

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

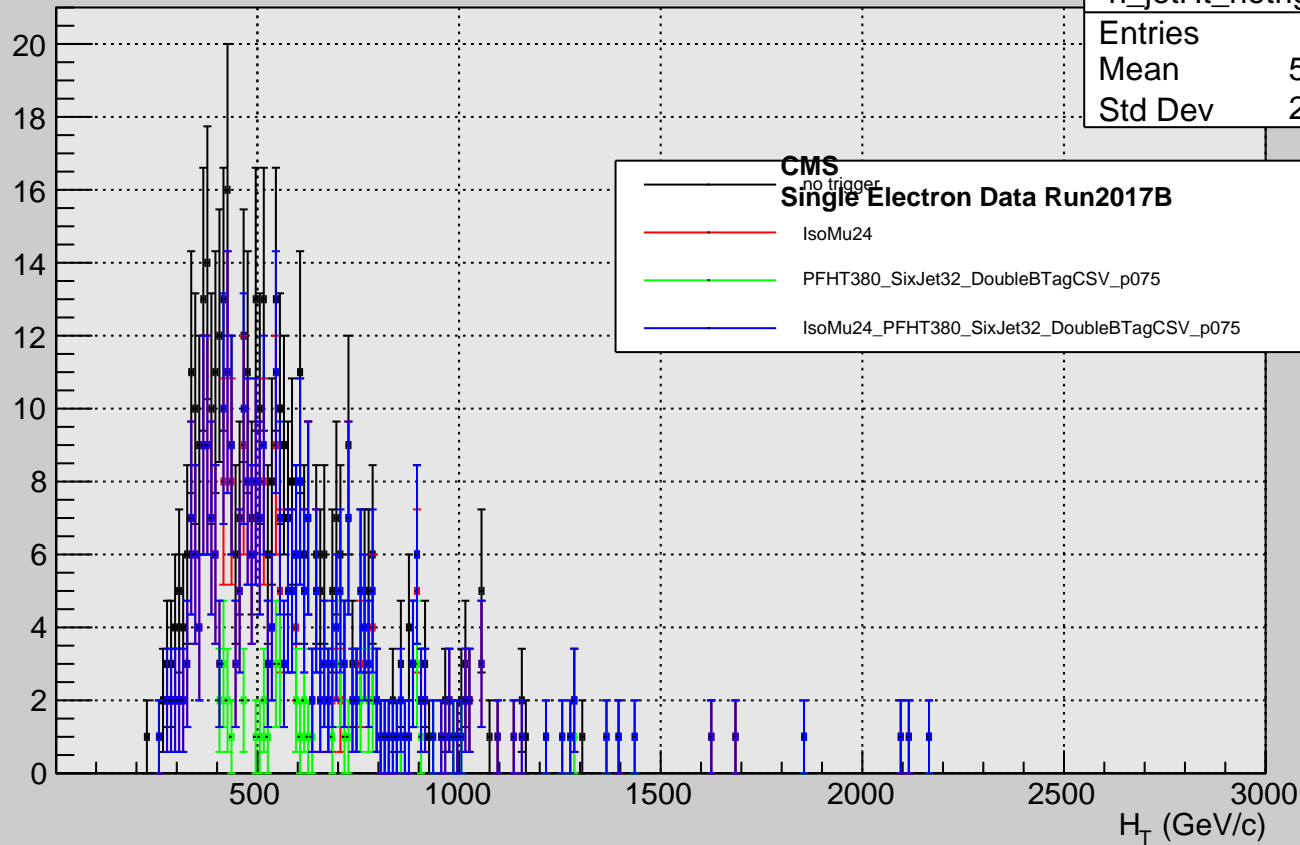
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

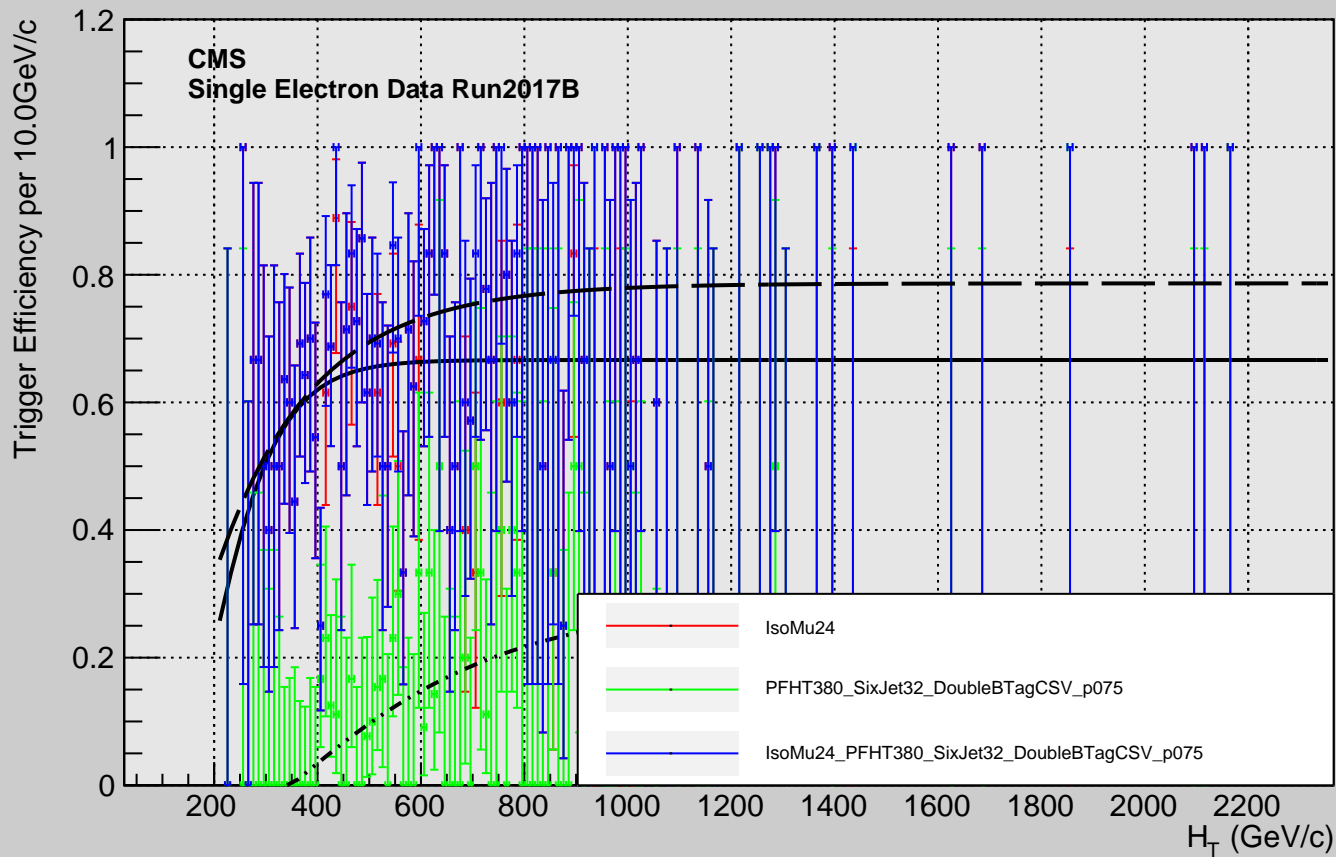
**Event Limit:** None (see last page)

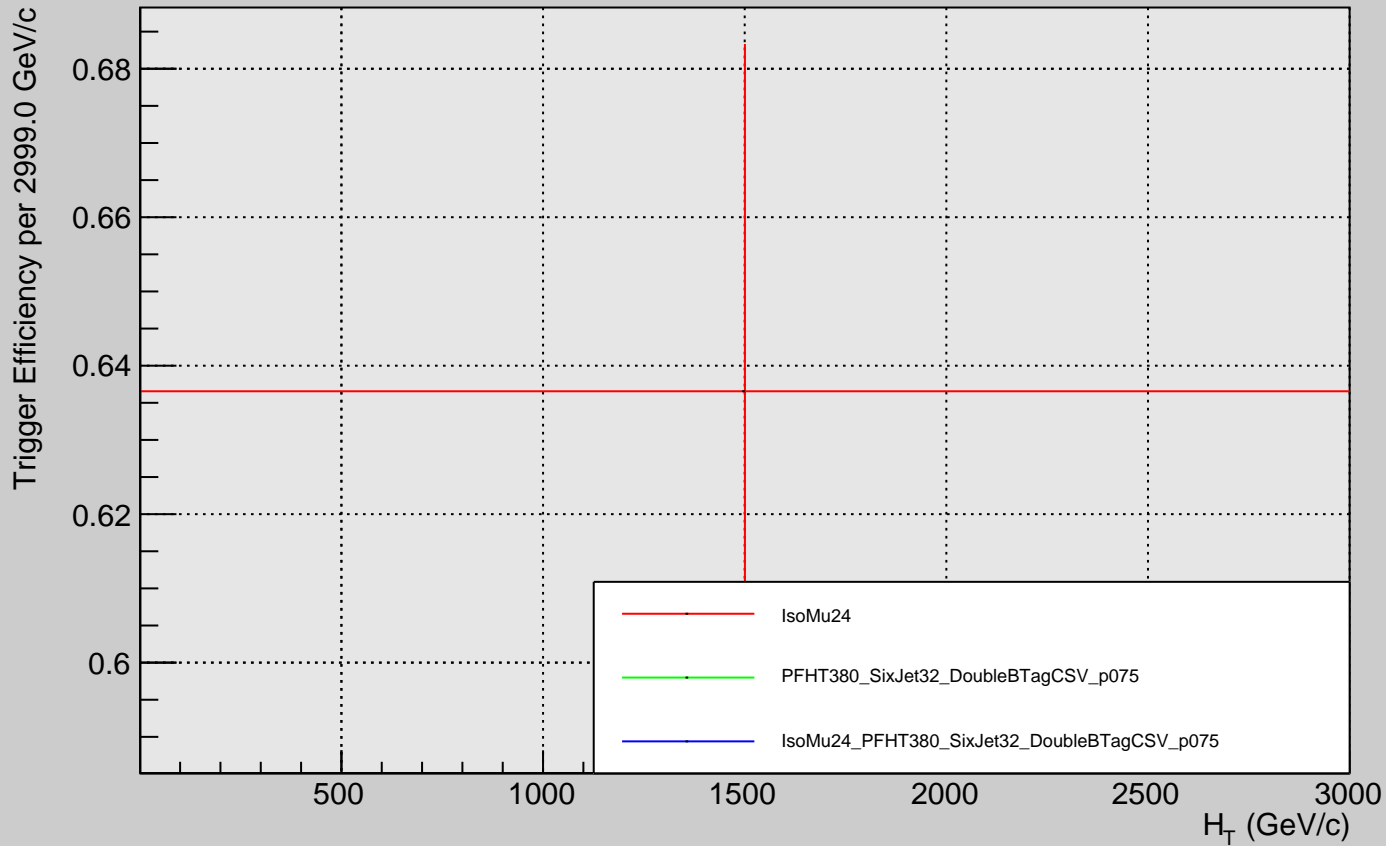
### Off-line (post-)selection Requisites for:

- **Jets:**  $\text{jetId} > 2$  ,  $p_T > 30$  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)

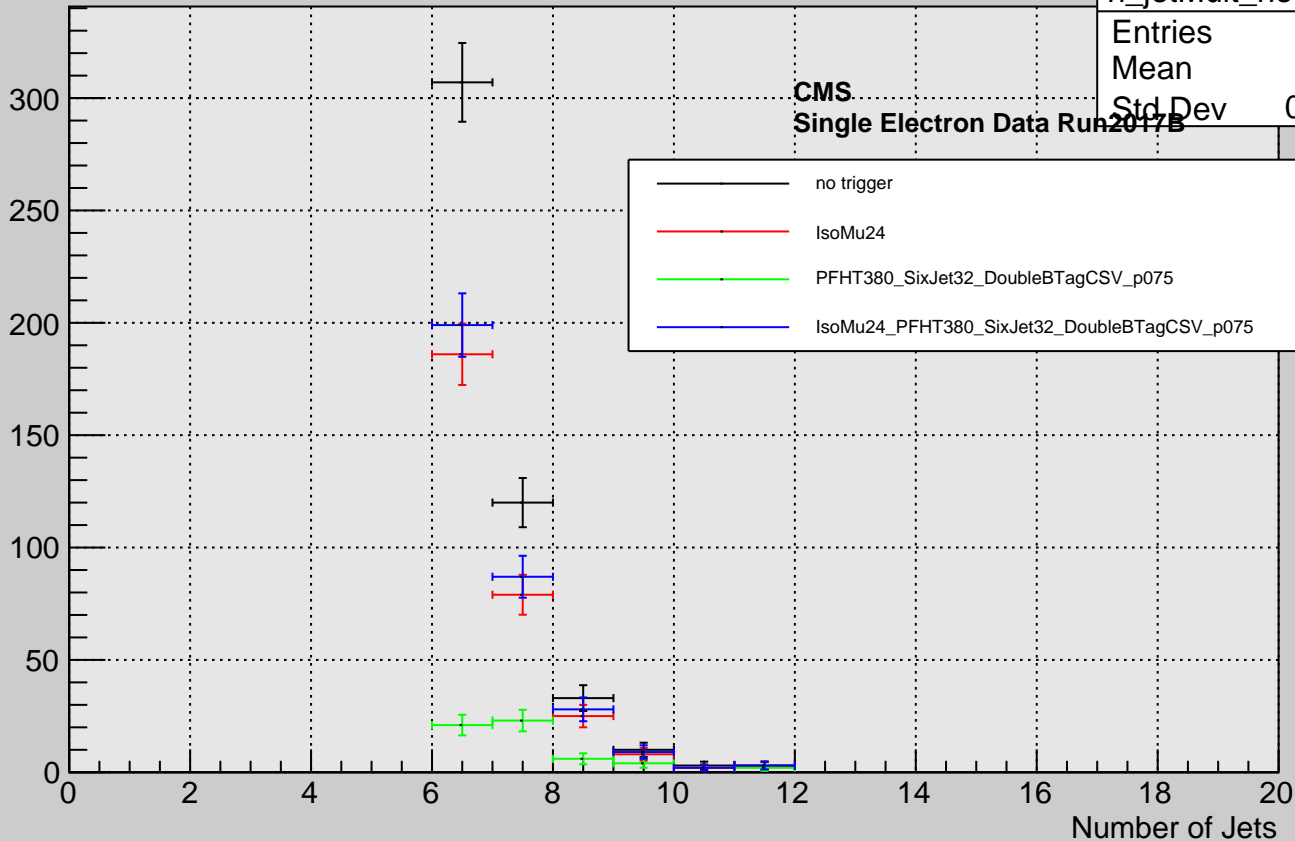
Number of Events per 10 GeV/c

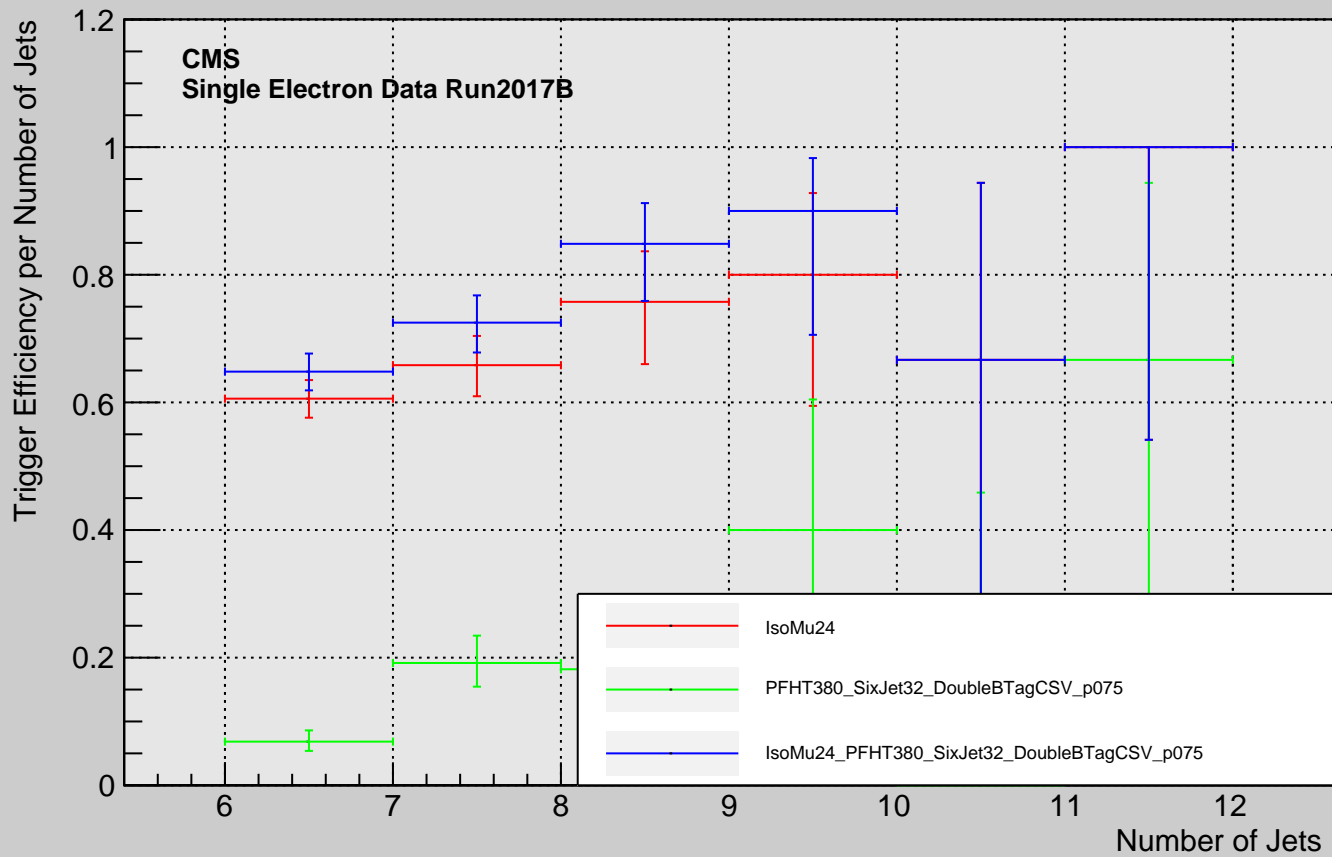




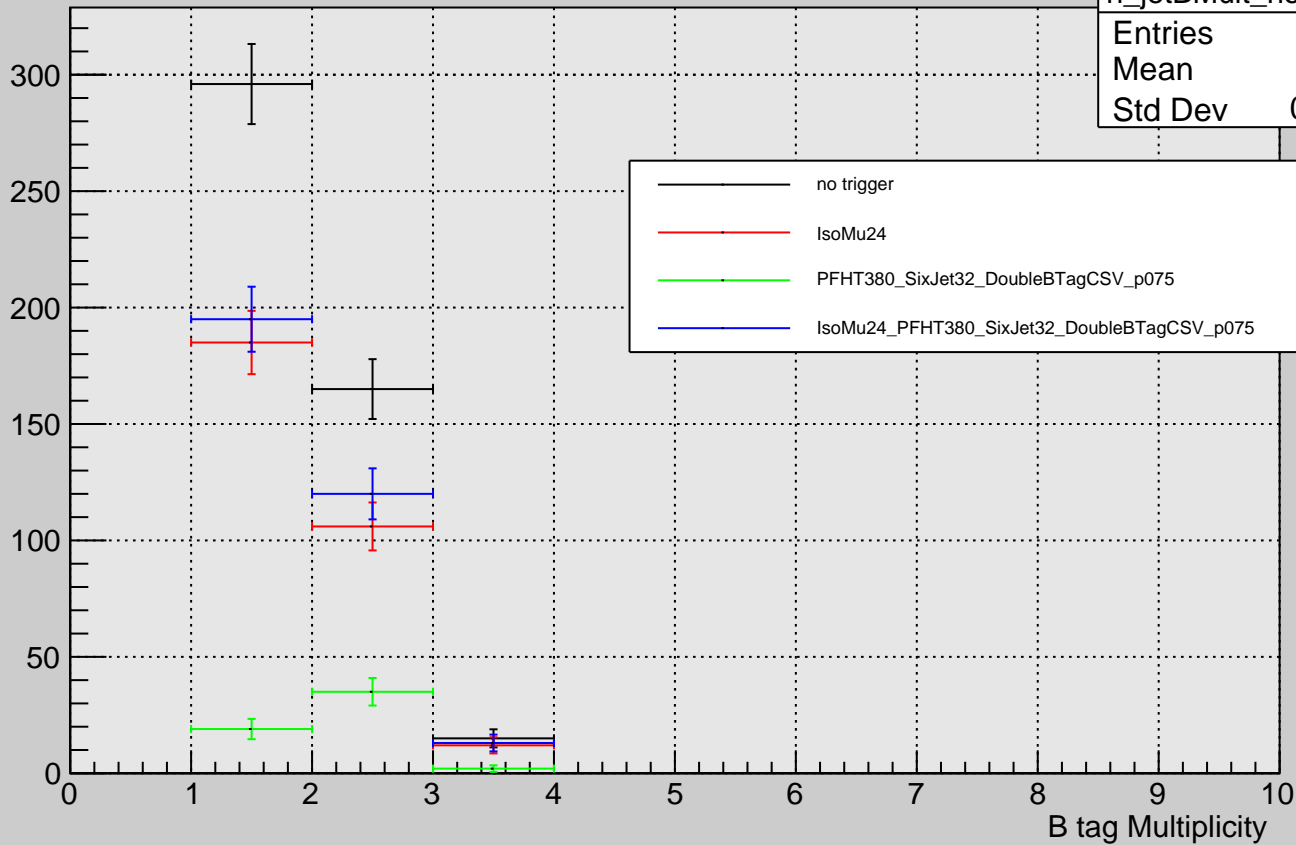


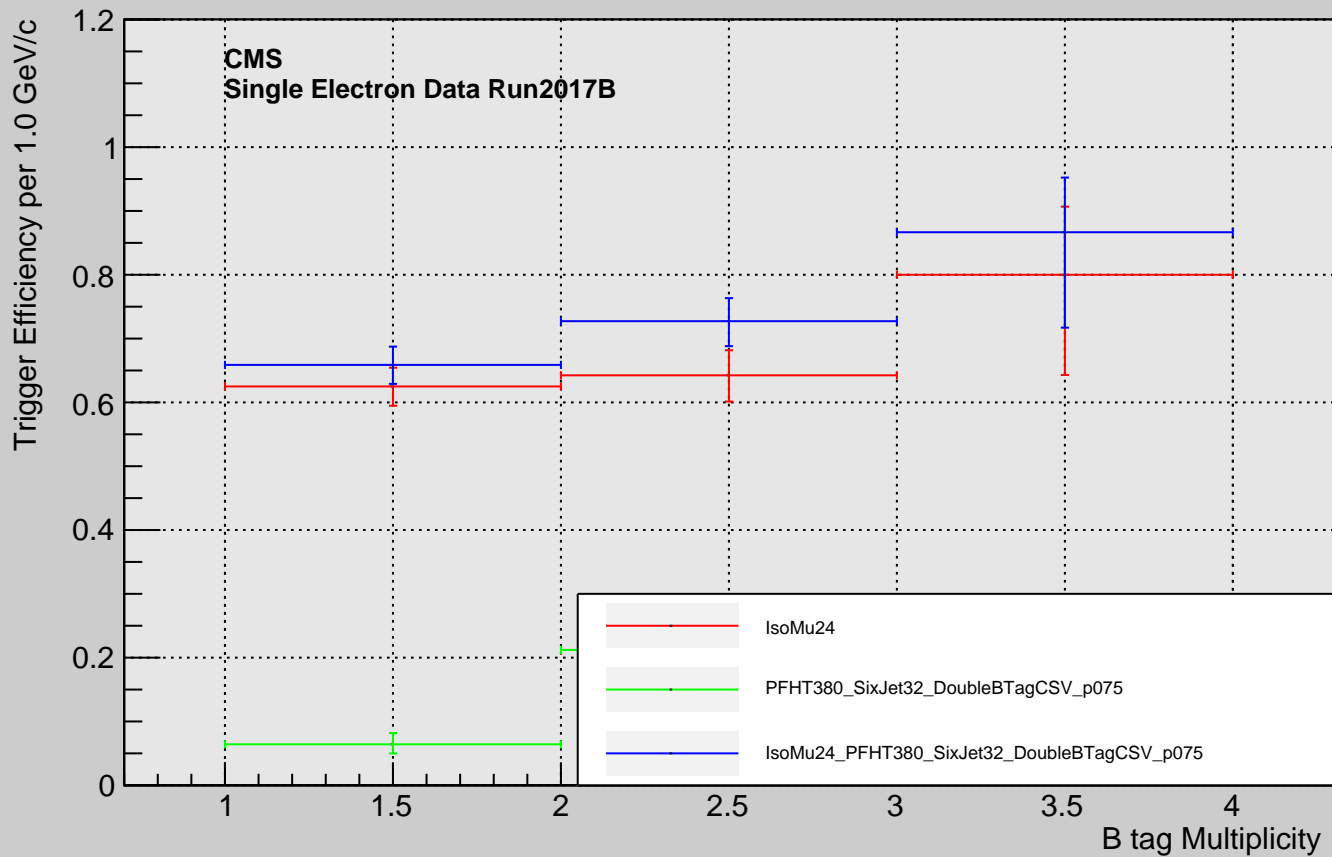
Number of Events per Number of Jets



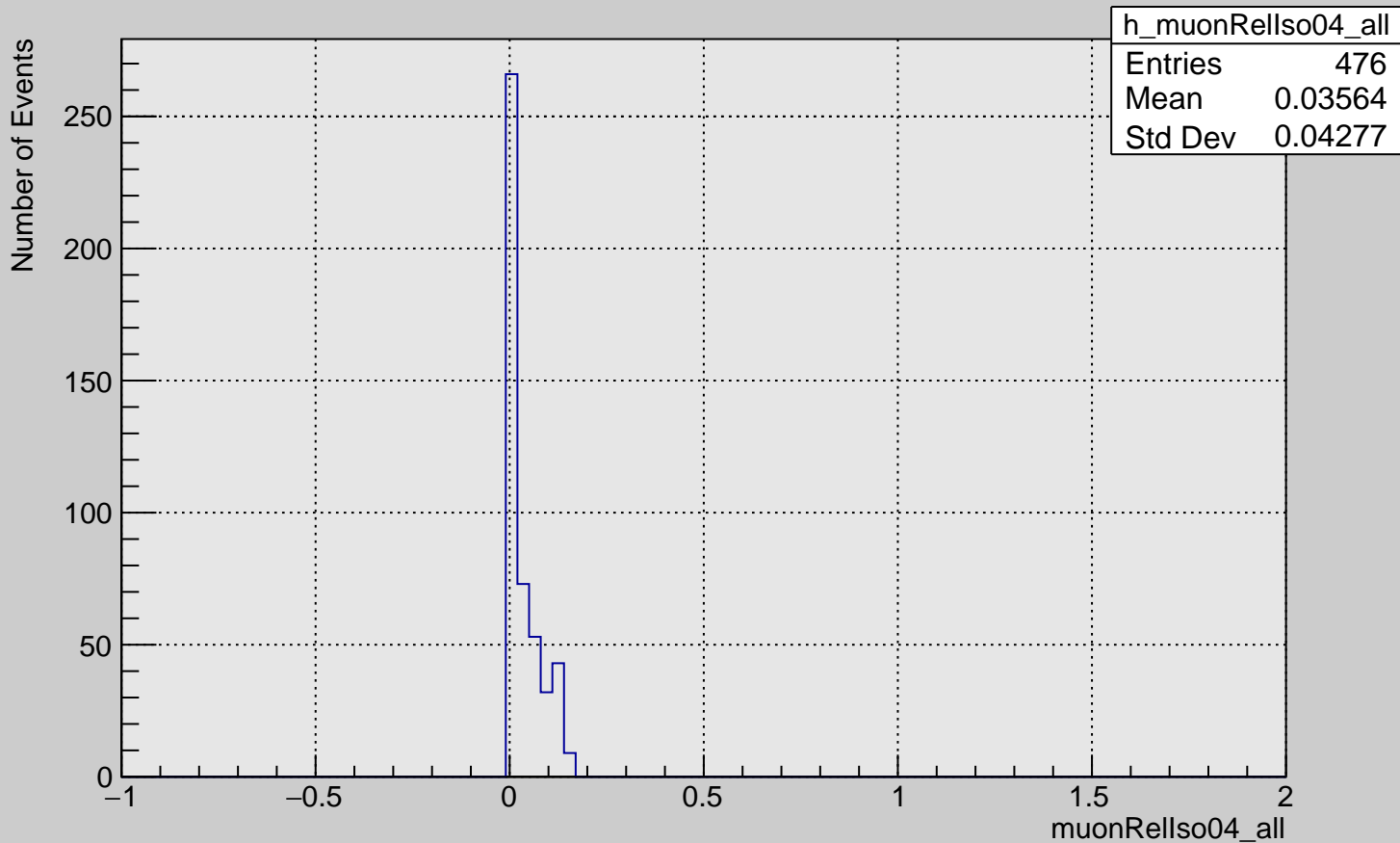


Number of Events per Number of Jets









Number of Events per 1 GeV/c

h\_muonPt\_notrigger

Entries 476

Mean 56.38

Std Dev 46.19

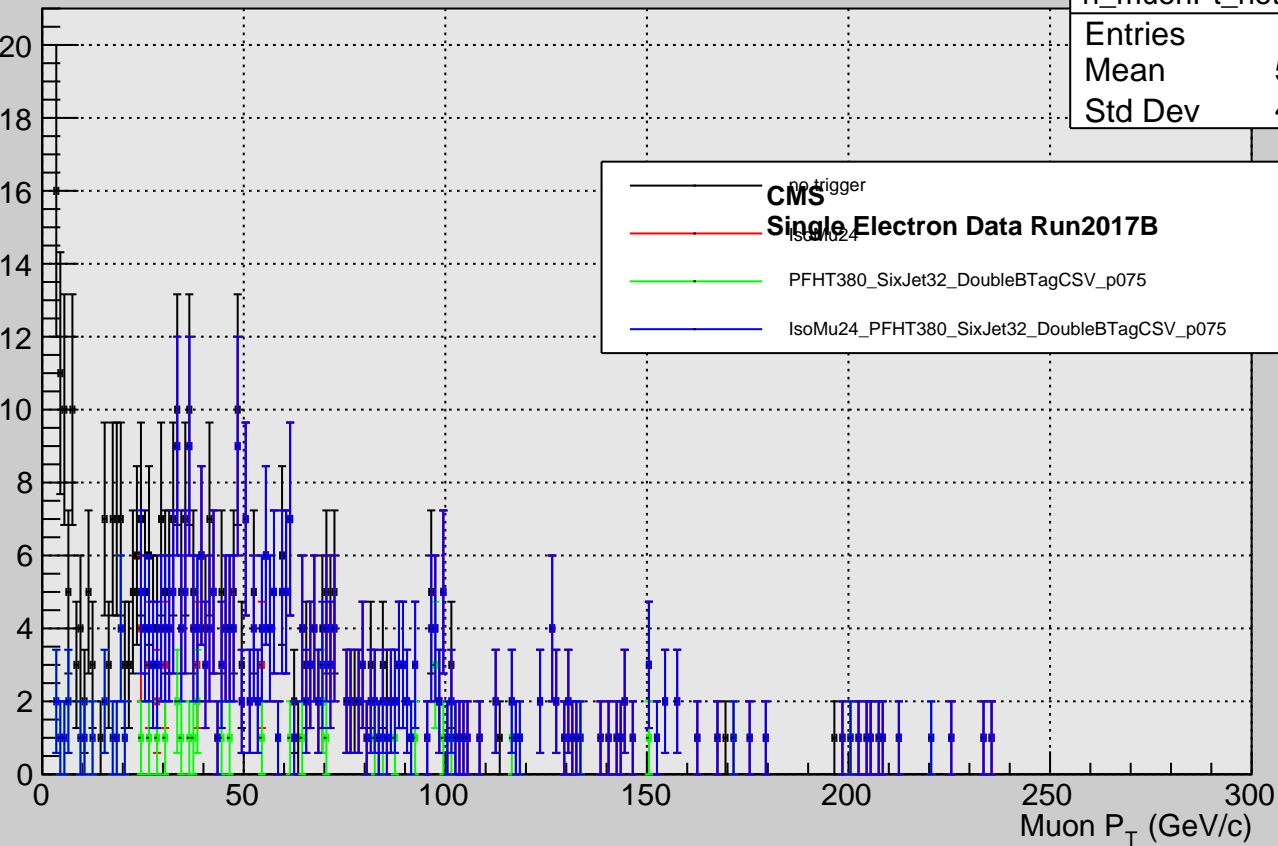
CMS

Single Electron Data Run2017B

IsoMu24

PFHT380\_SixJet32\_DoubleBTagCSV\_p075

IsoMu24\_PFHT380\_SixJet32\_DoubleBTagCSV\_p075



Number of Events per 1 GeV/c

h\_muonPt\_notrigger

Entries 476

Mean 56.38

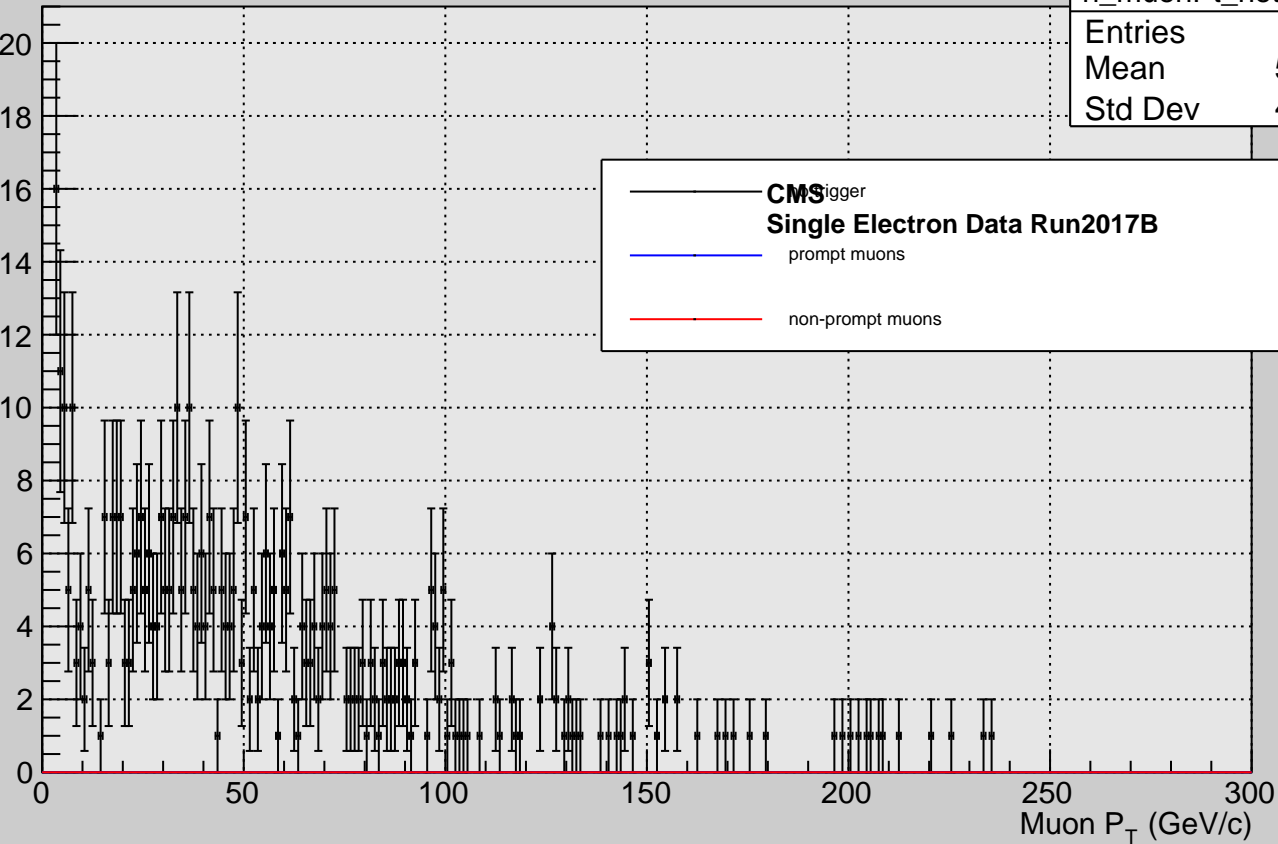
Std Dev 46.19

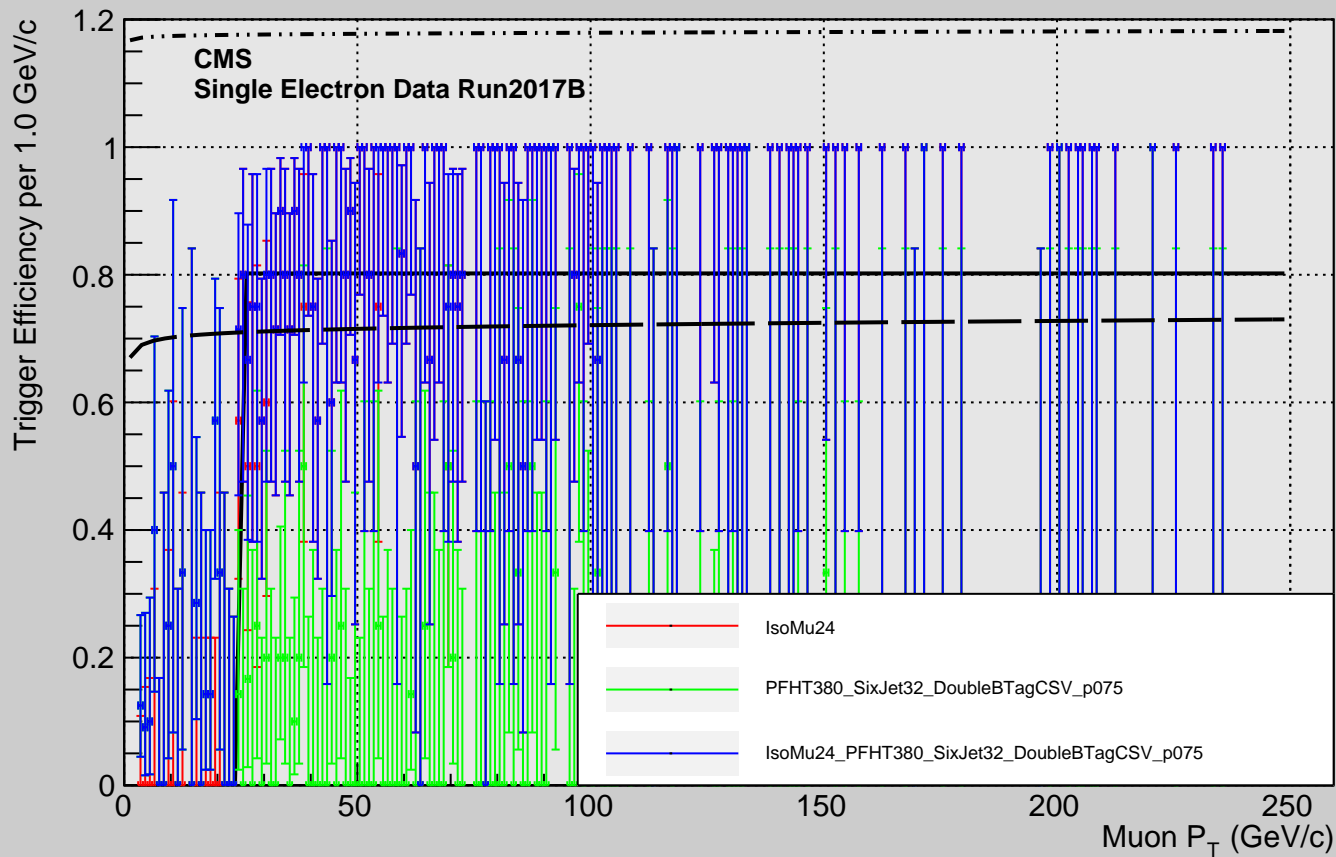
CMS

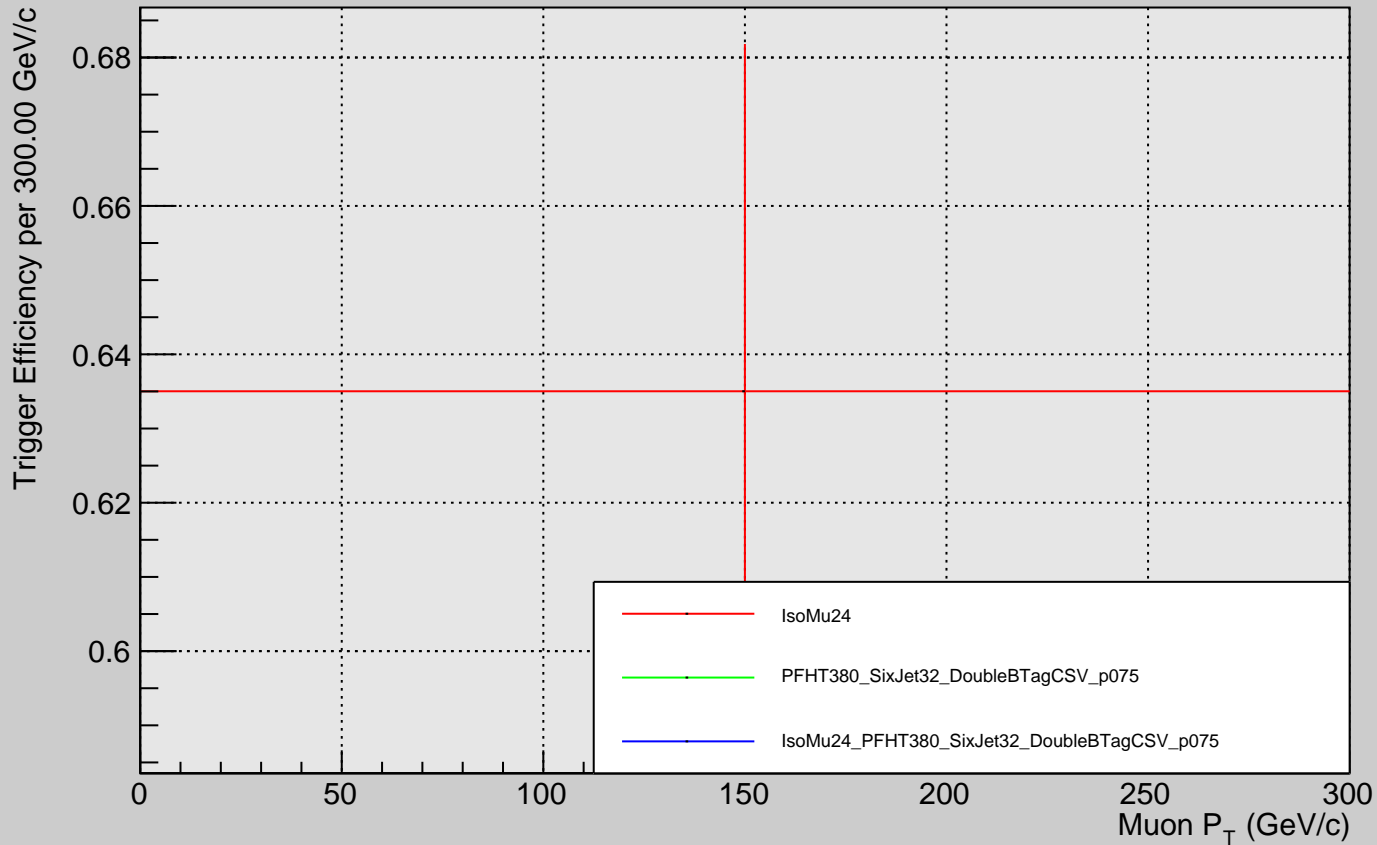
Single Electron Data Run2017B

prompt muons

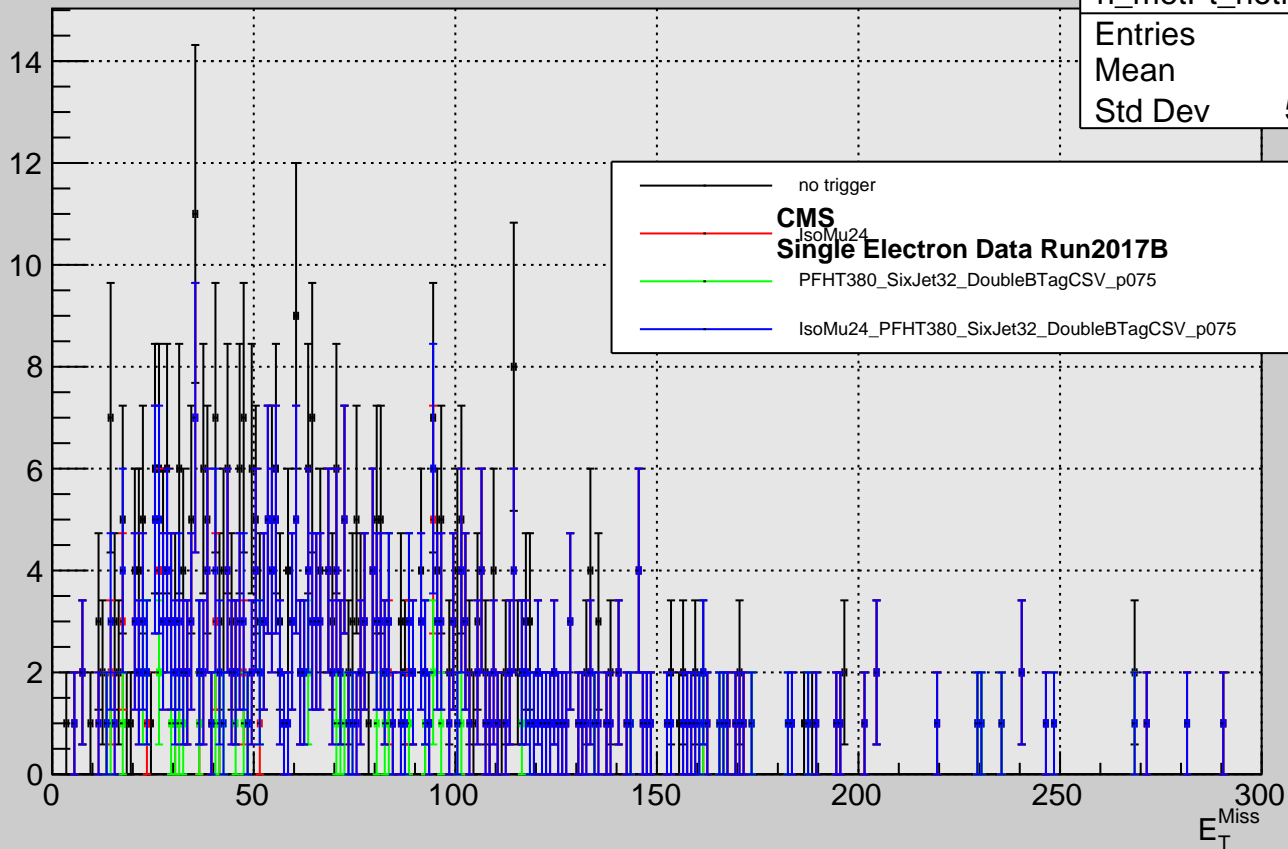
non-prompt muons







Number of Events per 1 GeV/c

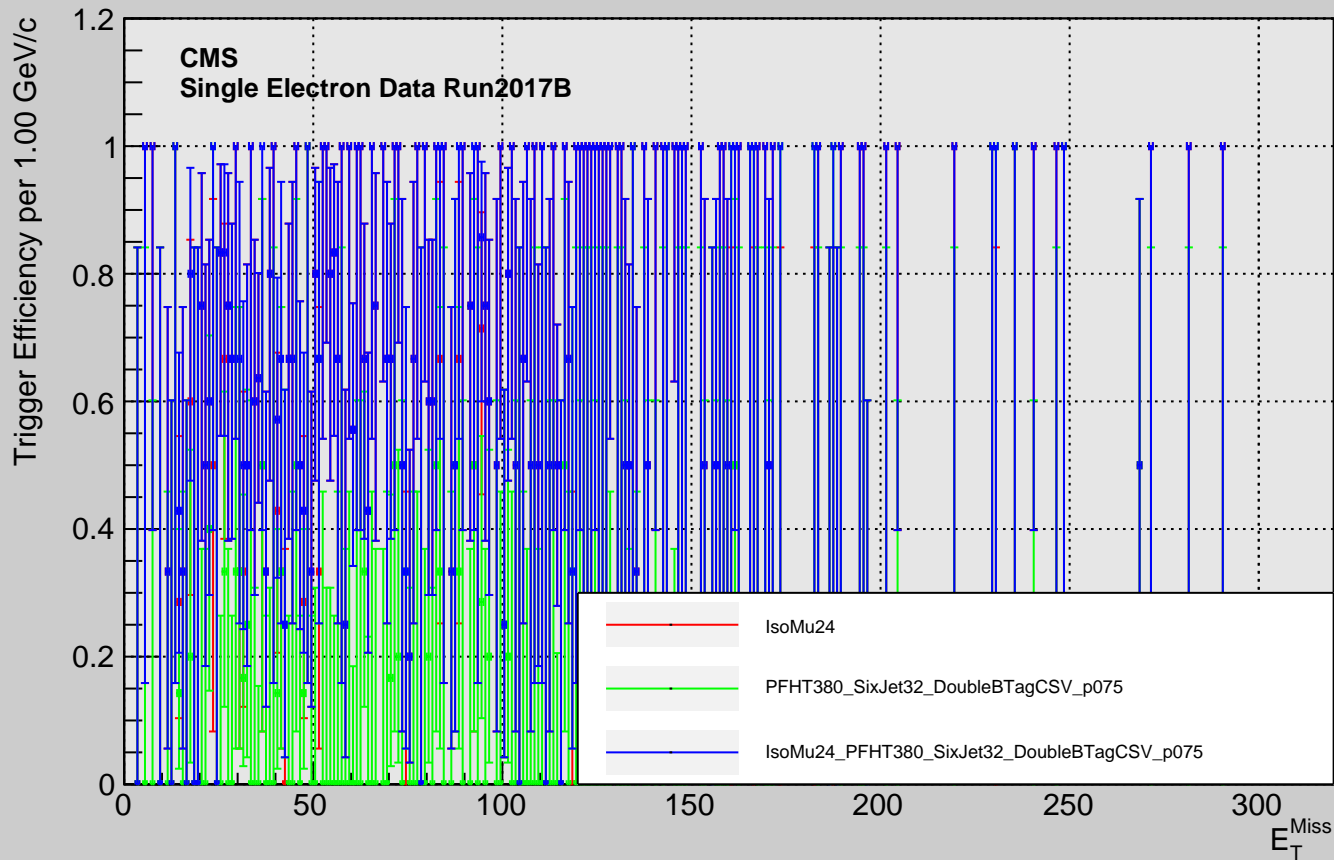


h\_metPt\_notrigger

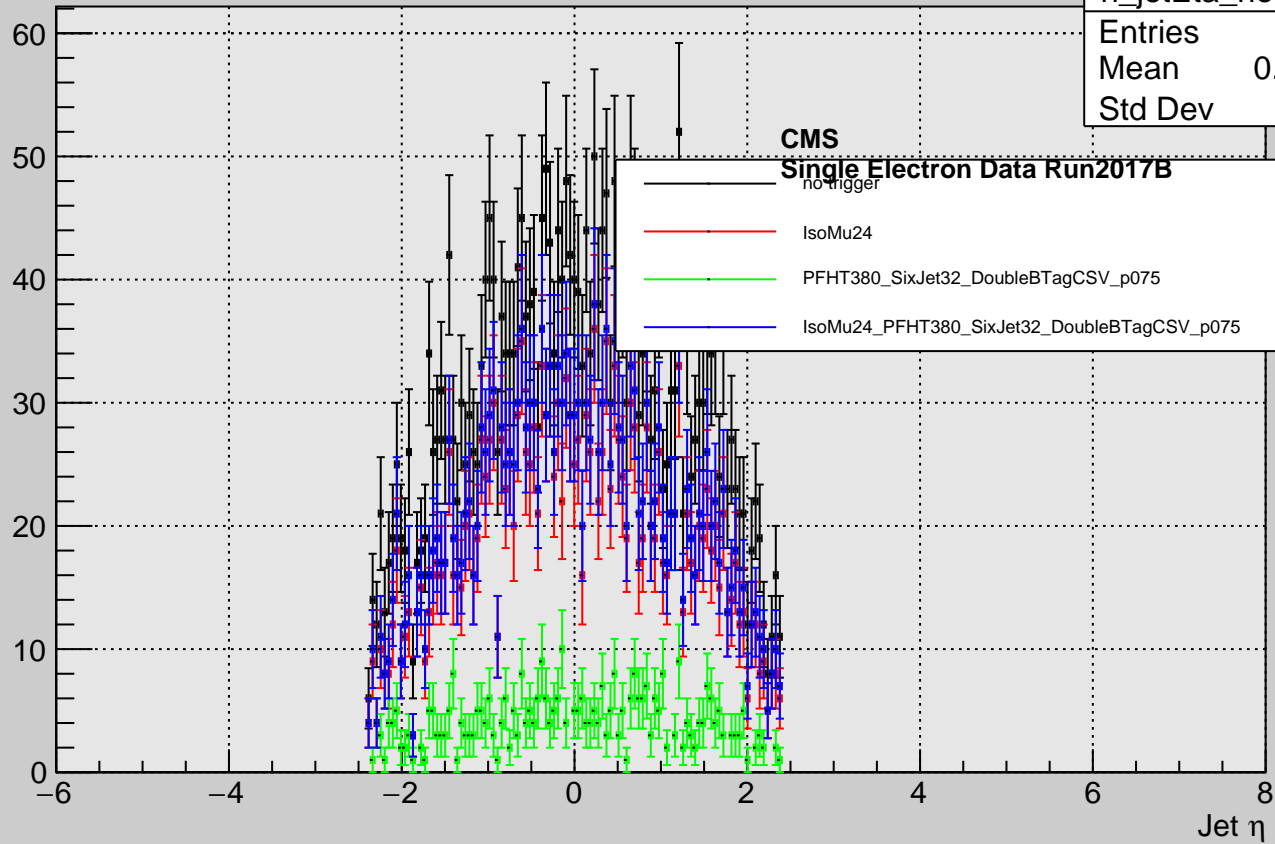
Entries 476

Mean 80.3

Std Dev 53.04



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



h_jetEta_notrigger	
Entries	3099
Mean	0.01387
Std Dev	1.19



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

