

On-line (pre-)selection Requisites for:

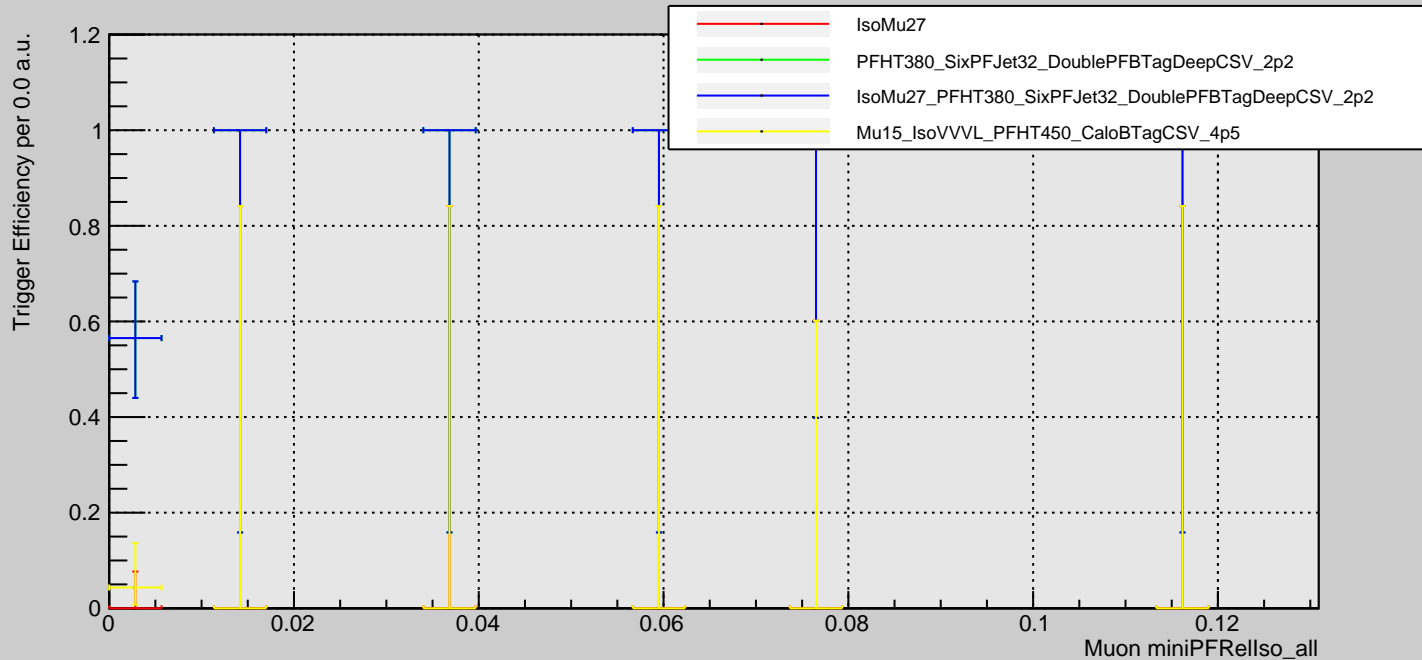
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

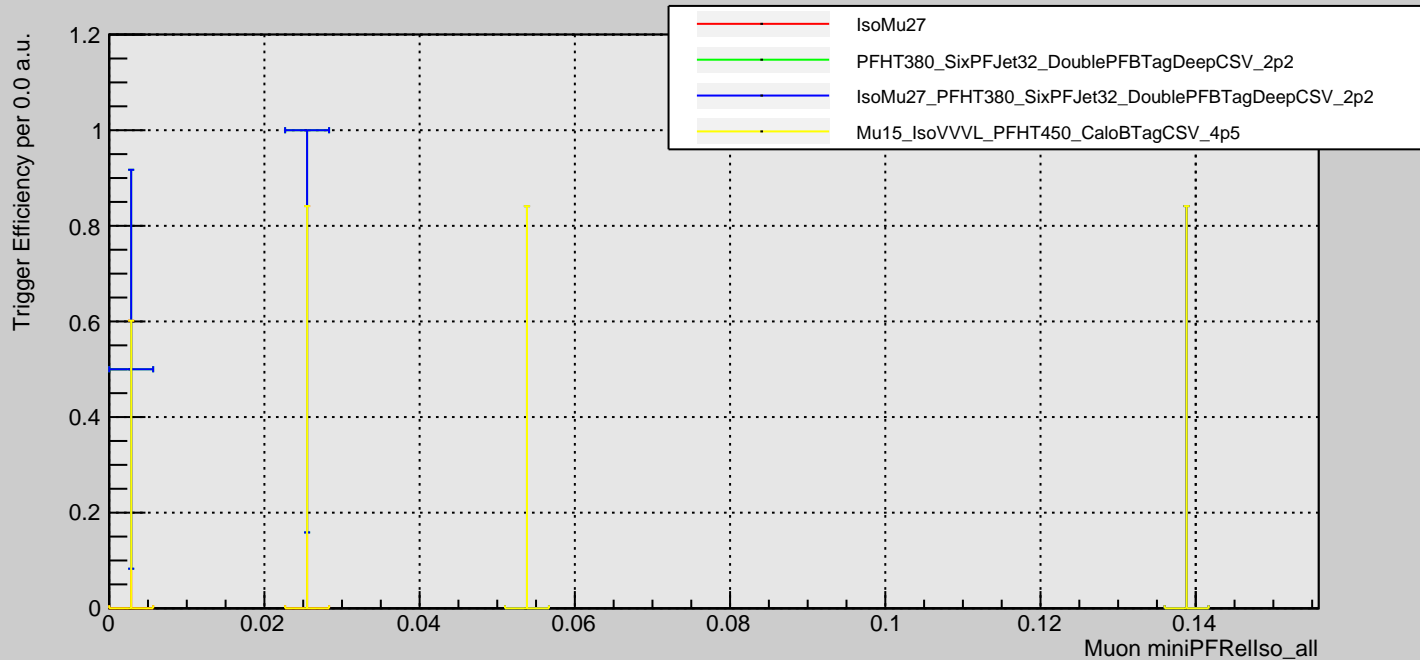
Off-line (post-)selection Requisites for:

- **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 $\text{PFRelIso_all} < 0.15$ (for at least 1)

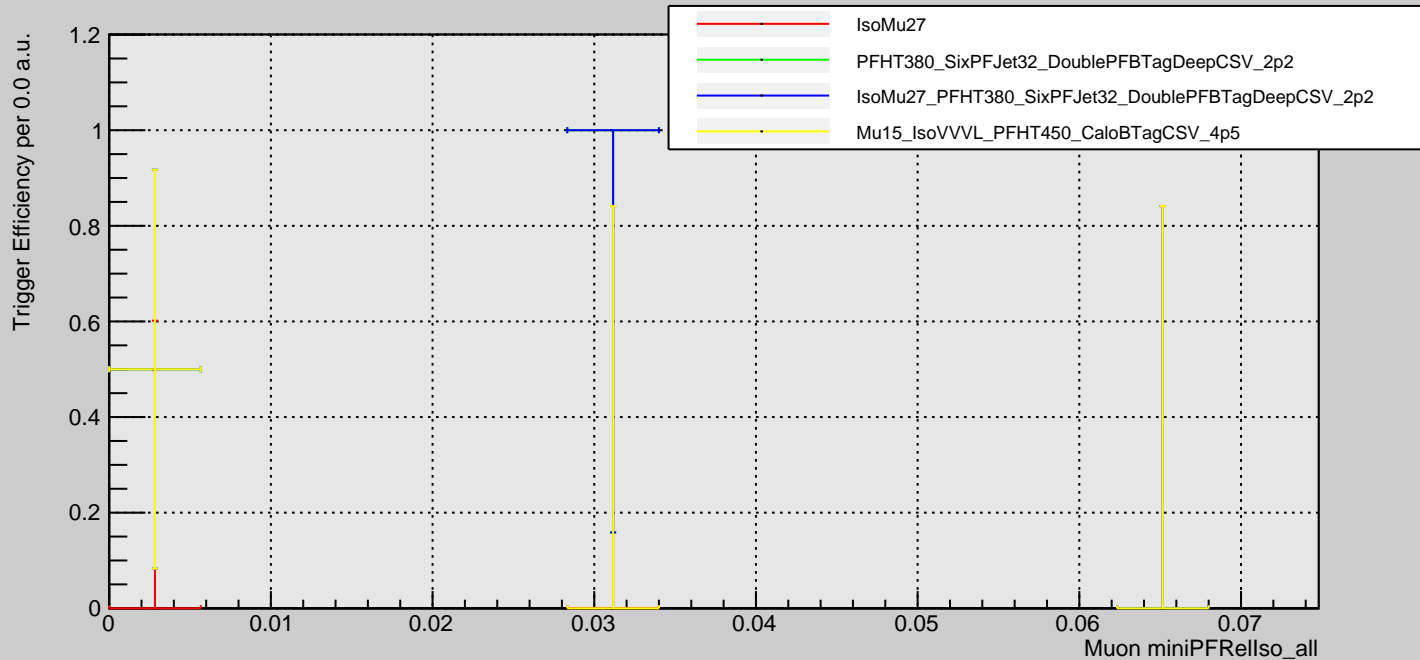
Muon Pt = 5



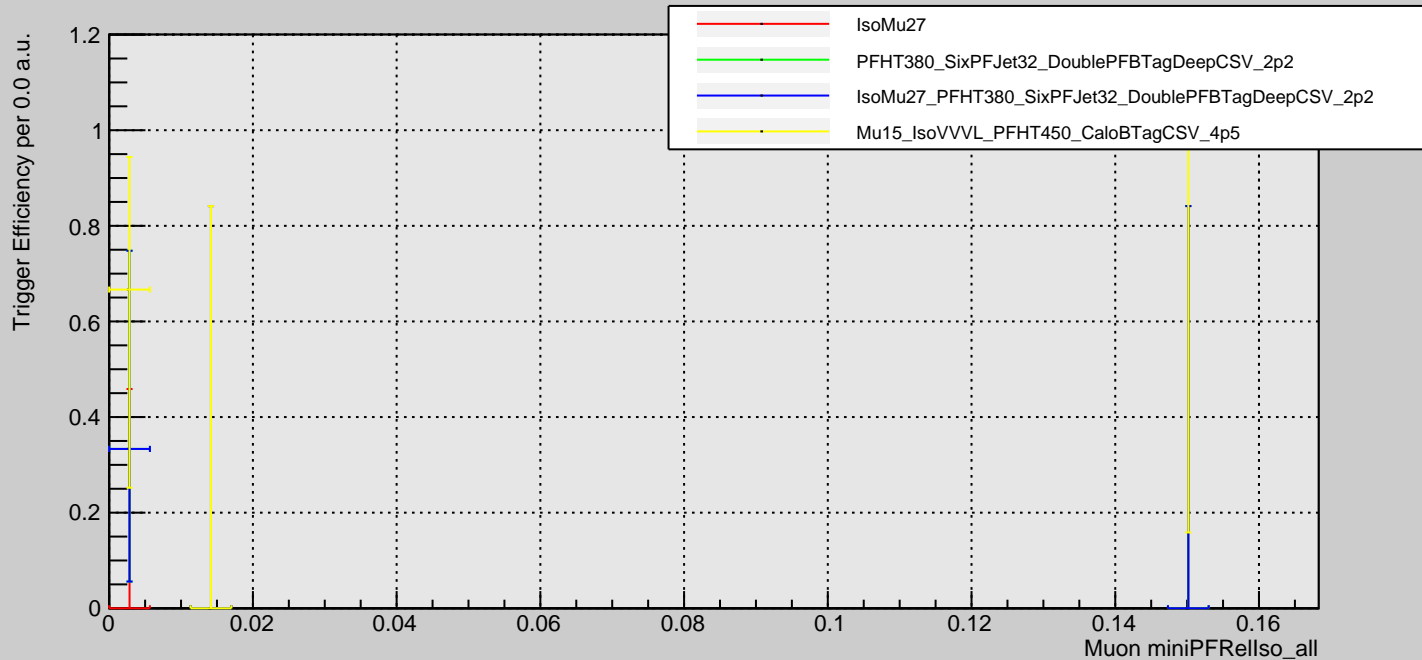
Muon Pt = 10



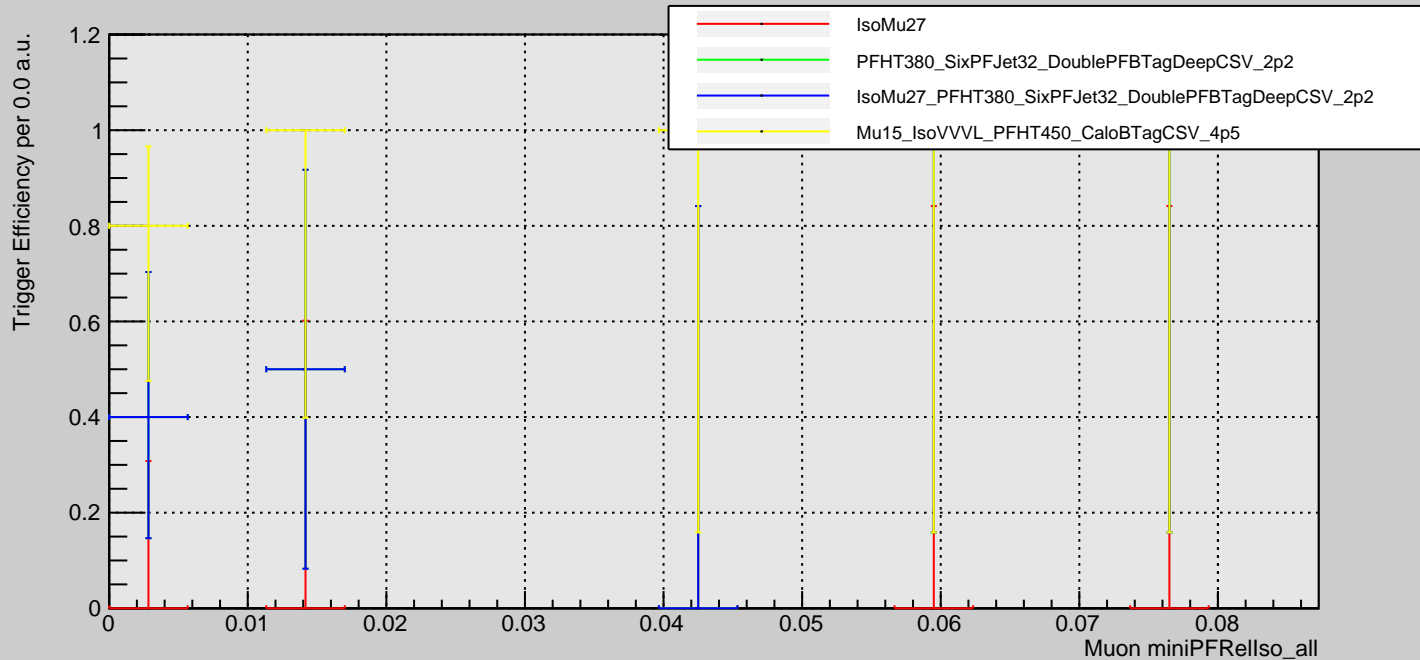
Muon Pt = 15



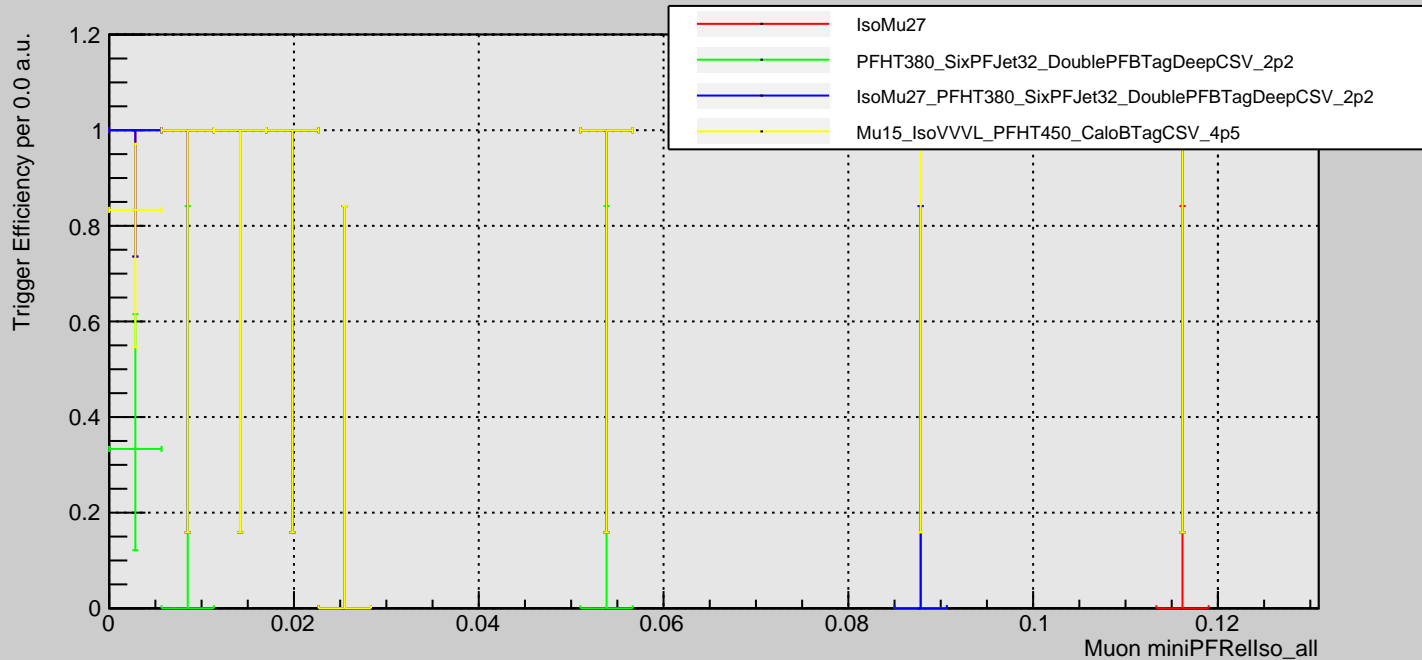
Muon Pt = 20



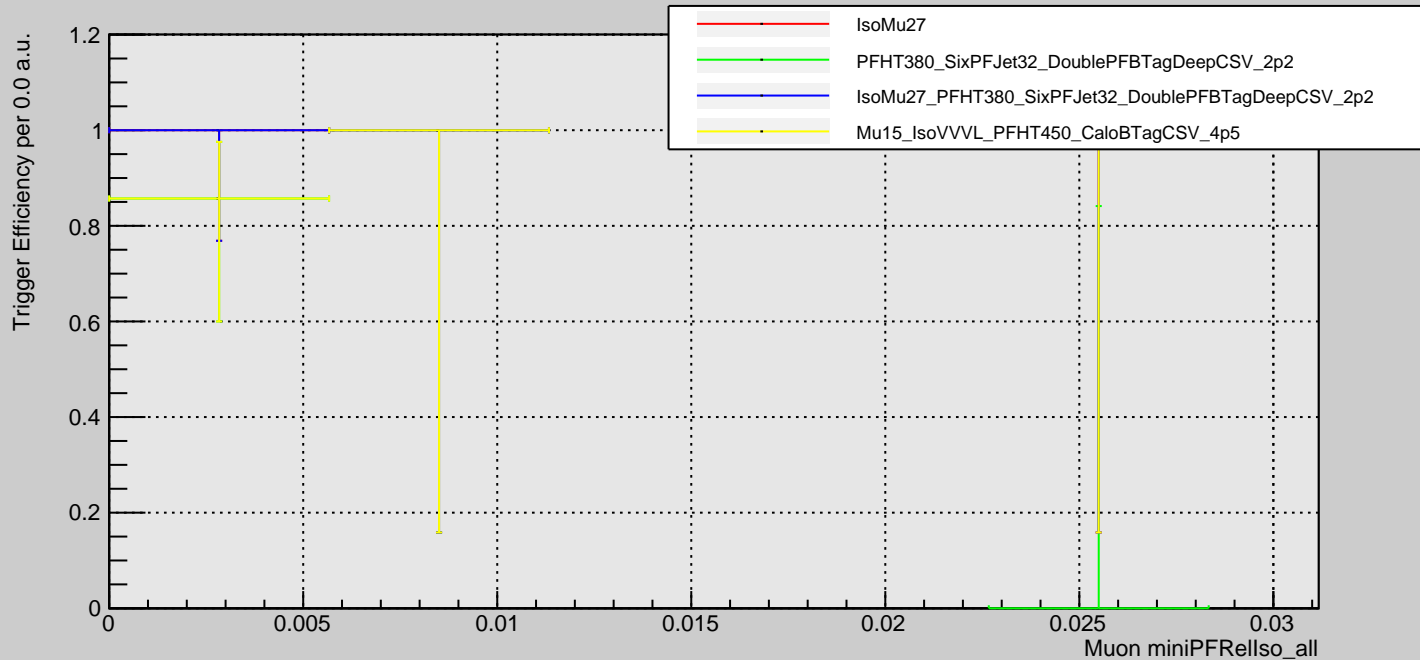
Muon Pt = 25



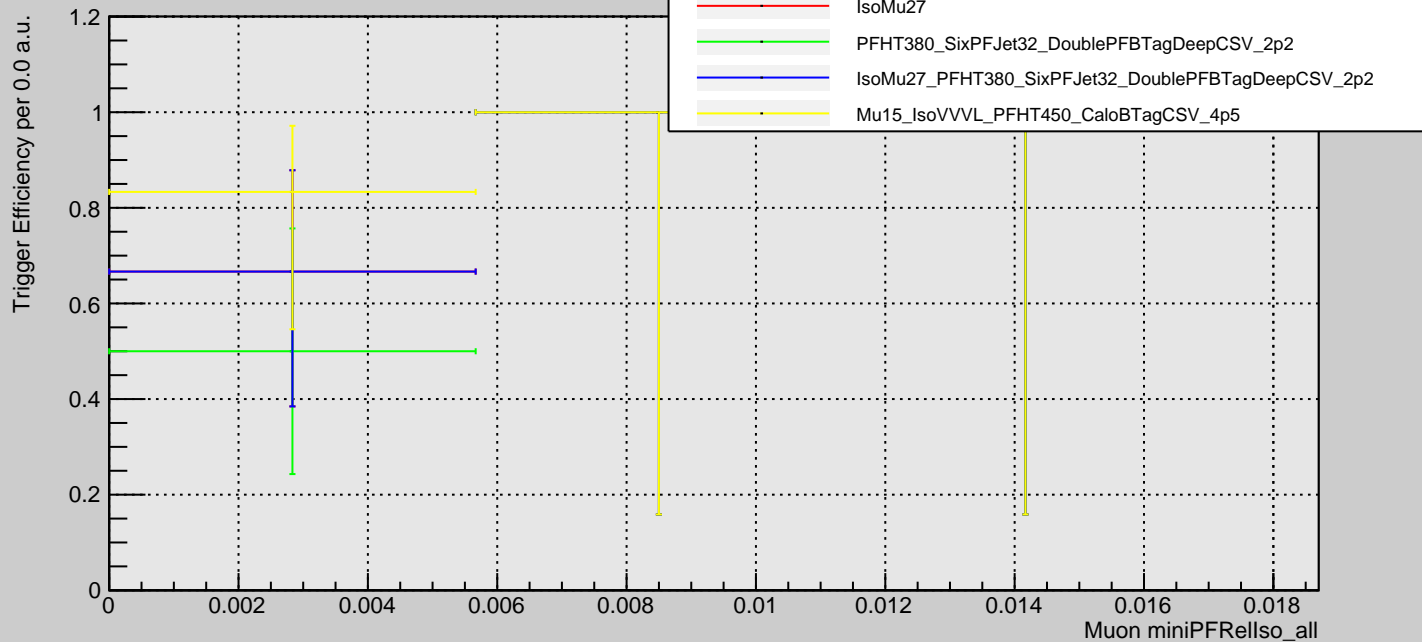
Muon Pt = 30



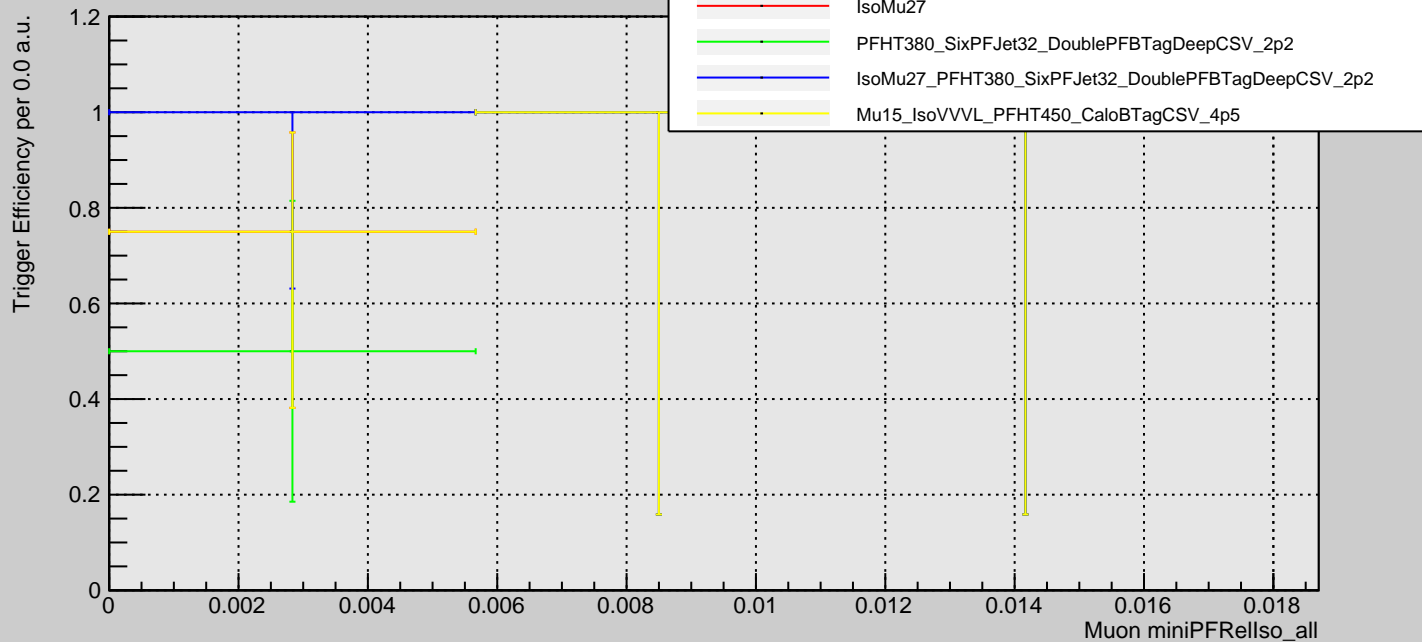
Muon Pt = 35



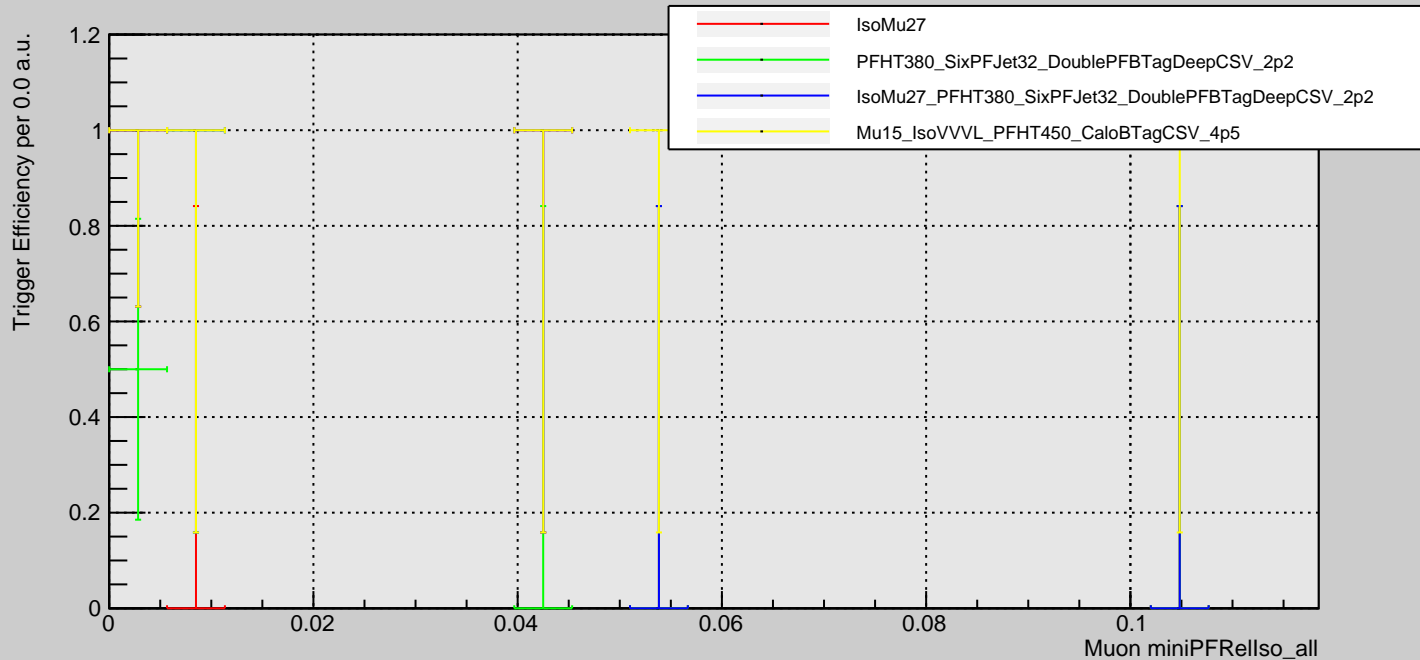
Muon Pt = 40



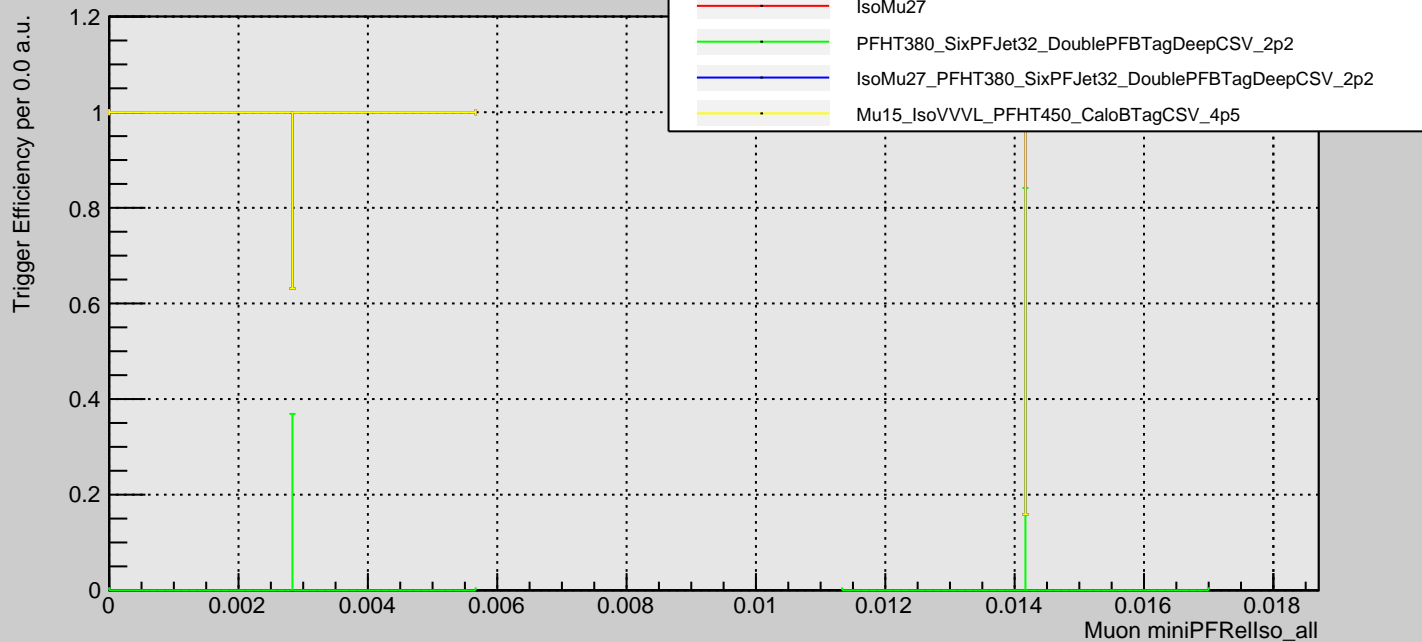
Muon Pt = 45



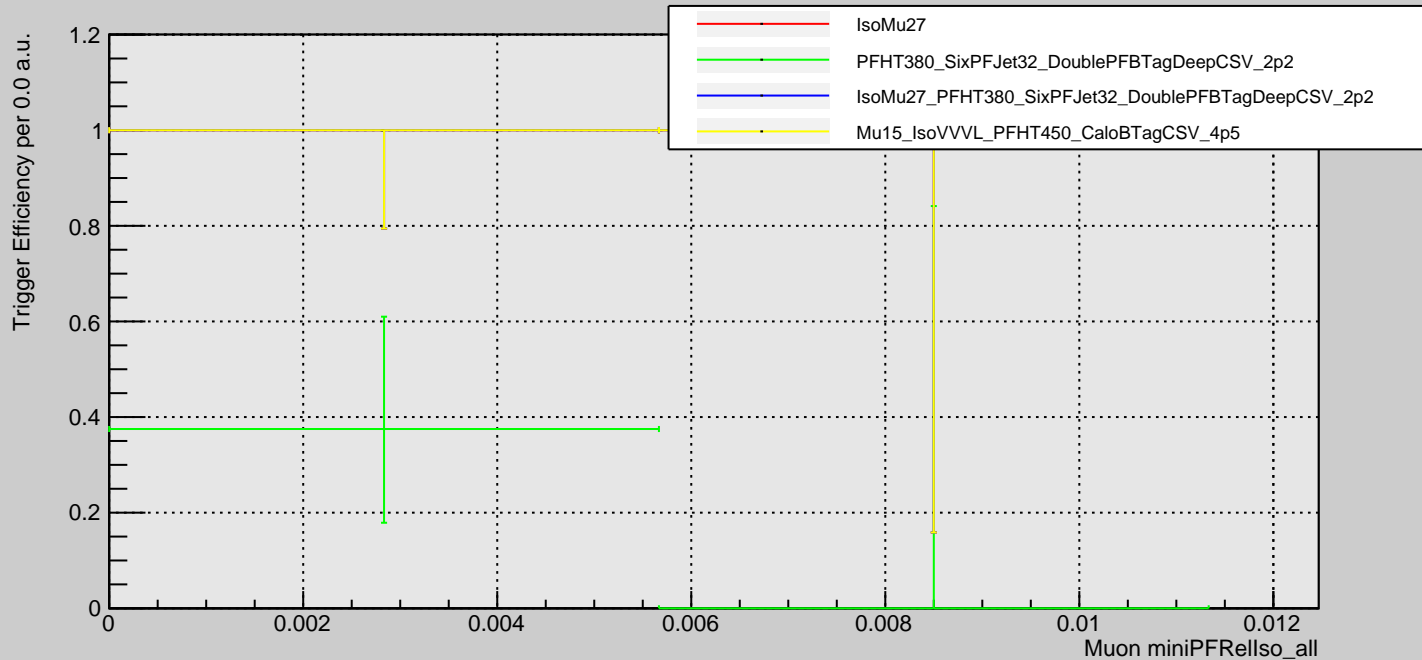
Muon Pt = 50



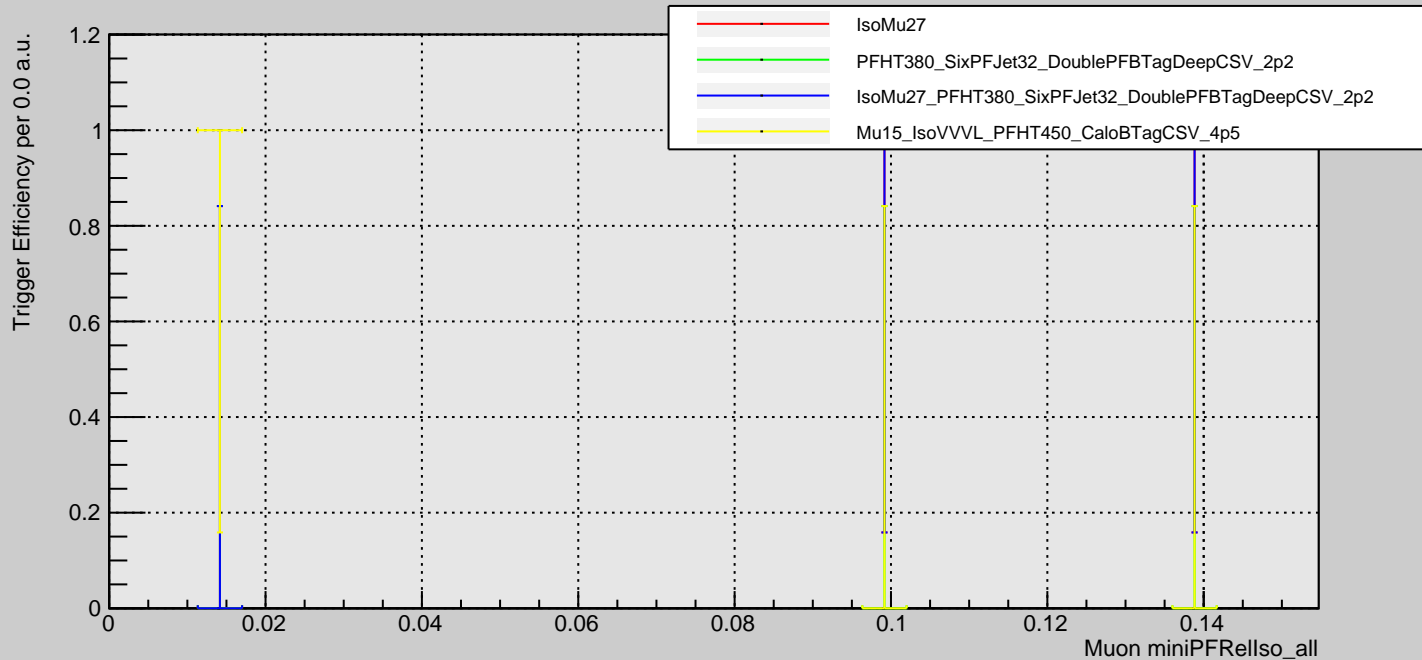
Muon Pt = 55



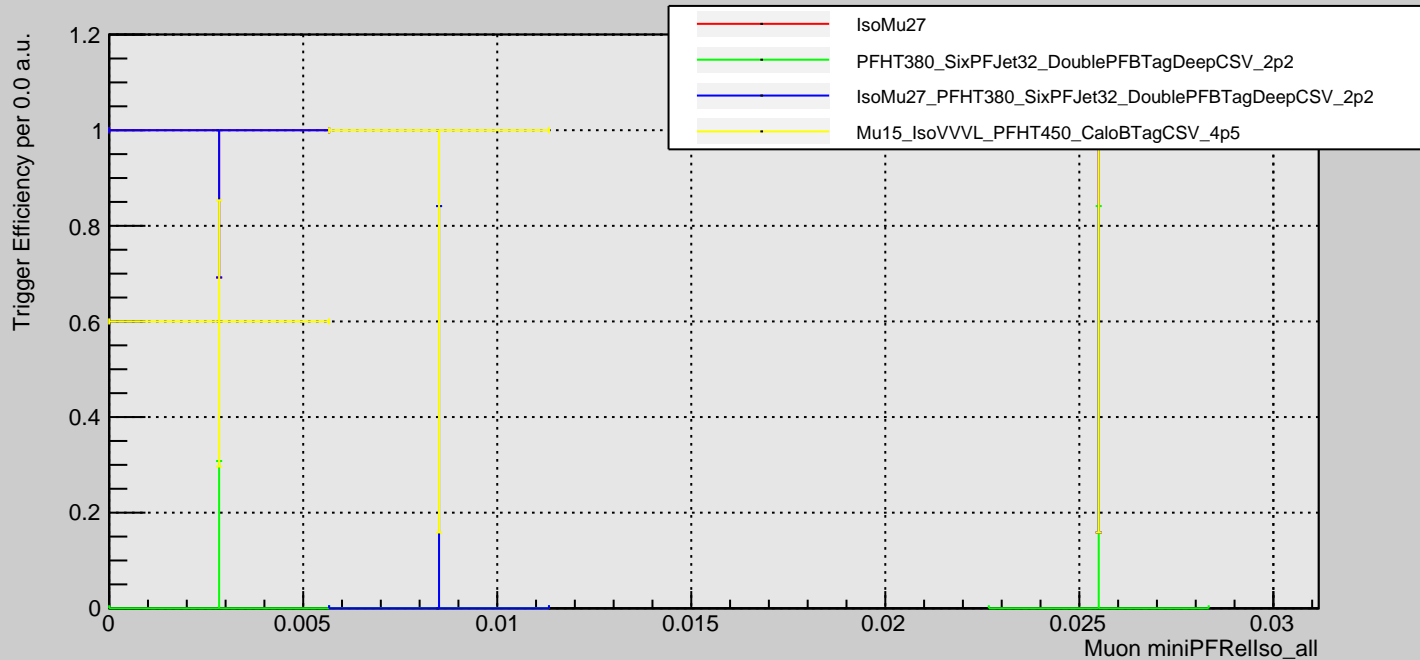
Muon Pt = 60



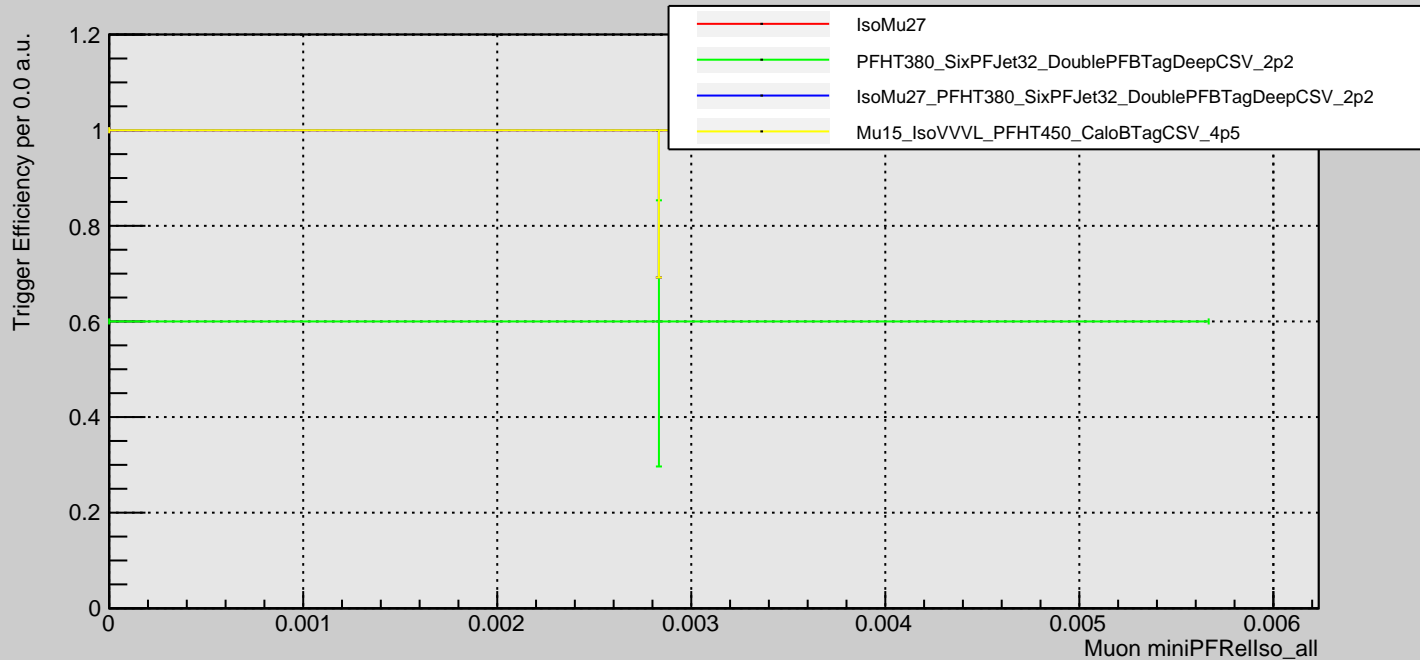
Muon Pt = 65



Muon Pt = 70



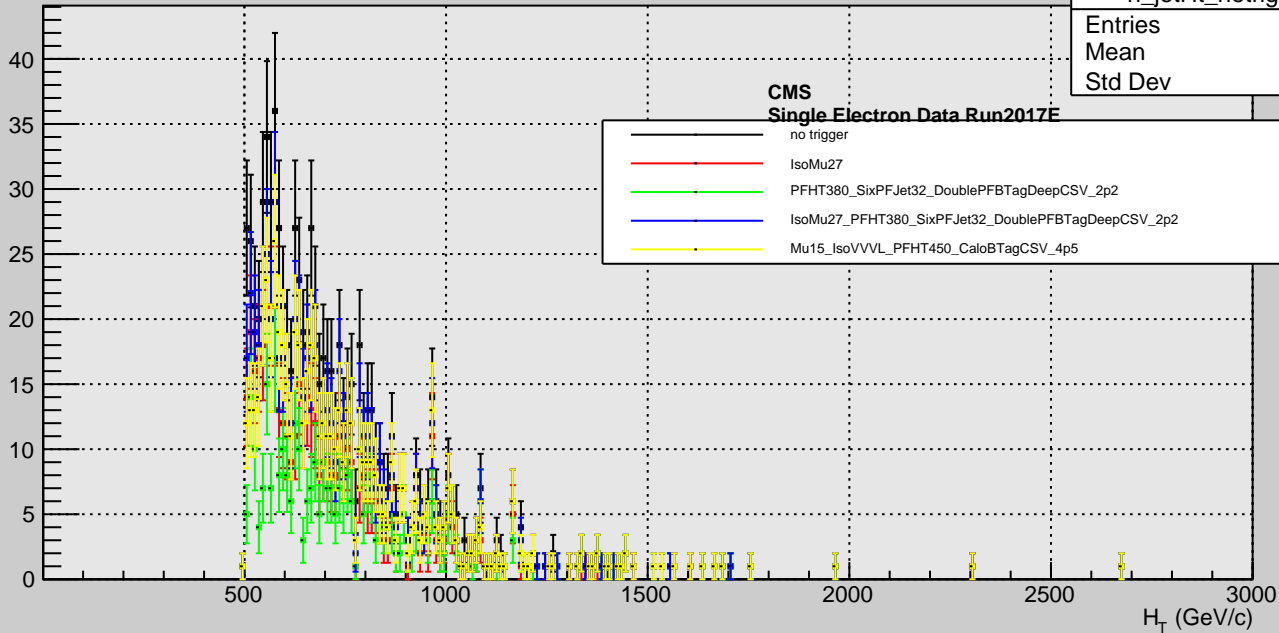
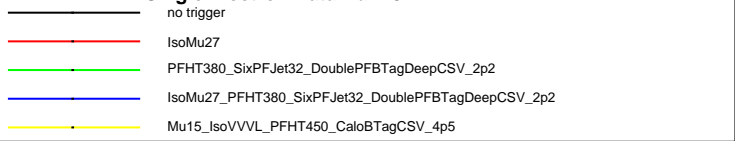
Muon Pt = 75

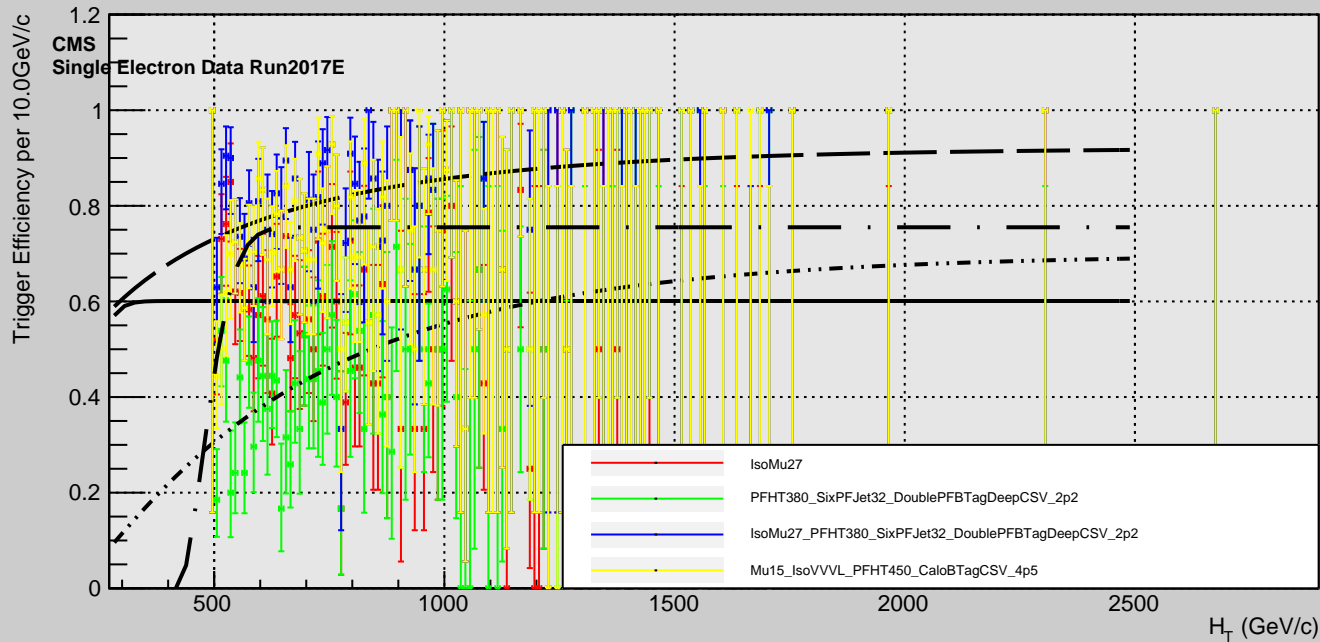


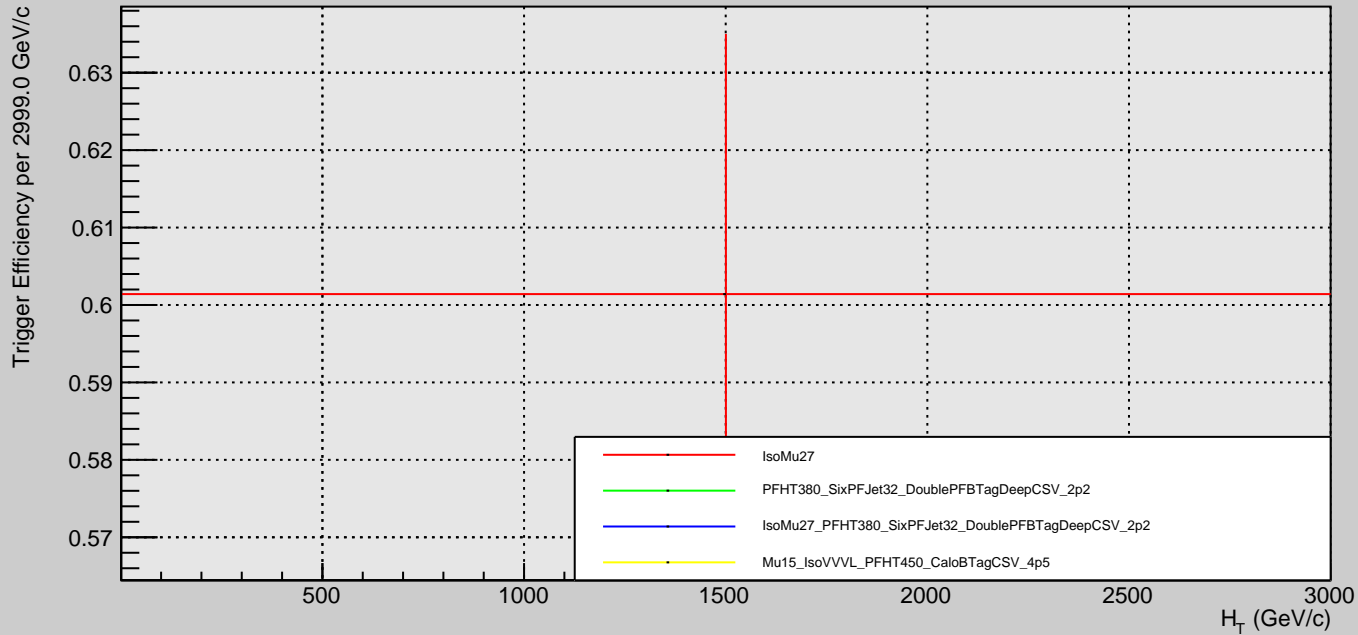
Number of Events per 10 GeV/c

h_jetHt_nottrigger	
Entries	853
Mean	743.1
Std Dev	236.1

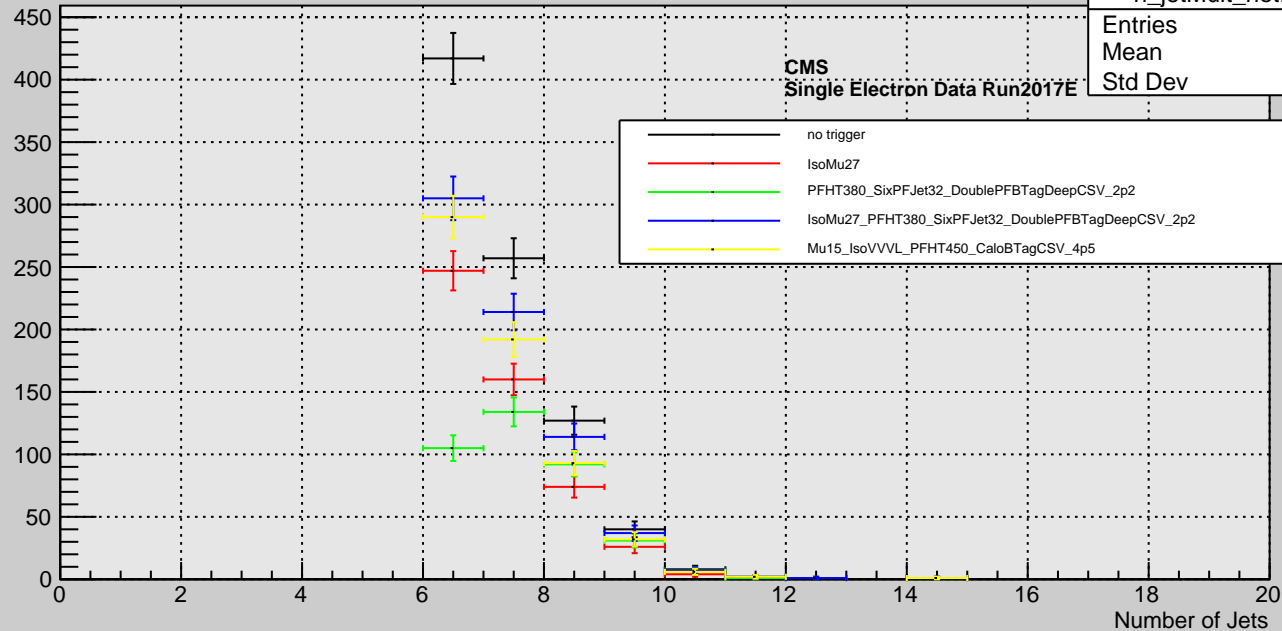
CMS
Single Electron Data Run2017E

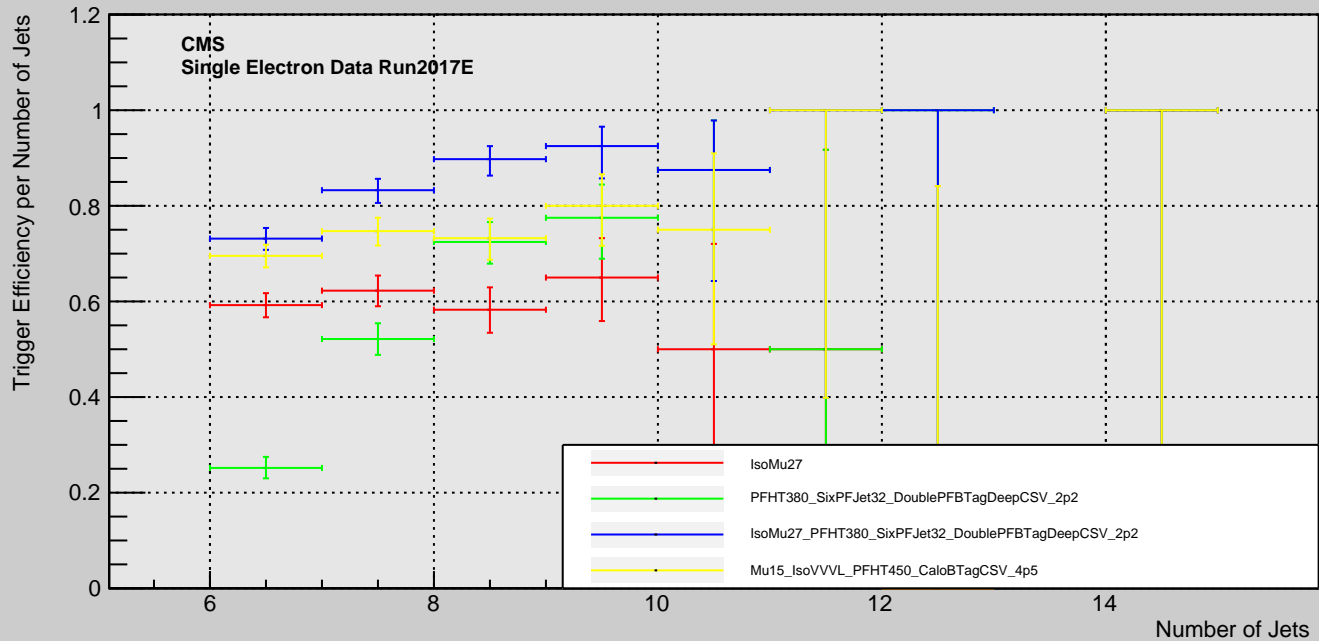




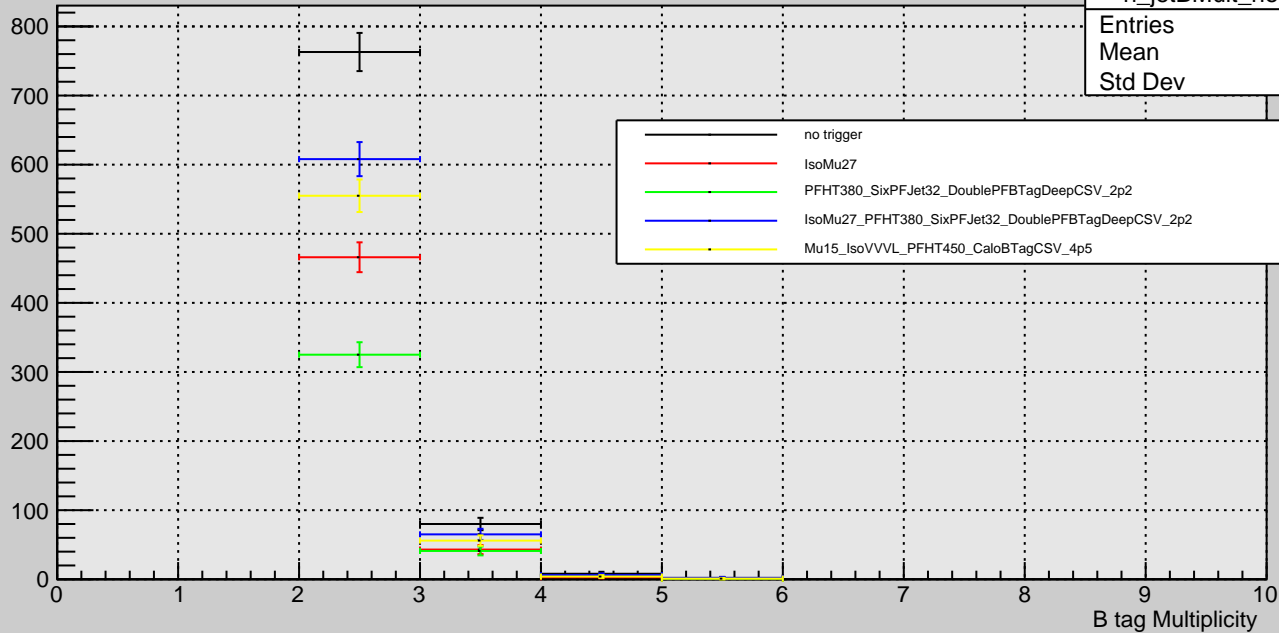


Number of Events per Number of Jets

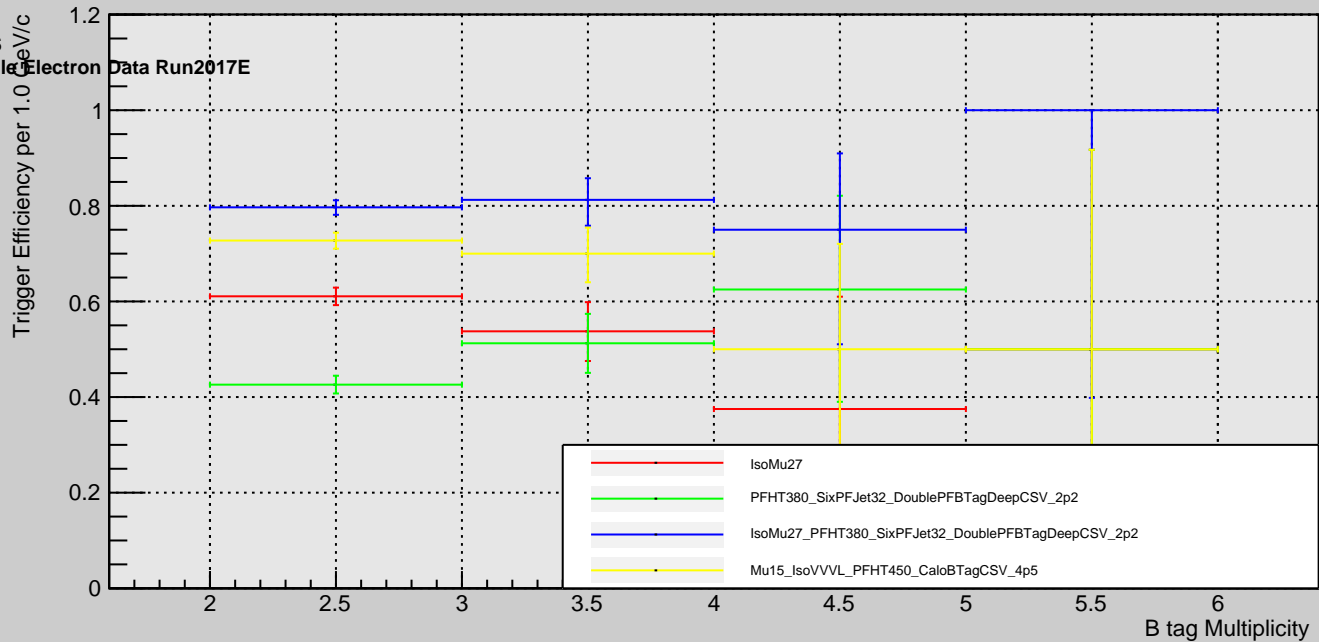




Number of Events per Number of Jets



CMS
Single Electron Data Run2017E



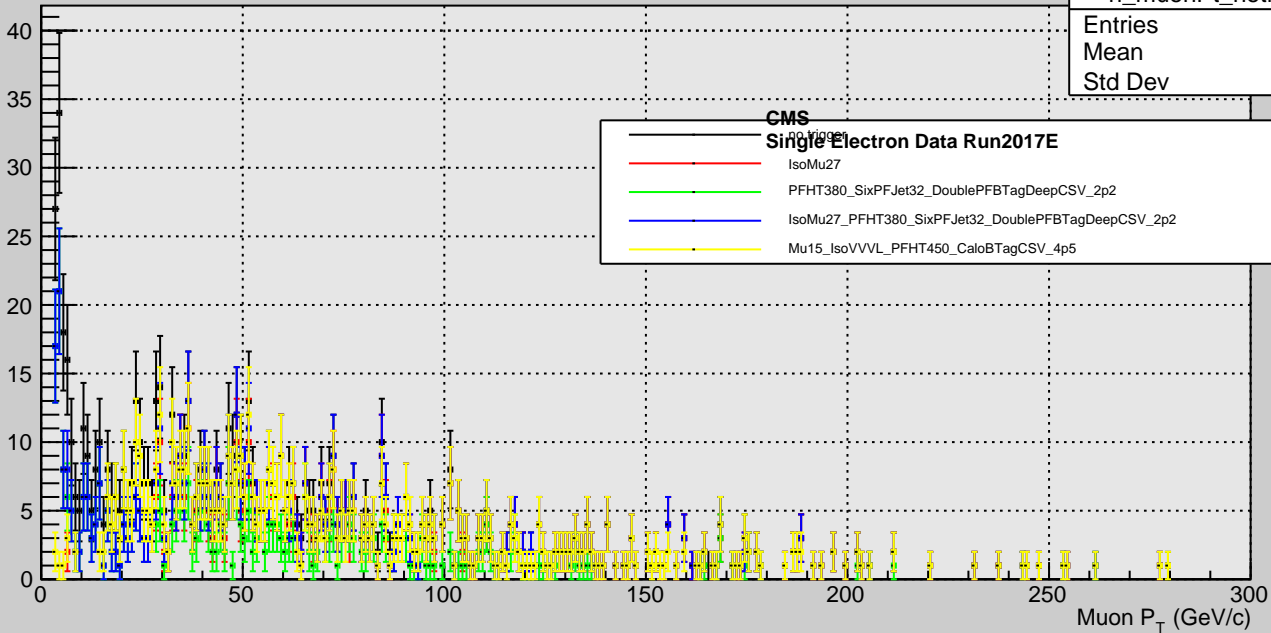
Number of Events per 1 GeV/c

h_muonPt_notrigger	
Entries	853
Mean	62.27
Std Dev	52.12

CMS

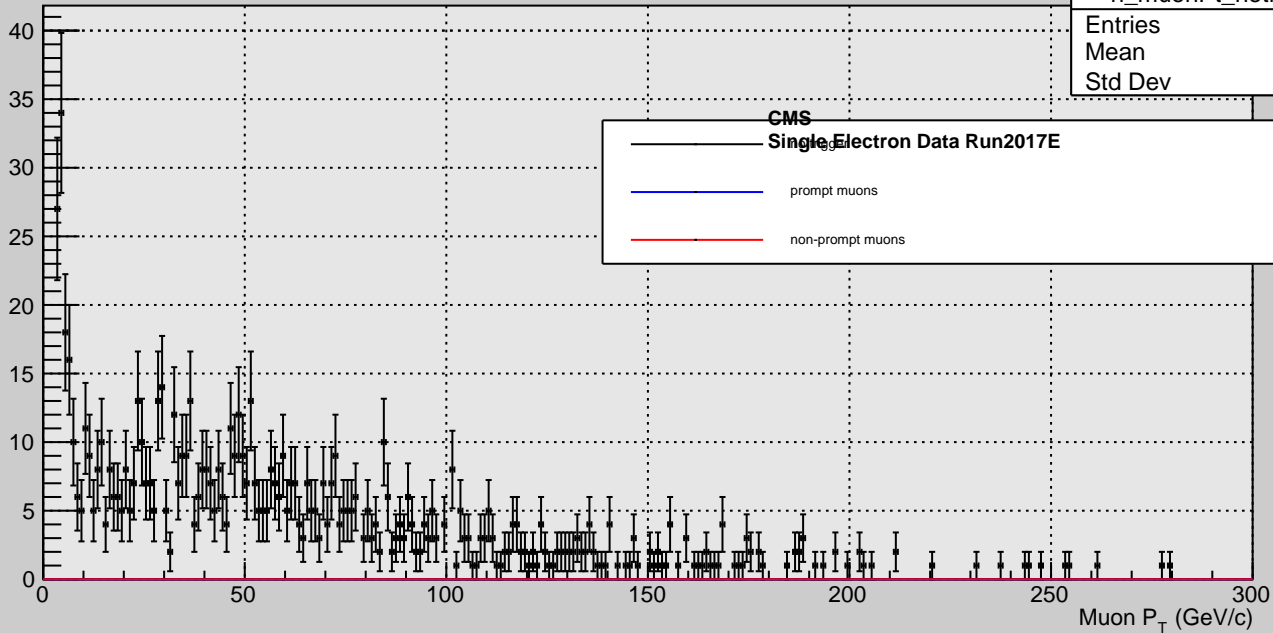
Single Electron Data Run2017E

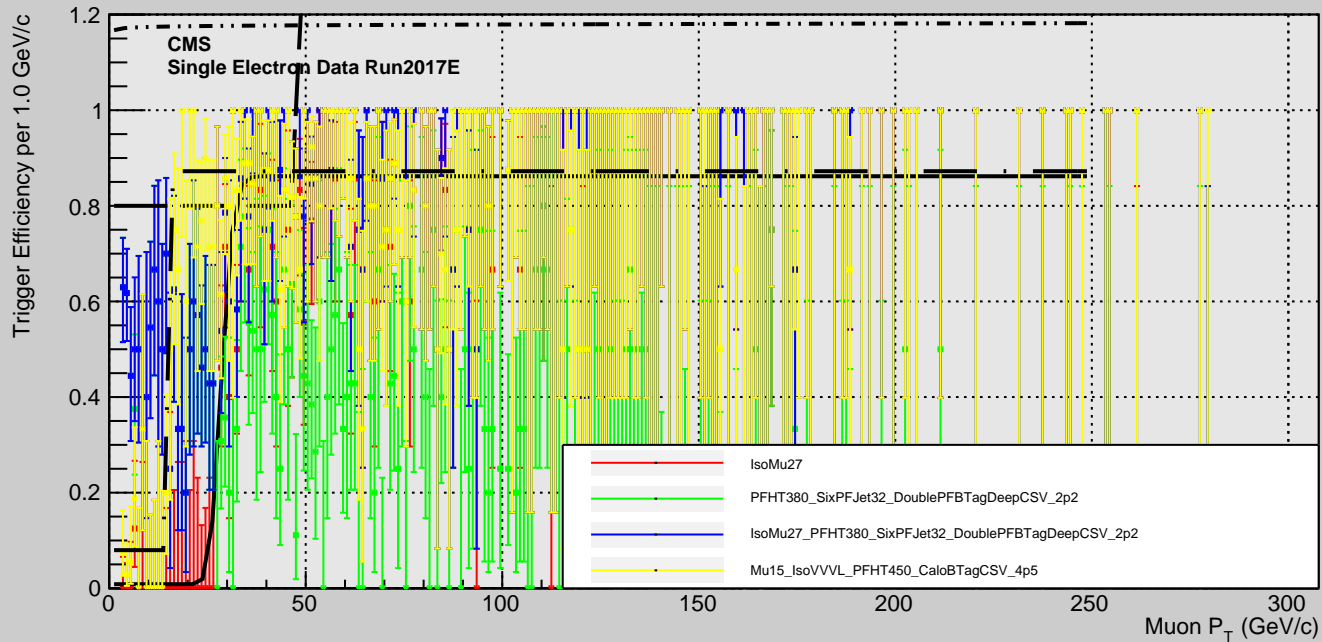
- no trigger
- IsoMu27
- PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- IsoMu27_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5

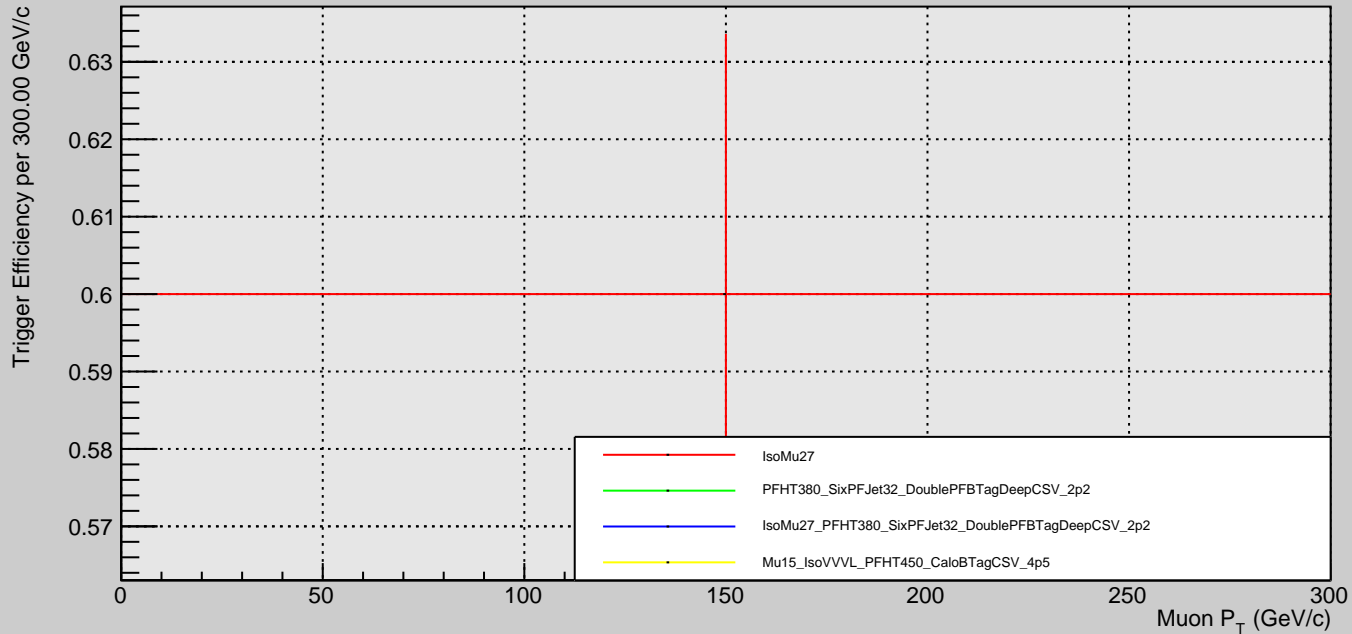


Number of Events per 1 GeV/c

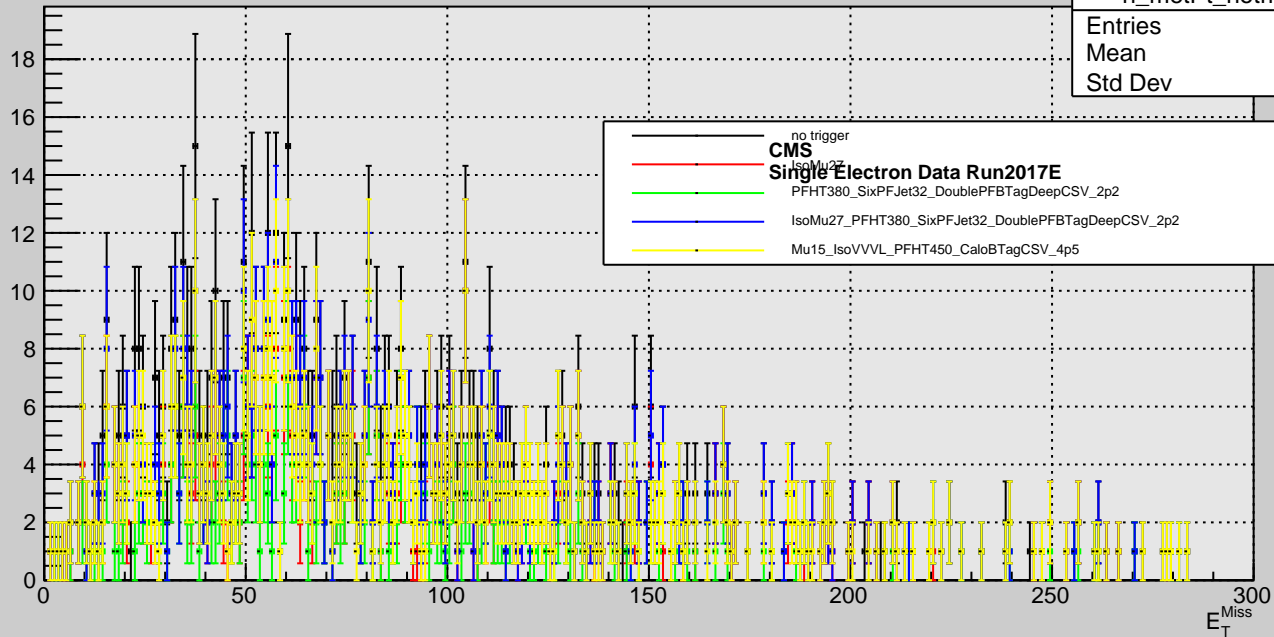
h_muonPt_notrigger	
Entries	853
Mean	62.27
Std Dev	52.12







Number of Events per 1 GeV/c

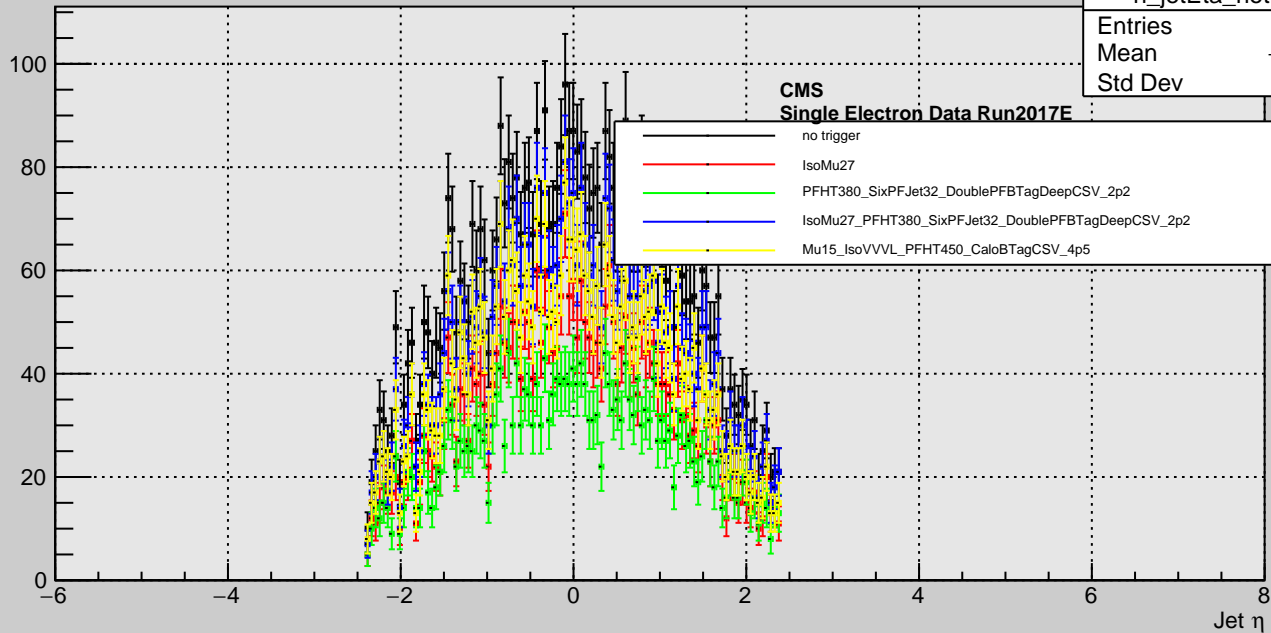


h_metPt_notrigger

Entries	853
Mean	88.19
Std Dev	57.85



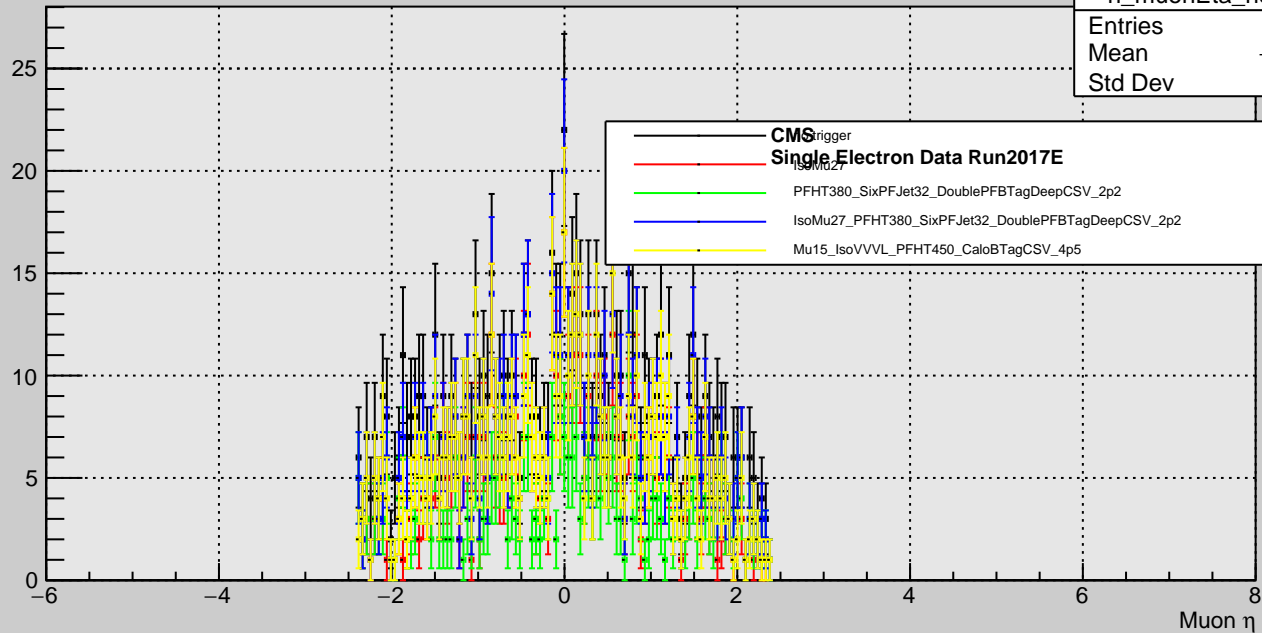
Number of Events per $\delta\eta = 0.046$

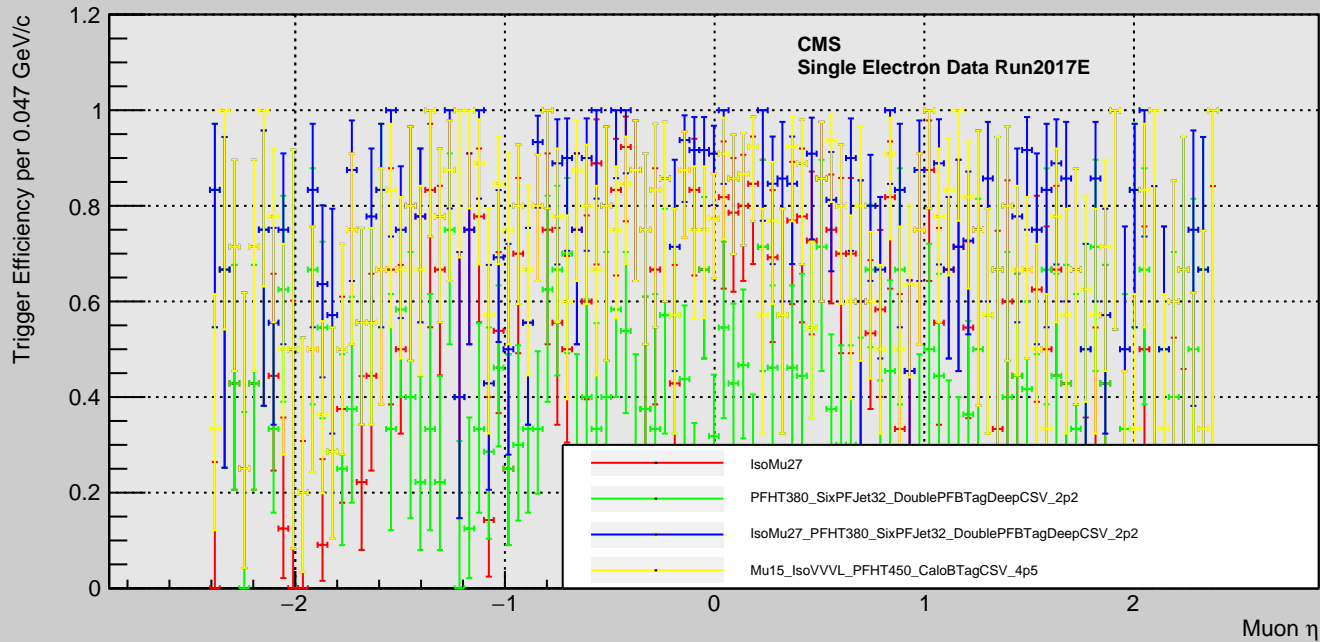


h_jetEta_notrigger

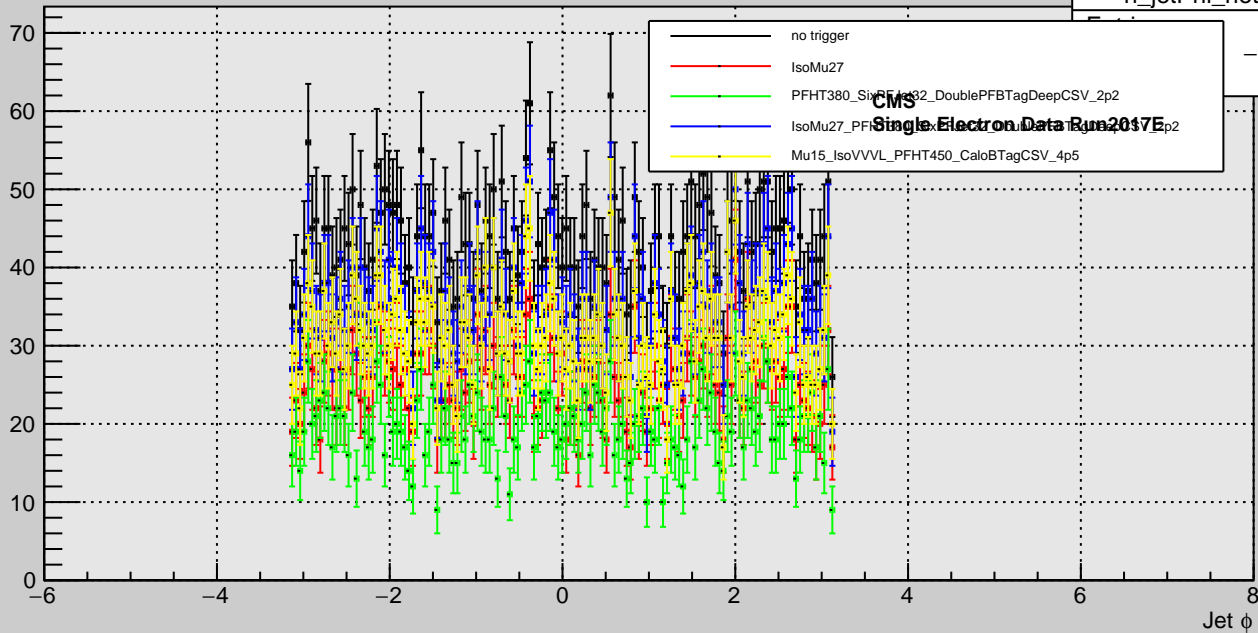
Entries	5805
Mean	-0.01724
Std Dev	1.157

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

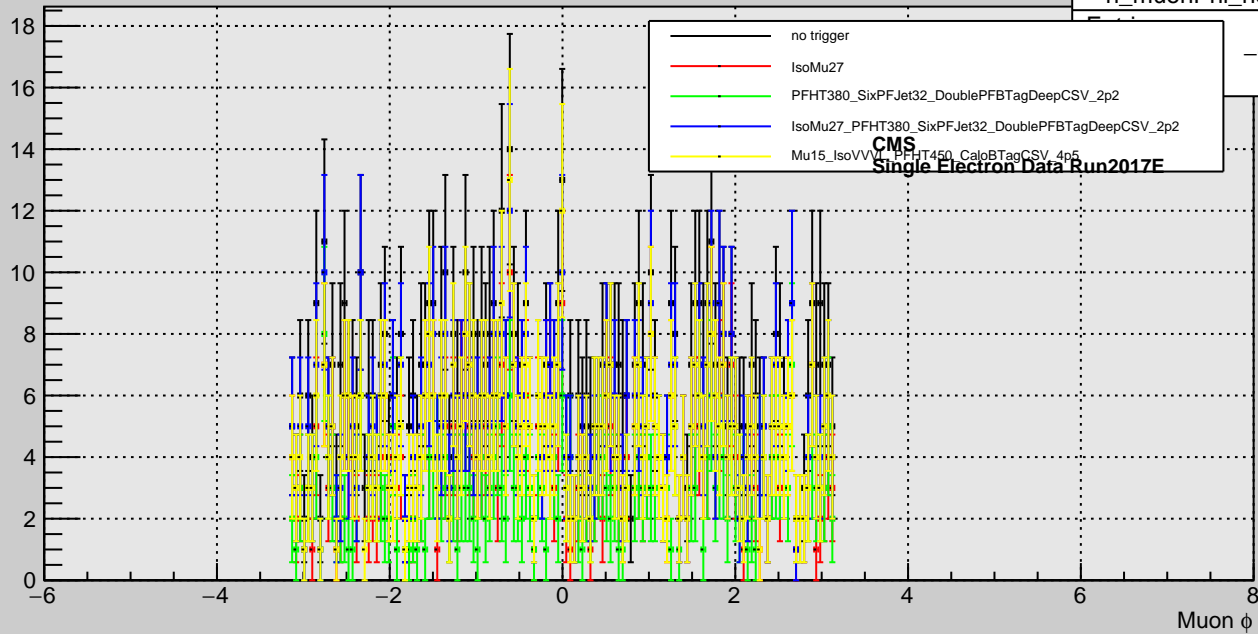




Number of Events per $\delta\phi = 0.046$



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



CMS
Single Electron Data Run2017E

h_muonPhi_notrigger

853

-0.005435

1.768

