

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

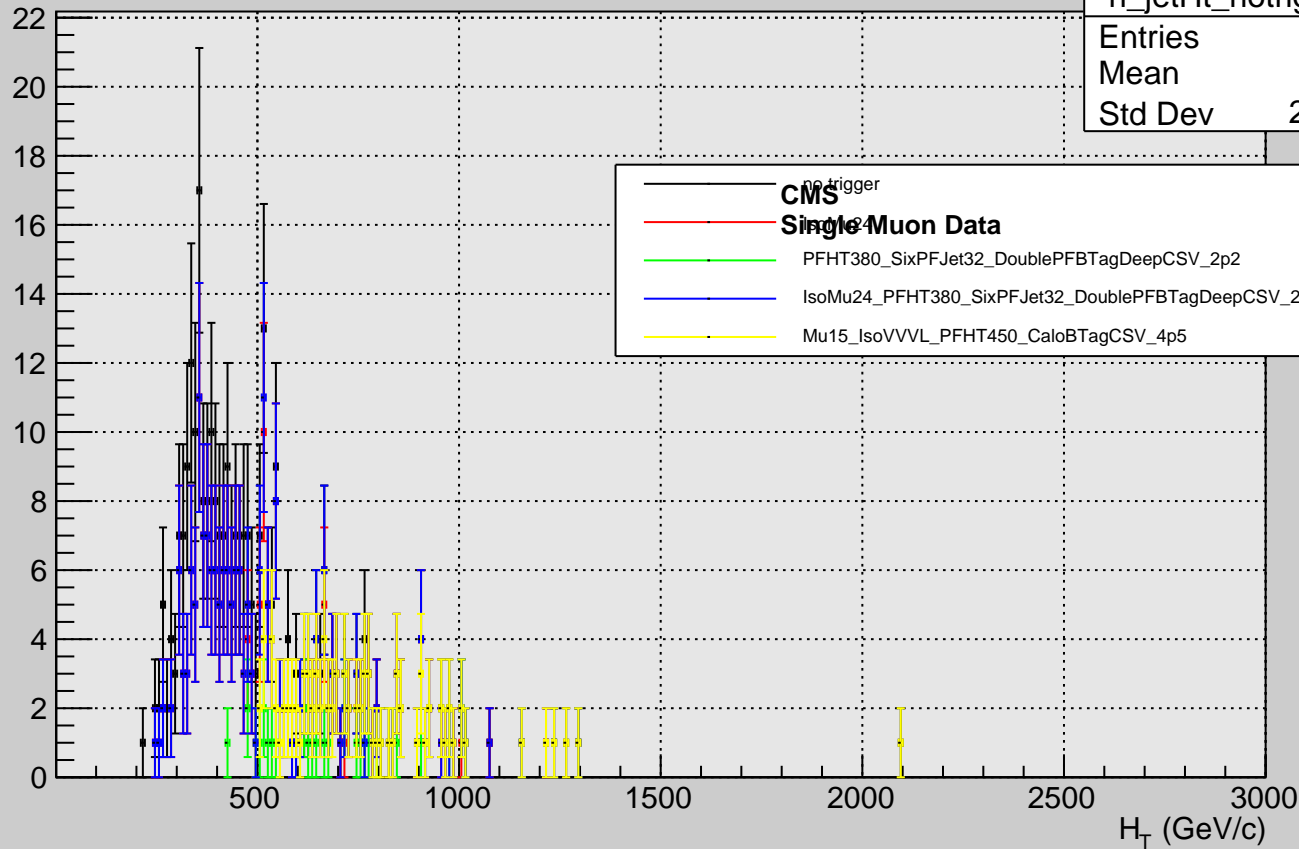
- **Jets:** number  $> 5$
- **Muons plus Electrons:** number  $> 0$

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

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

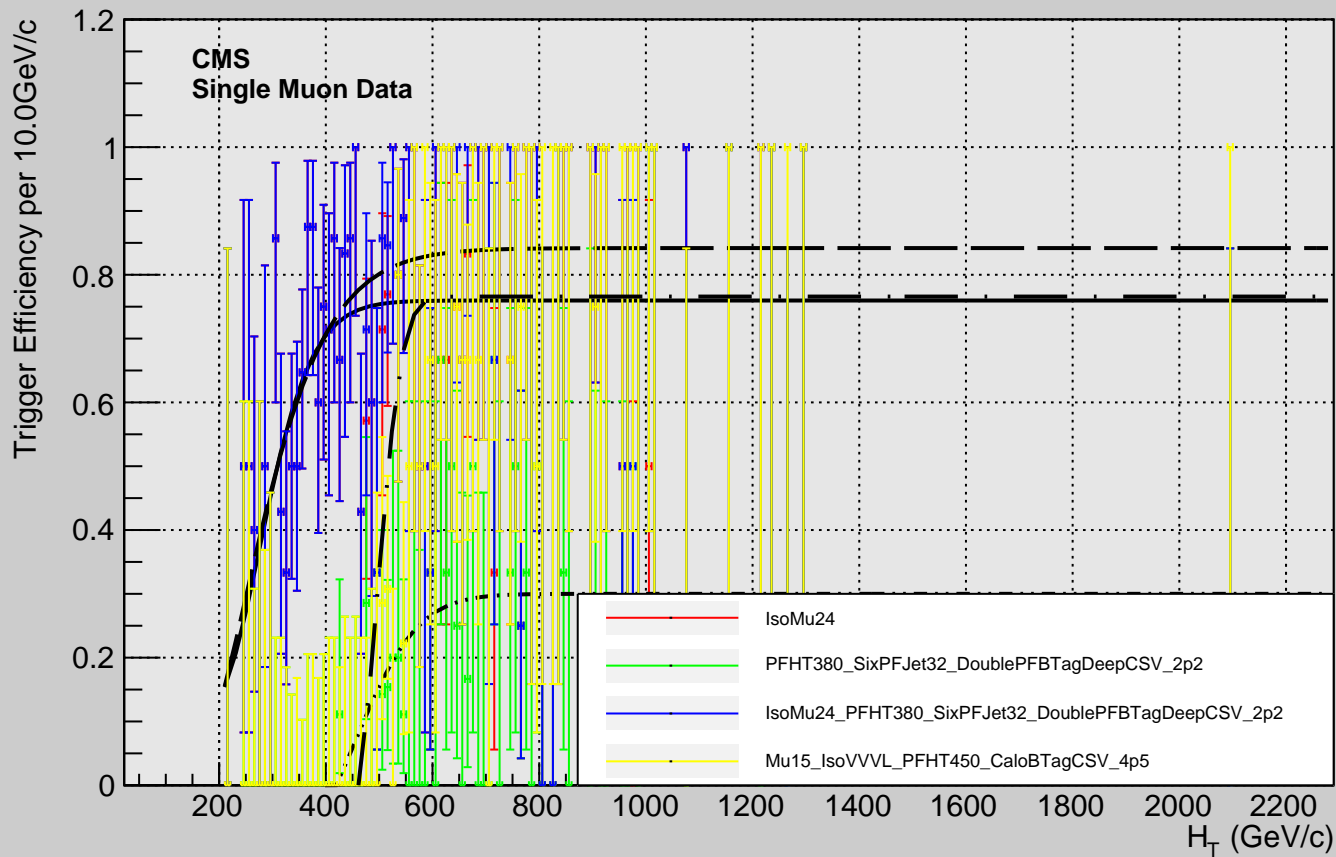
- **Jets:**  $\text{jetId} > 2$  ,  $p_{\text{T}} > 30$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
- **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{miniPFRellso\_all} < 0.15$  (for at least 1)

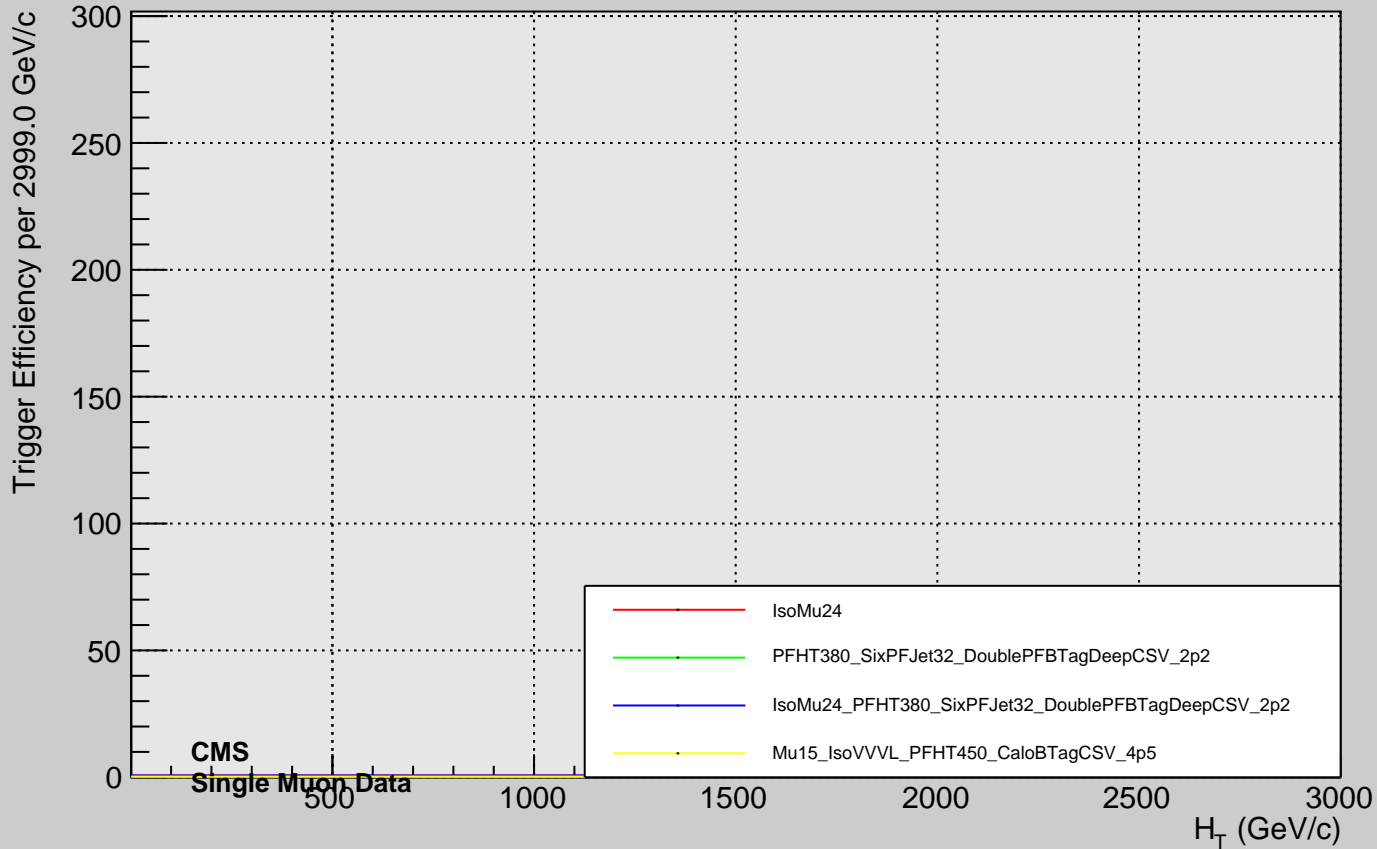
Number of Events per 10 GeV/c



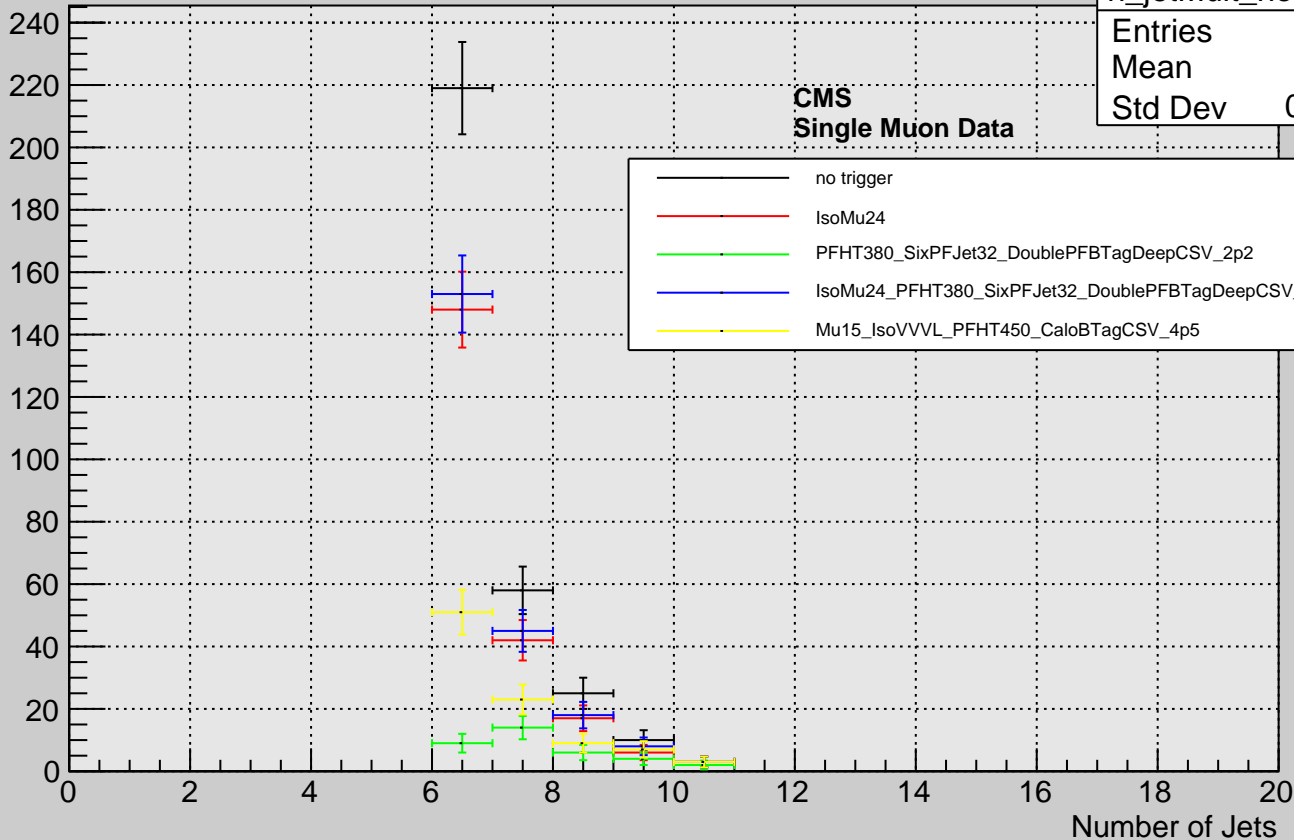
h\_jetHt\_notrigger

Entries	315
Mean	520
Std Dev	221.6

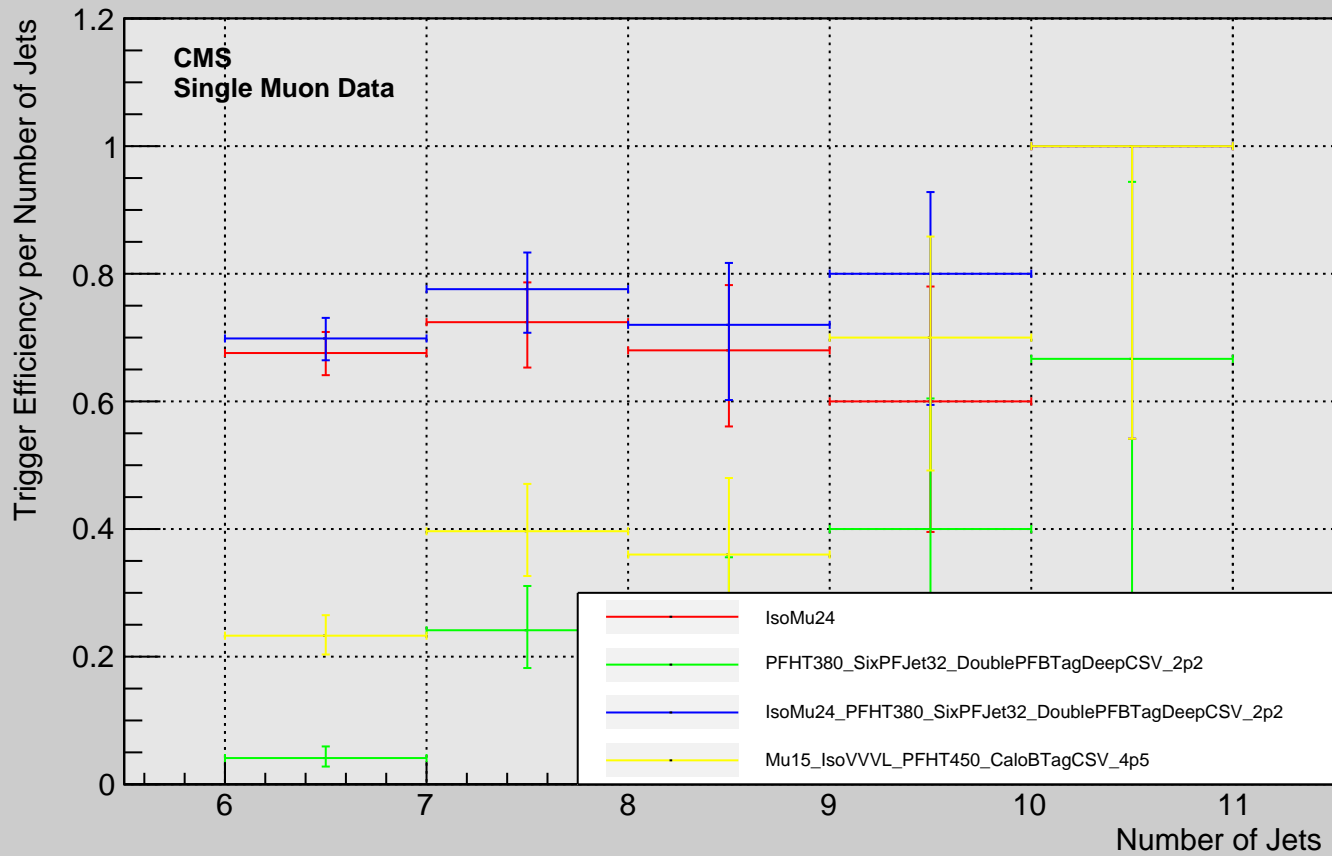




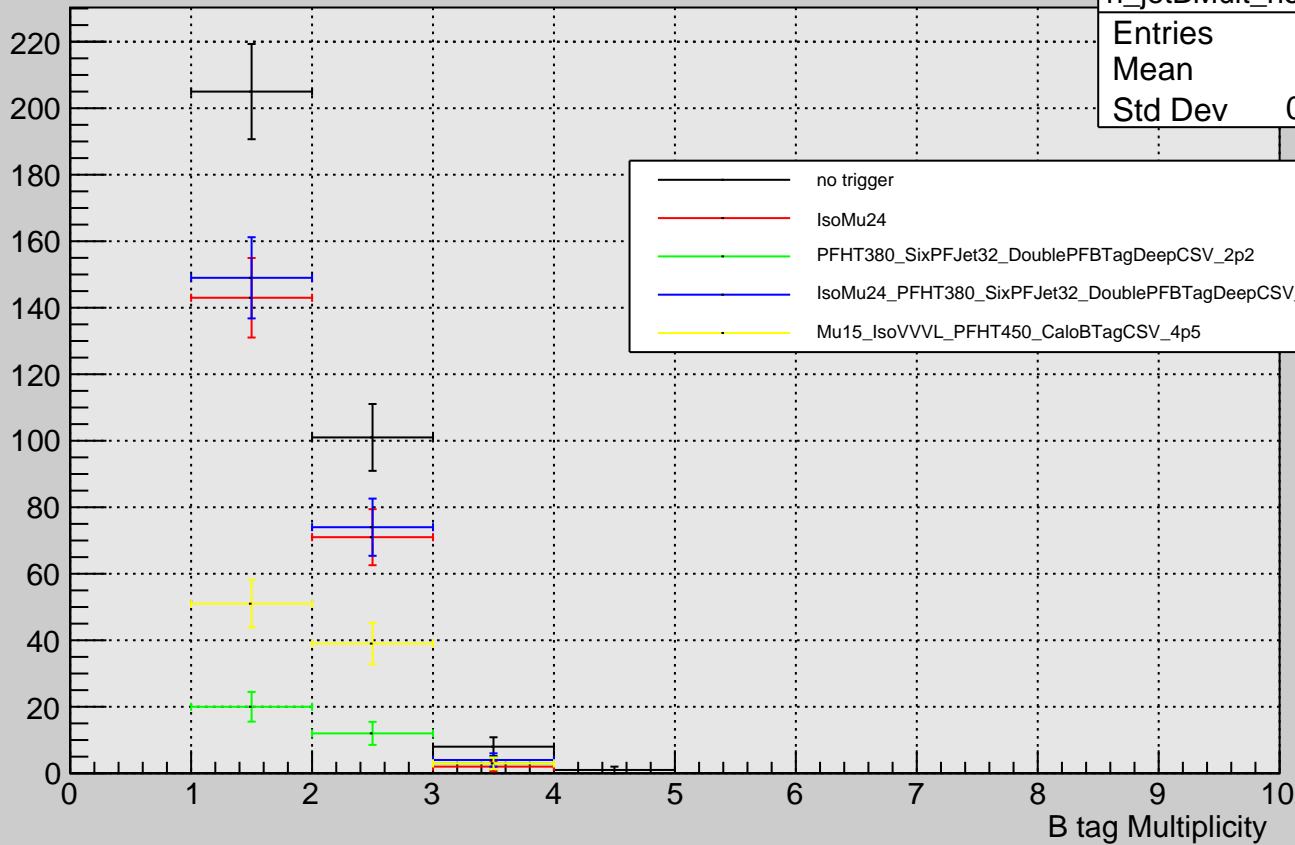
Number of Events per Number of Jets



h_jetMult_notrigger	
Entries	315
Mean	6.476
Std Dev	0.8443

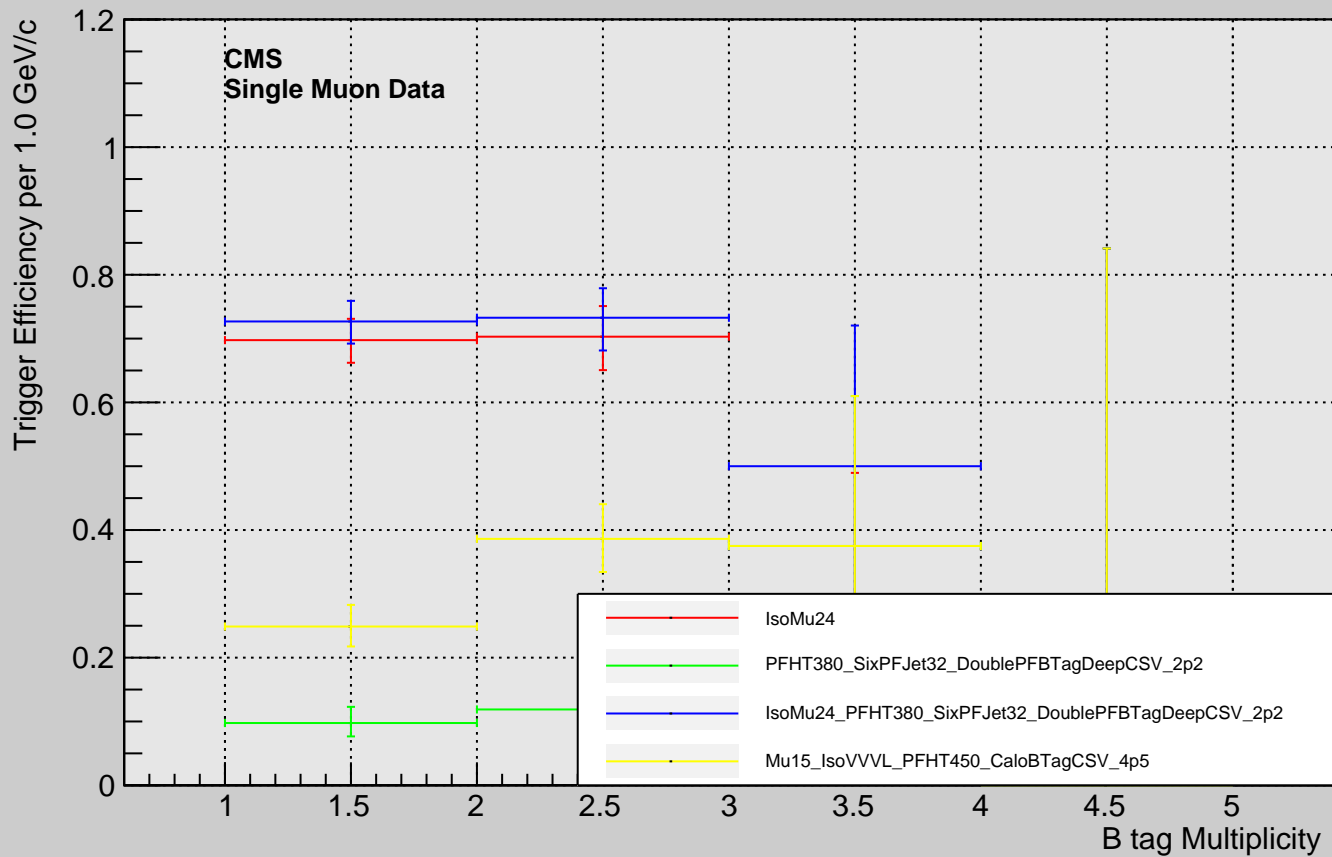


Number of Events per Number of Jets

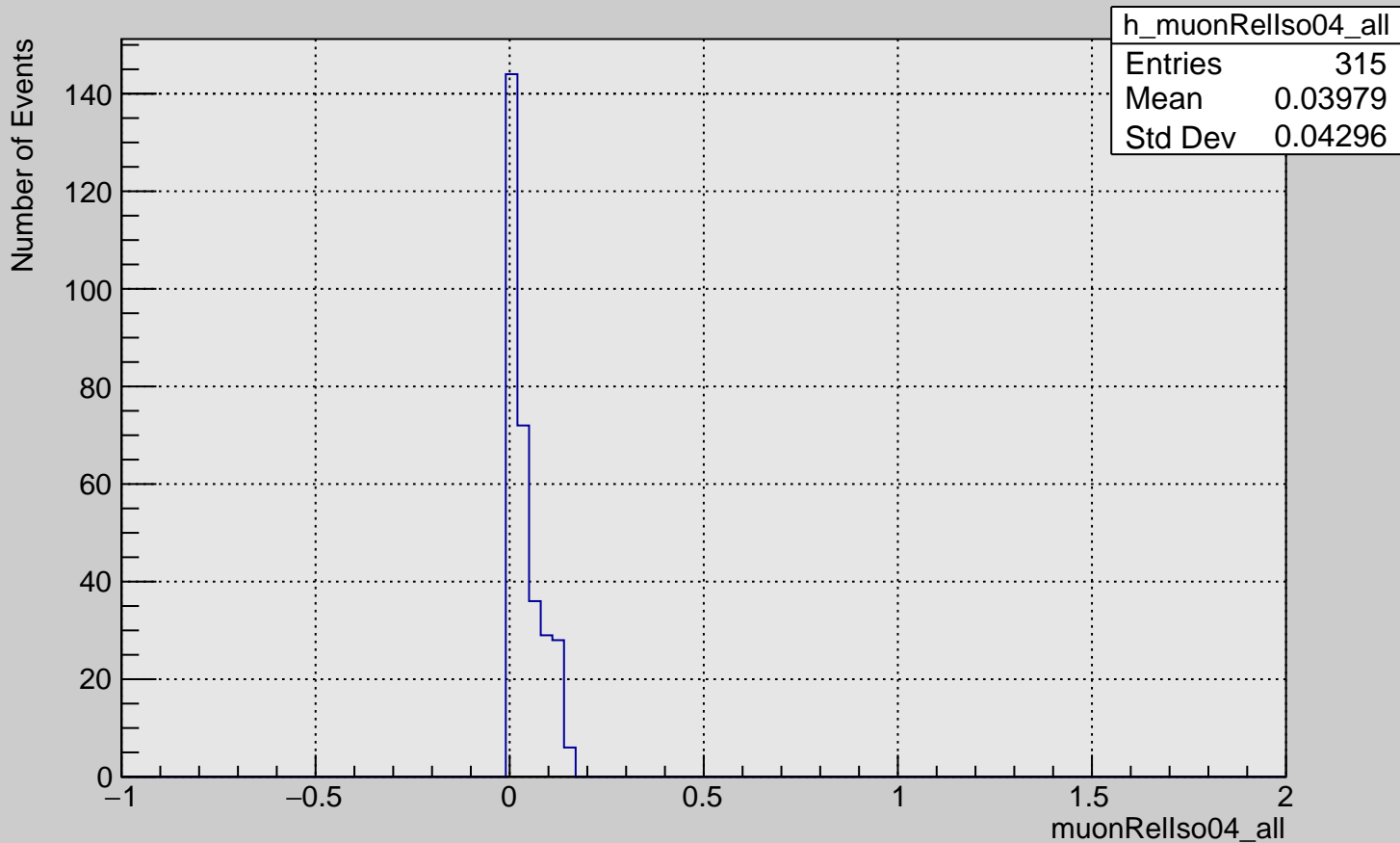


h_jetBMult_notrigger	
Entries	315
Mean	1.881
Std Dev	0.5529

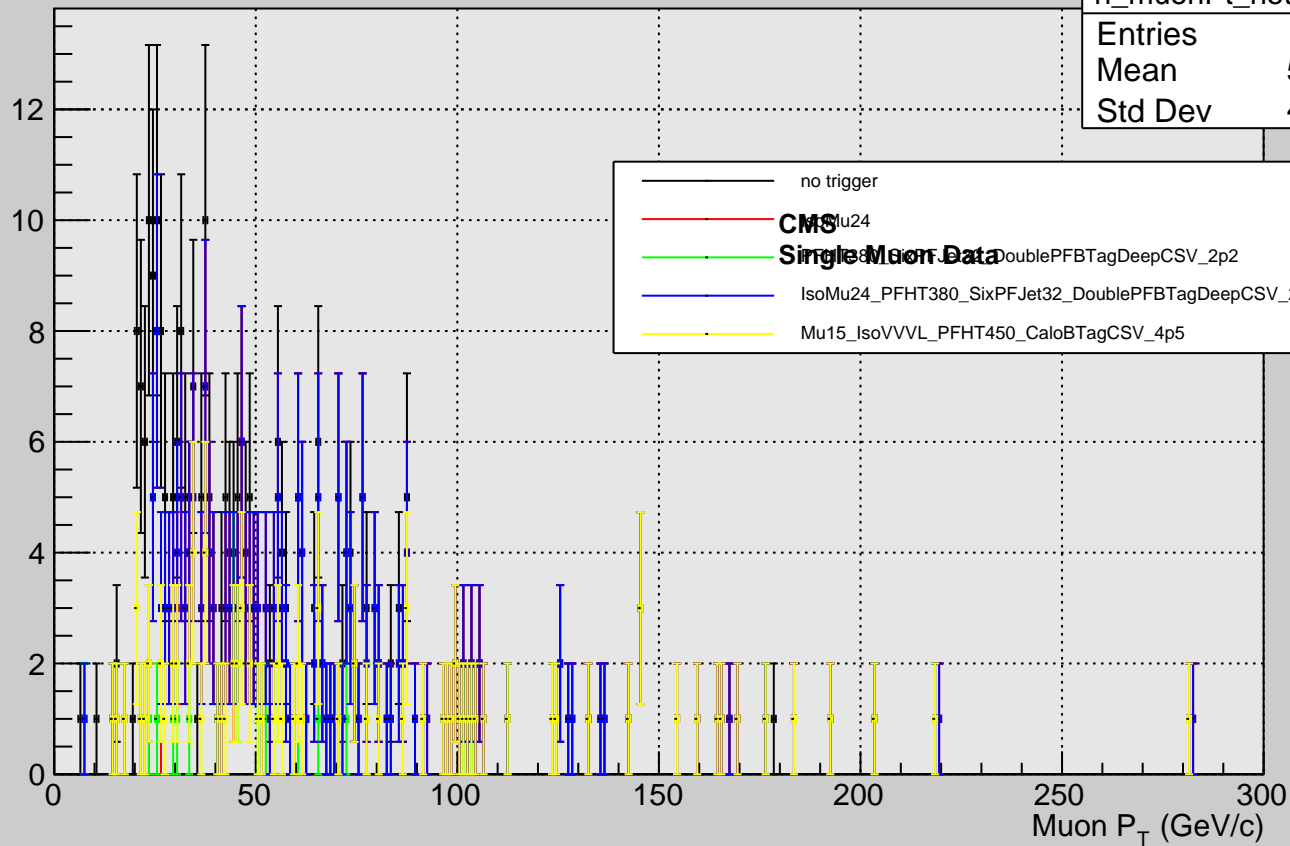
- no trigger
- IsoMu24
- PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2
- IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2
- Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5



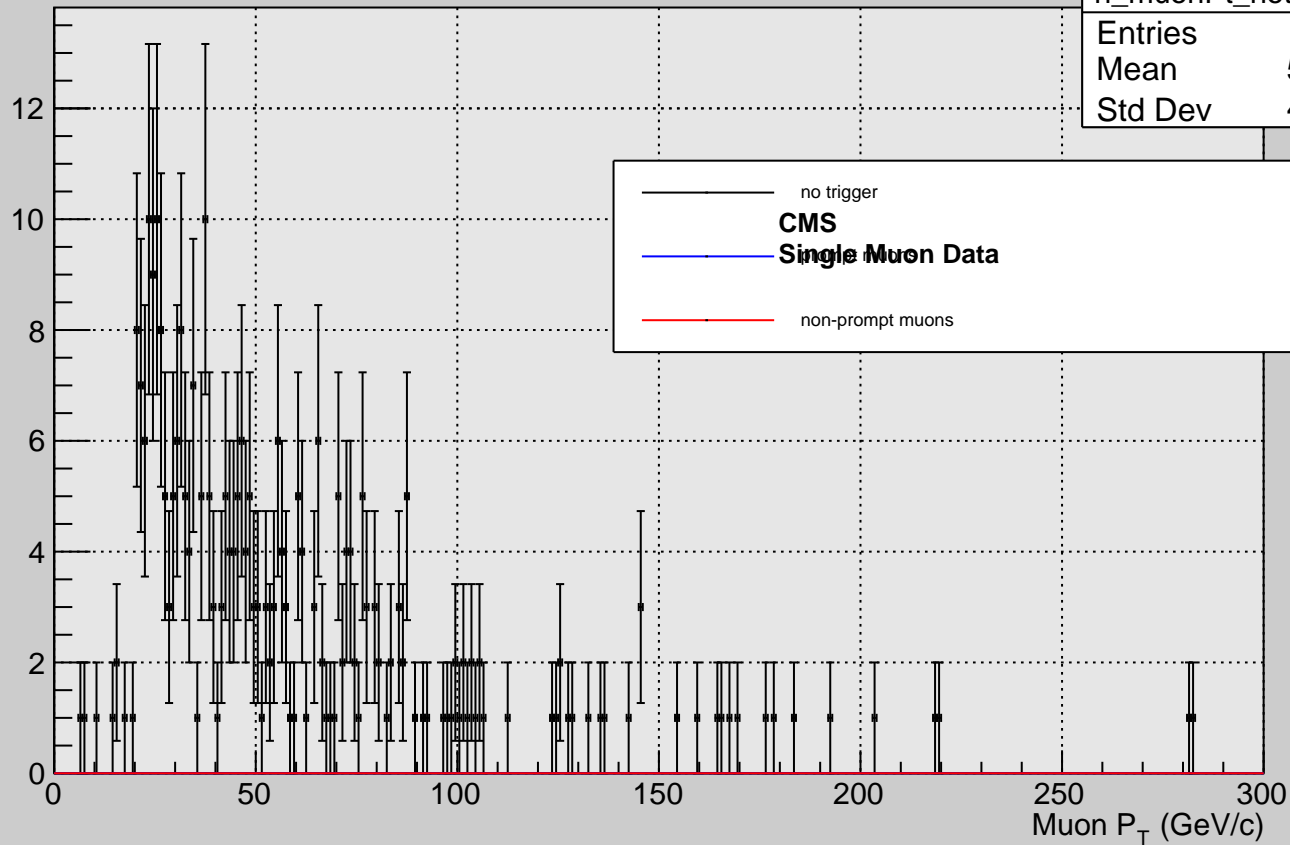


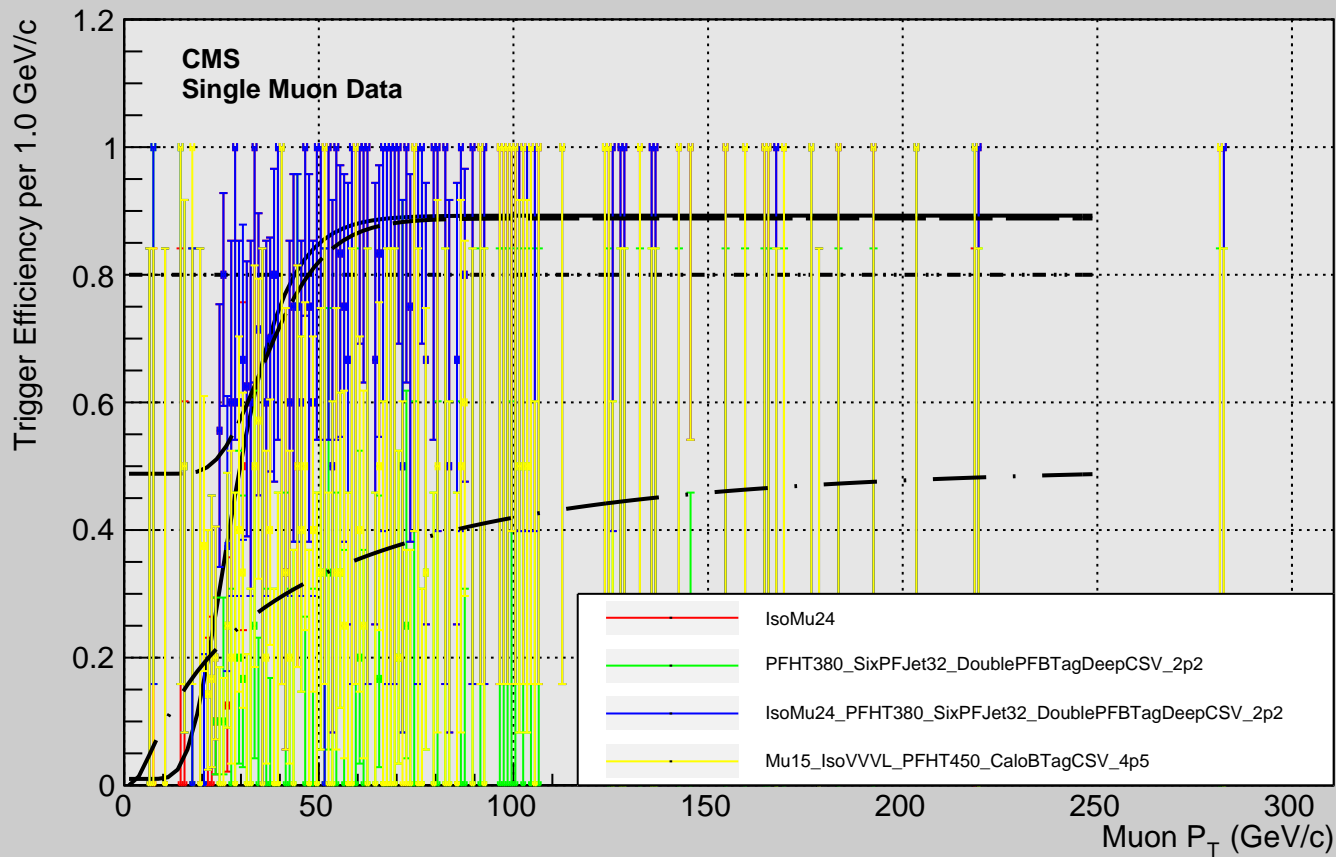


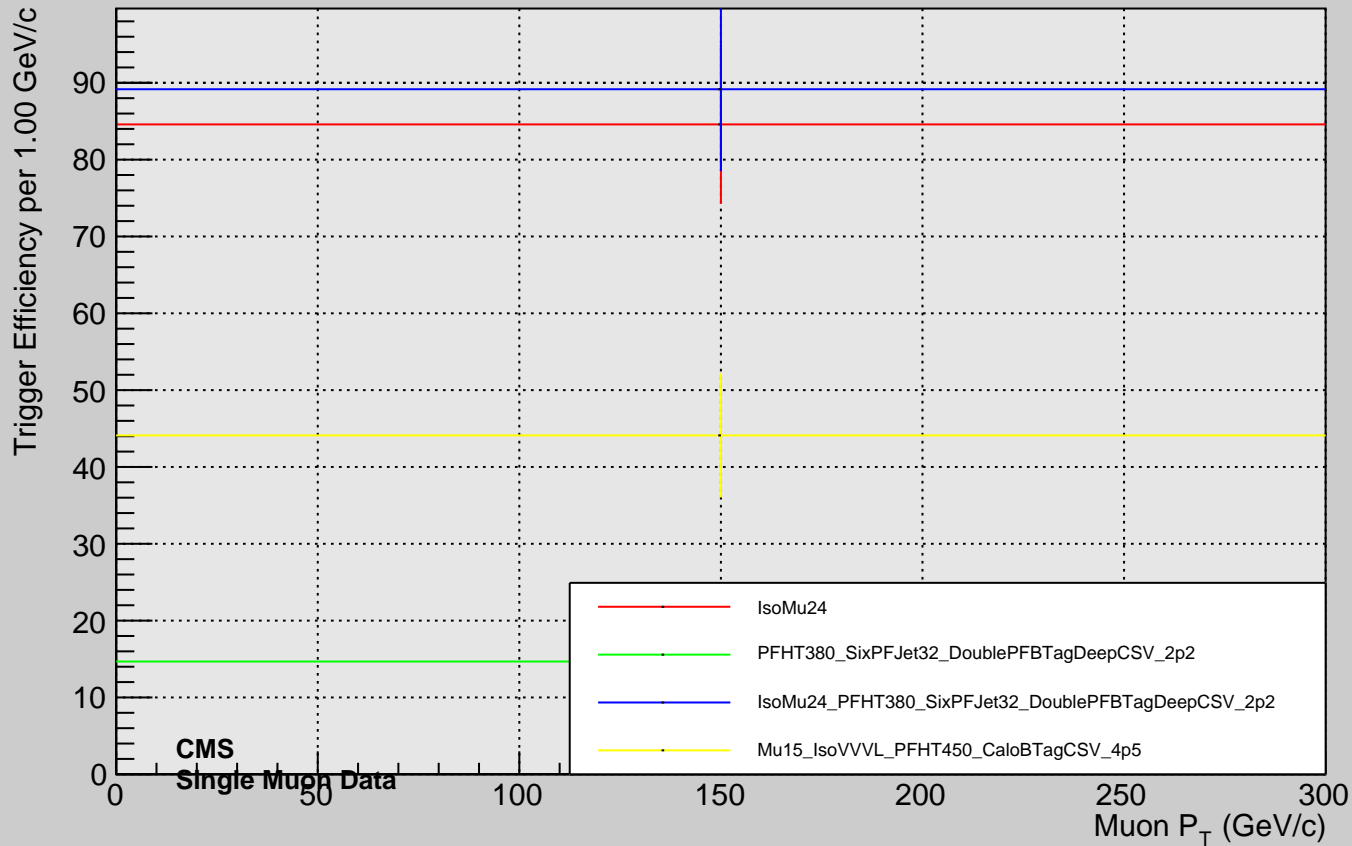
Number of Events per 1 GeV/c



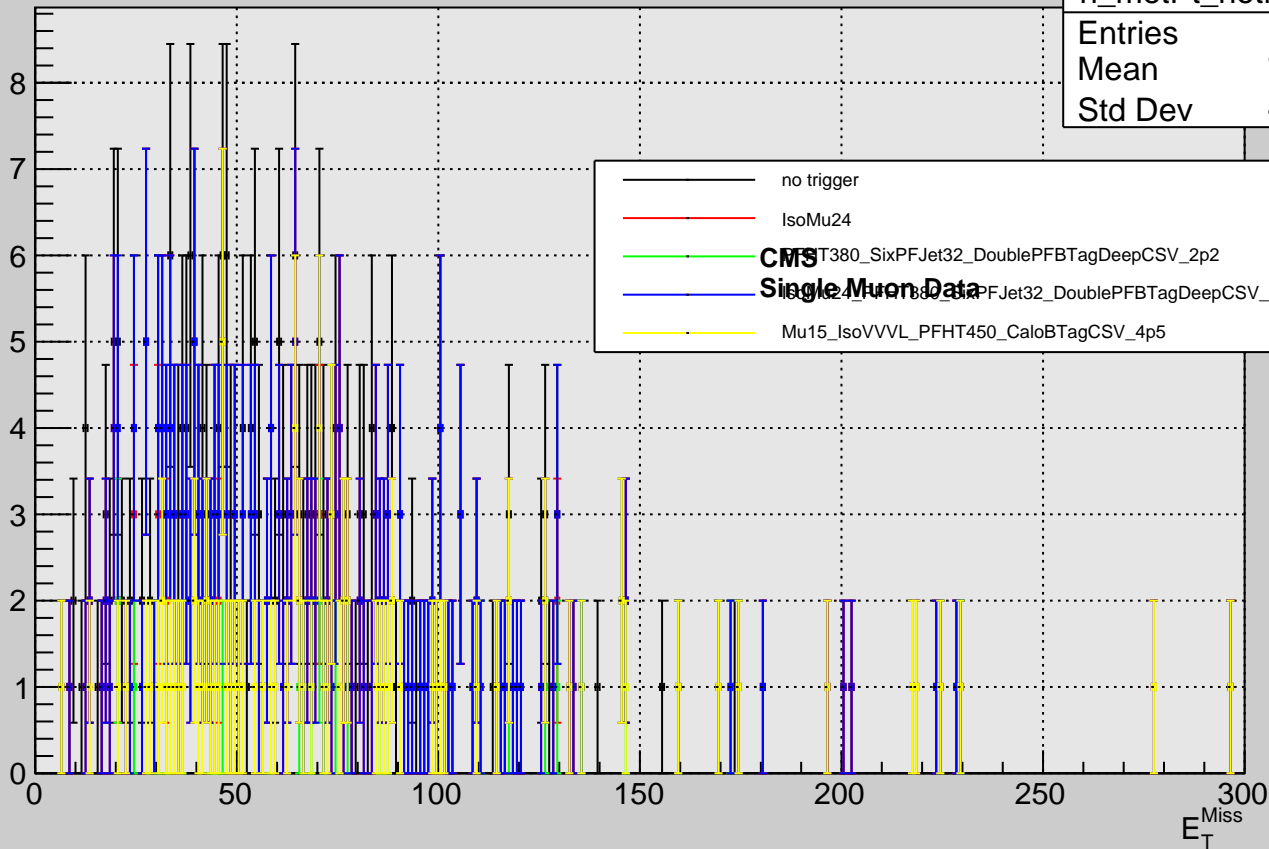
Number of Events per 1 GeV/c





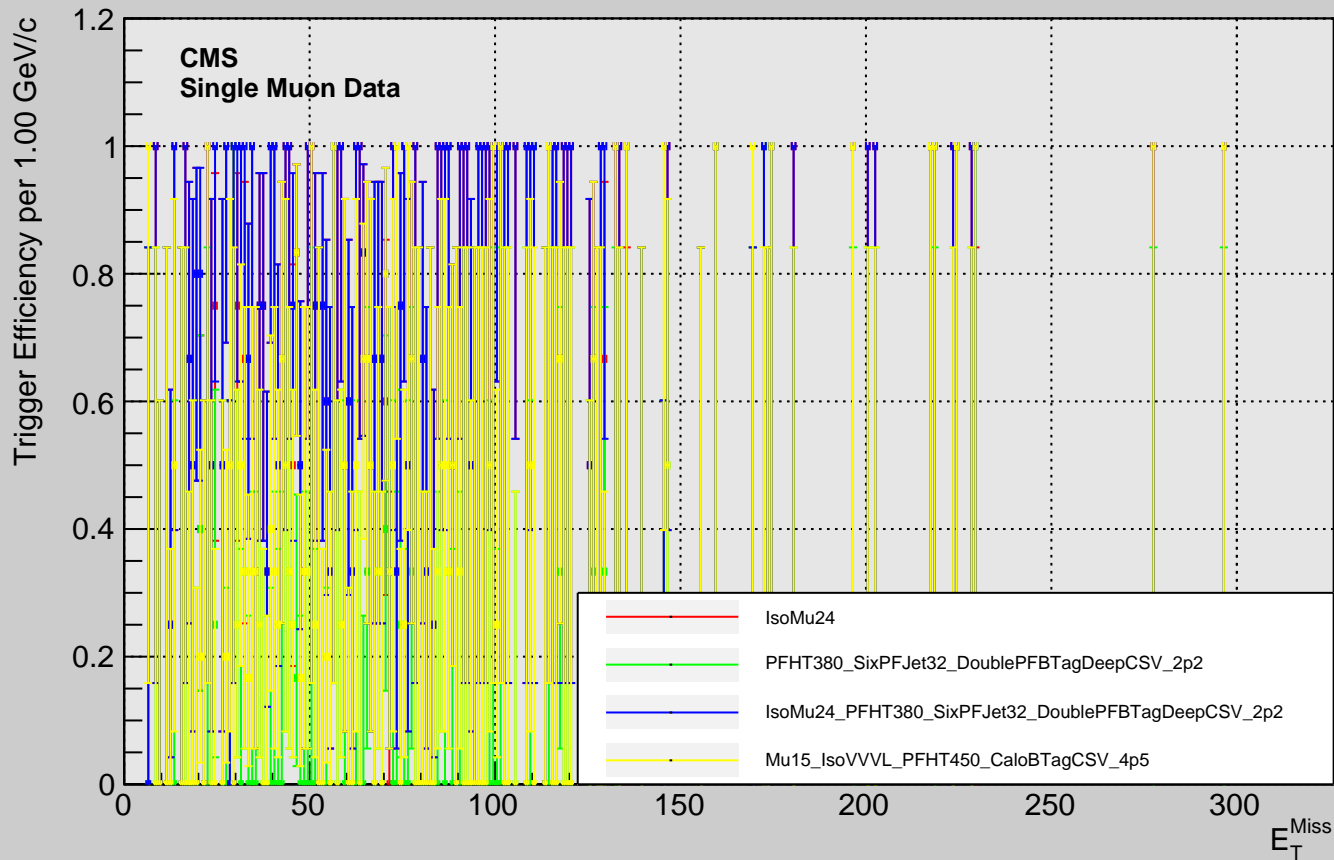


Number of Events per 1 GeV/c

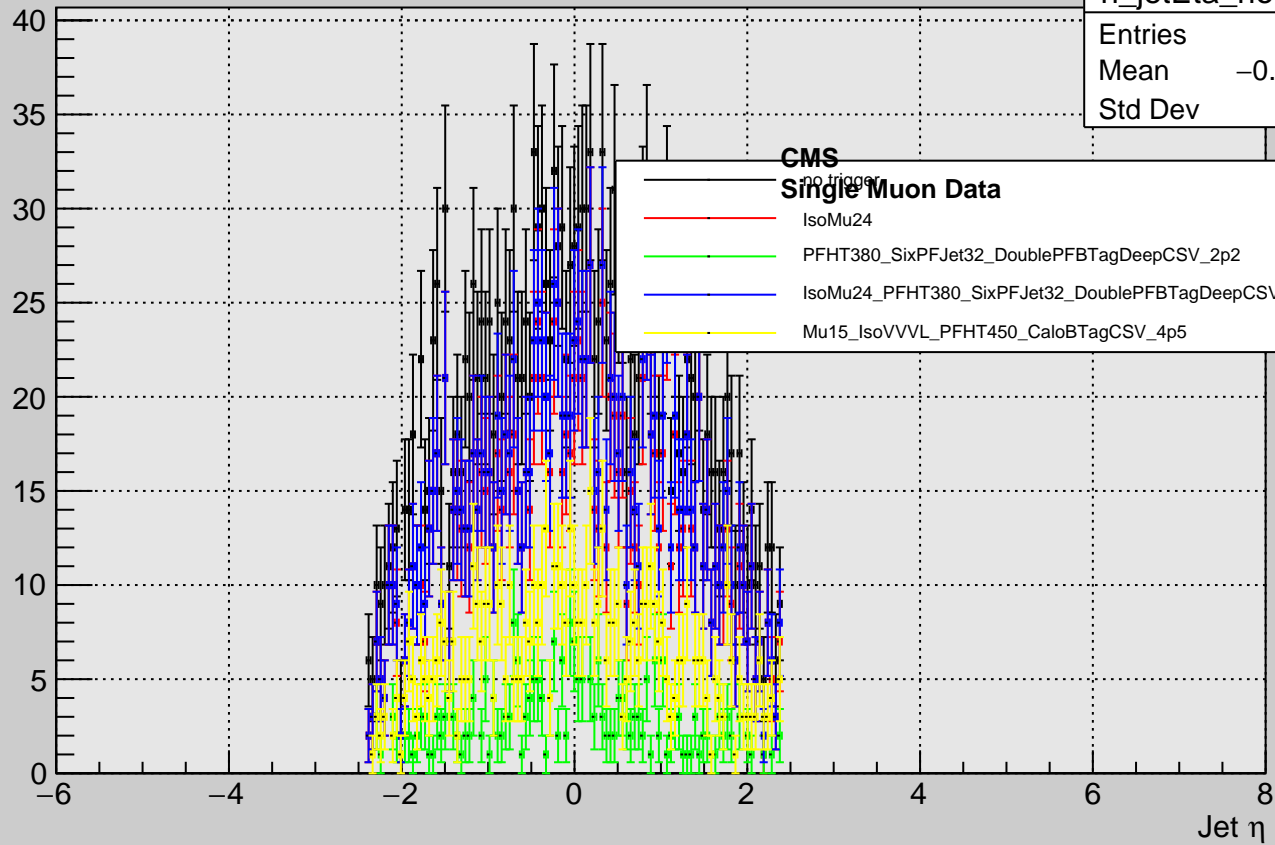


h_metPt_notrigger	
Entries	315
Mean	70.22
Std Dev	46.72

- no trigger
- IsoMu24
- CMS Single Muon Data
- IsoMu24+IsoElectron+PFJet32\_DoublePFBTagDeepCSV\_2p2
- Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5



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



h\_jetEta\_notrigger

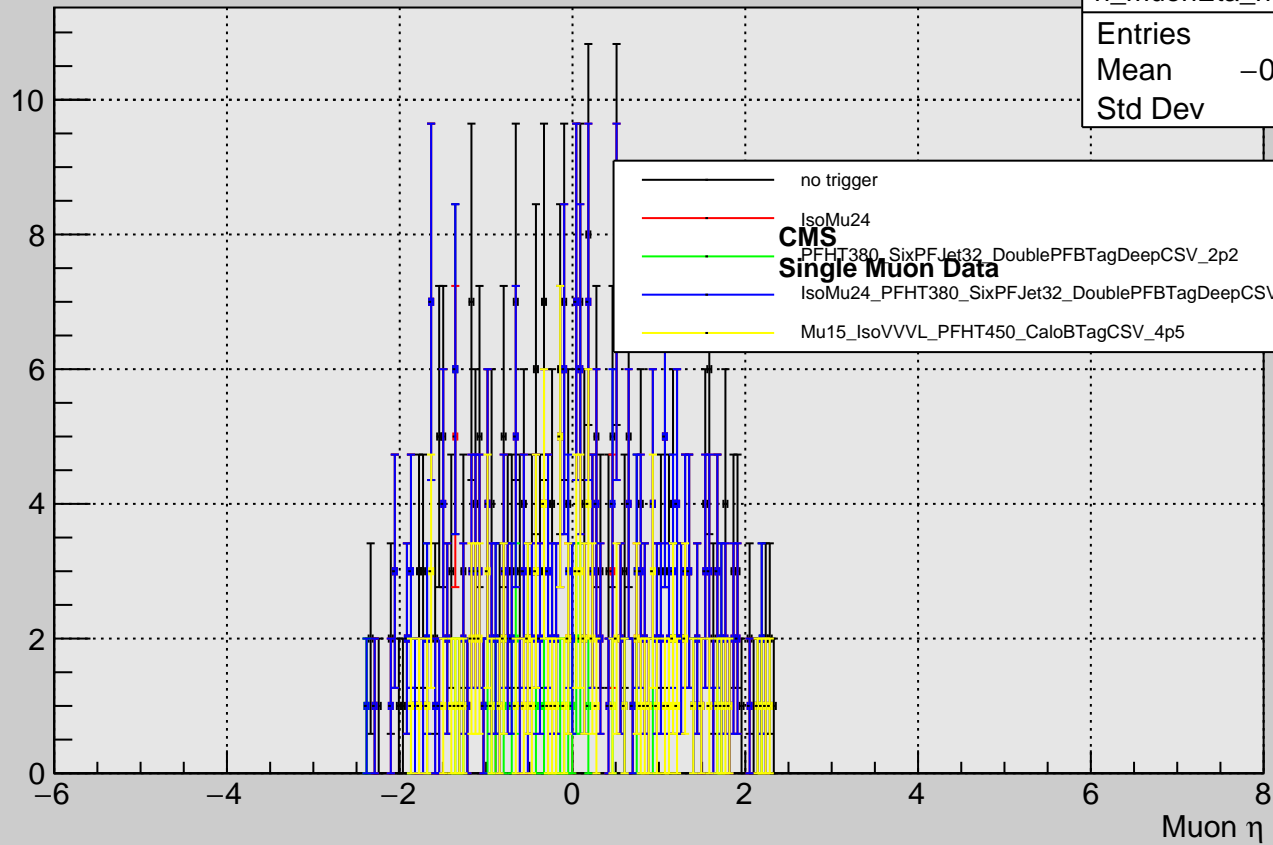
Entries 2040

Mean -0.005954

Std Dev 1.182



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



h\_muonEta\_notrigger

Entries 315

Mean -0.05305

Std Dev 1.169

