

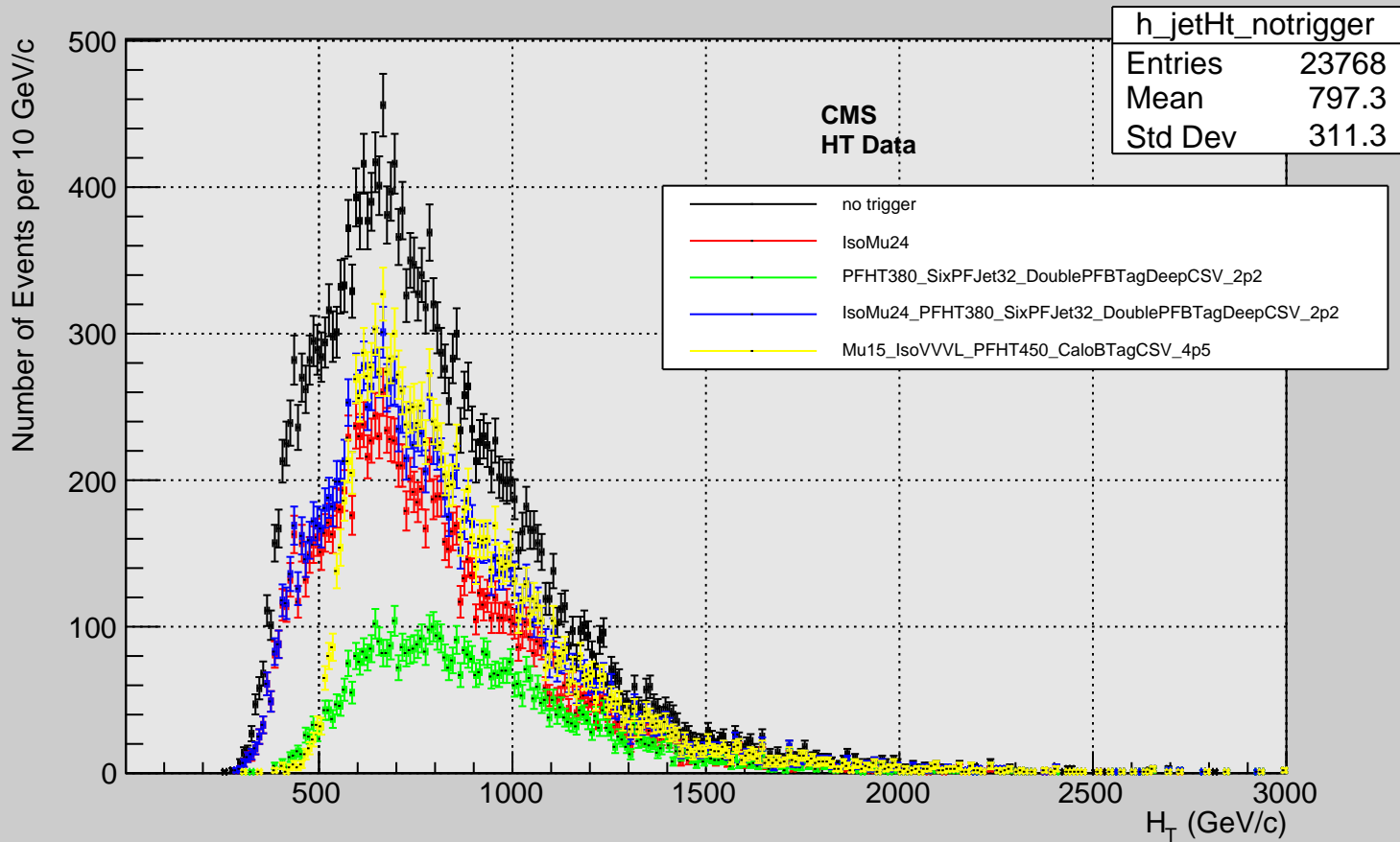
### On-line (pre-)selection Requisites for:

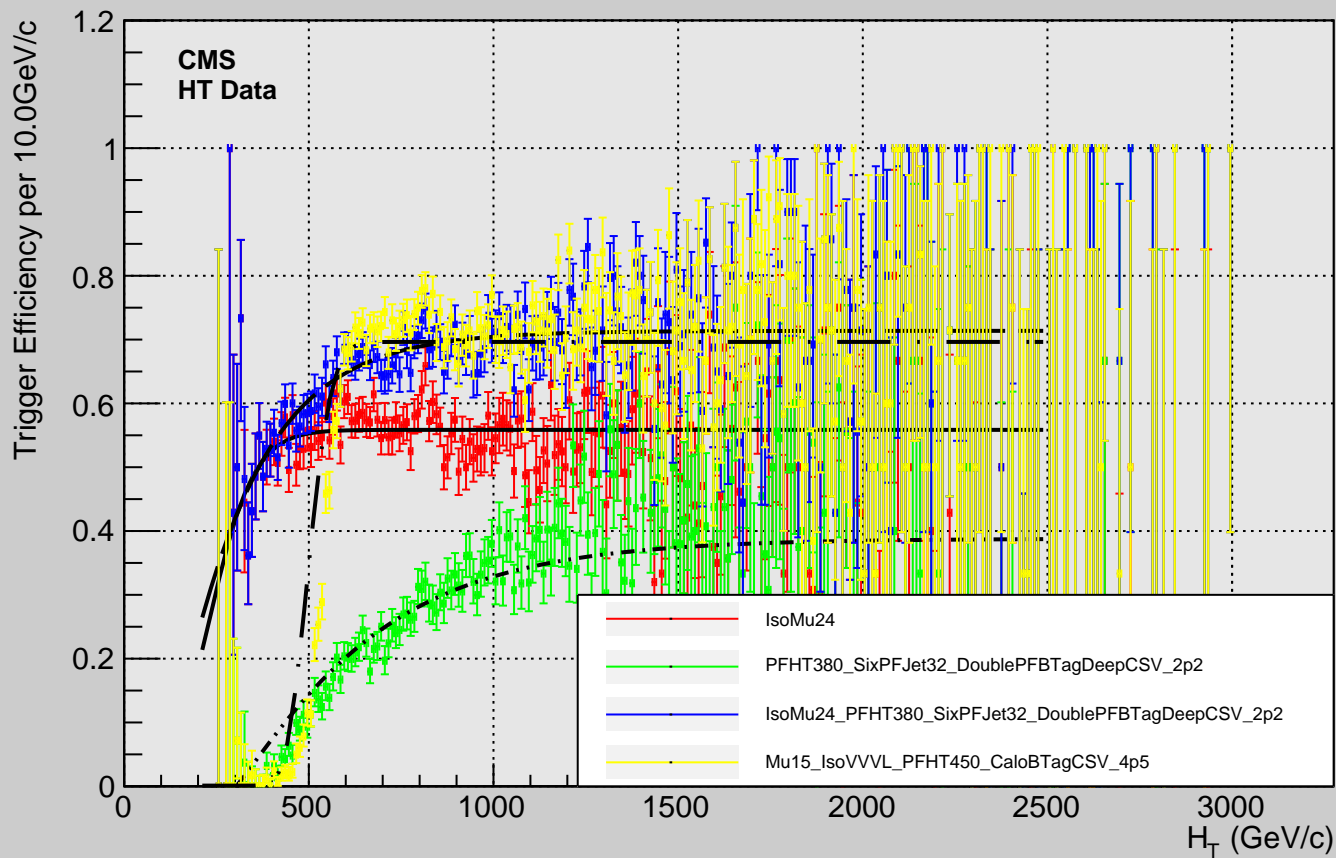
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

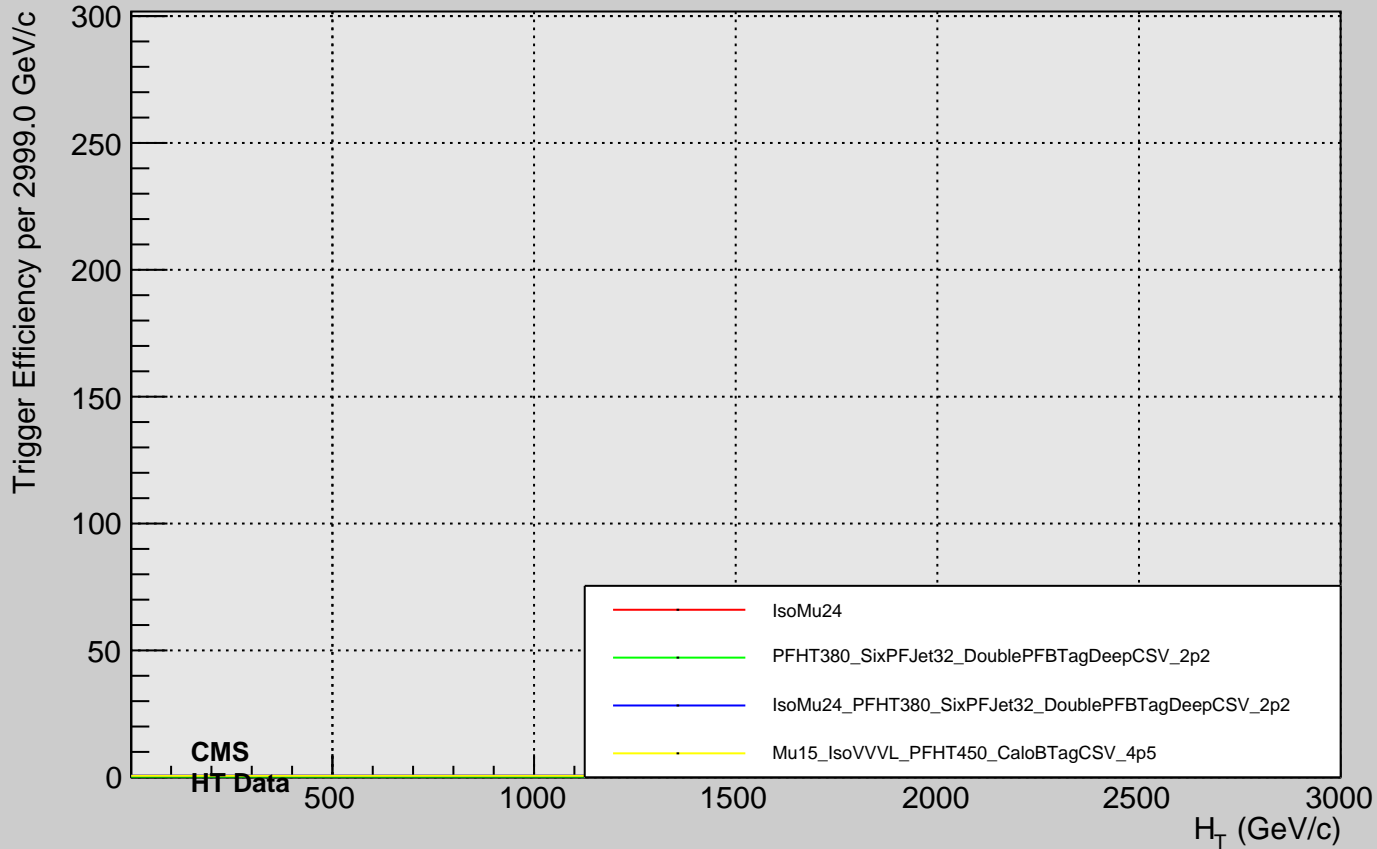
**Event Limit:** None (see last page)

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

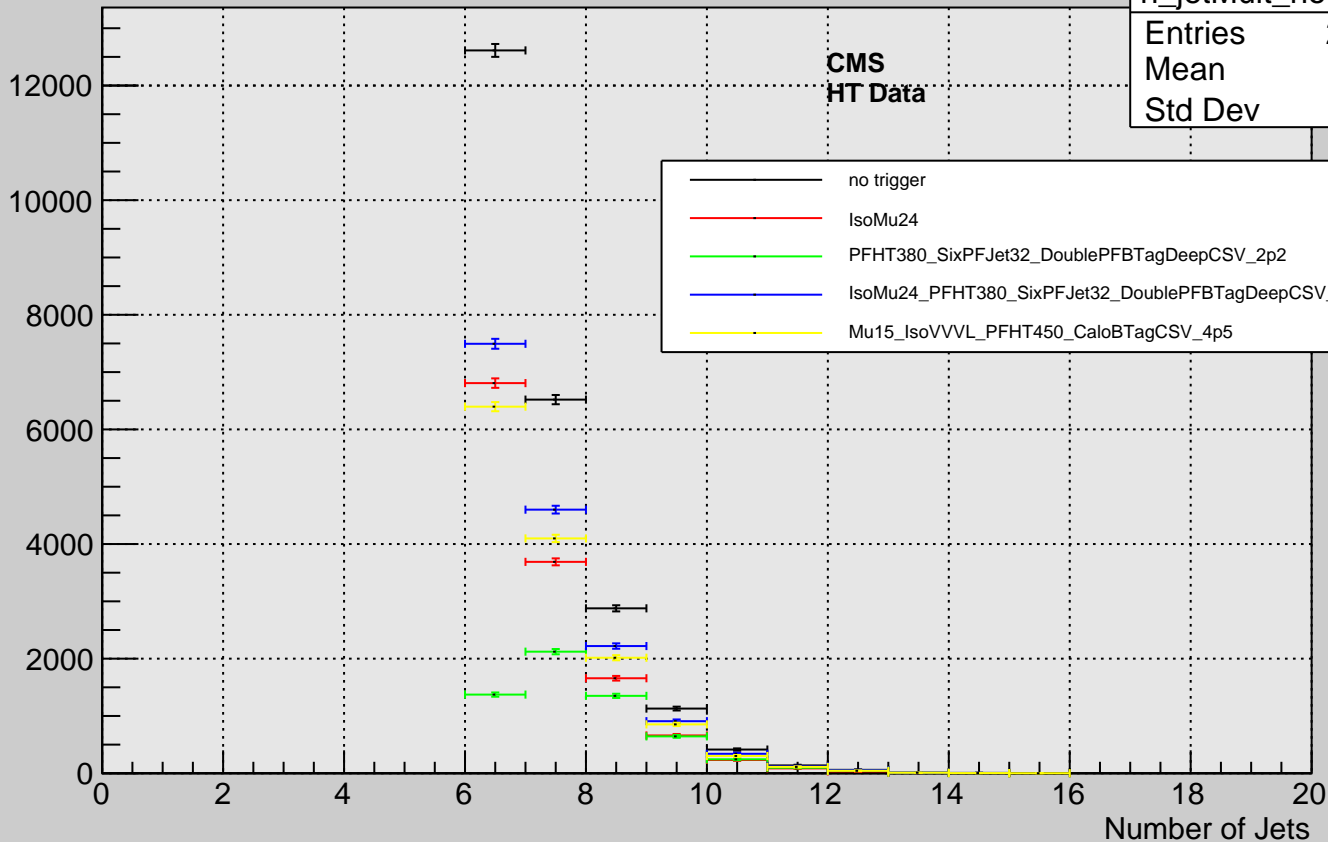
- **Jets:**  $\text{jetId} > 2$  ,  $p_{\text{T}} > 30$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{miniPFRellso\_all} < 0.15$  (for at least 1)



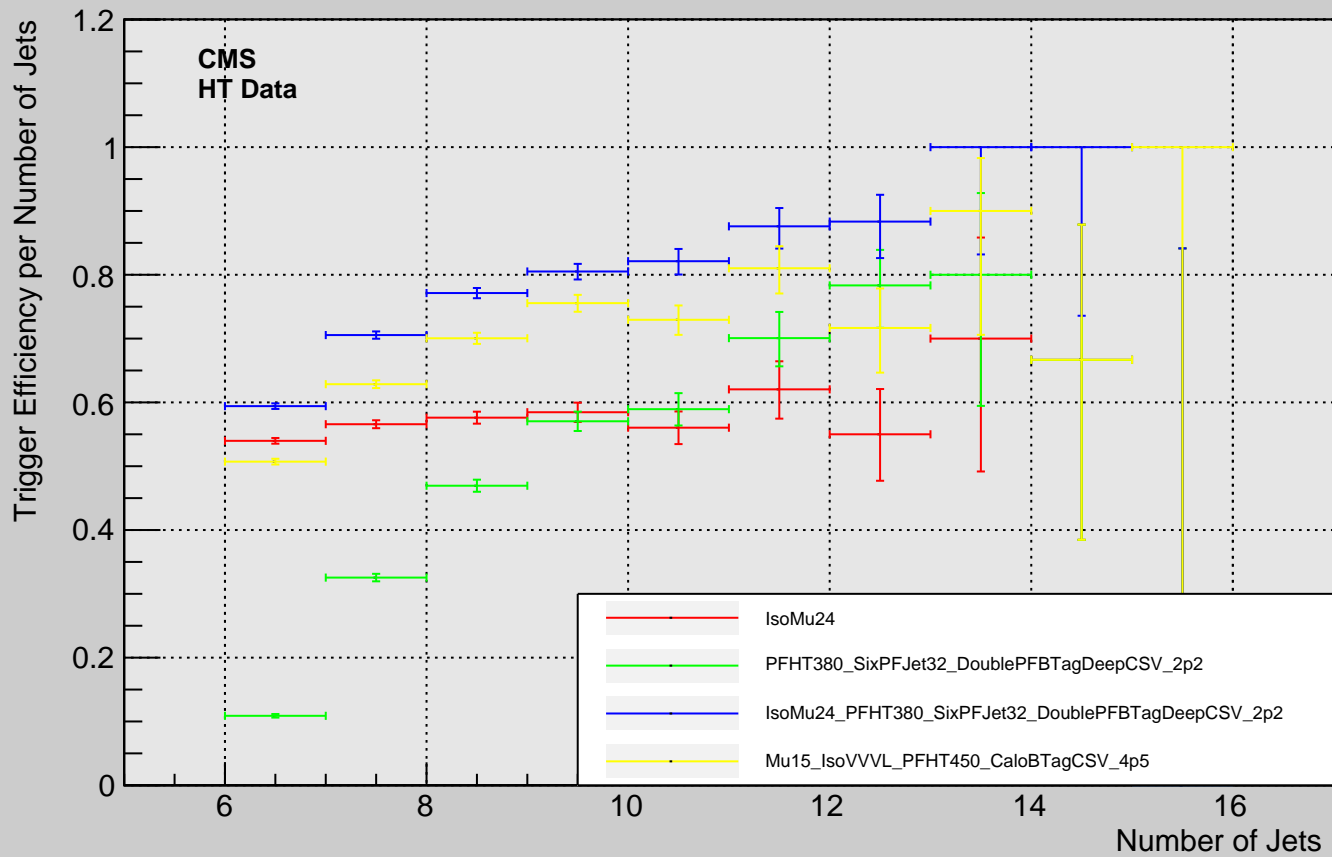




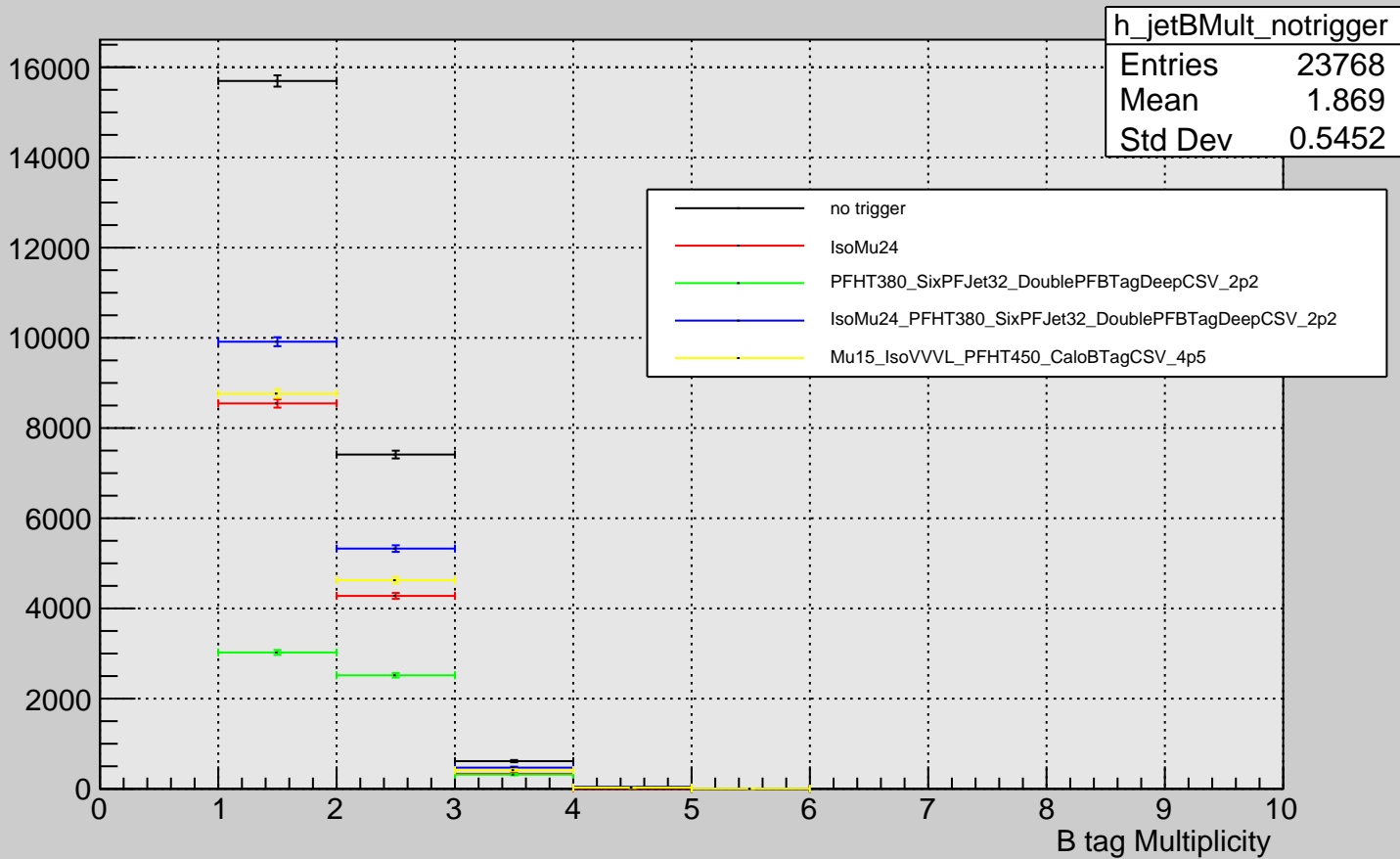
Number of Events per Number of Jets

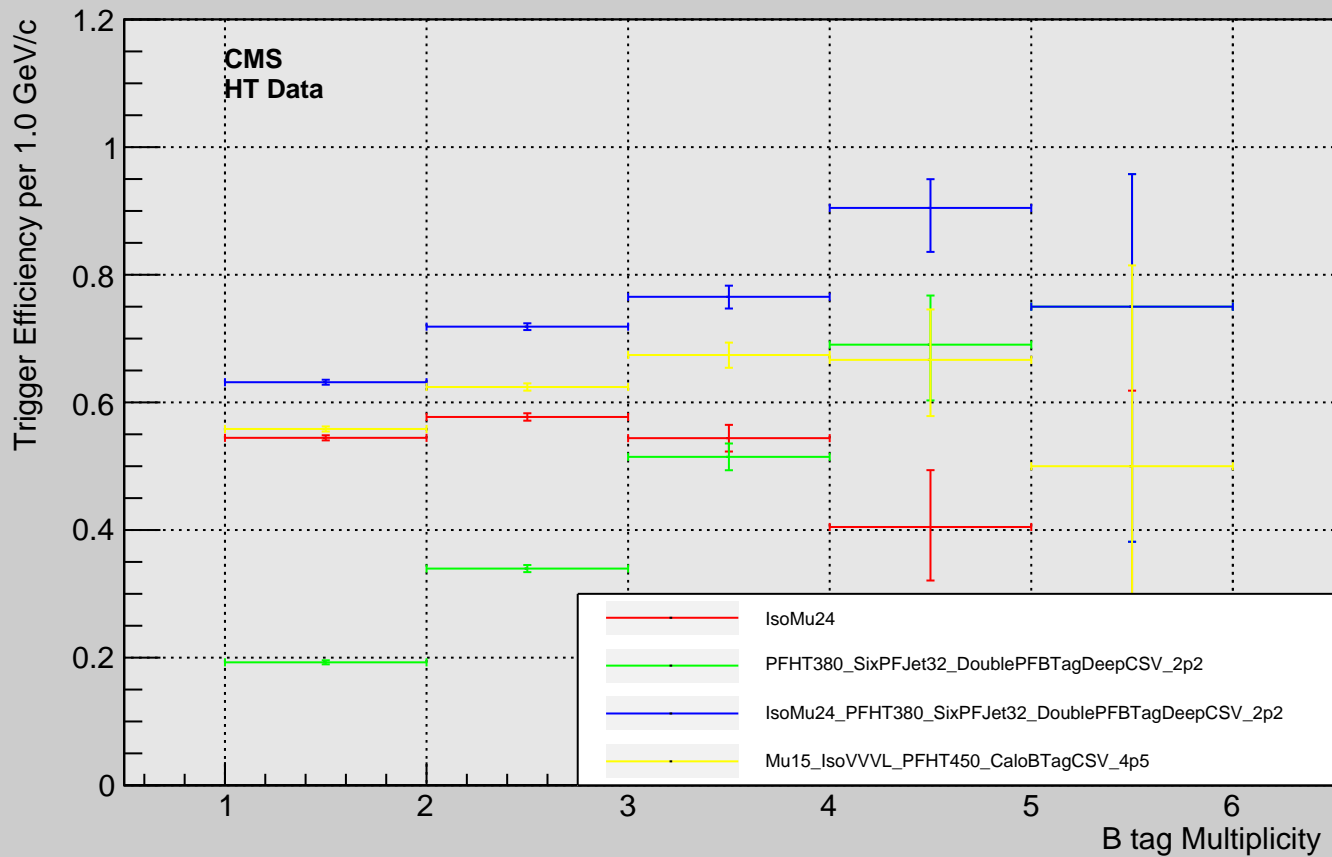


h_jetMult_notrigger	
Entries	23768
Mean	6.778
Std Dev	1.065



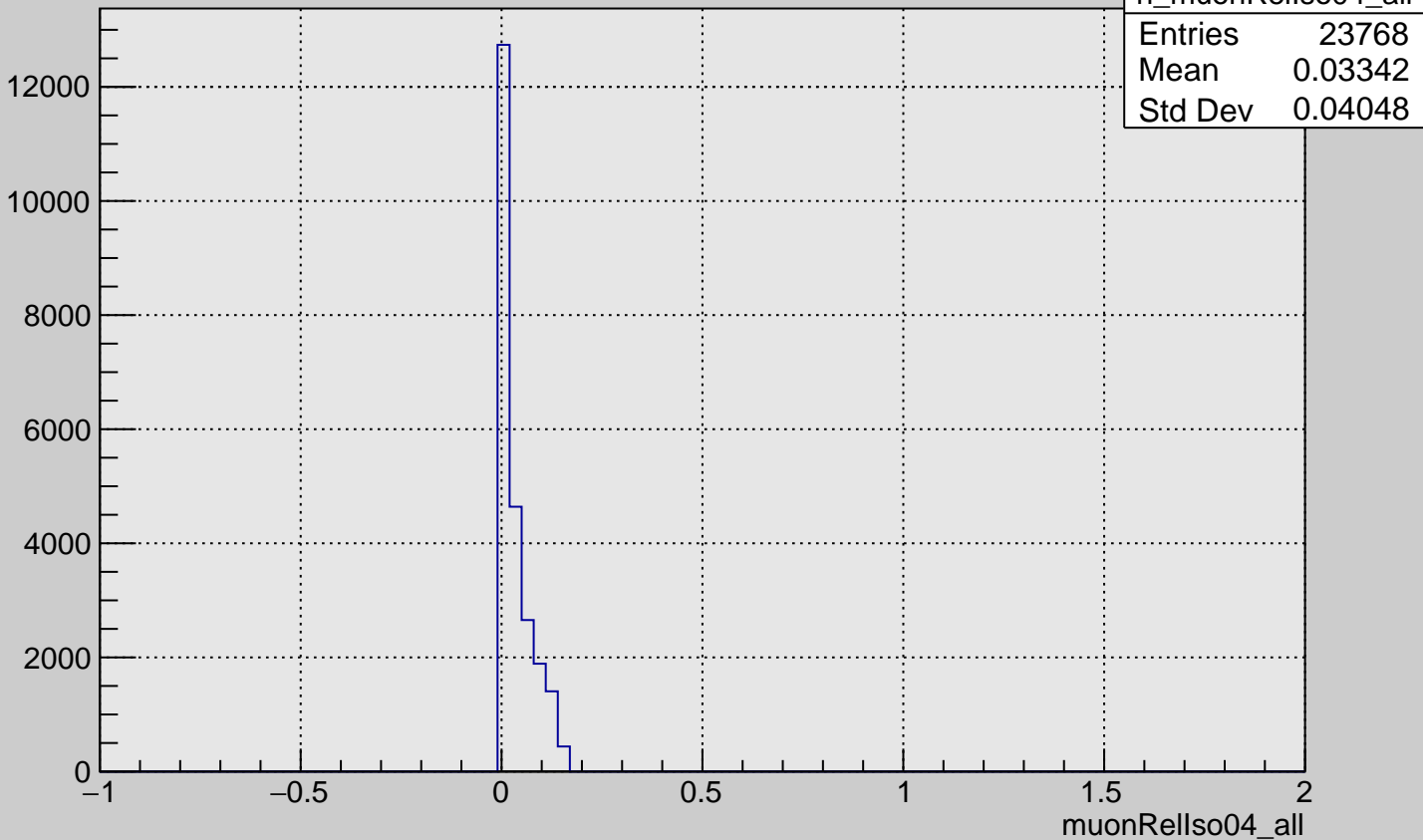
Number of Events per Number of Jets







Number of Events



Number of Events per 1 GeV/c

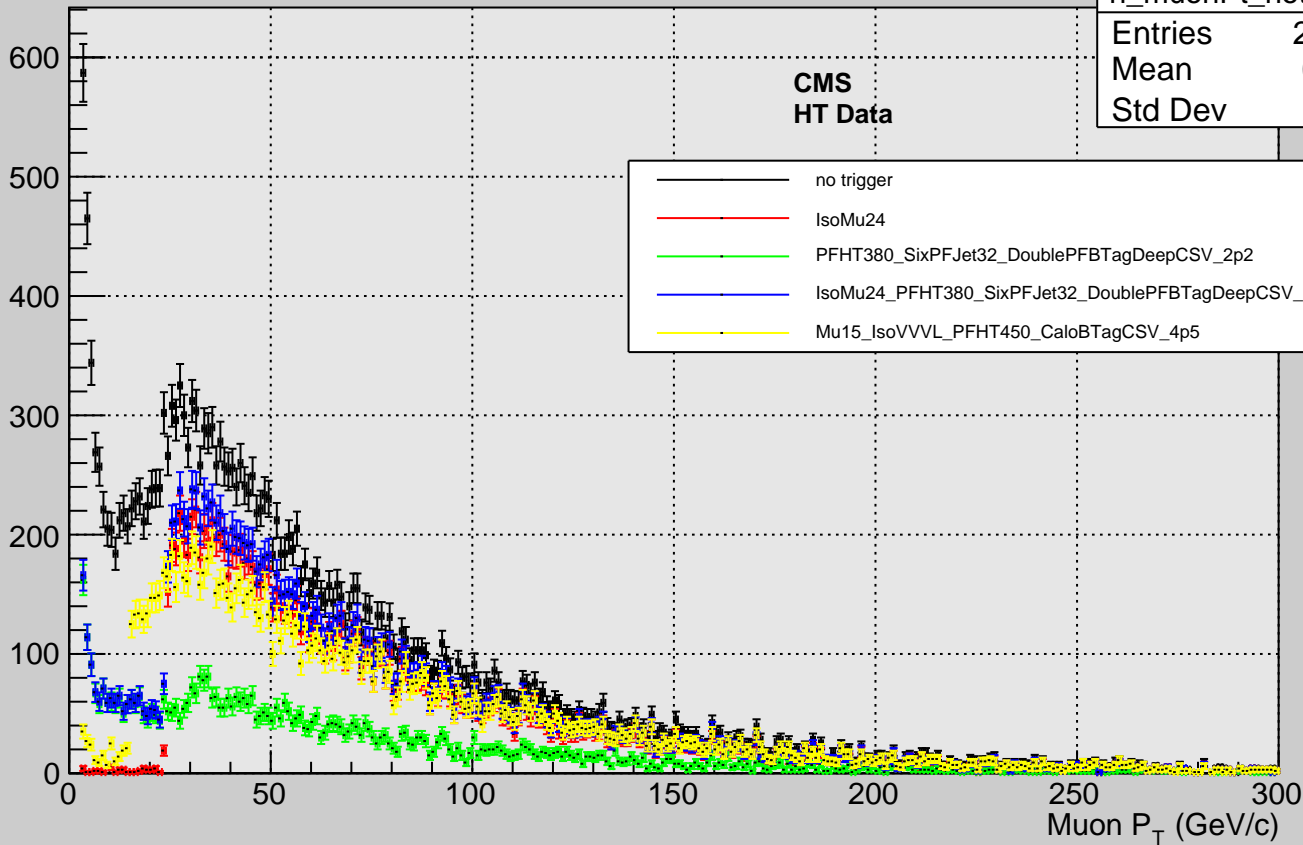
**CMS**  
**HT Data**

h\_muonPt\_notrigger

Entries 23768

Mean 62.78

Std Dev 53.3



Number of Events per 1 GeV/c

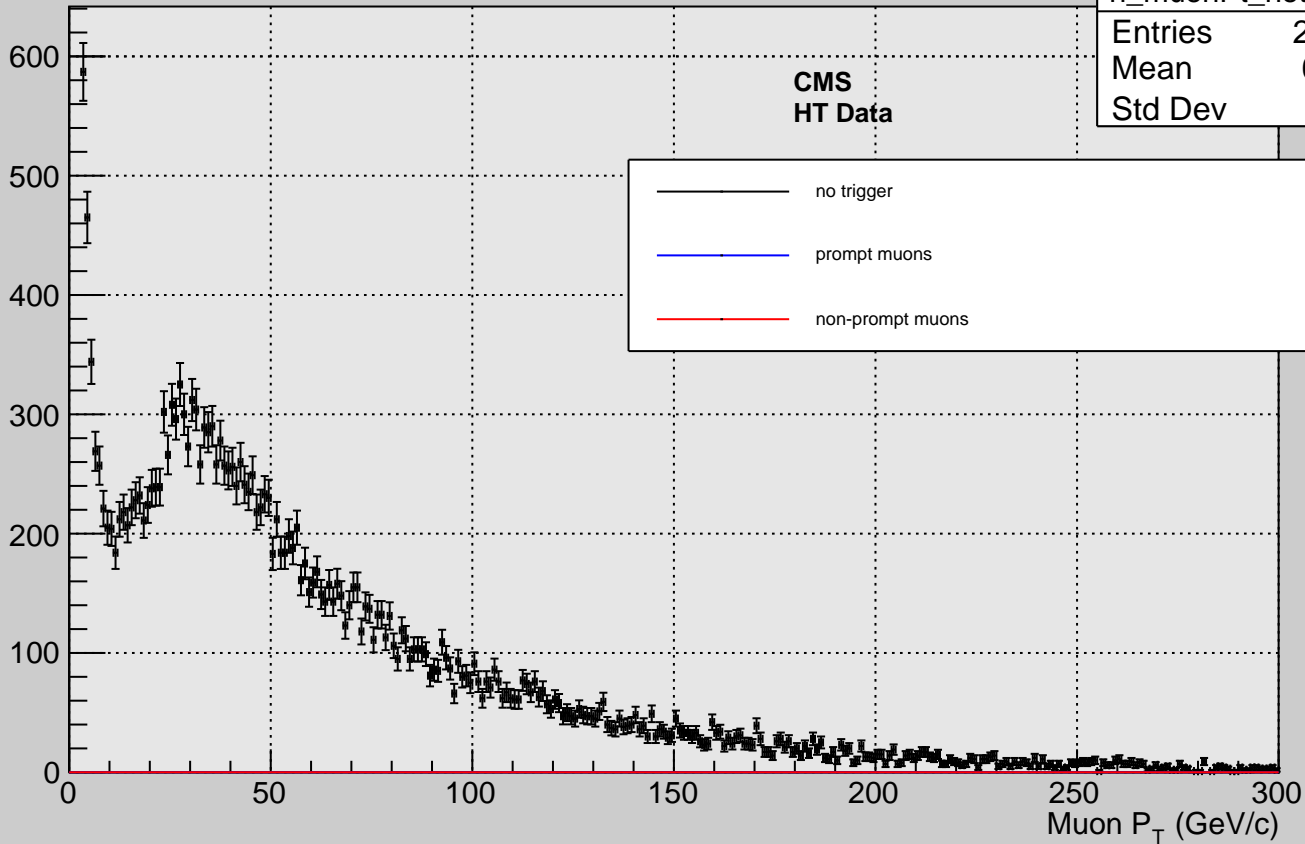
**CMS**  
**HT Data**

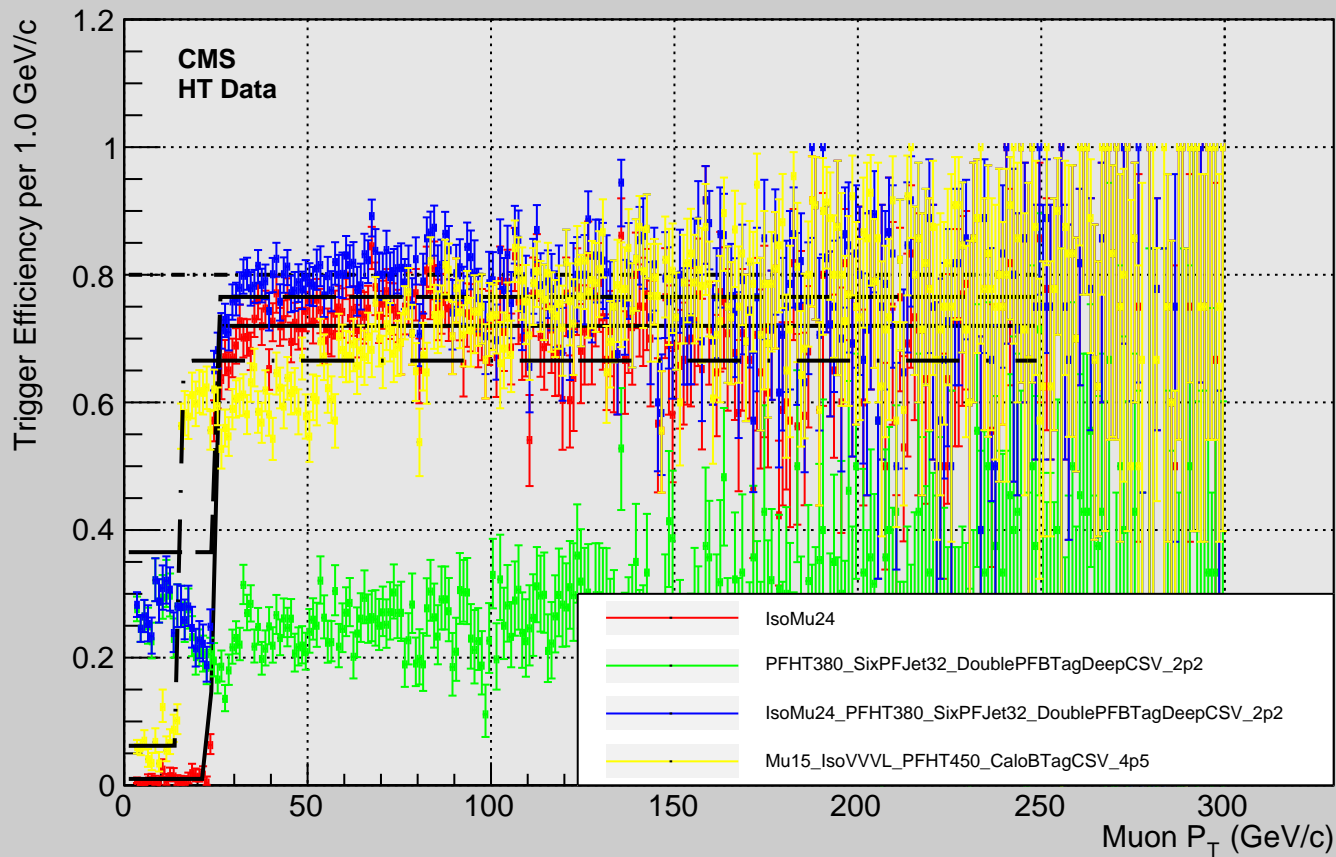
h\_muonPt\_notrigger

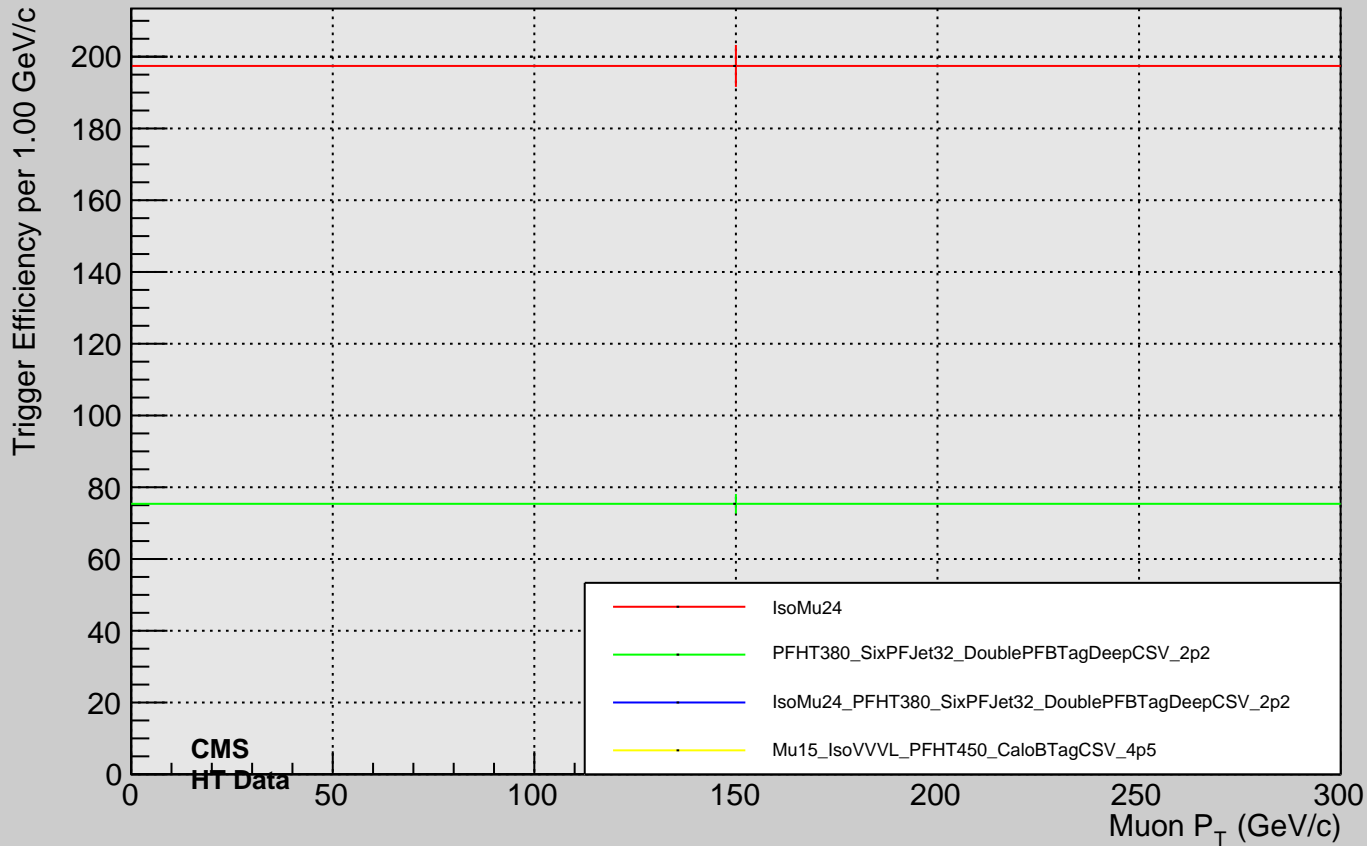
Entries 23768

Mean 62.78

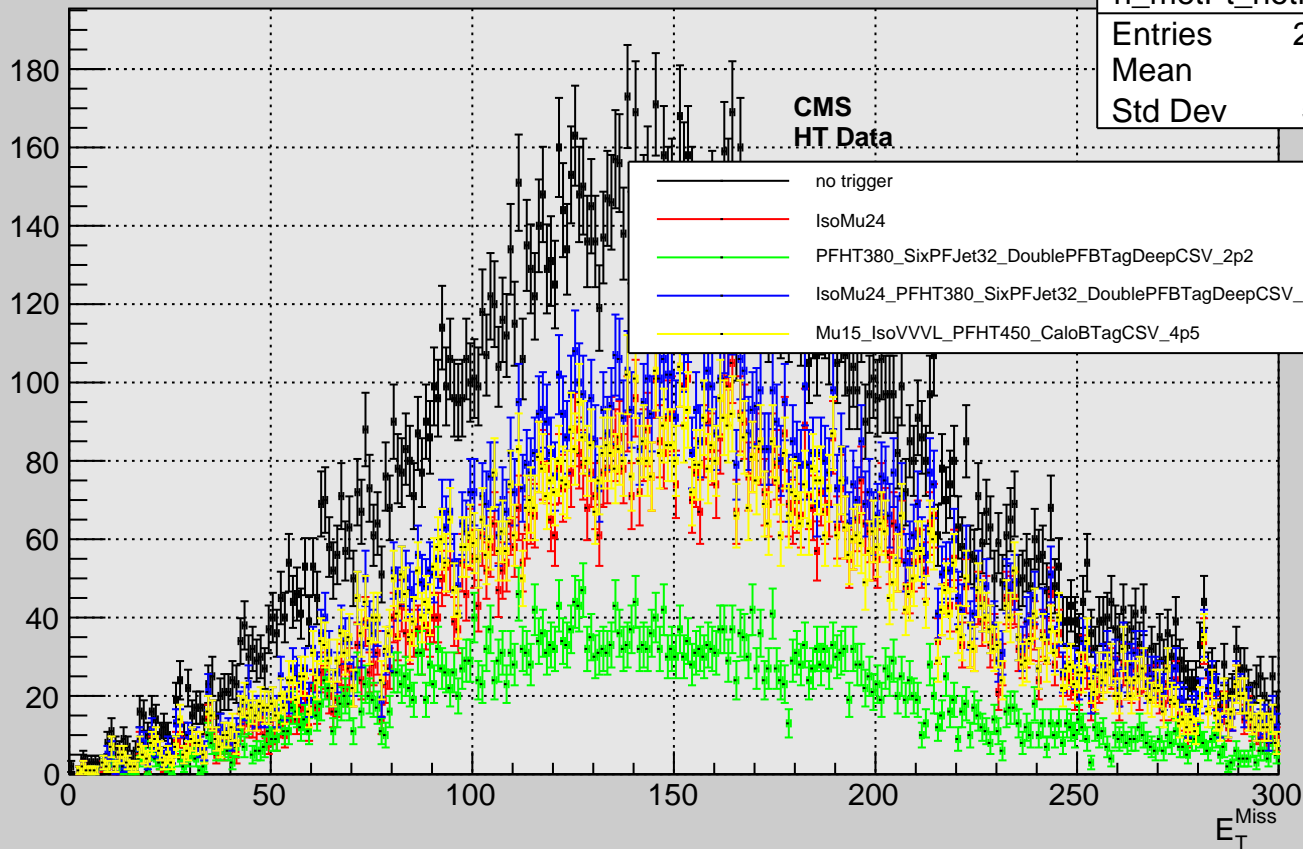
Std Dev 53.3







Number of Events per 1 GeV/c

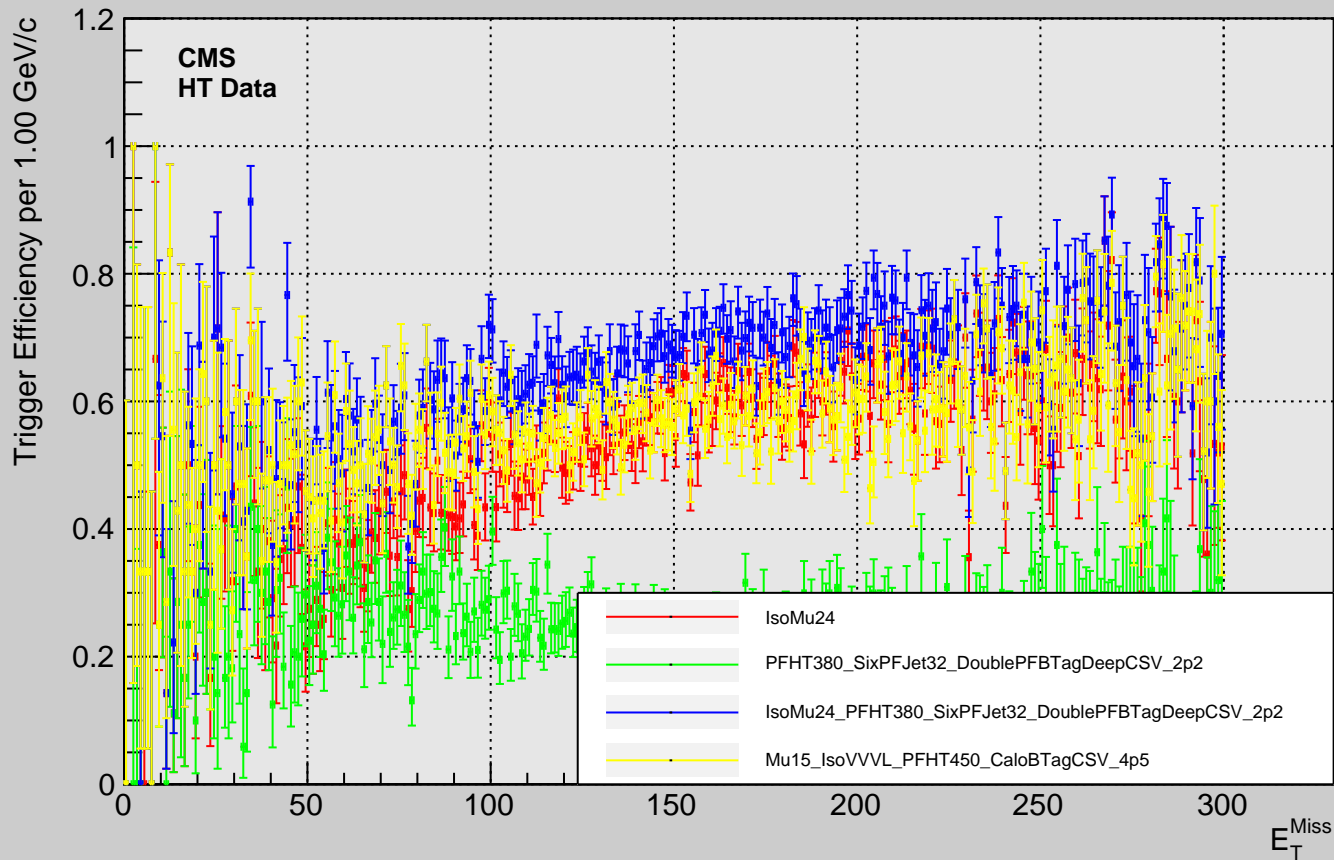


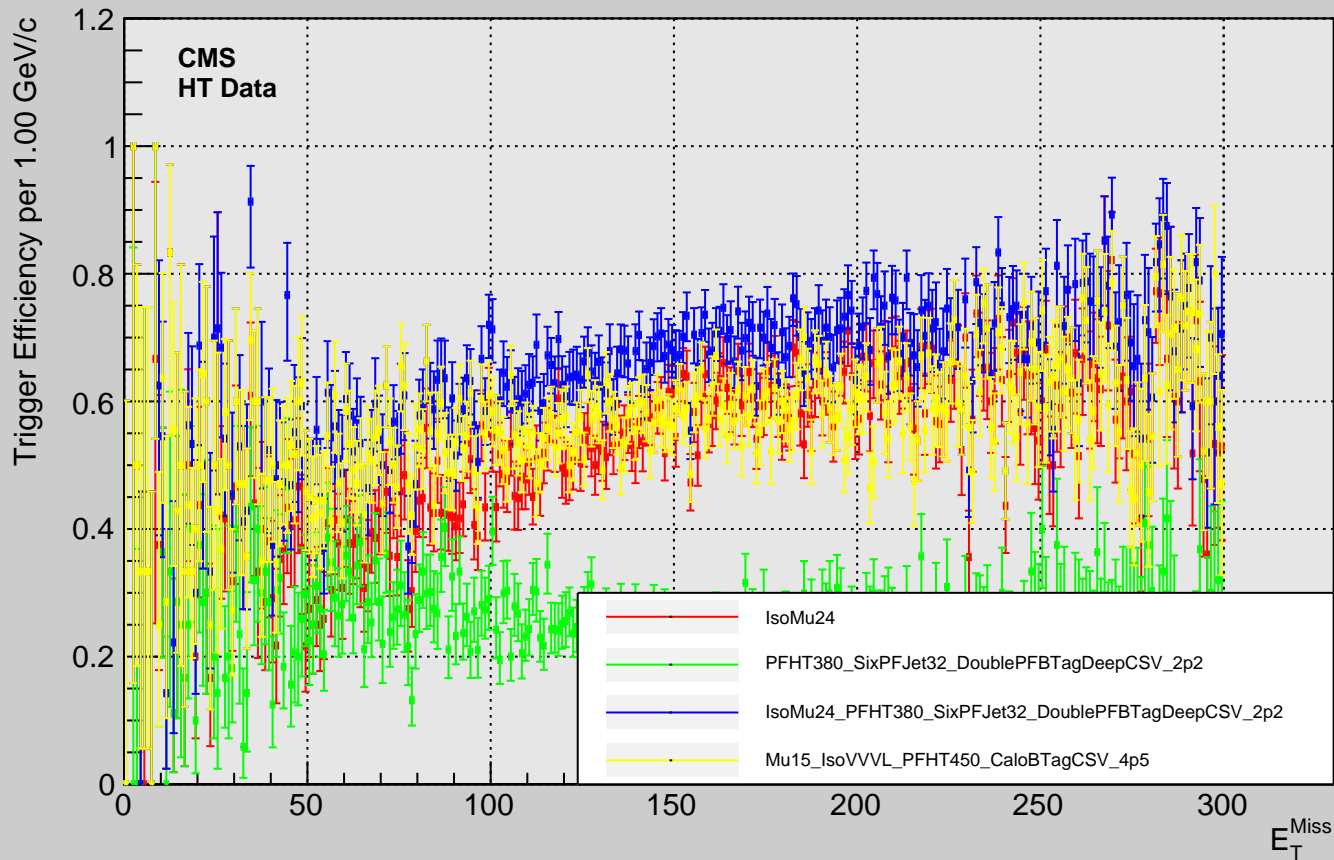
h\_metPt\_notrigger

Entries 23768

Mean 153.5

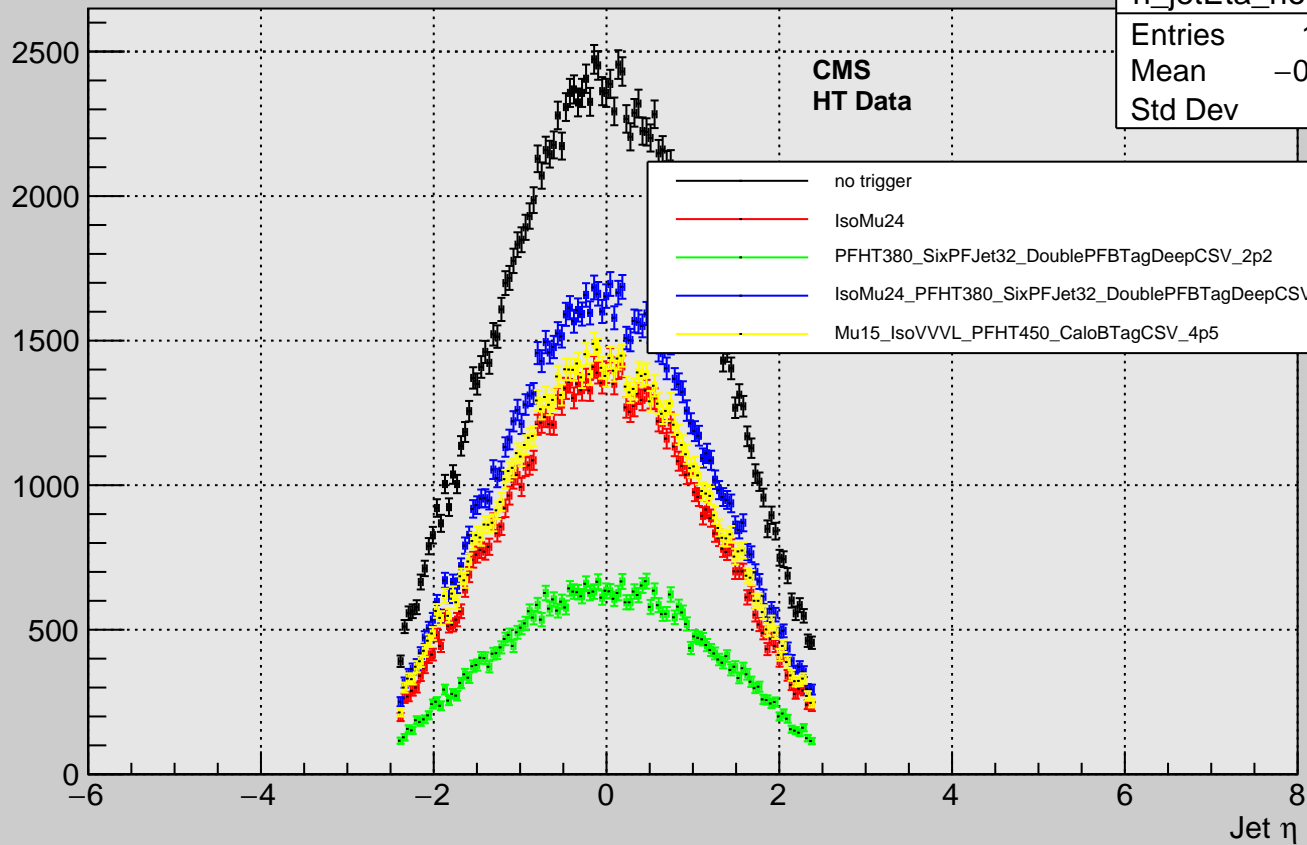
Std Dev 59.65





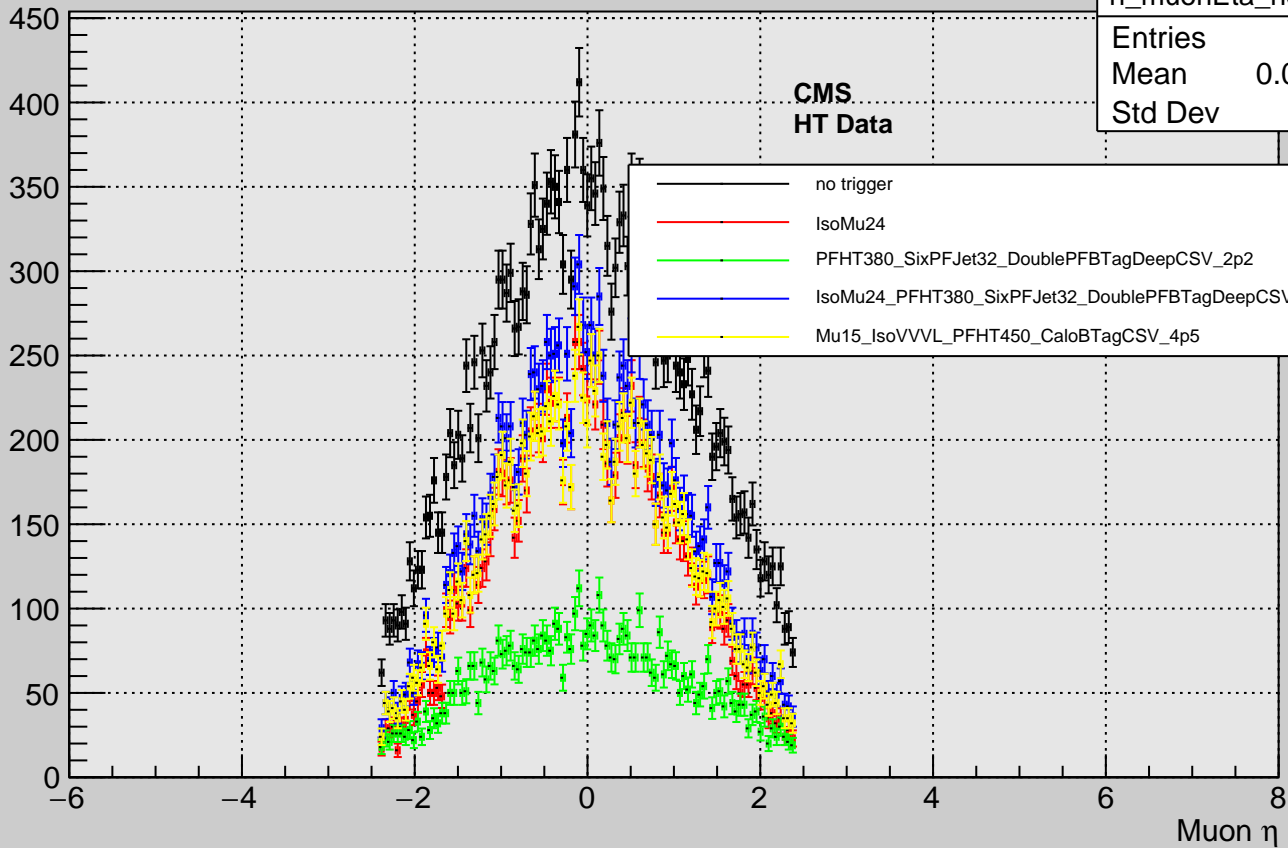


Number of Events per  $\delta\eta = 0.046$



h_jetEta_notrigger	
Entries	161099
Mean	-0.01278
Std Dev	1.112

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

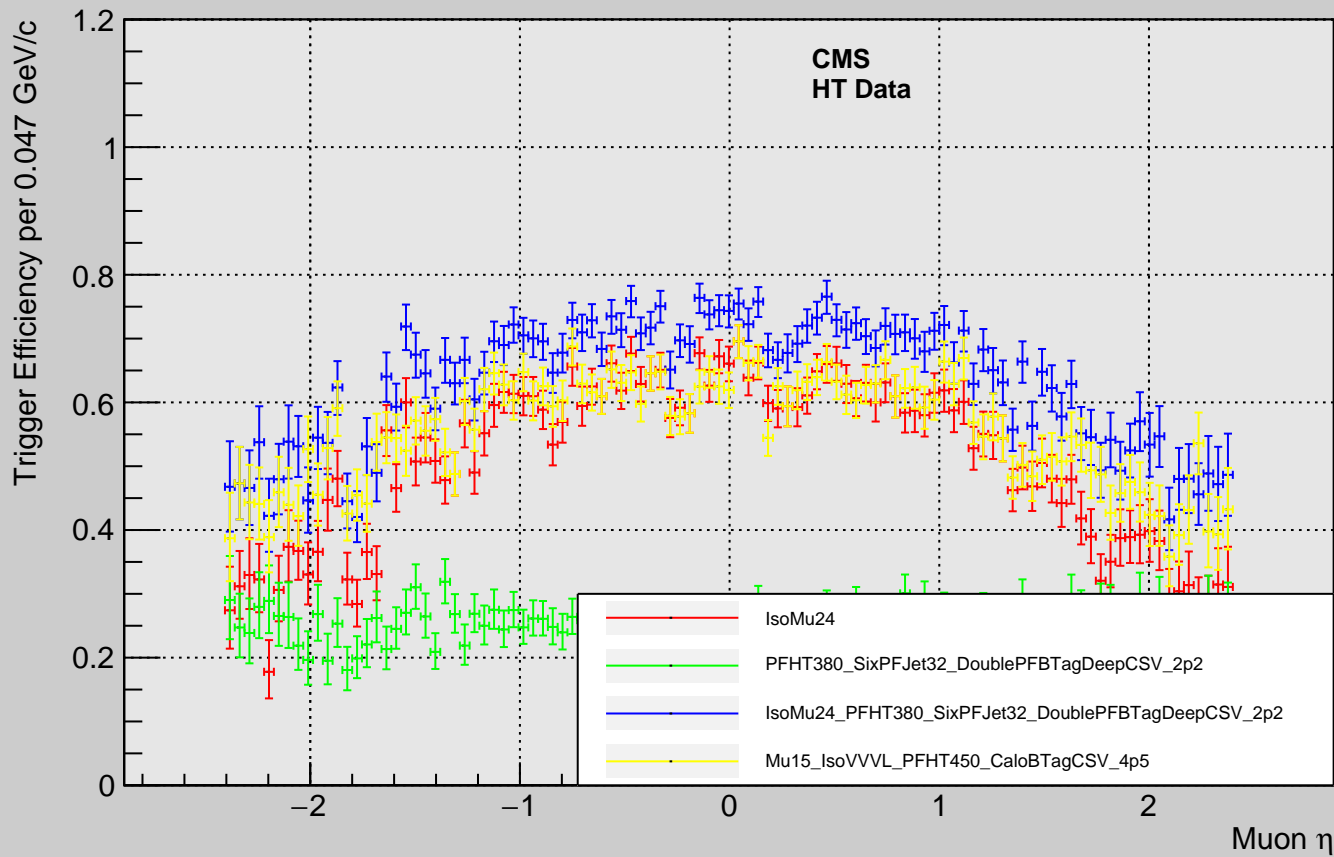


h\_muonEta\_notrigger

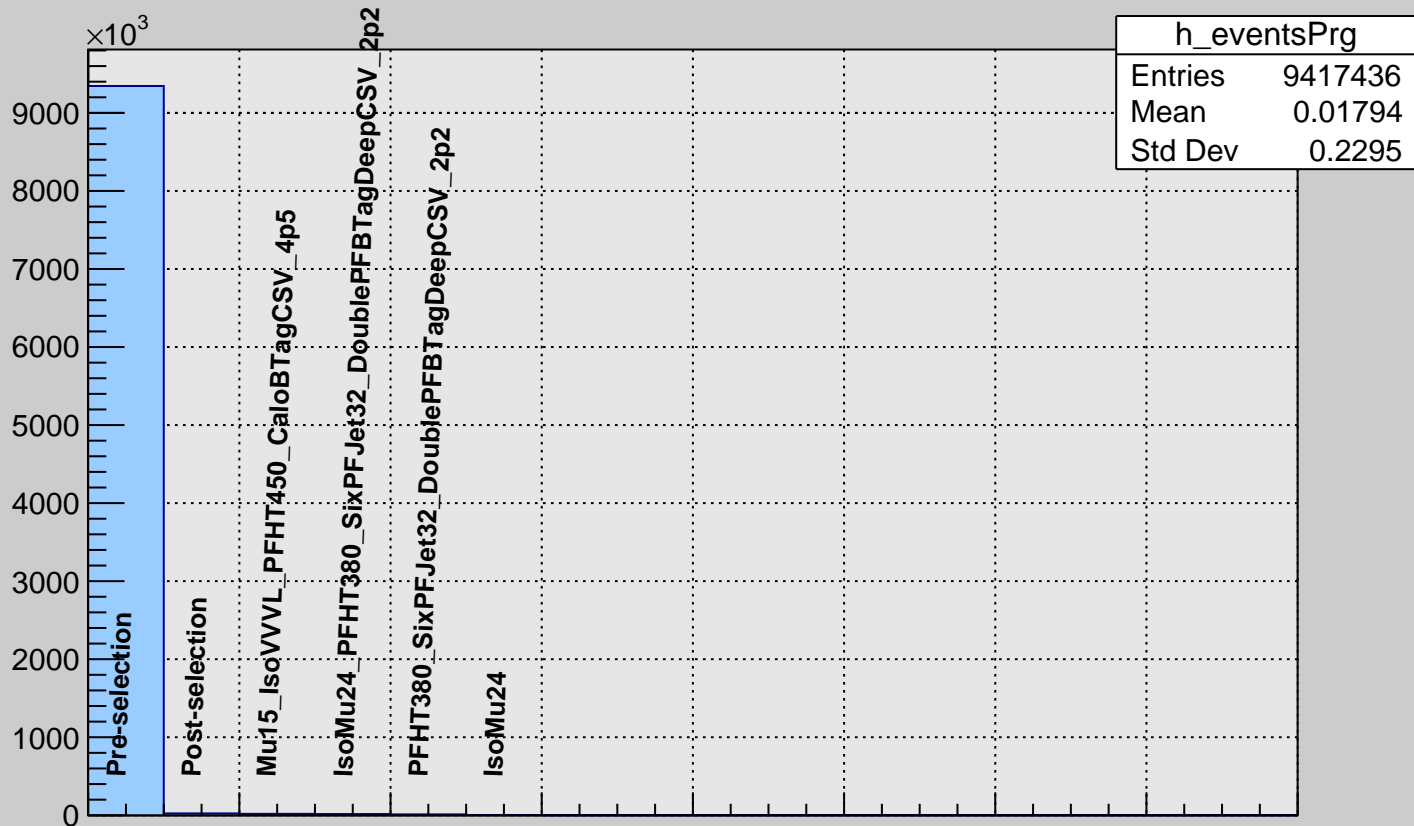
Entries 23768

Mean 0.003162

Std Dev 1.137



Total Number of Accepted Events



Cuts and Triggers

h\_eventsPrg

Entries 9417436

Mean 0.01794

Std Dev 0.2295