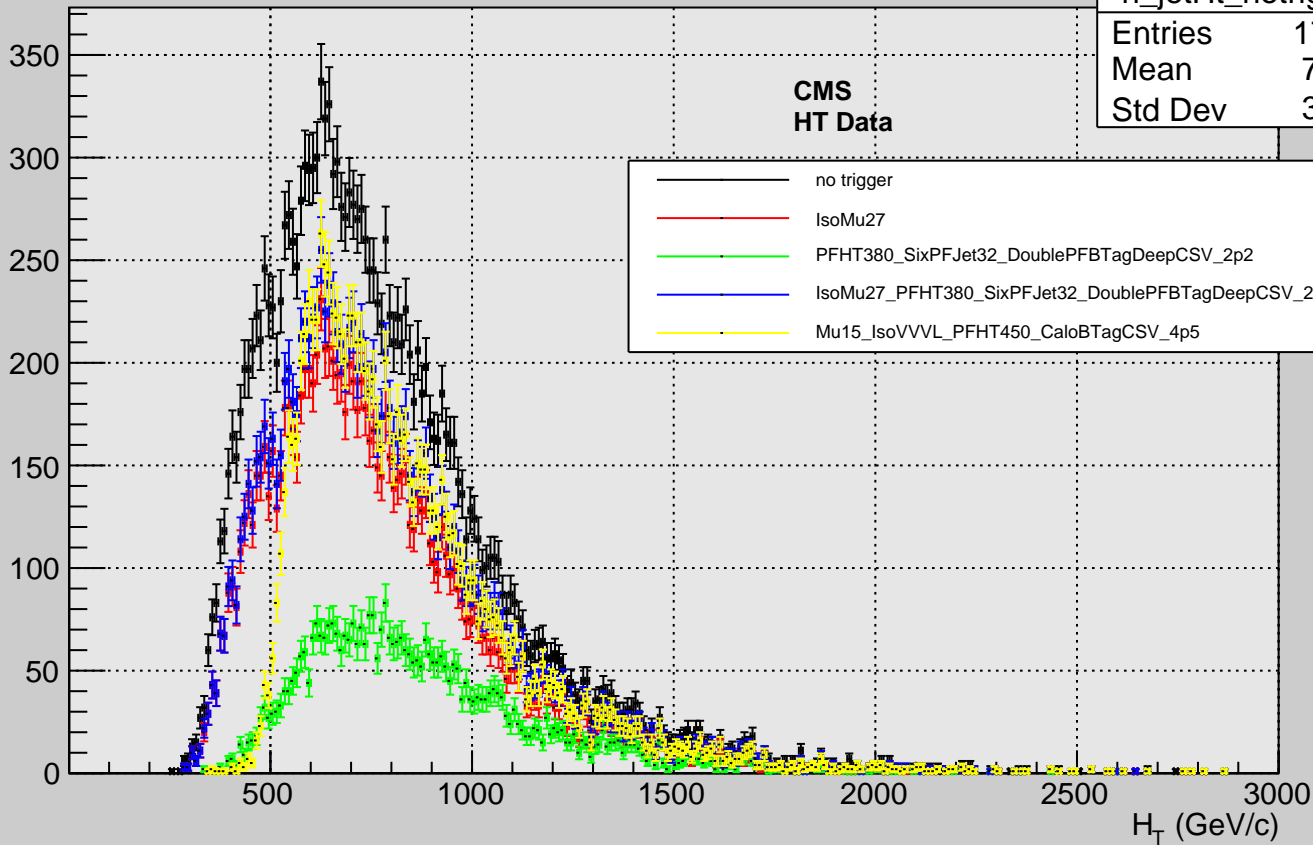
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

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

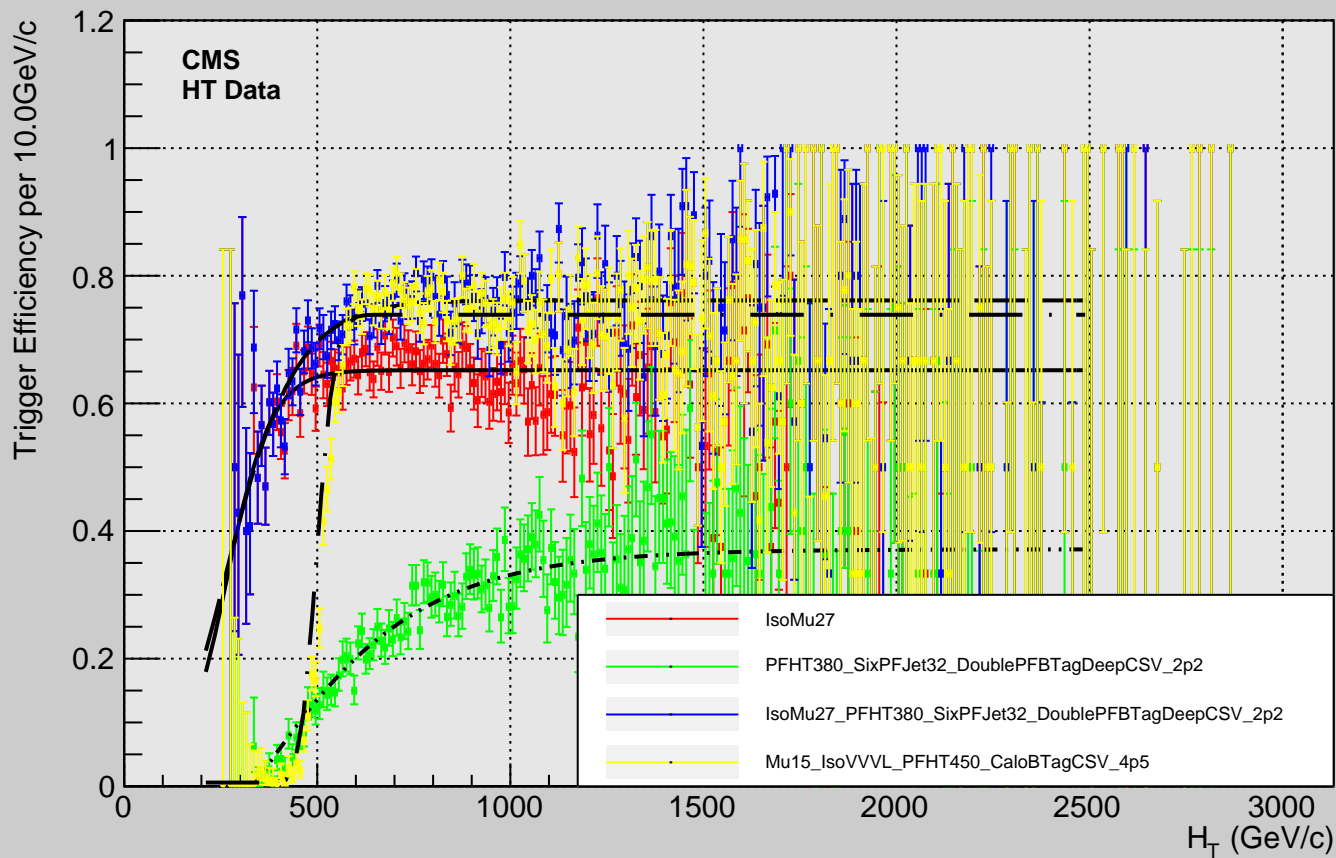
### Off-line (post-)selection Requisites for:

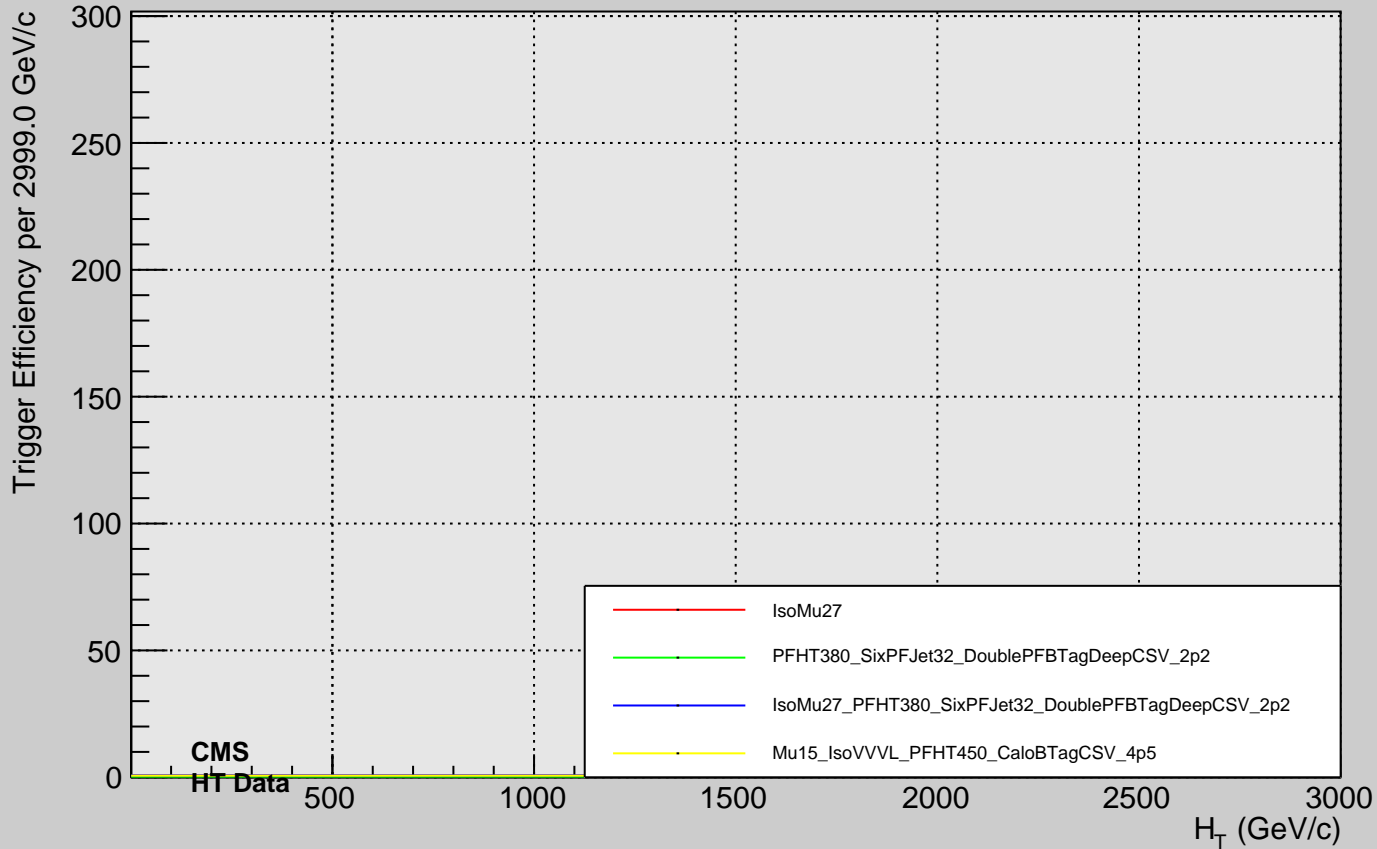
- **Jets:**  $\text{jetId} > 2$  ,  $p_{\text{T}} > 30$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{miniPFRellso\_all} < 0.15$  (for at least 1)

Number of Events per 10 GeV/c

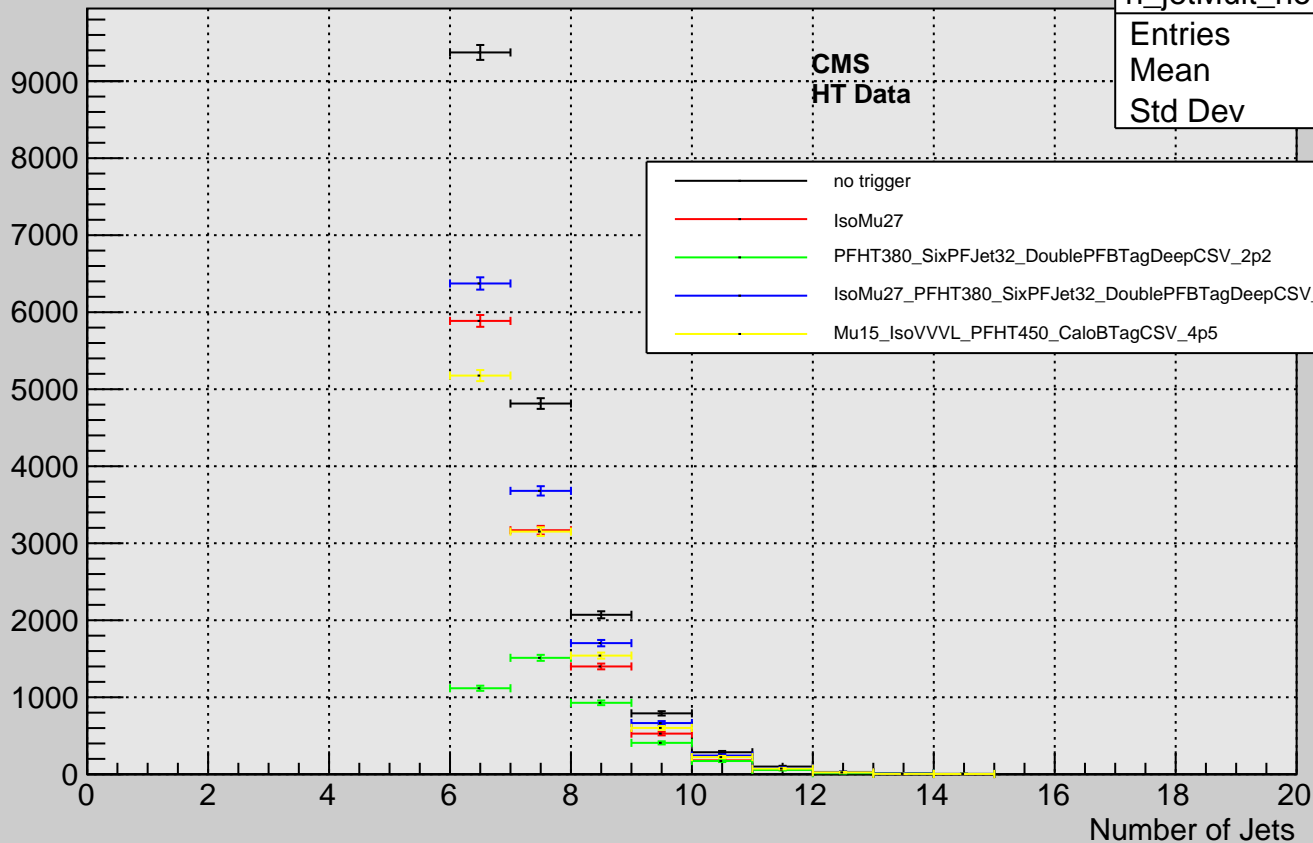


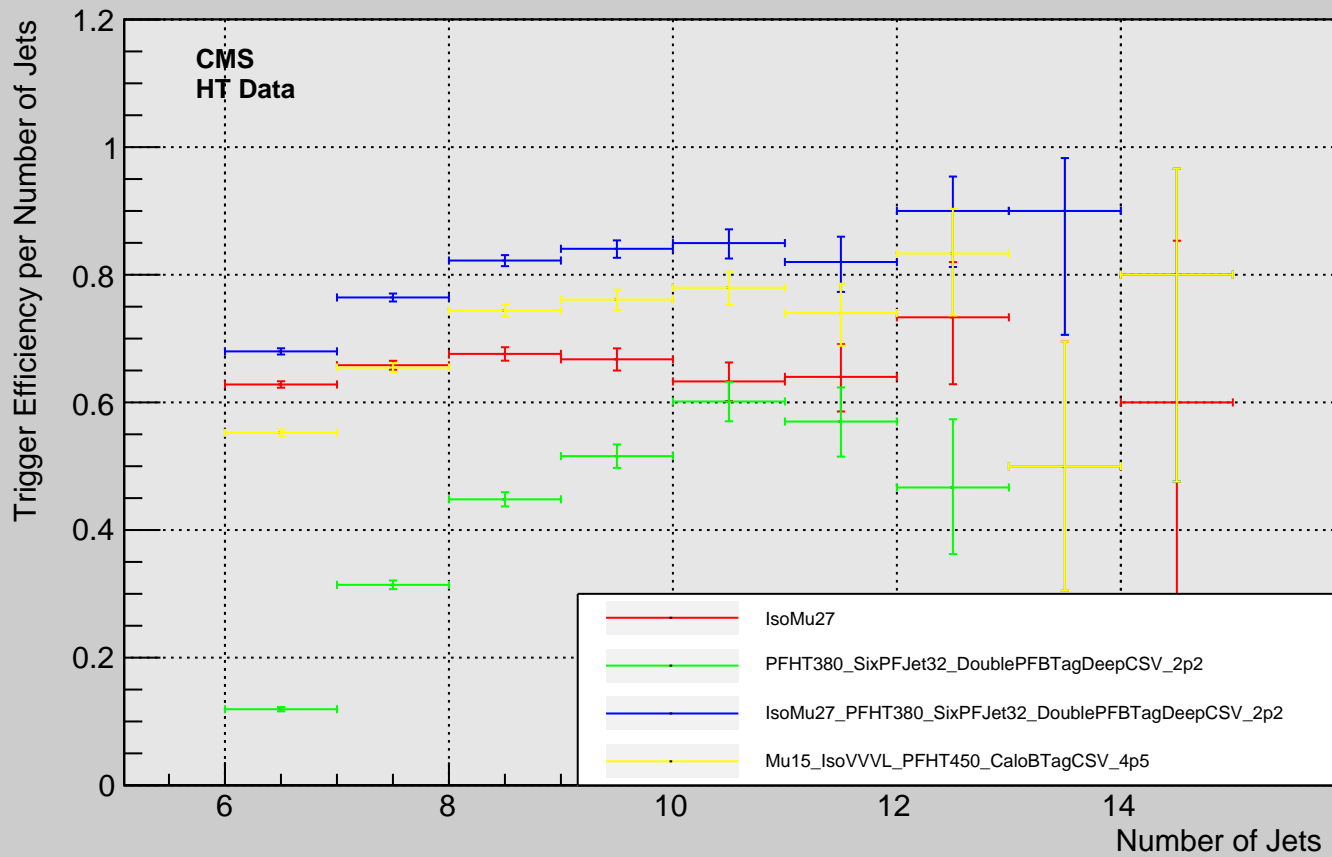
h_jetHt_notrigger	
Entries	17480
Mean	778.6
Std Dev	302.9



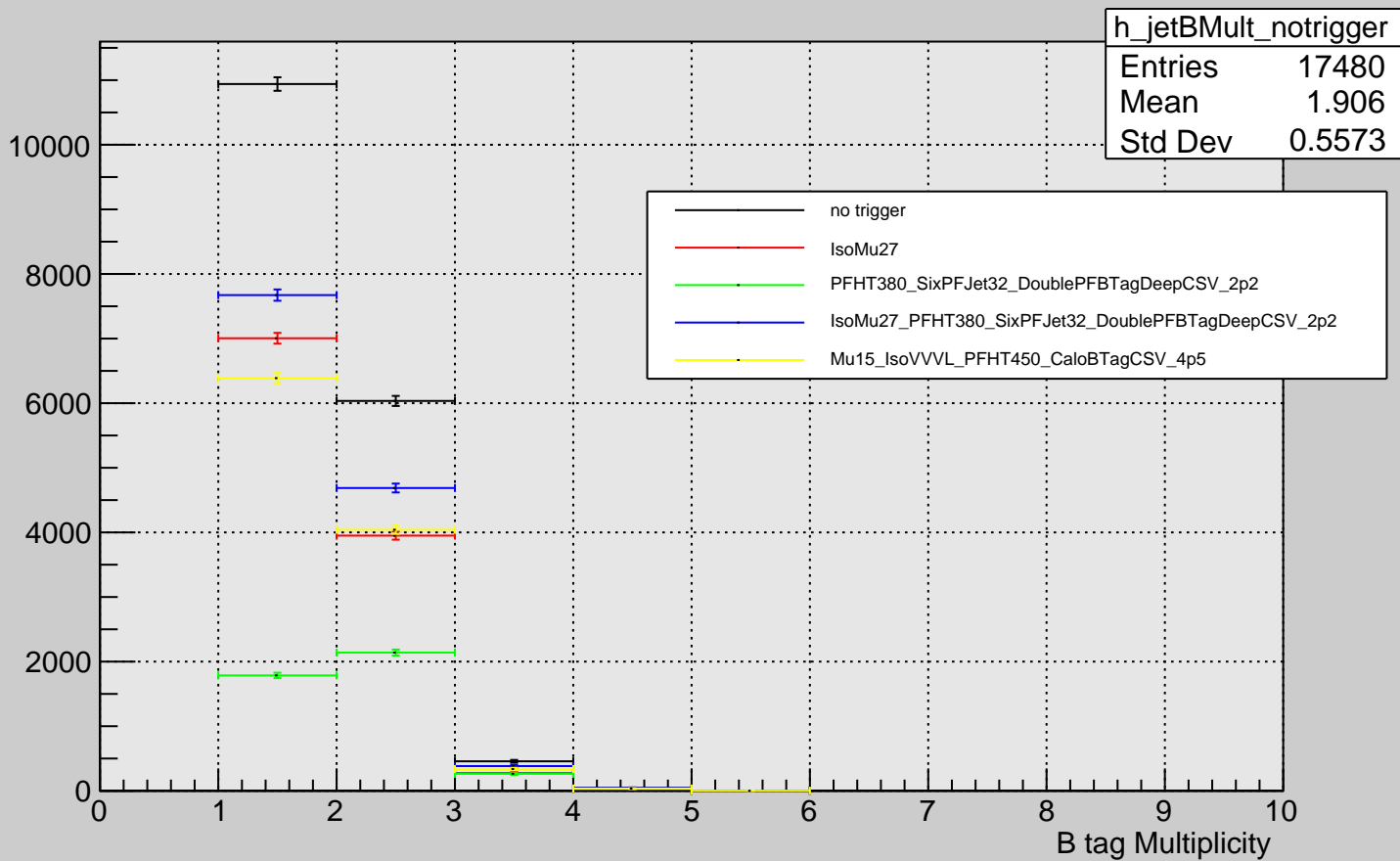


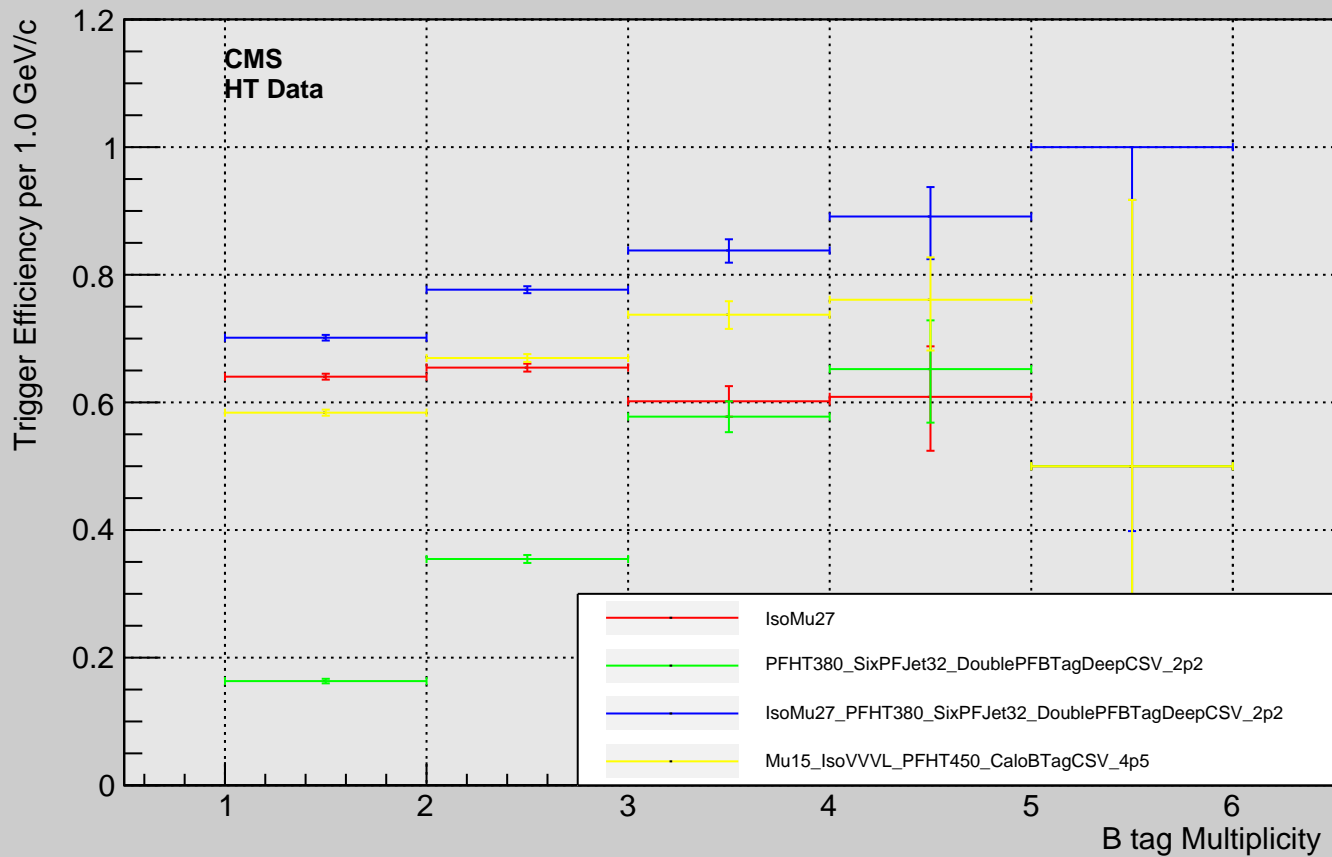
Number of Events per Number of Jets





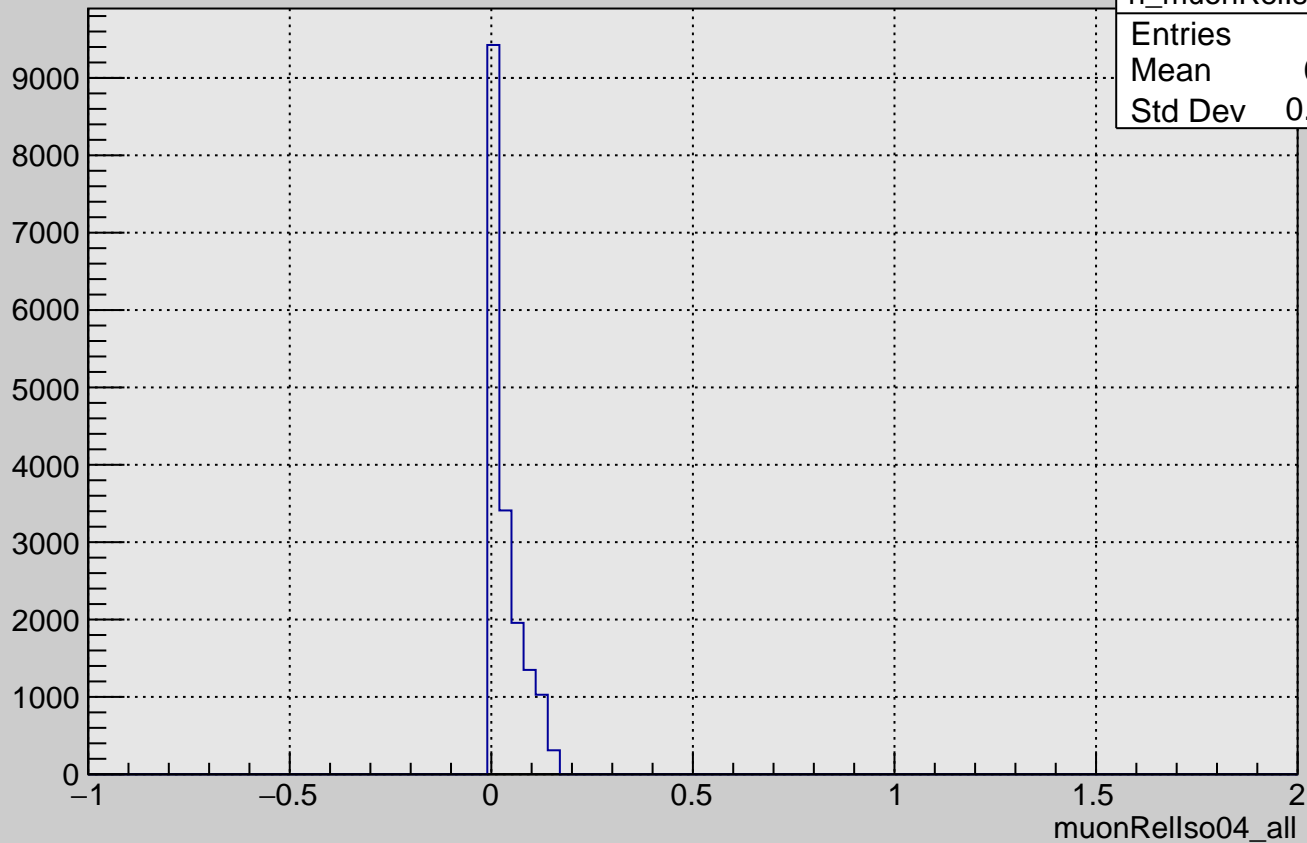
Number of Events per Number of Jets







Number of Events



Number of Events per 1 GeV/c

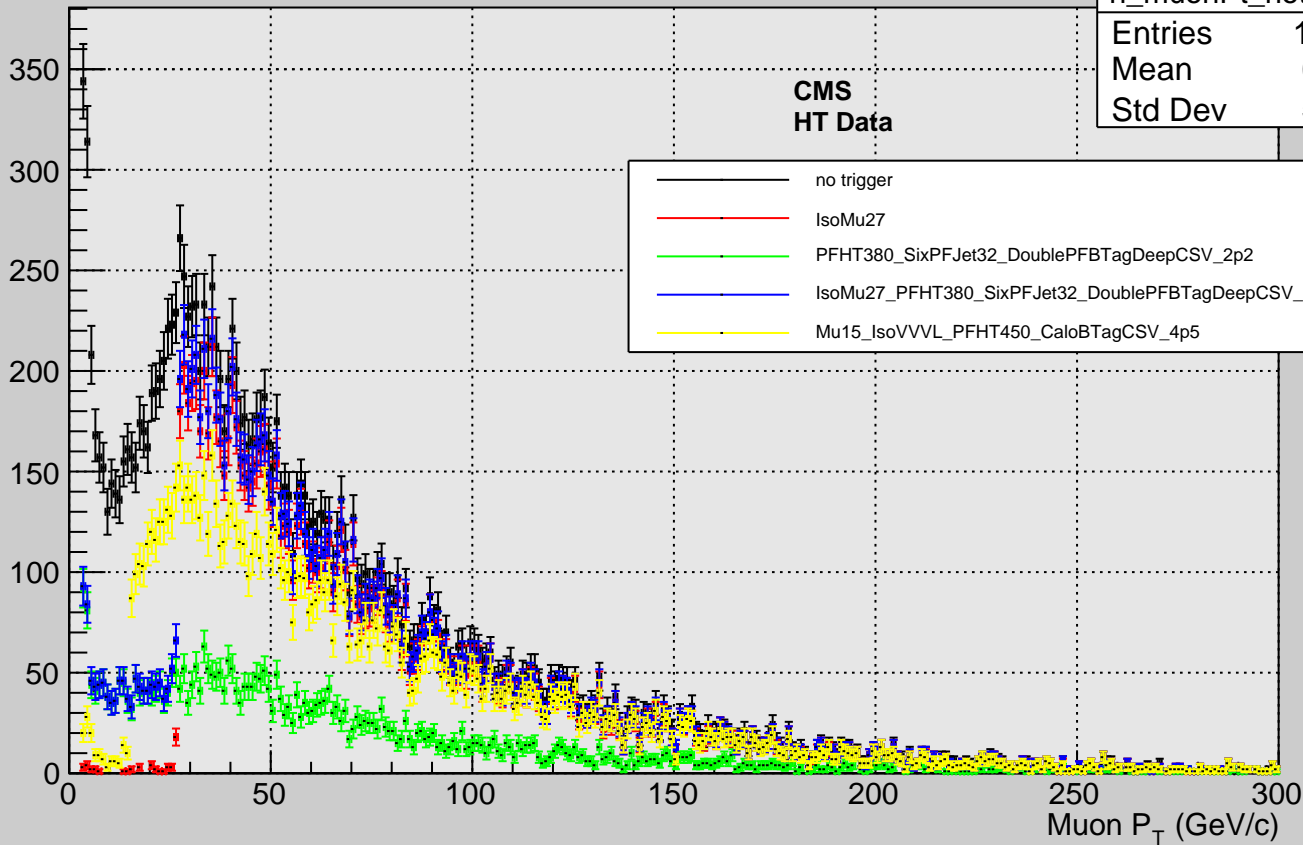
**CMS**  
**HT Data**

h\_muonPt\_notrigger

Entries 17480

Mean 61.89

Std Dev 50.79



Number of Events per 1 GeV/c

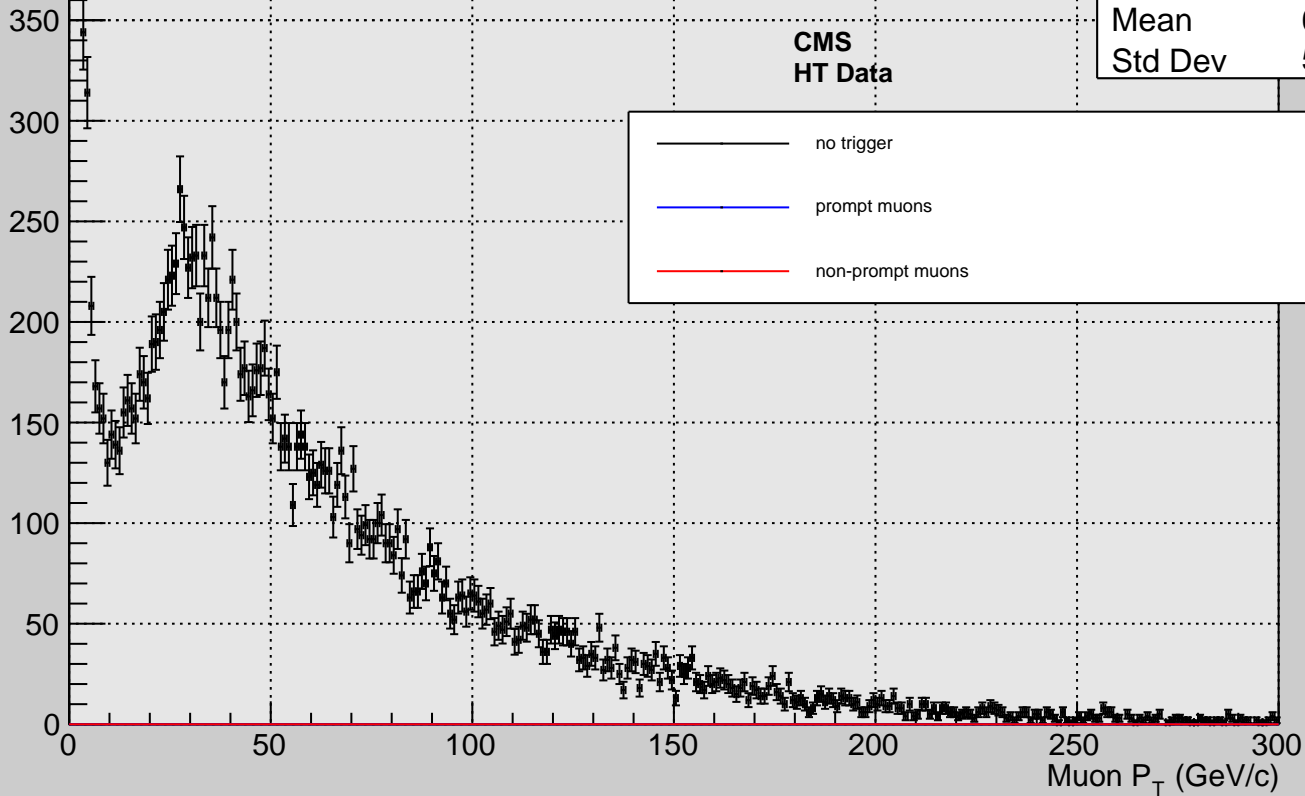
**CMS**  
**HT Data**

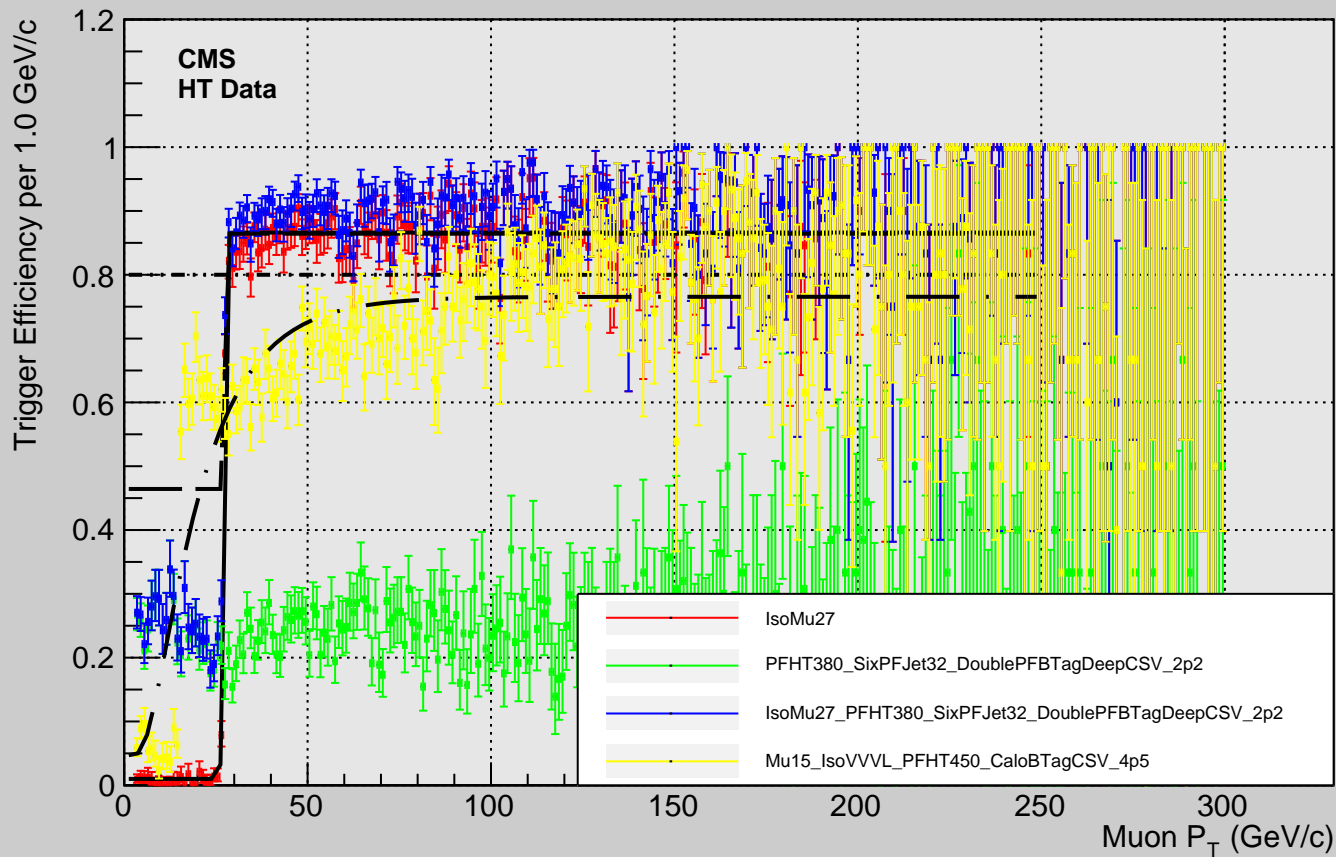
h\_muonPt\_notrigger

Entries 17480

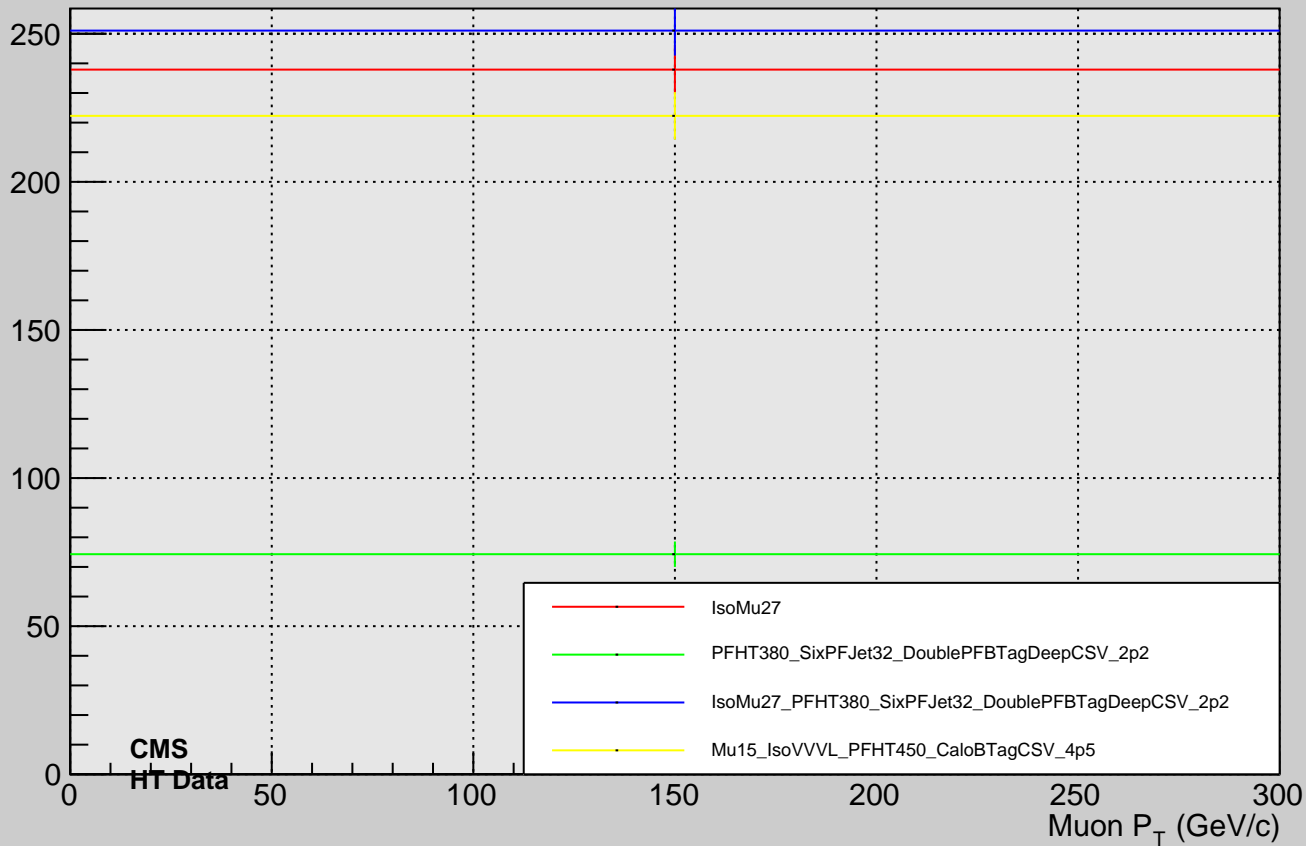
Mean 61.89

Std Dev 50.79

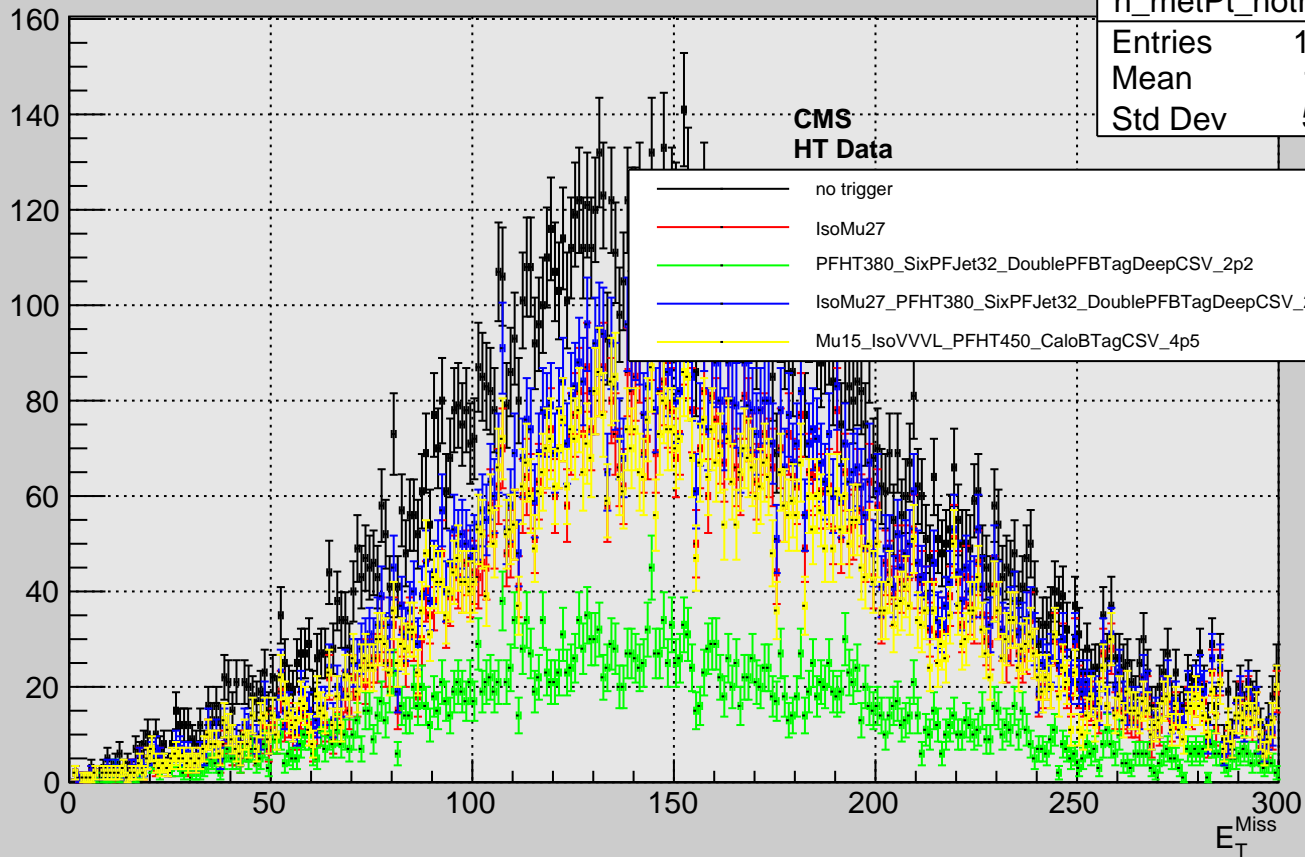




Trigger Efficiency per 1.00 GeV/c



Number of Events per 1 GeV/c

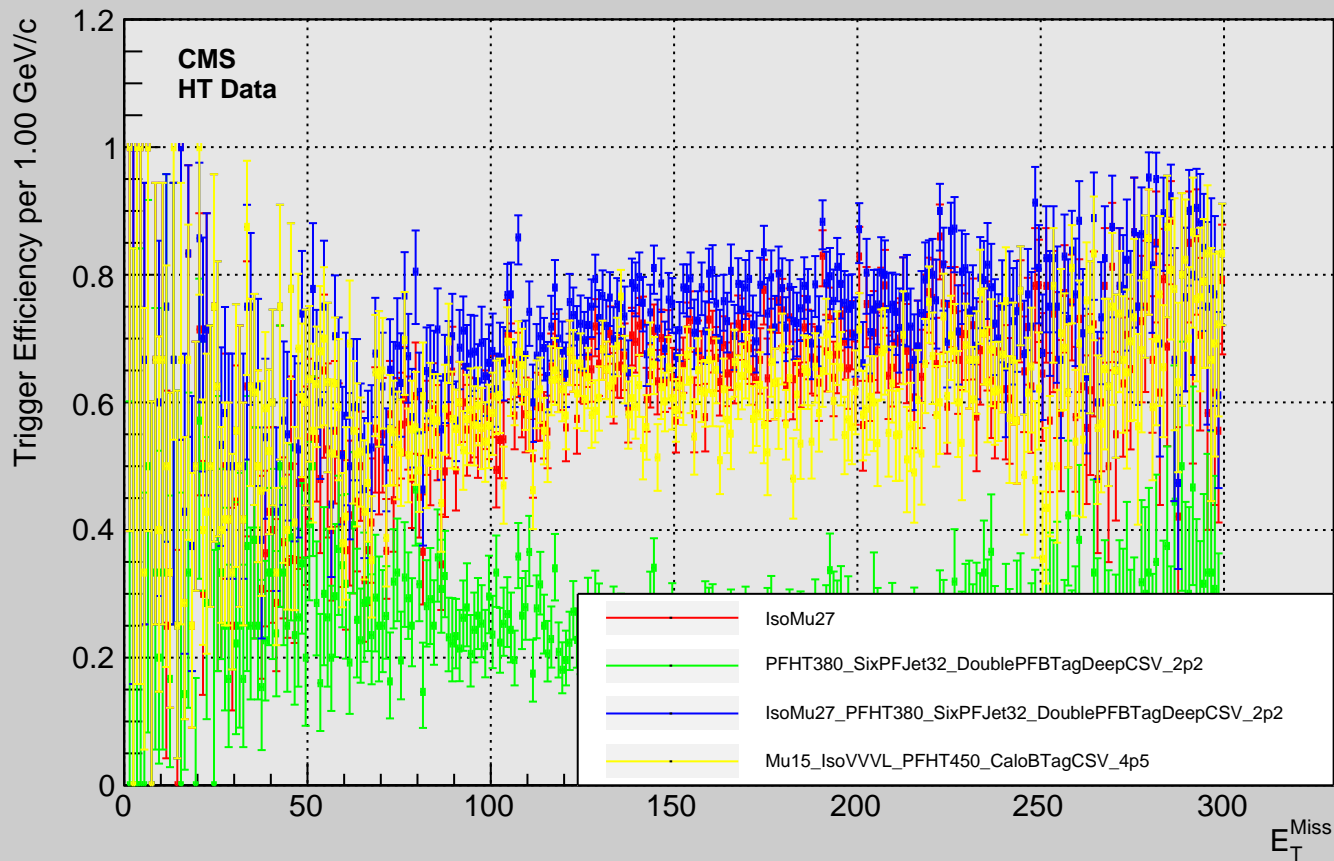


h\_metPt\_notrigger

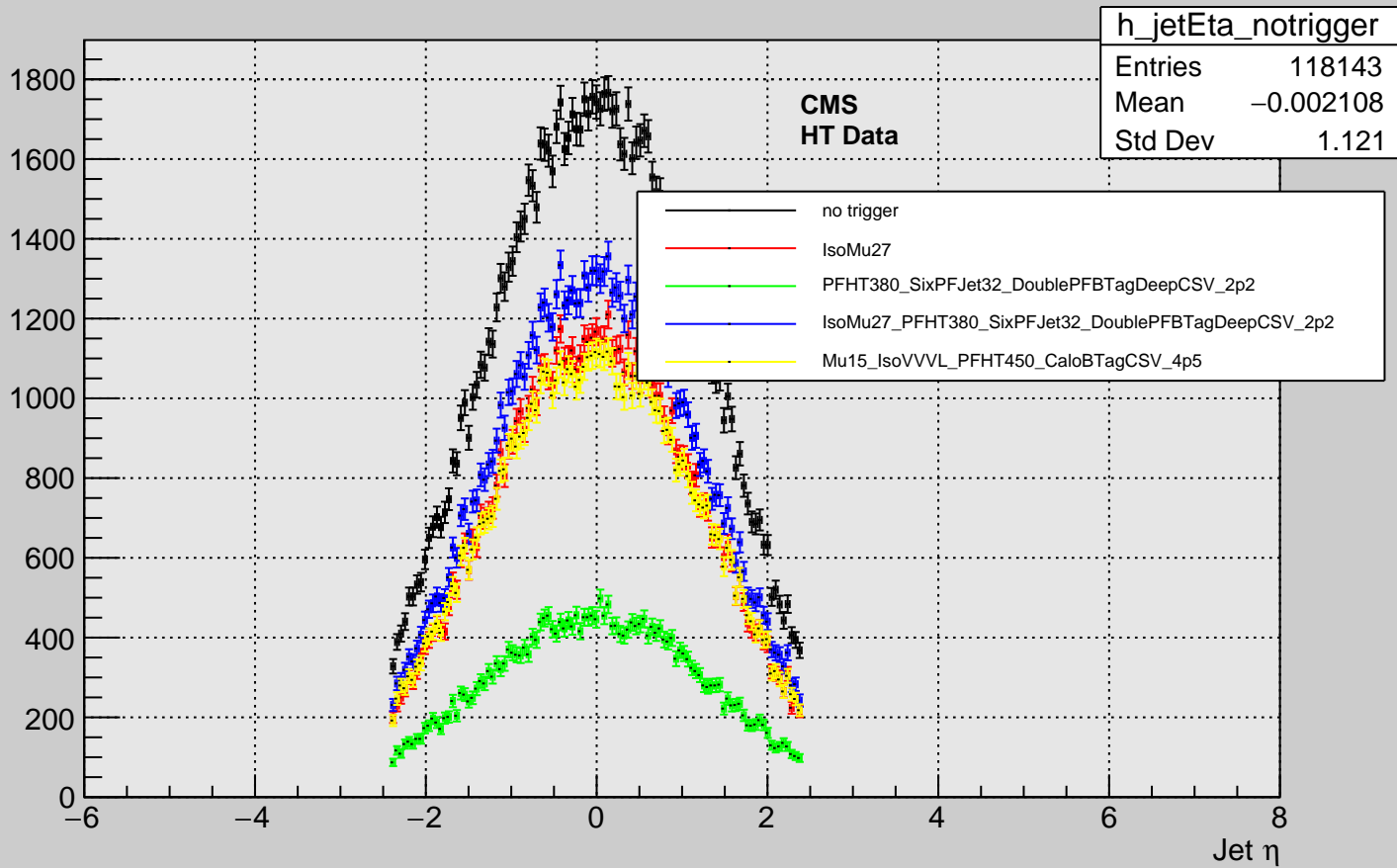
Entries 17480

Mean 154.9

Std Dev 57.65

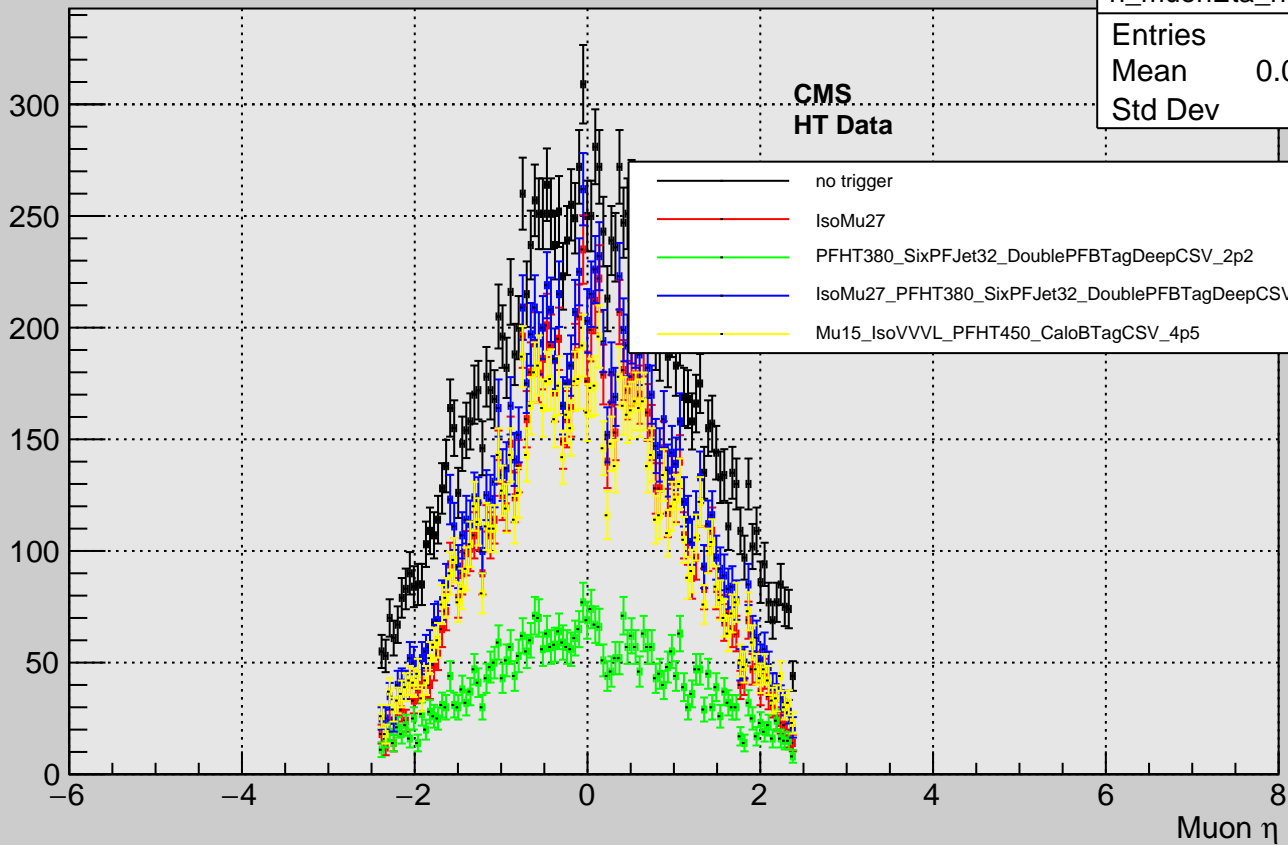


Number of Events per  $\delta\eta = 0.046$





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

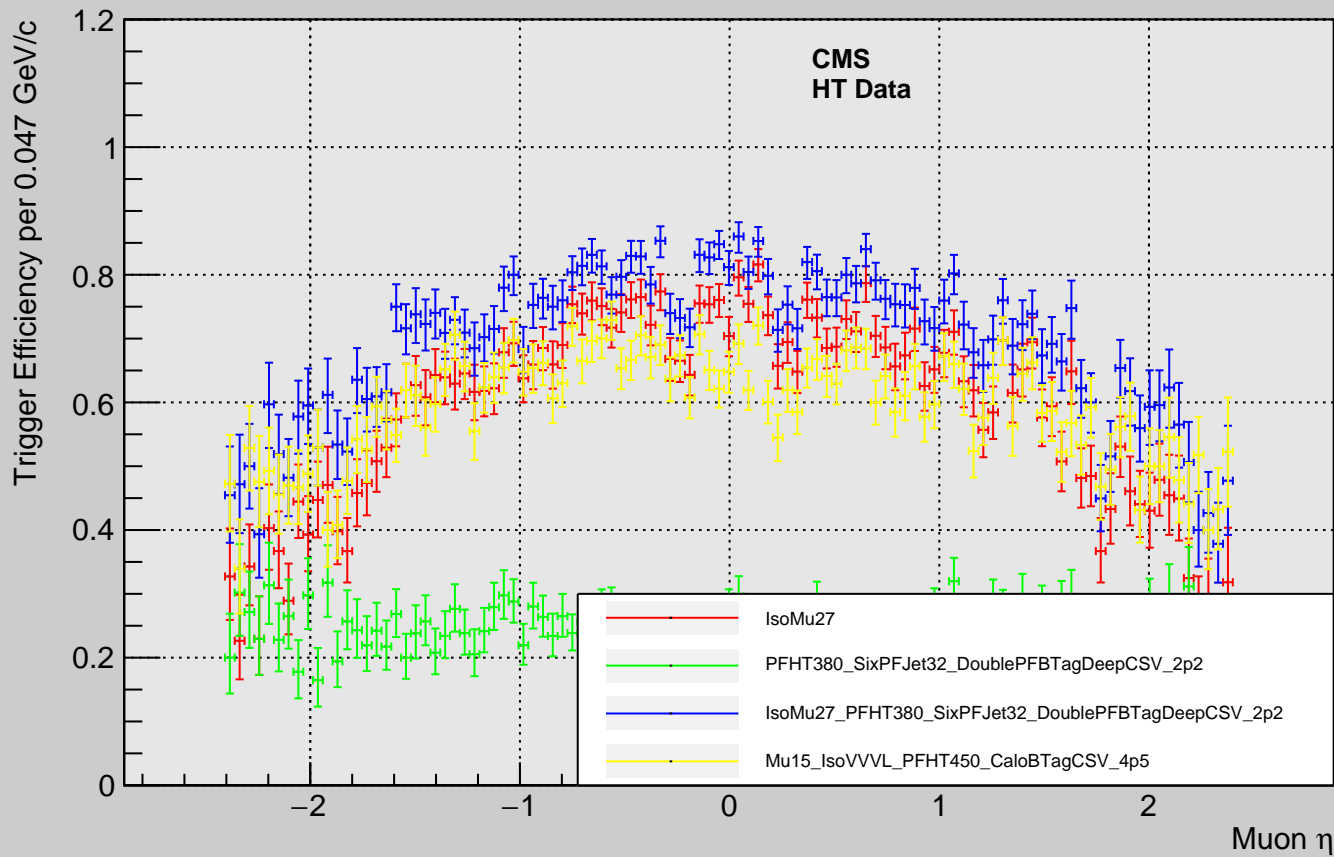


h\_muonEta\_notrigger

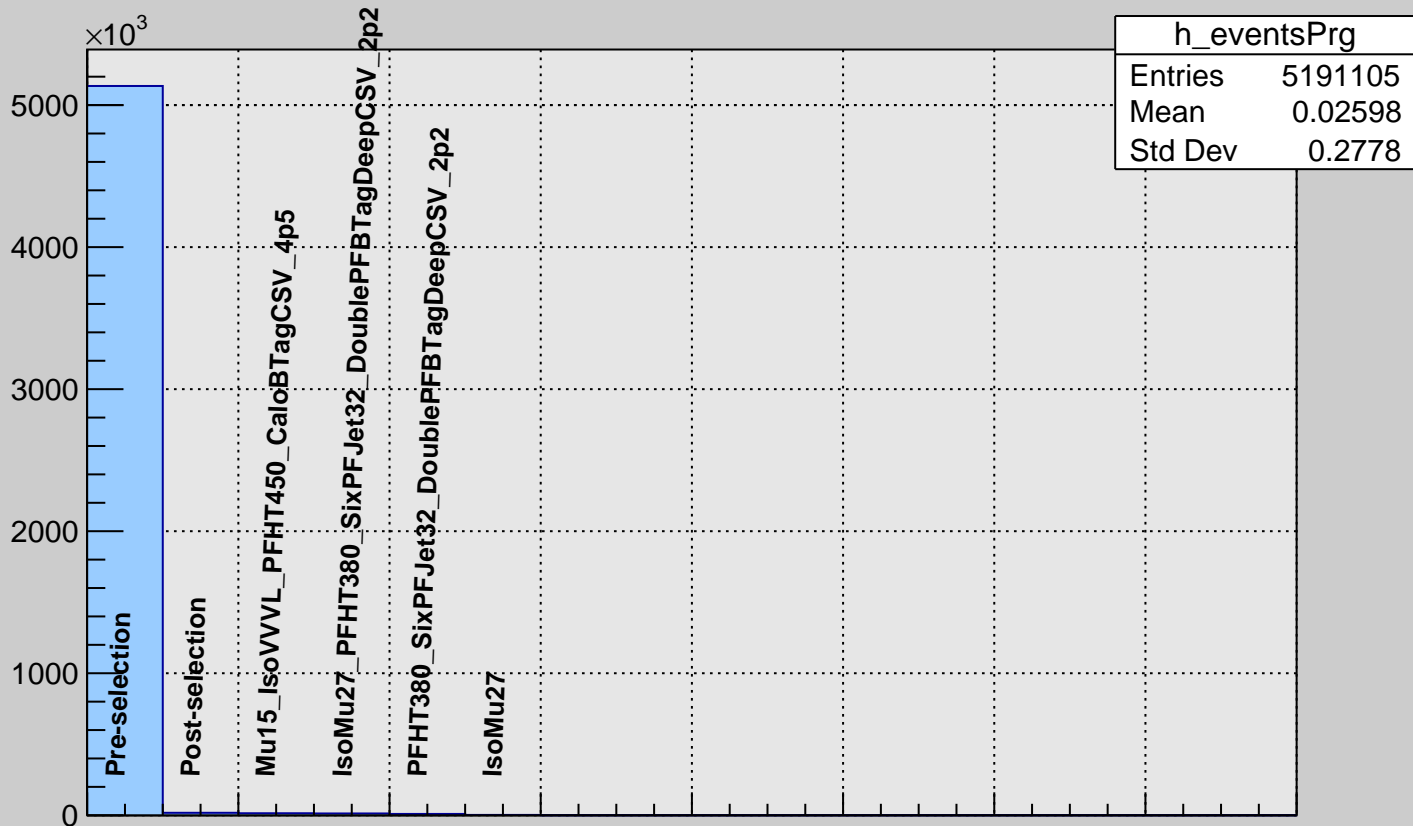
Entries 17480

Mean 0.002572

Std Dev 1.129



Total Number of Accepted Events



Cuts and Triggers