

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

CMS

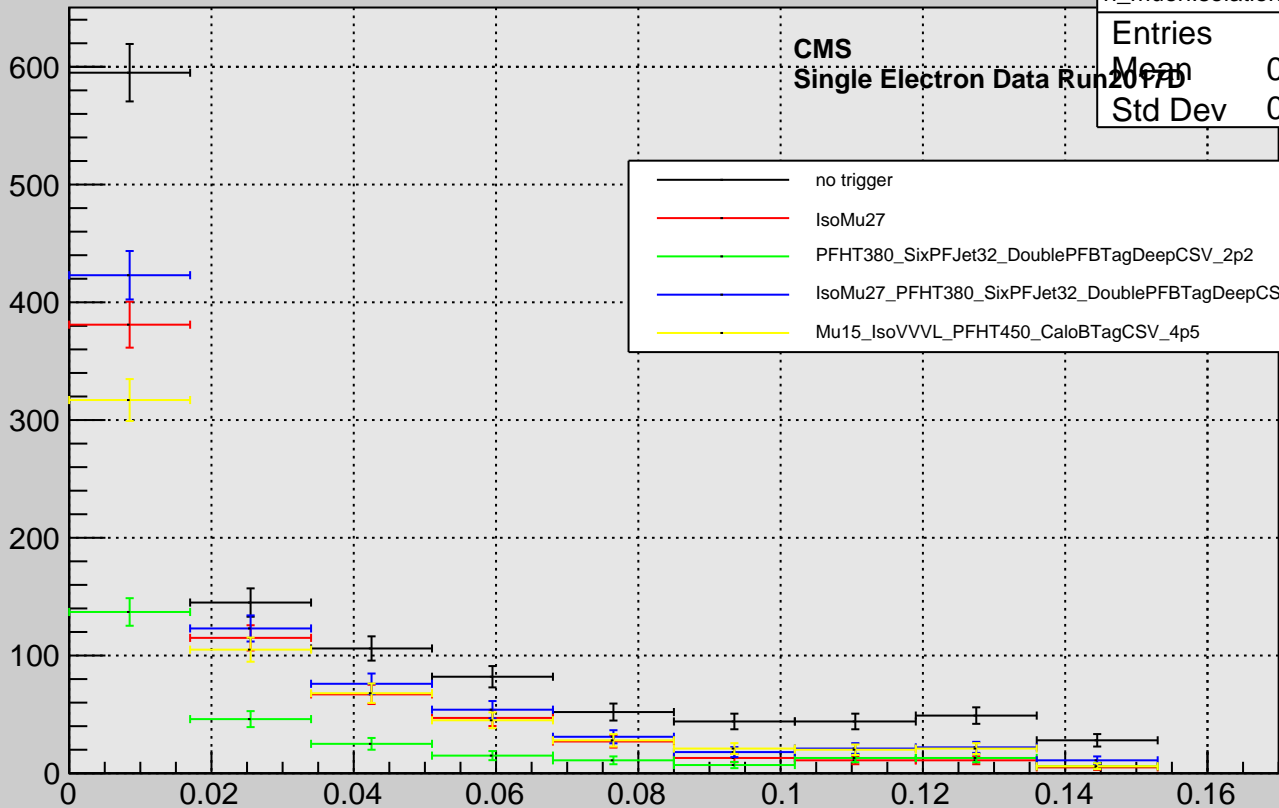
Single Electron Data Run2017

h_muonIsolation_nottrigger

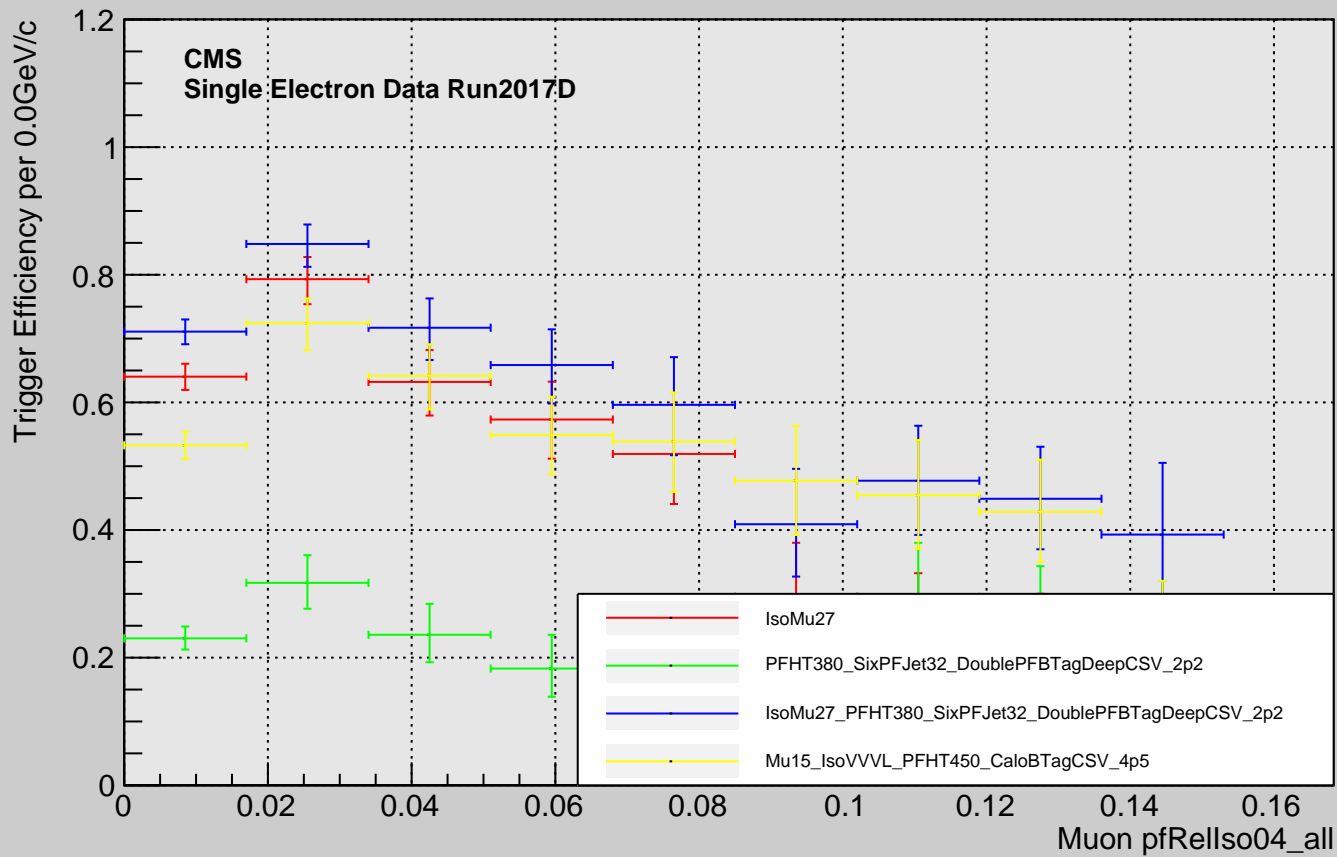
Entries 1145

Mean 0.03318

Std Dev 0.04077

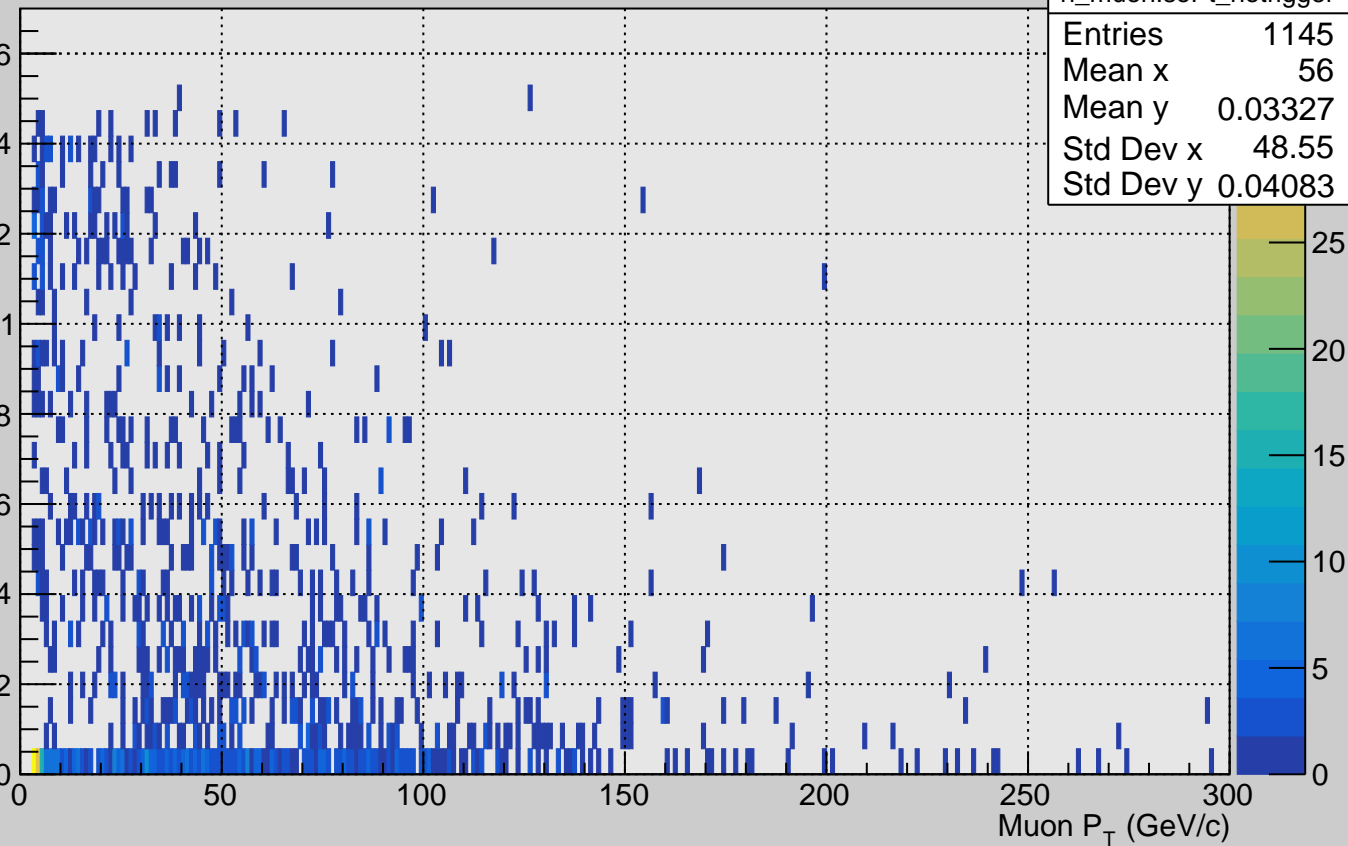


Muon pfRelIso04_all



Muon pfRelIso04_all

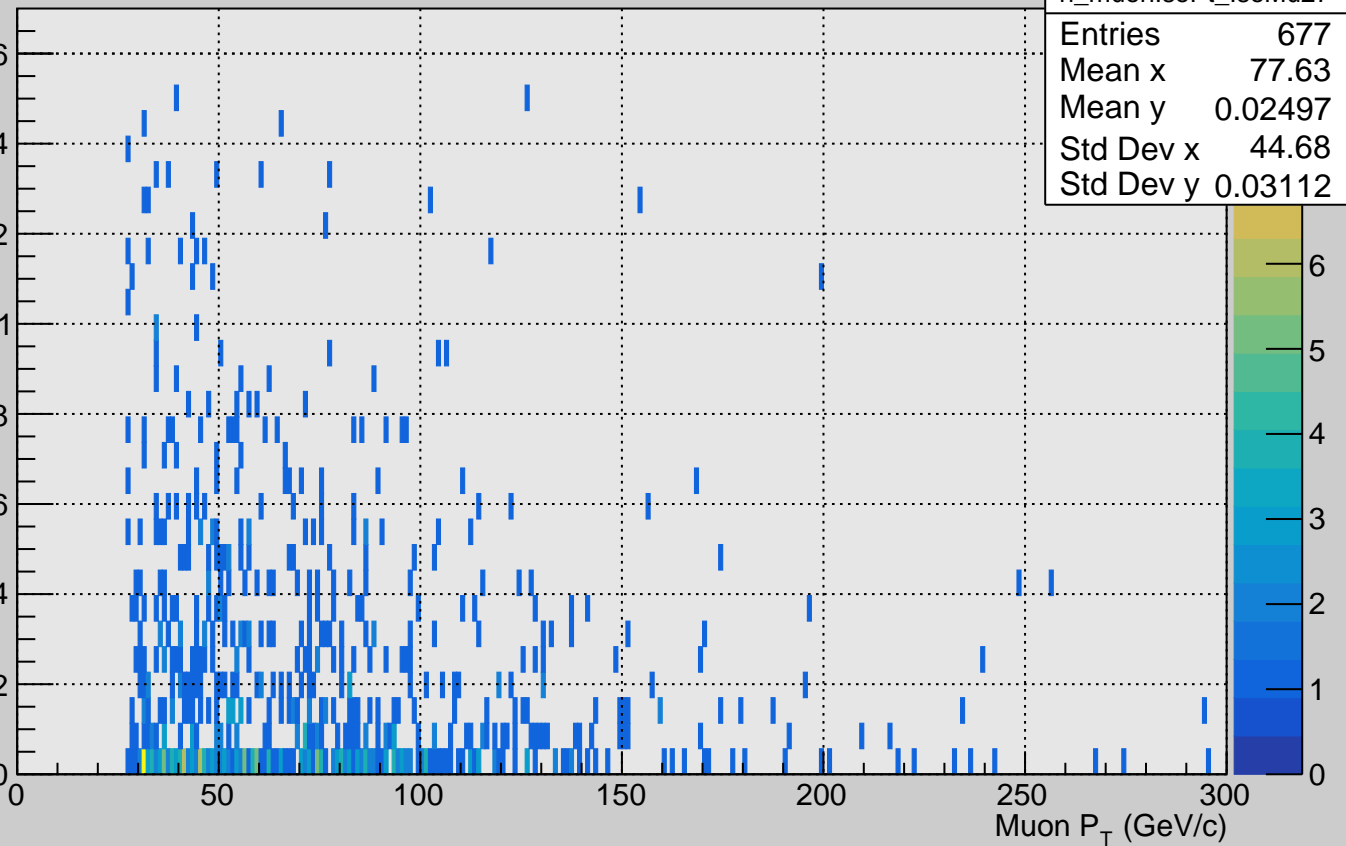
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0



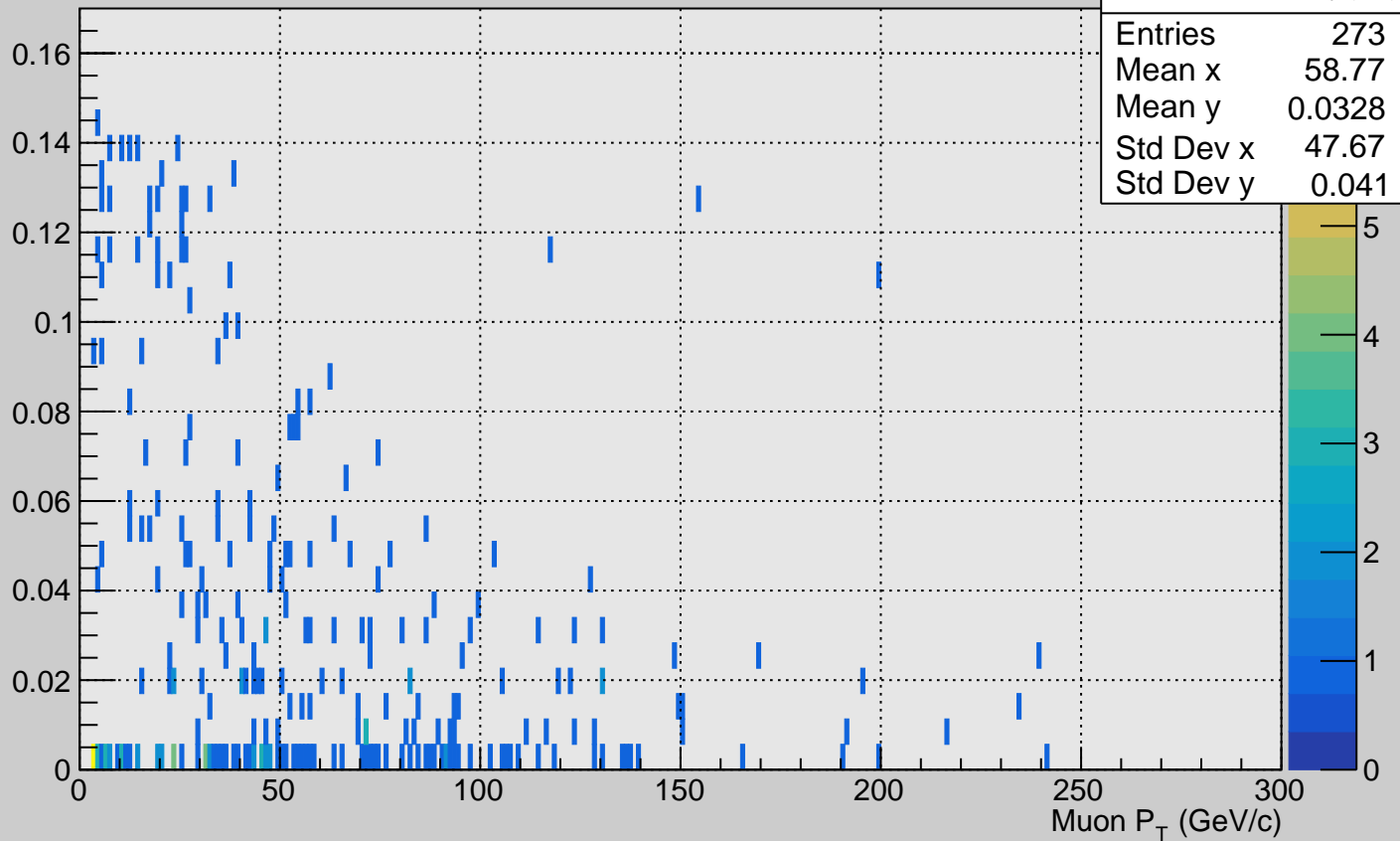
Muon pfRelIso04_all

0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

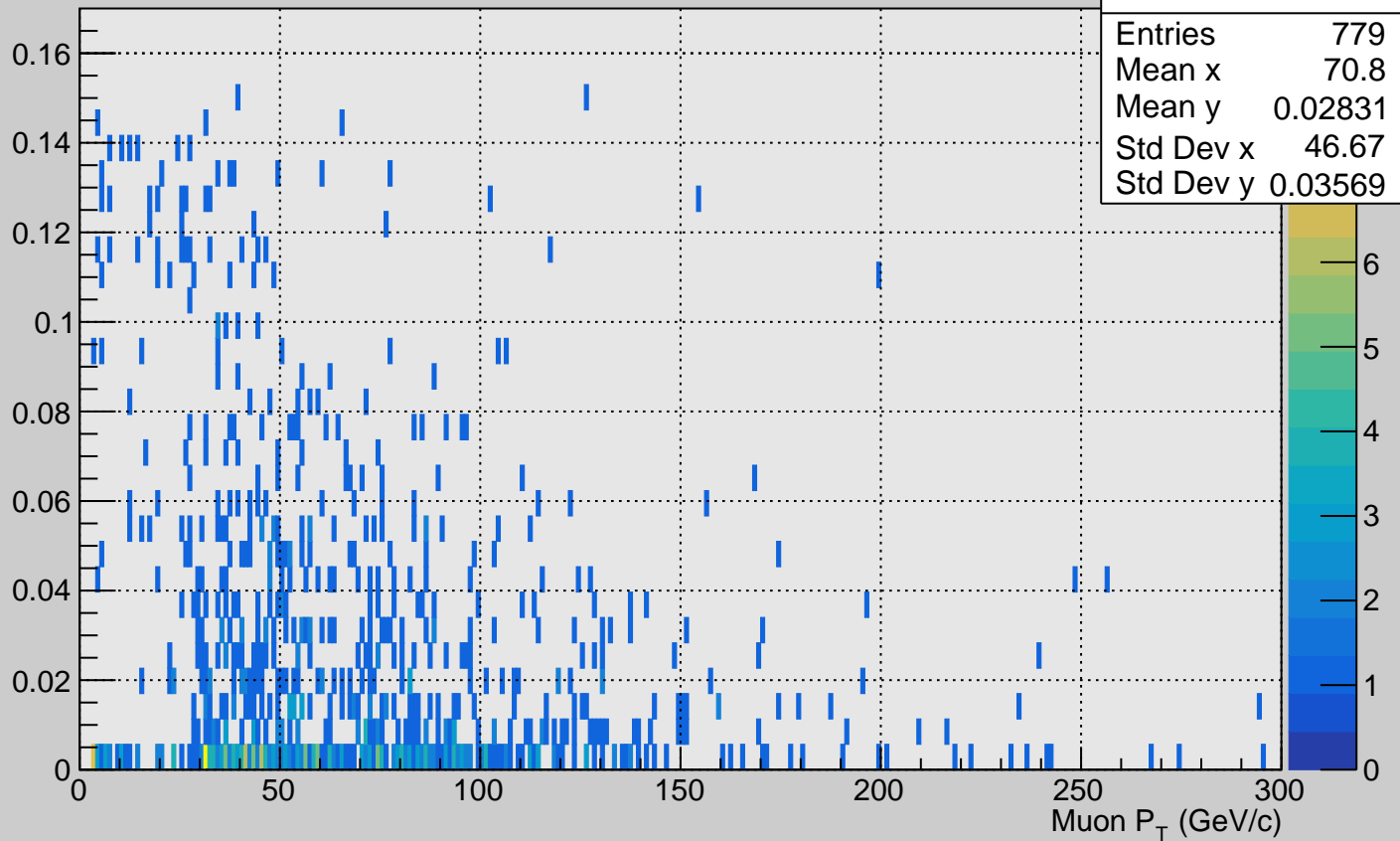
h_muonIsoPt_IsoMu27	
Entries	677
Mean x	77.63
Mean y	0.02497
Std Dev x	44.68
Std Dev y	0.03112



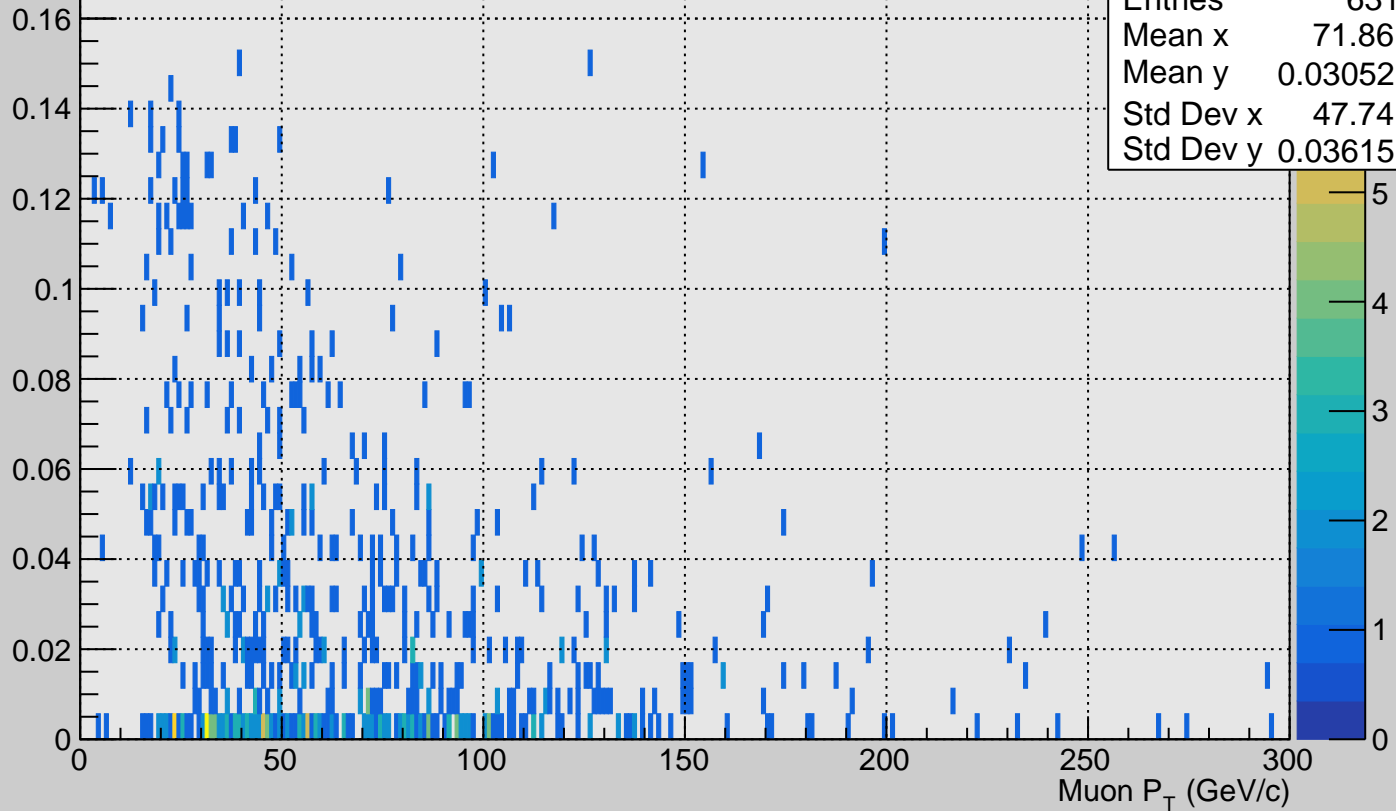
Muon pfRelIso04_all



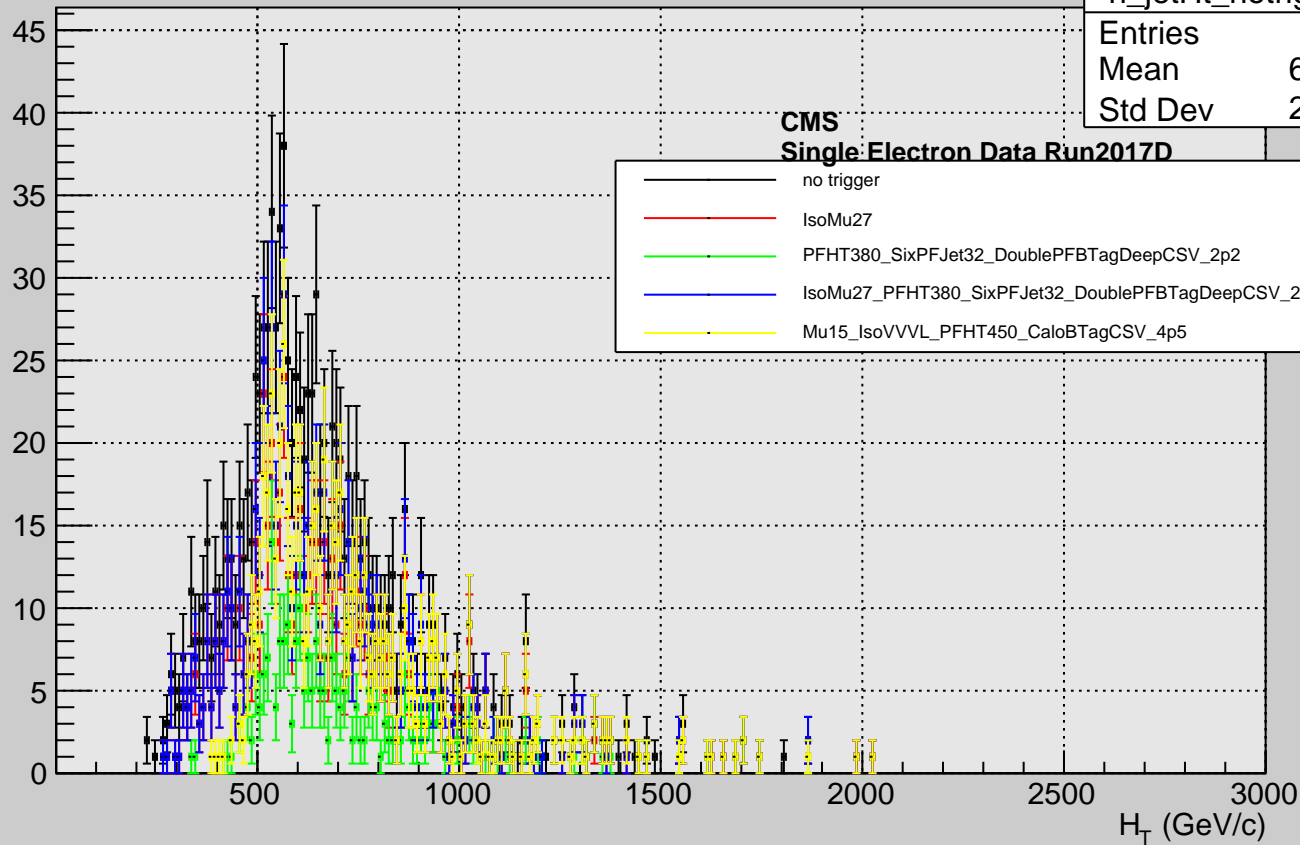
Muon pRelIso04_all



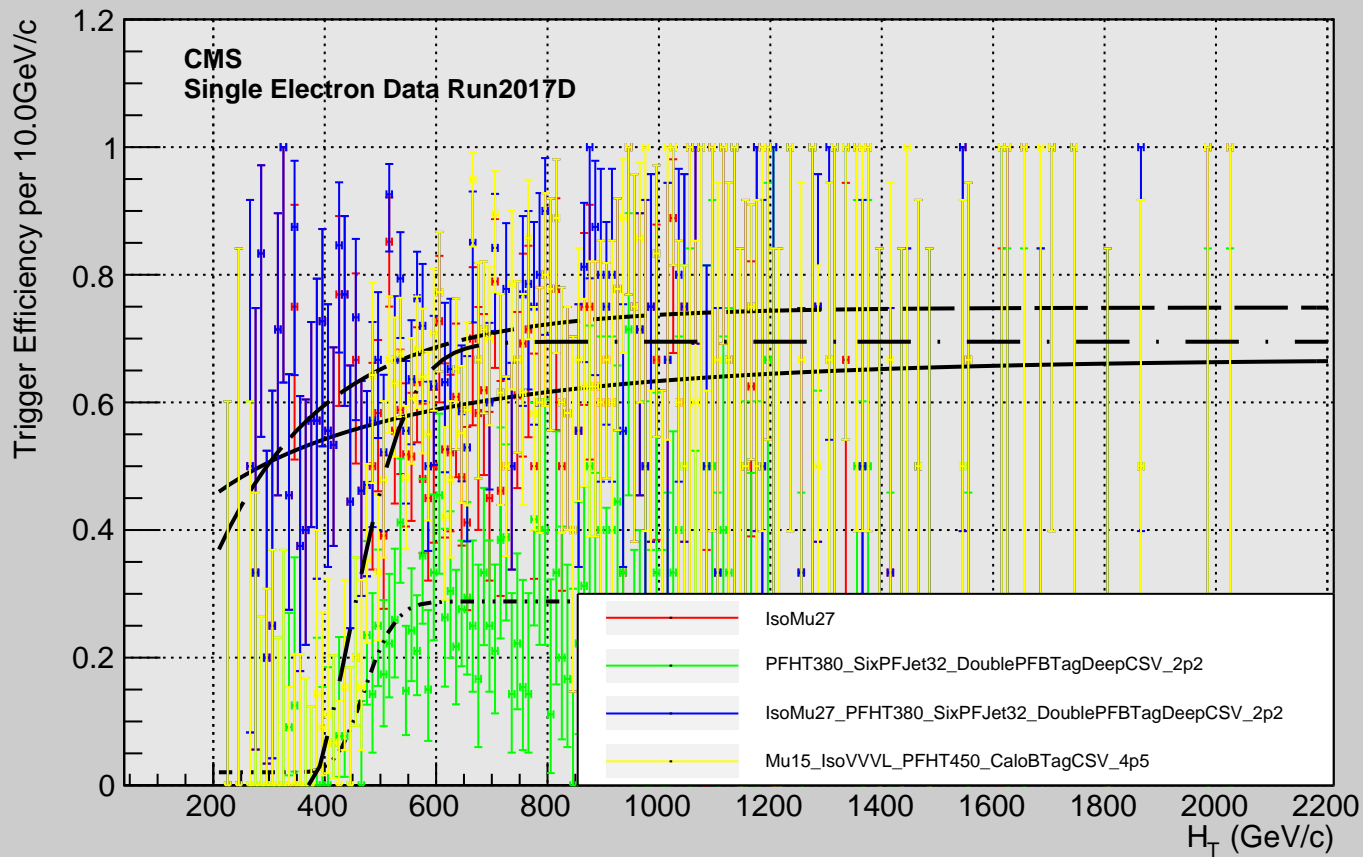
Muon pfRelIso04_all

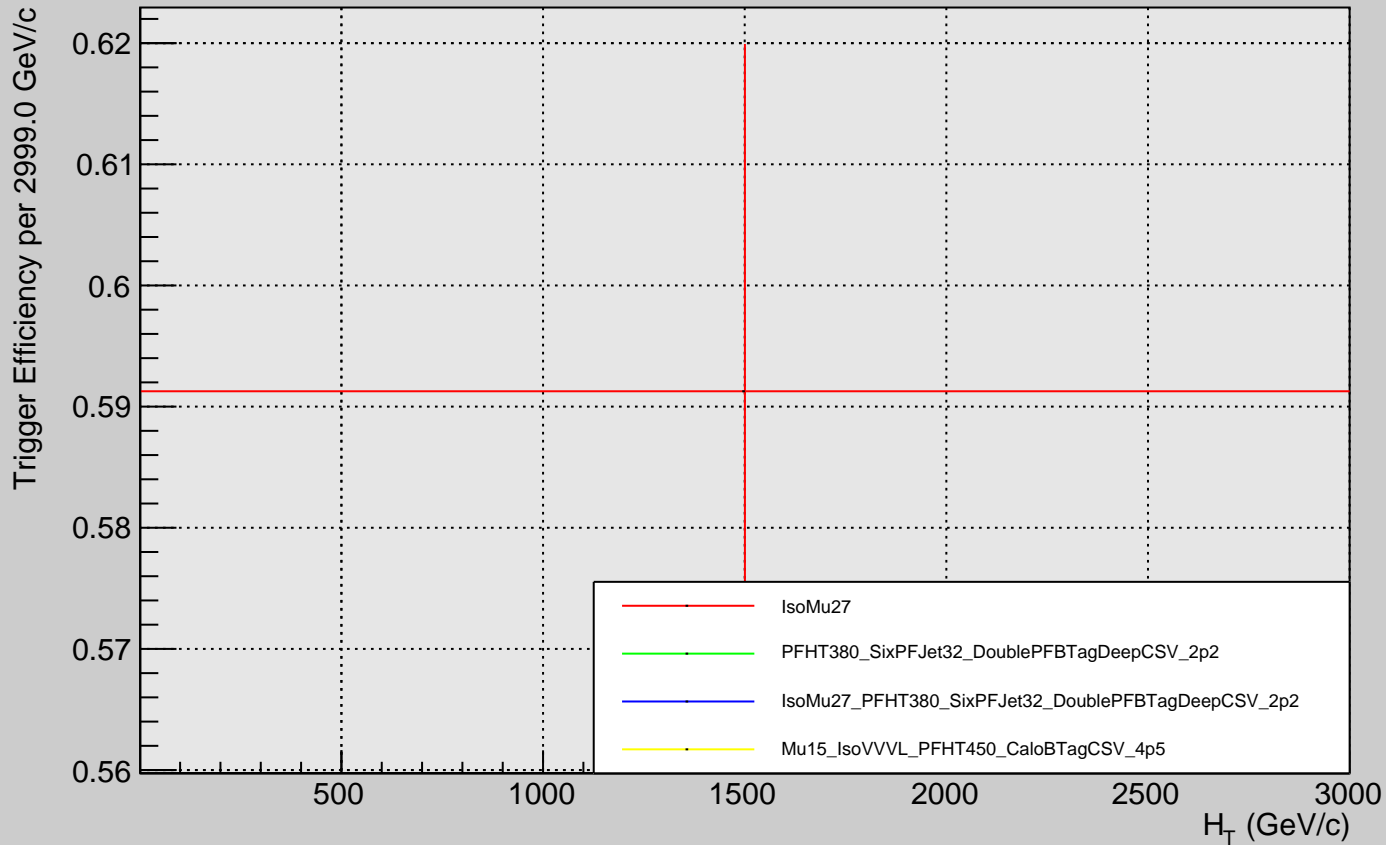


Number of Events per 10 GeV/c

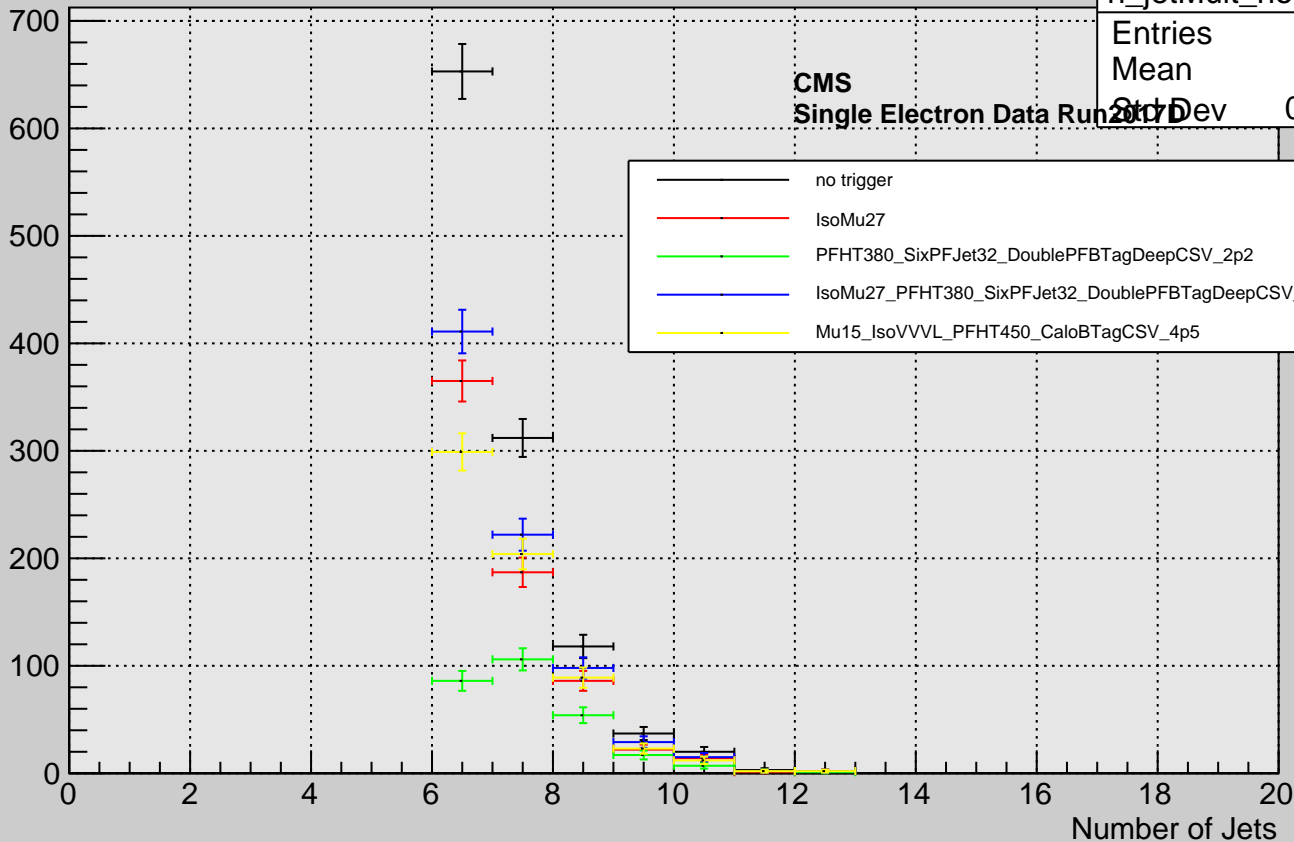


h_jetHt_notrigger	
Entries	1145
Mean	680.4
Std Dev	259.7

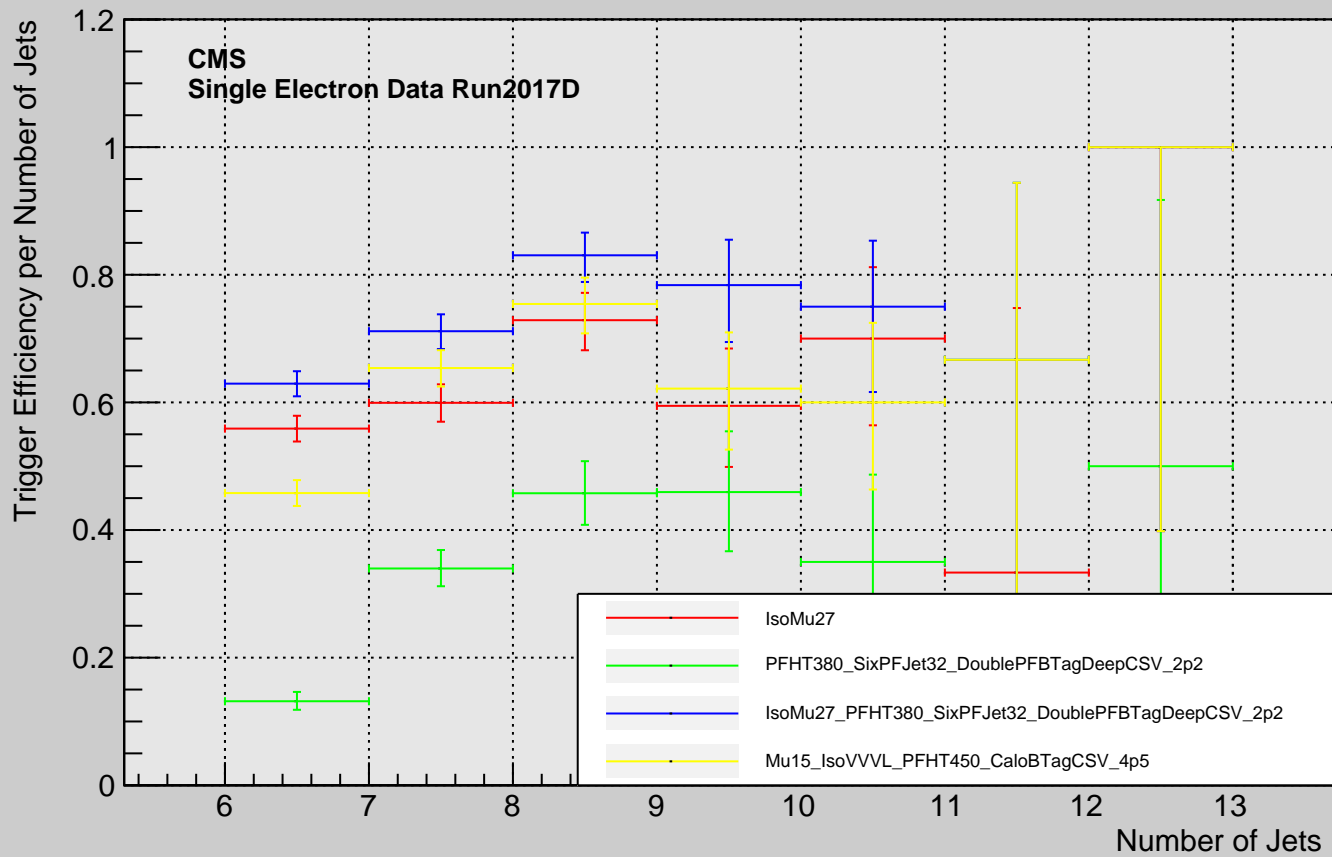




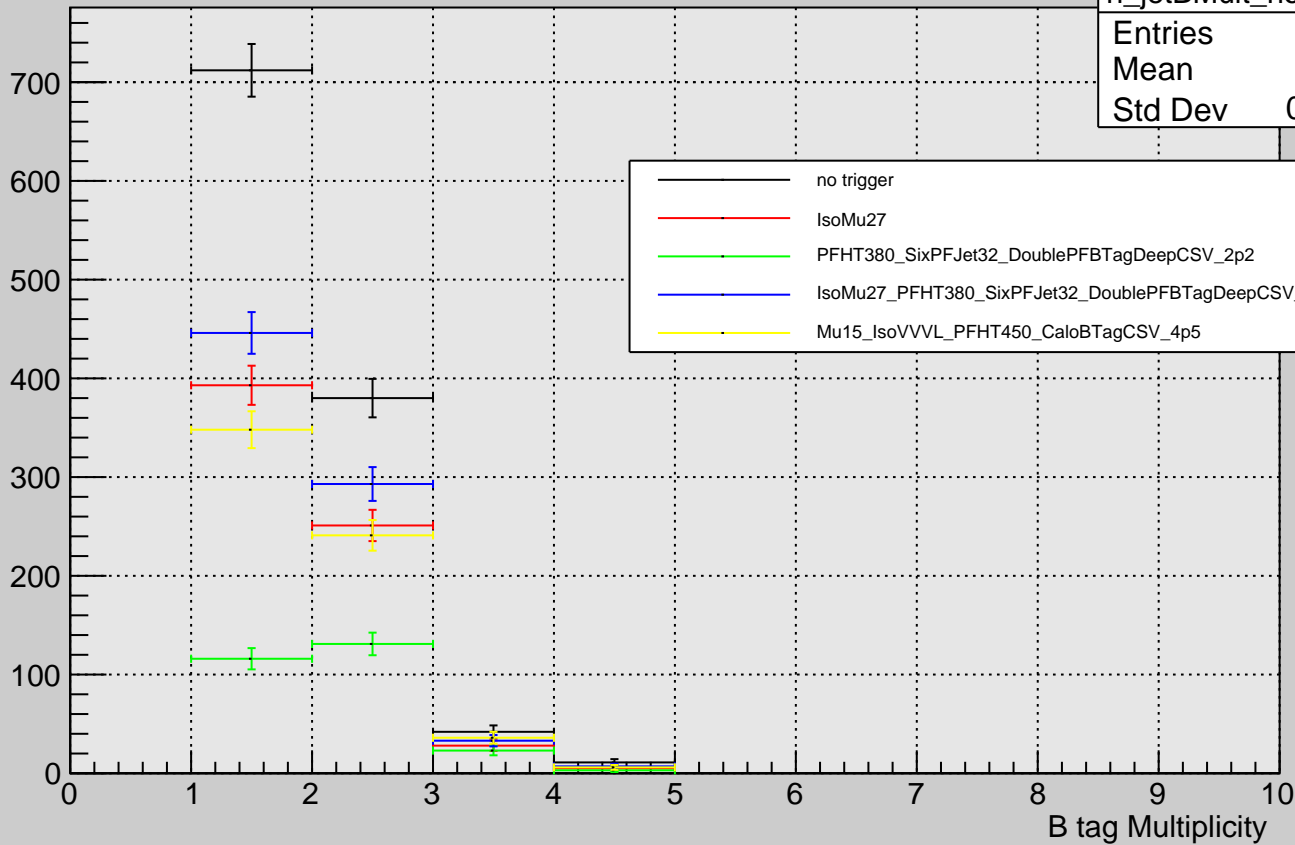
Number of Events per Number of Jets



h_jetMult_notrigger	
Entries	1145
Mean	6.669
Std Dev	0.9674



Number of Events per Number of Jets



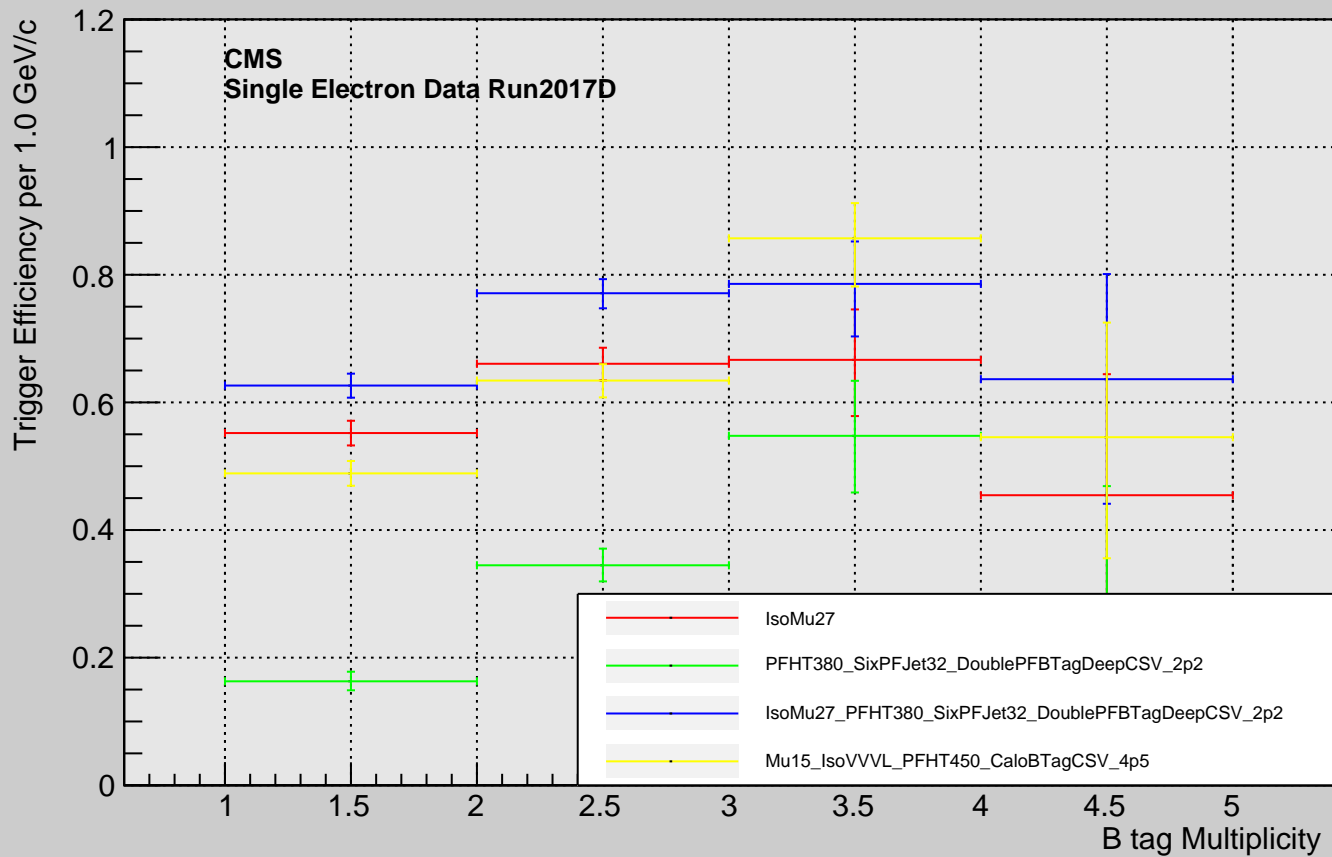
h_jetBMult_notrigger

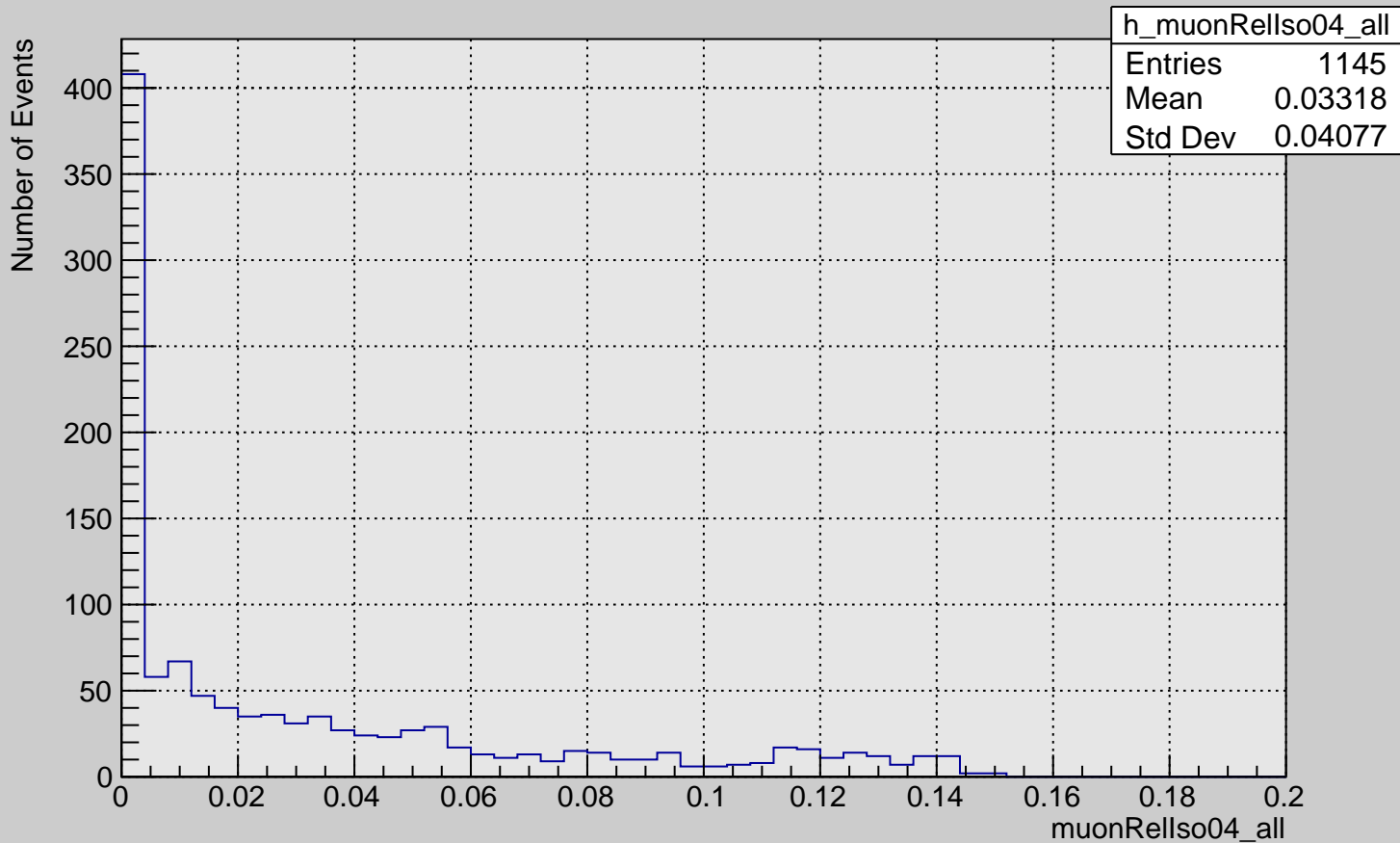
Entries 1145

Mean 1.934

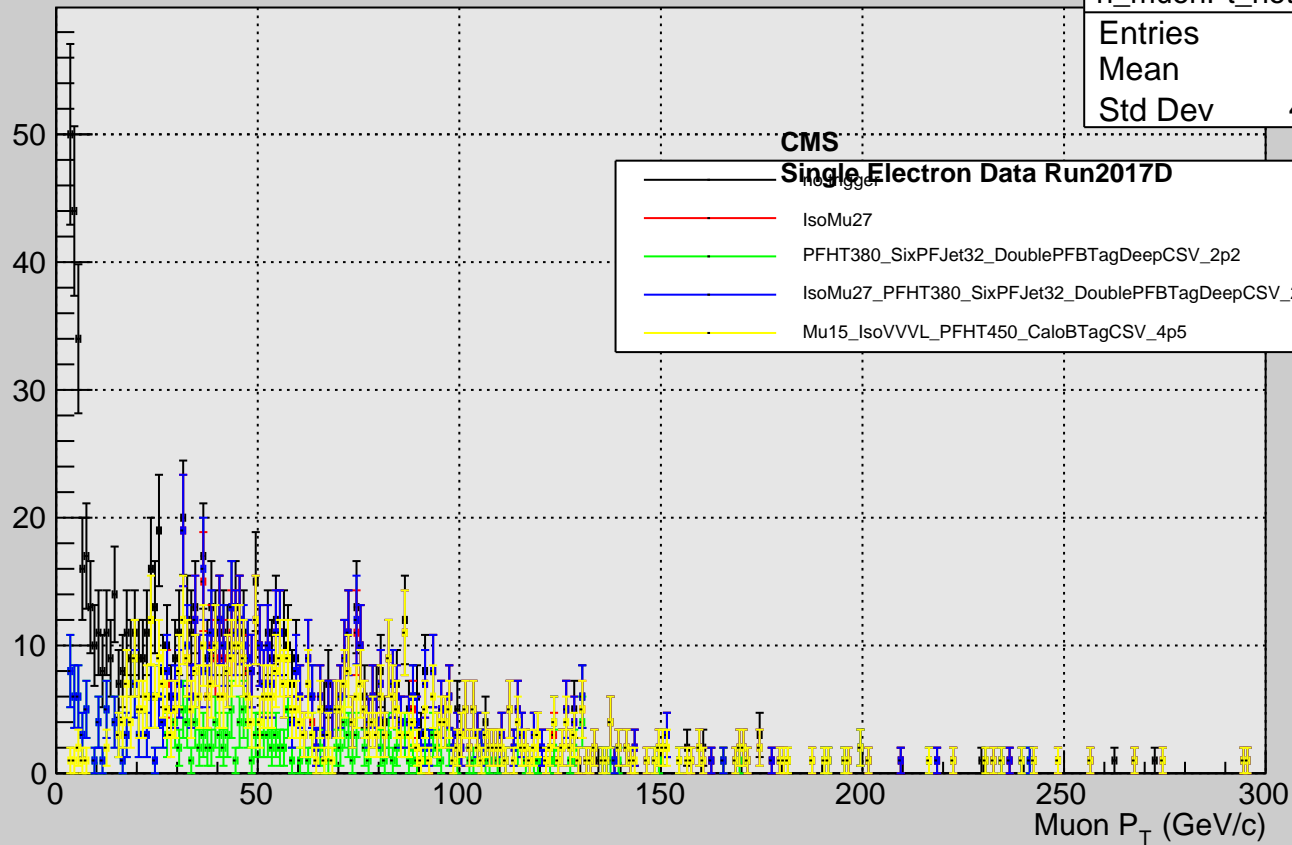
Std Dev 0.6137

- no trigger
- IsoMu27
- PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- IsoMu27_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- Mu15_IsoVVL_PFHT450_CaloBTagCSV_4p5





Number of Events per 1 GeV/c



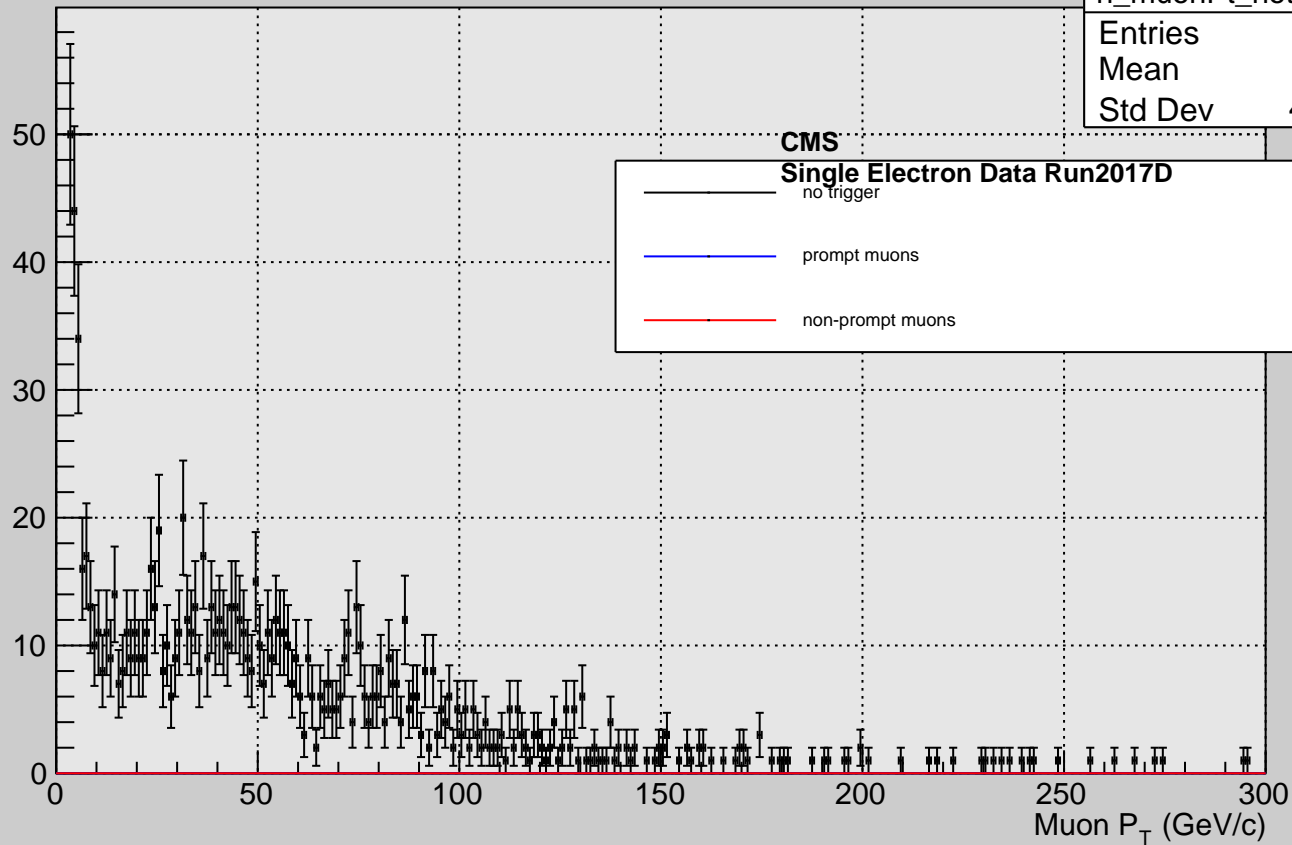
h_muonPt_notrigger

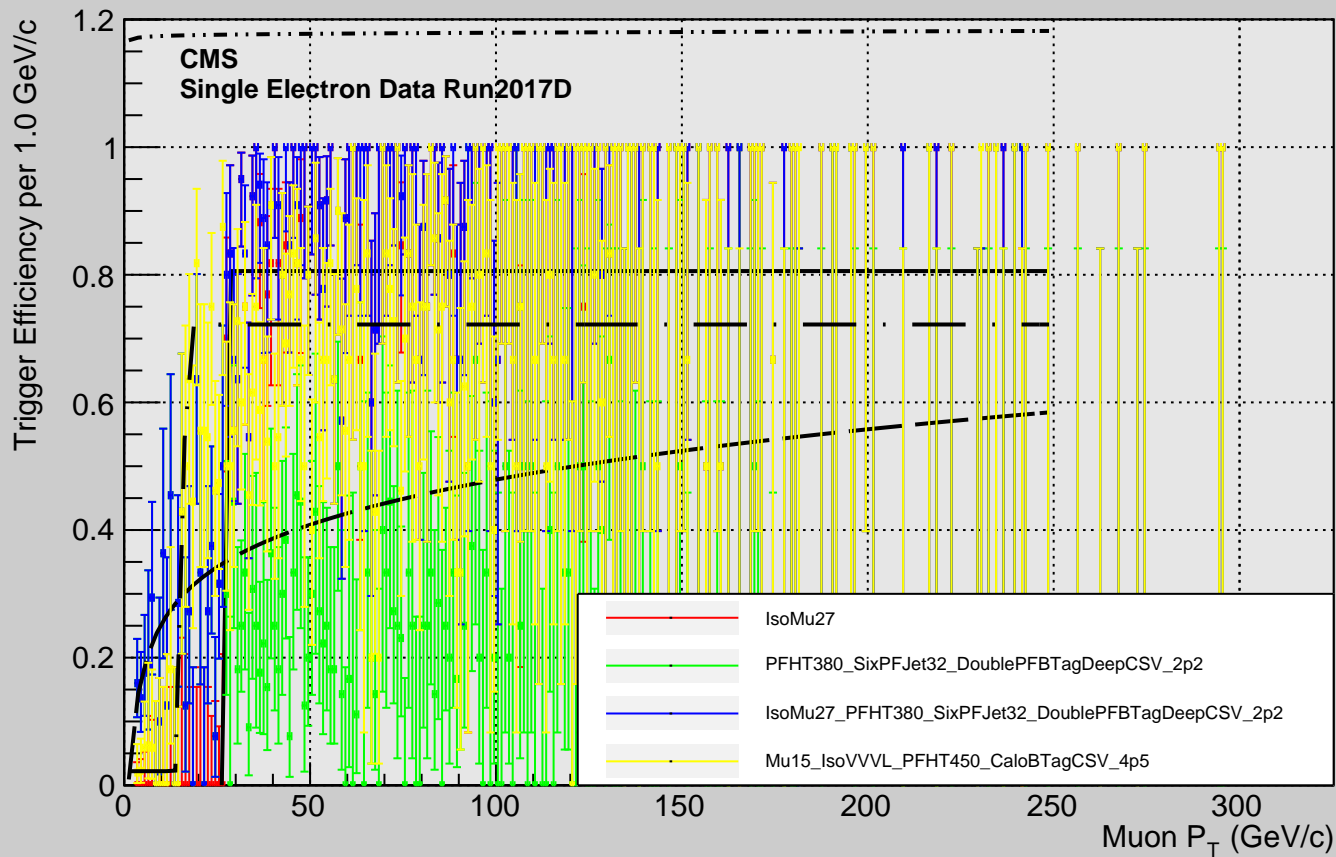
Entries 1145

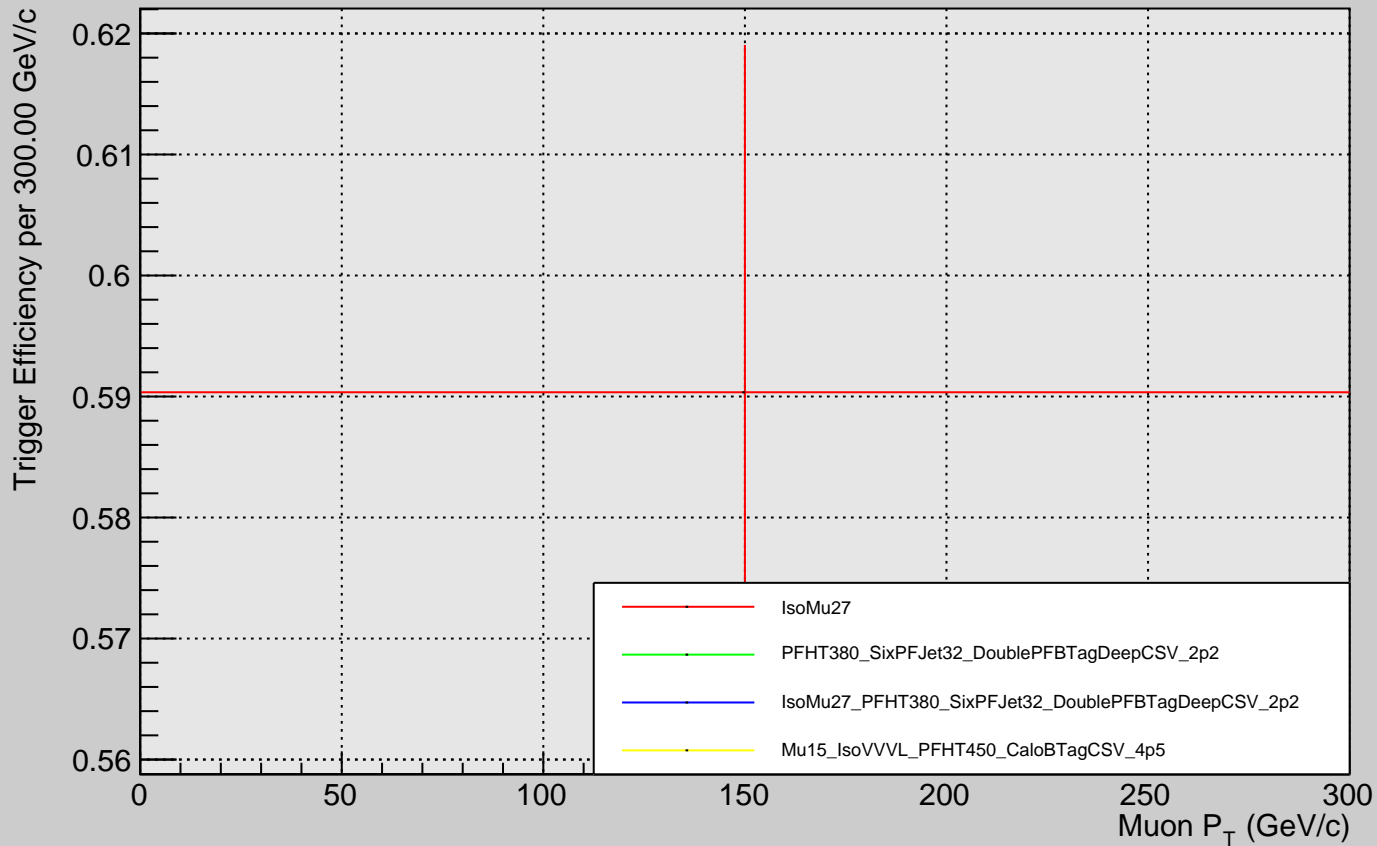
Mean 56

Std Dev 48.55

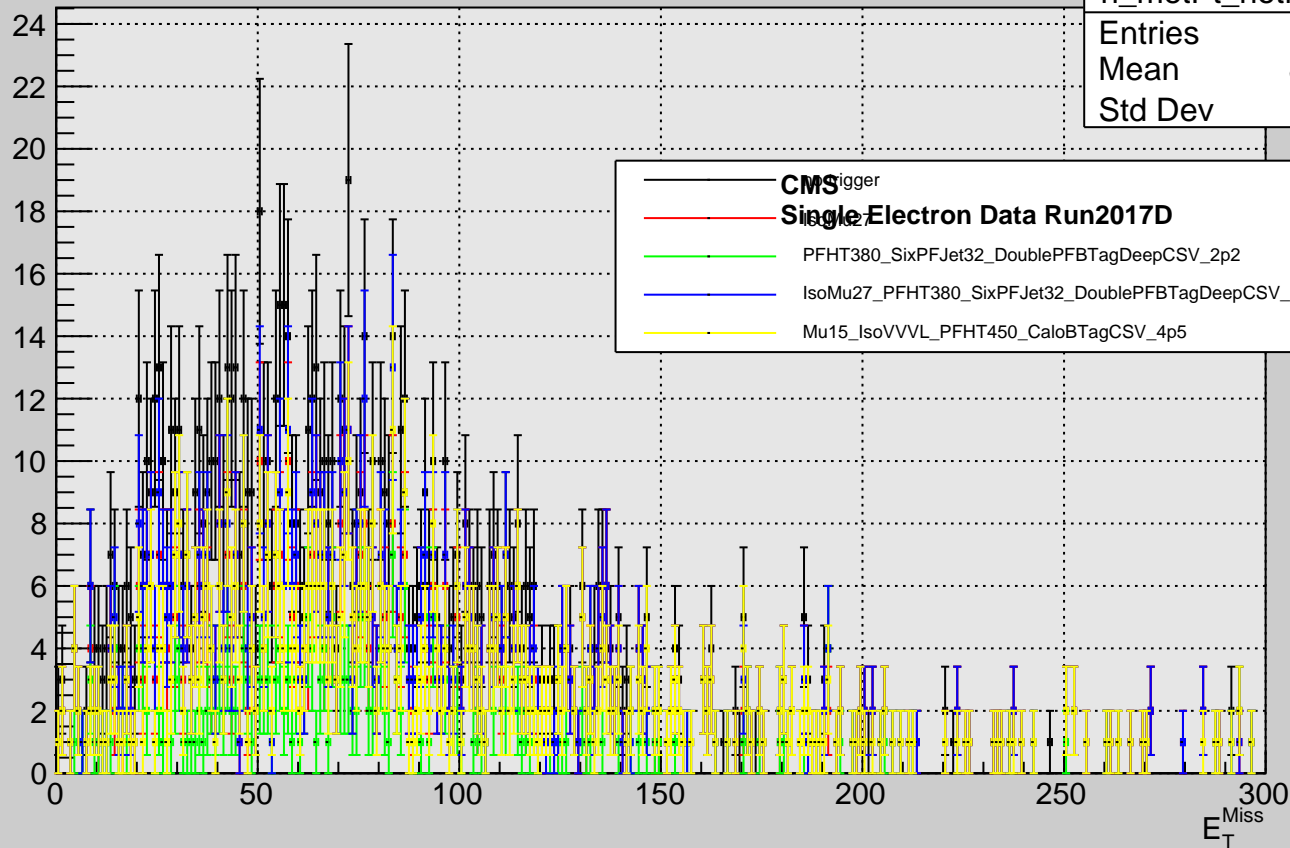
Number of Events per 1 GeV/c

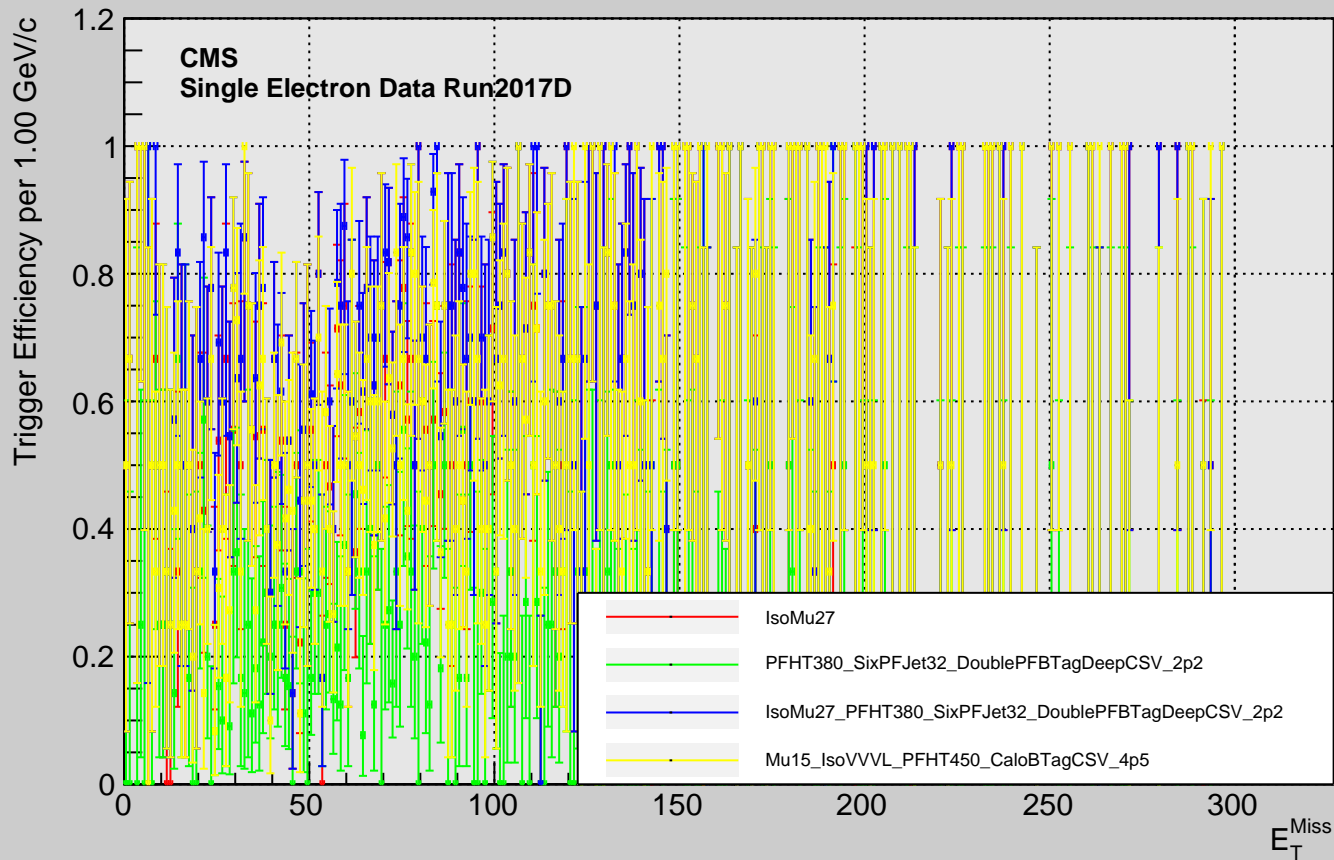




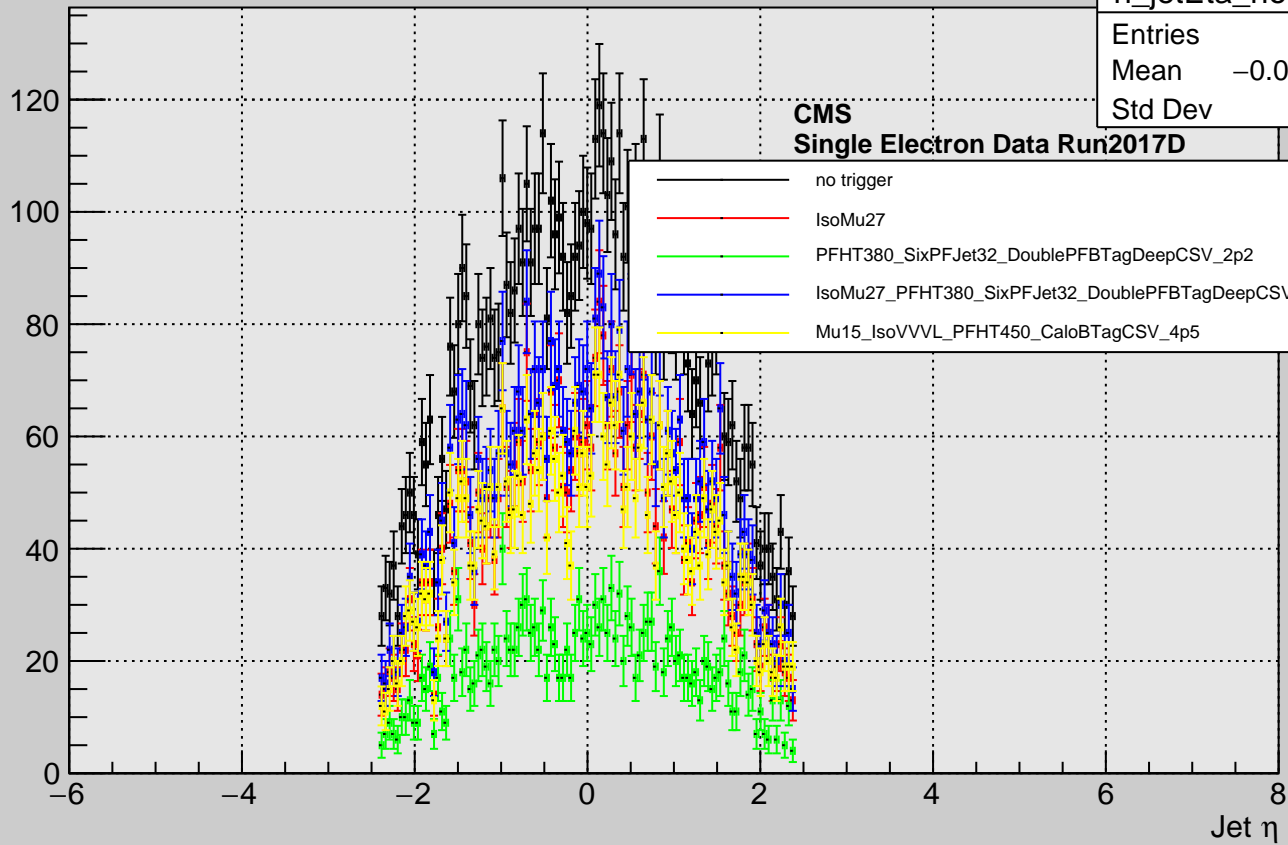


Number of Events per 1 GeV/c





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



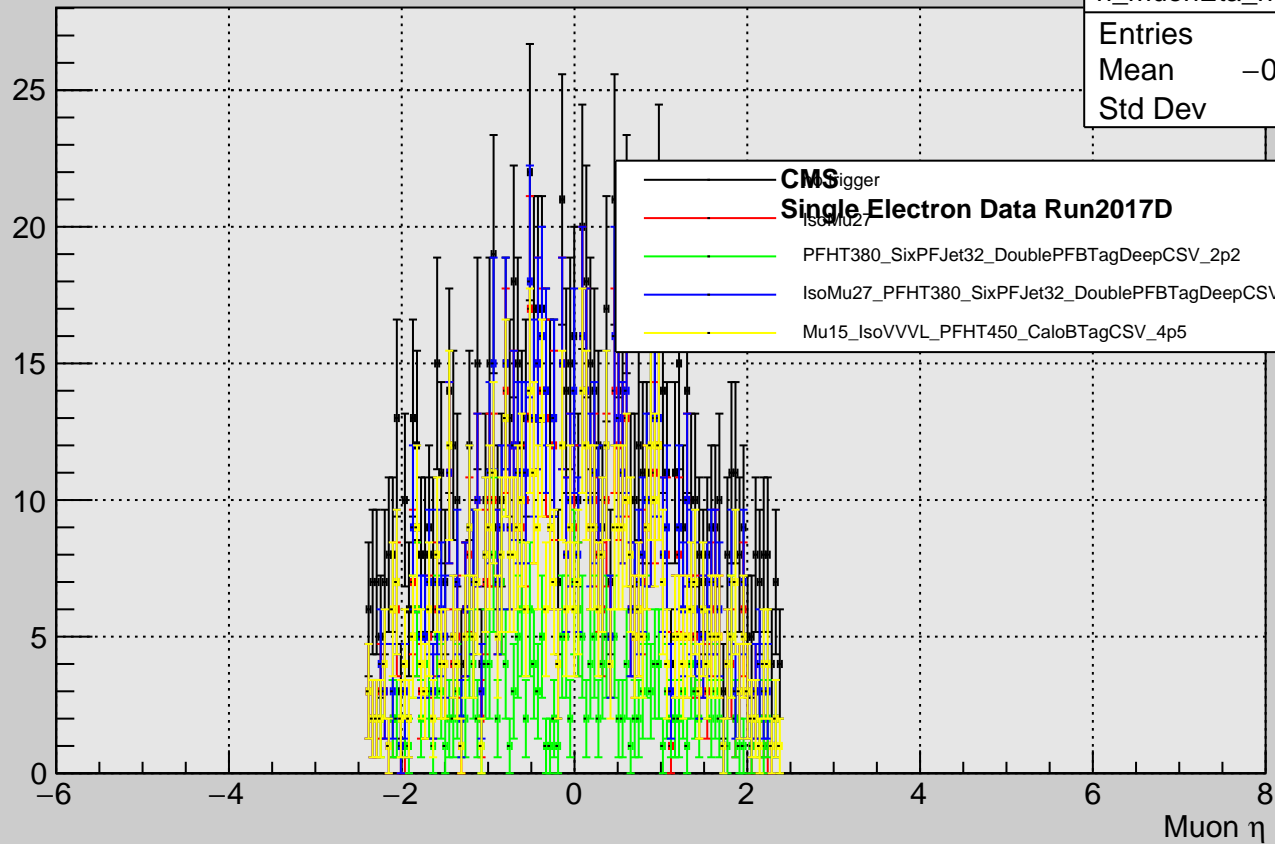
h_jetEta_notrigger

Entries 7636

Mean -0.0008626

Std Dev 1.18

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



h_muonEta_nottrigger

Entries 1145

Mean -0.03065

Std Dev 1.217

