

On-line (pre-)selection Requisites for:

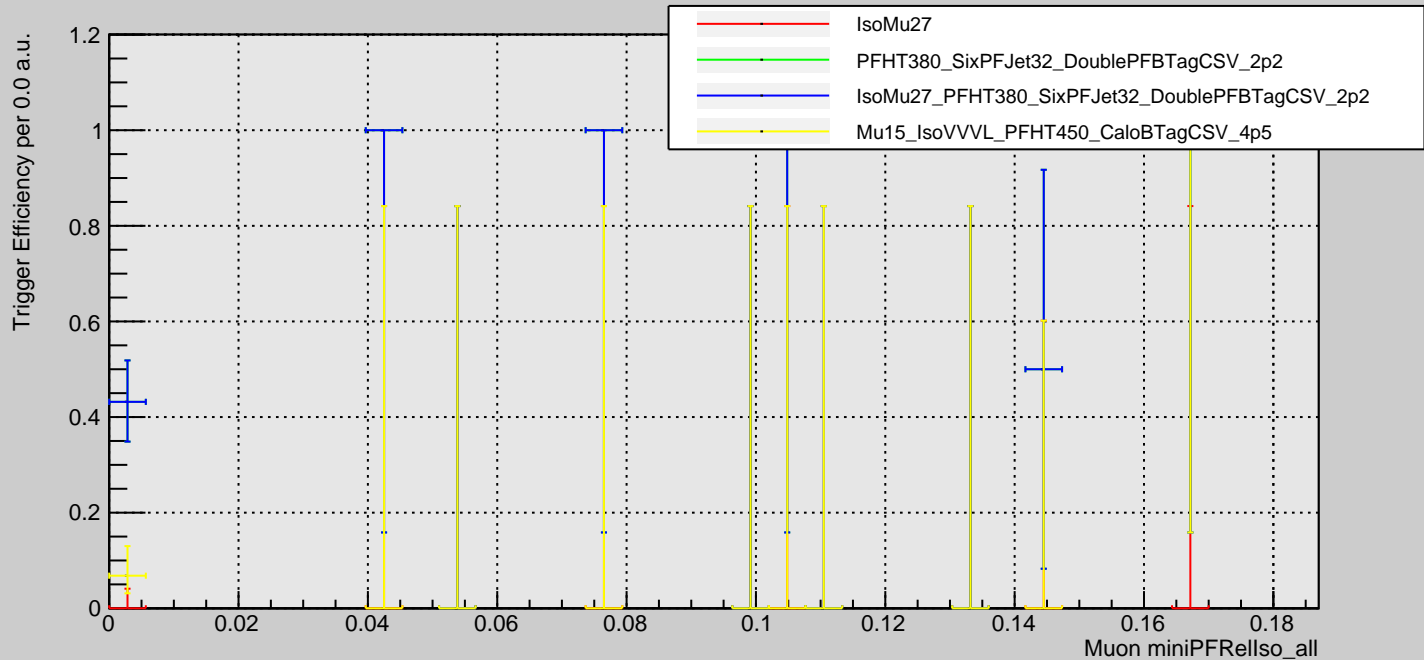
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

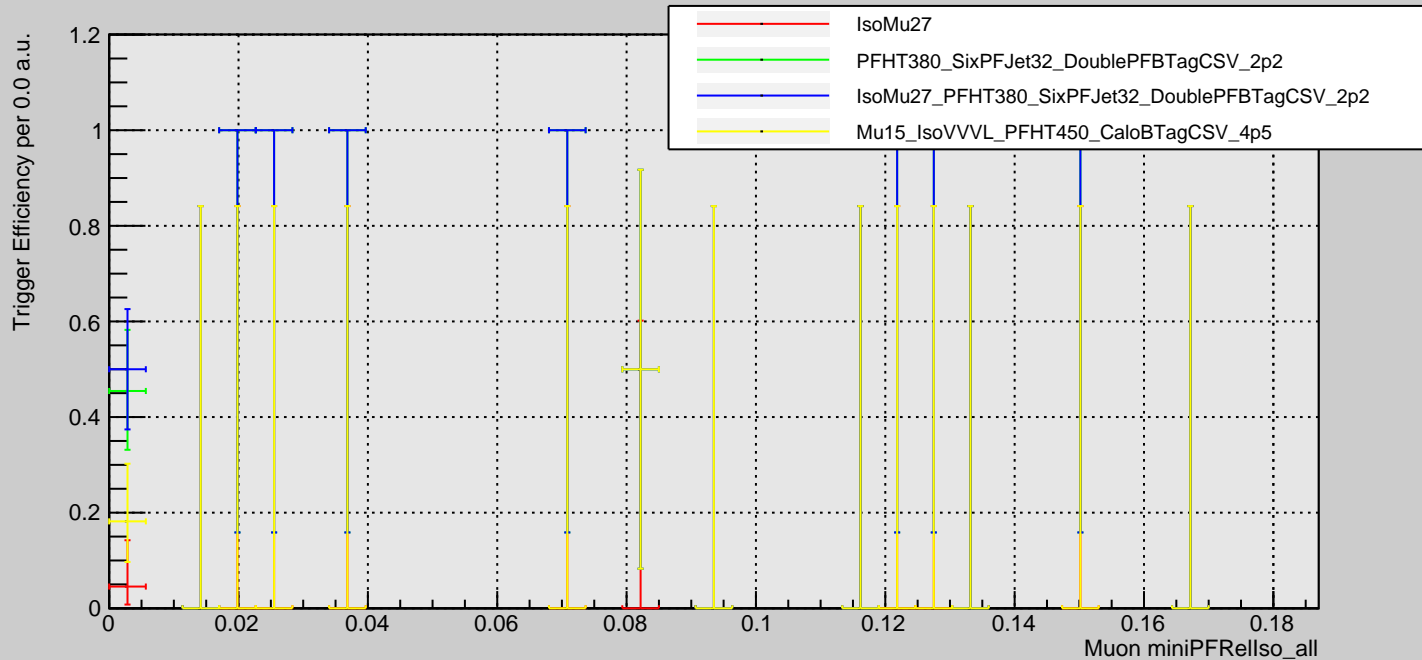
Off-line (post-)selection Requisites for:

- **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)

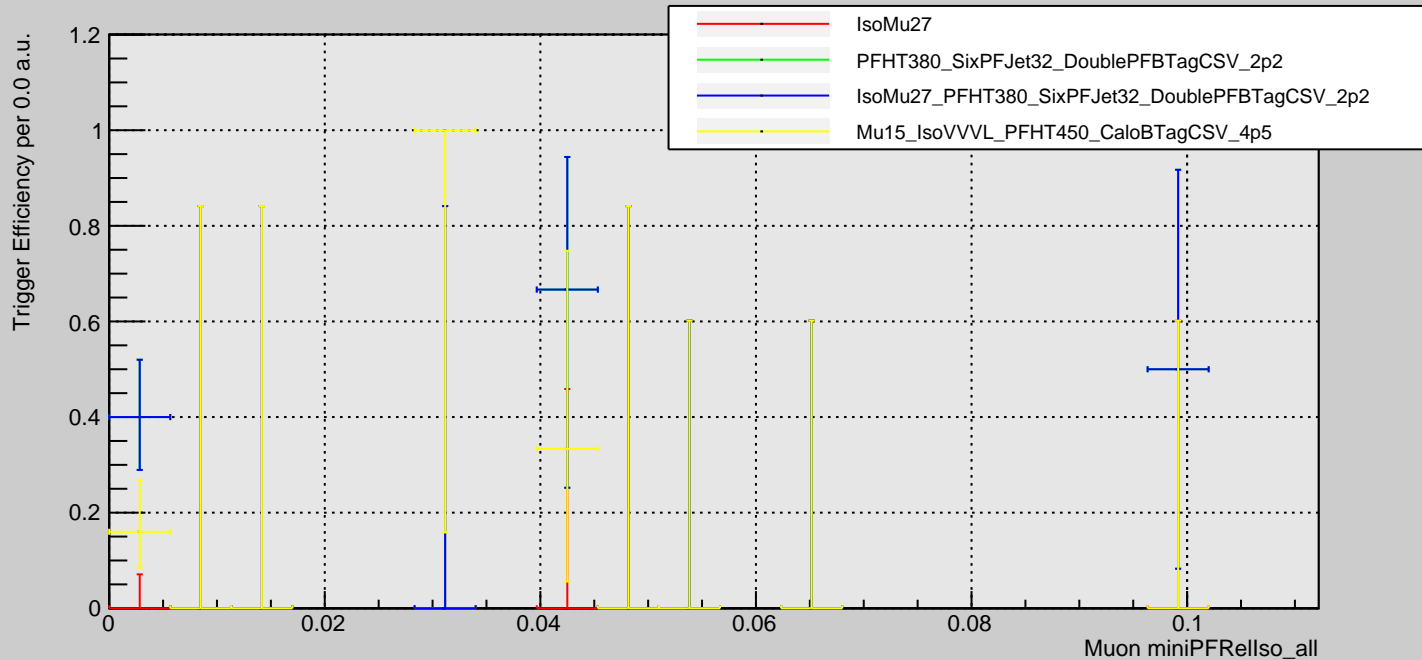
Muon Pt = 5



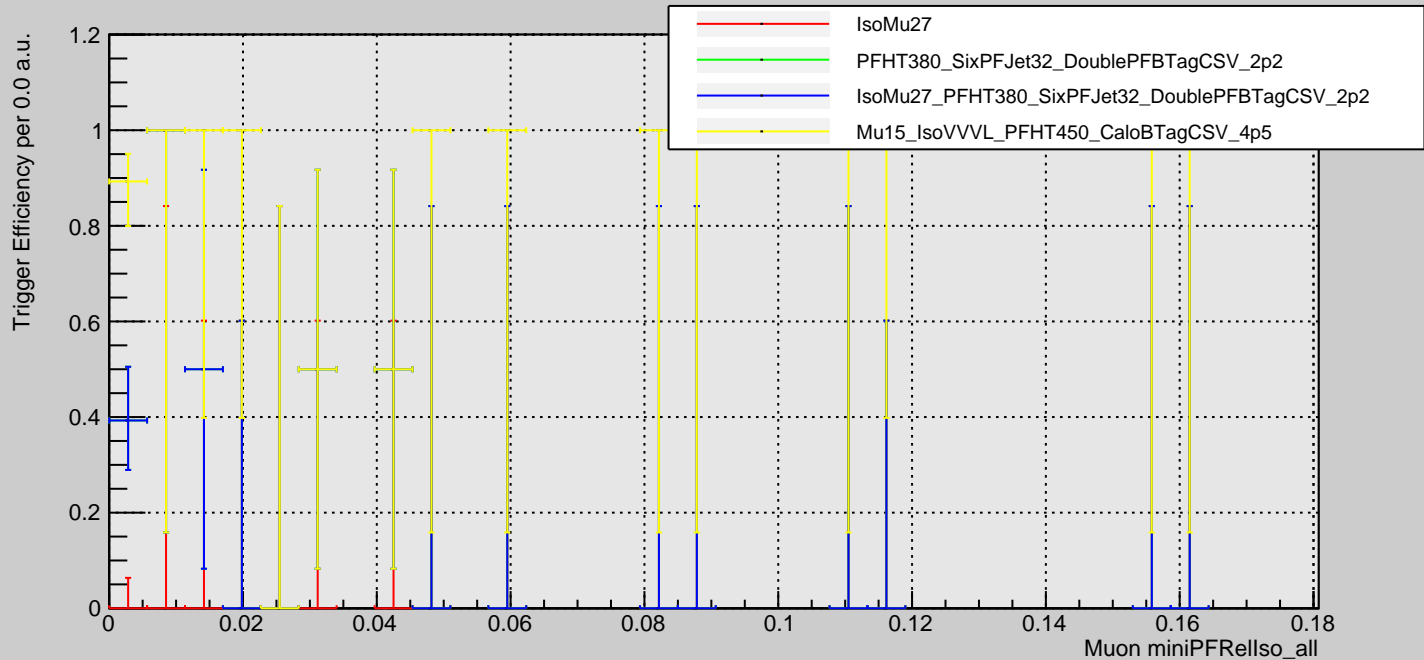
Muon Pt = 10



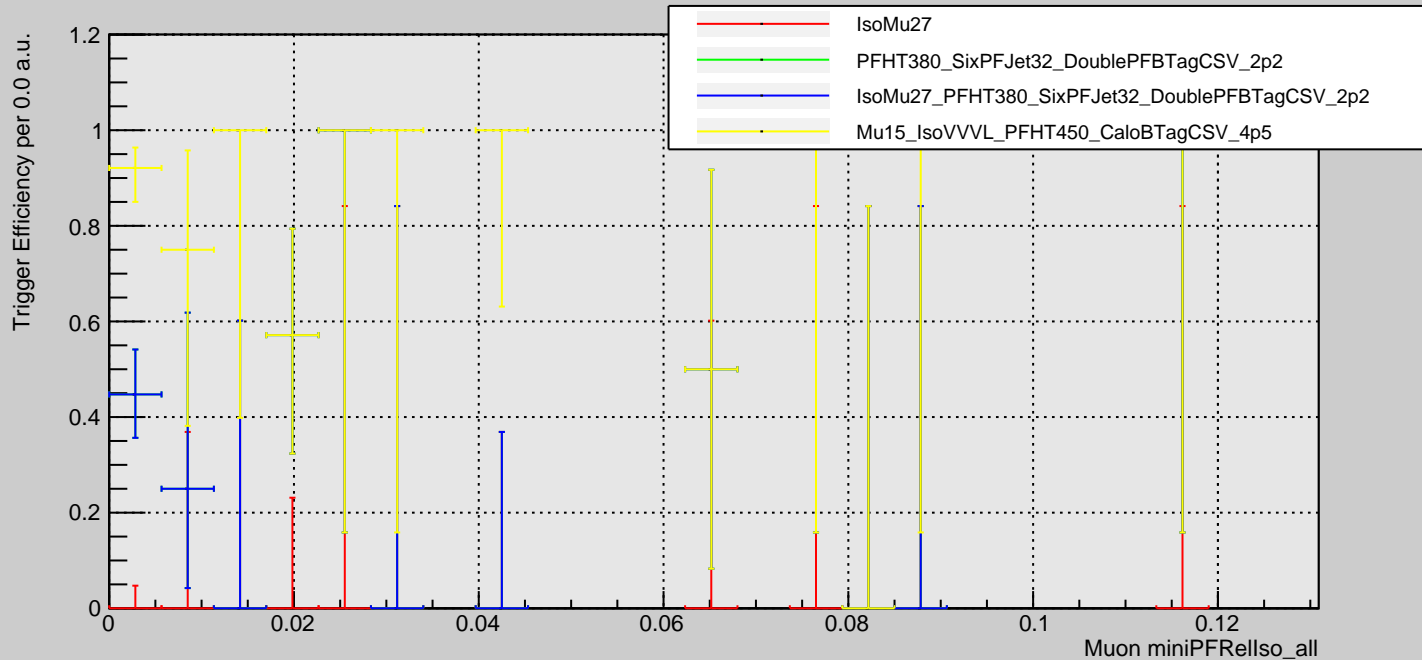
Muon Pt = 15



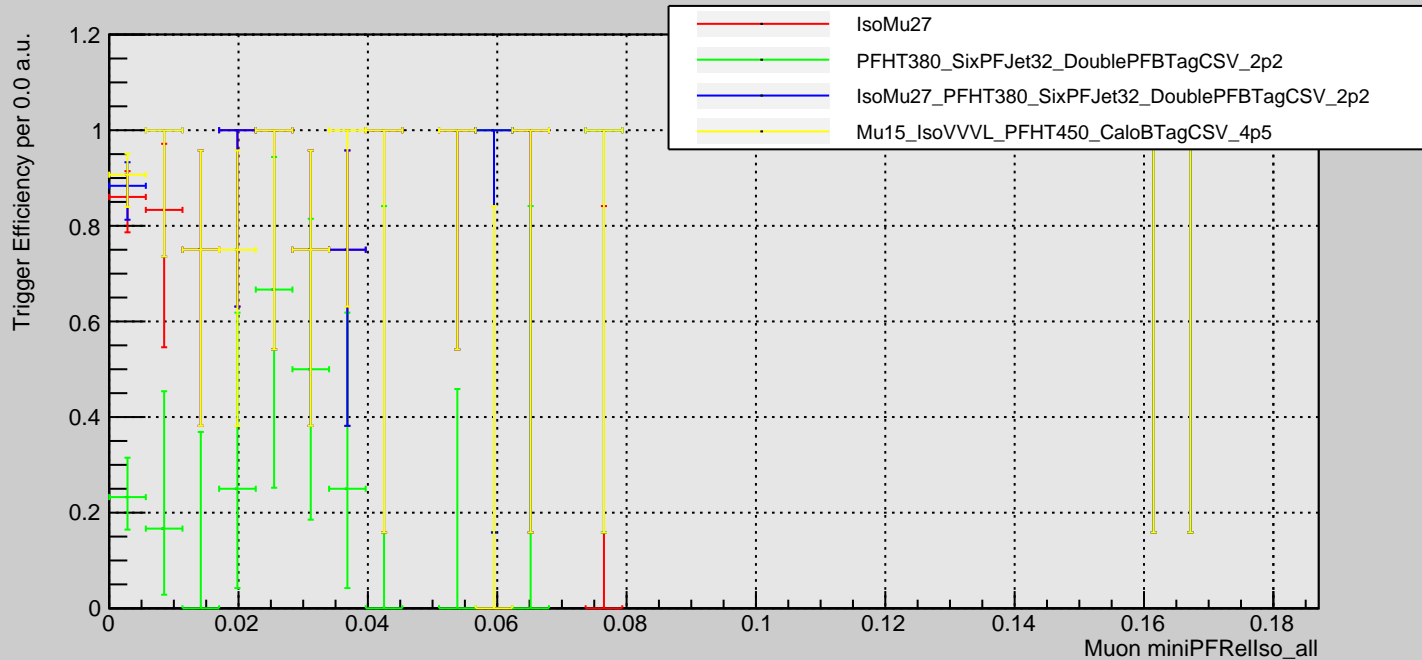
Muon Pt = 20



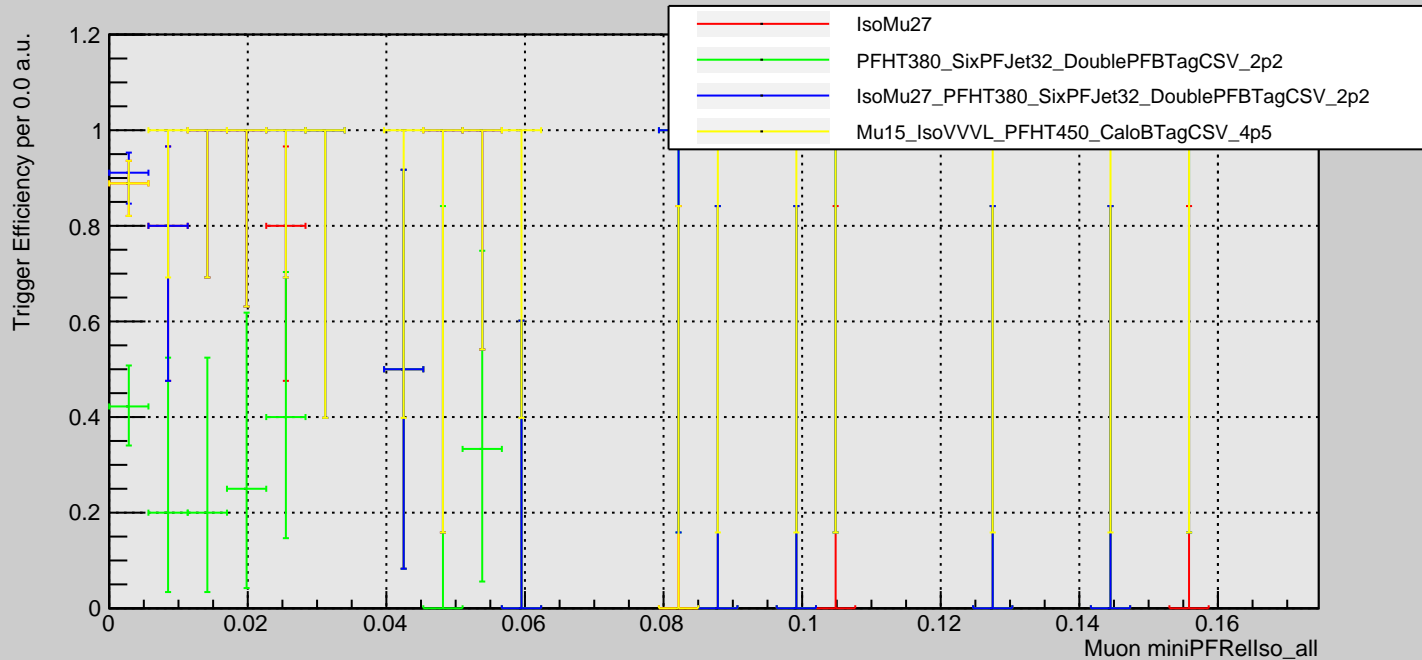
Muon Pt = 25



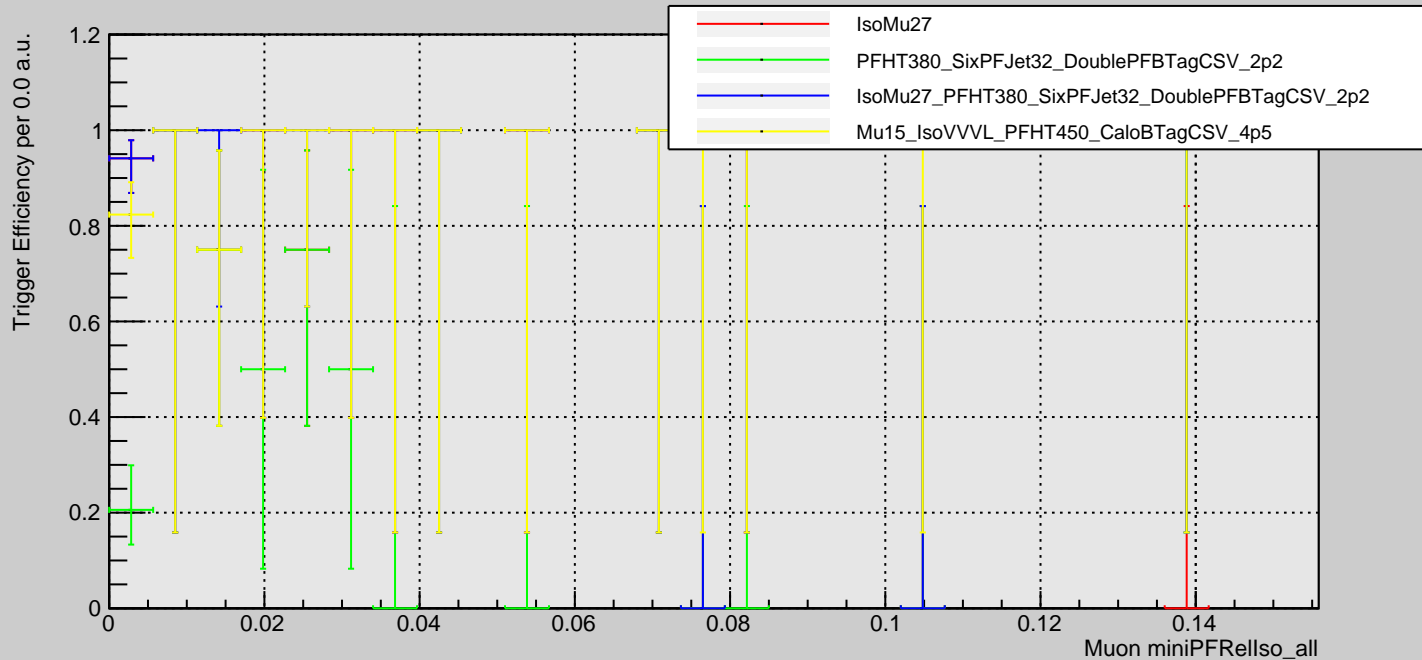
Muon Pt = 30



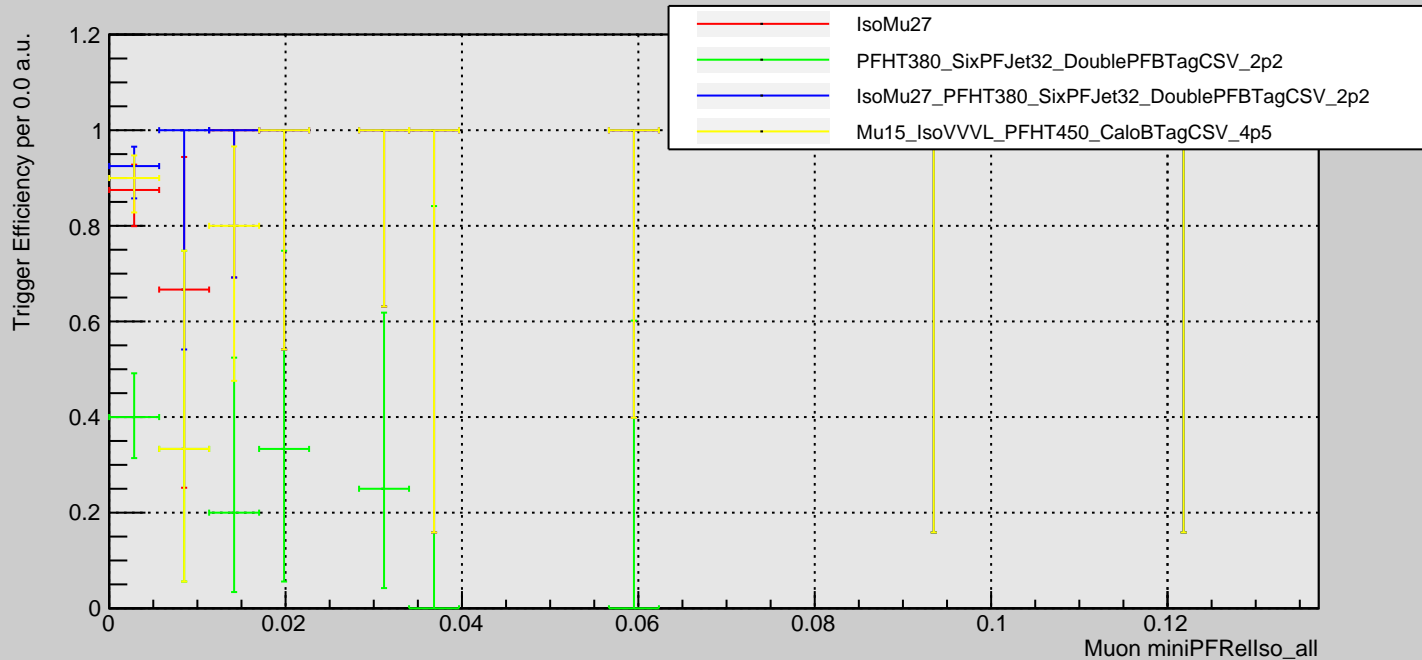
Muon Pt = 35



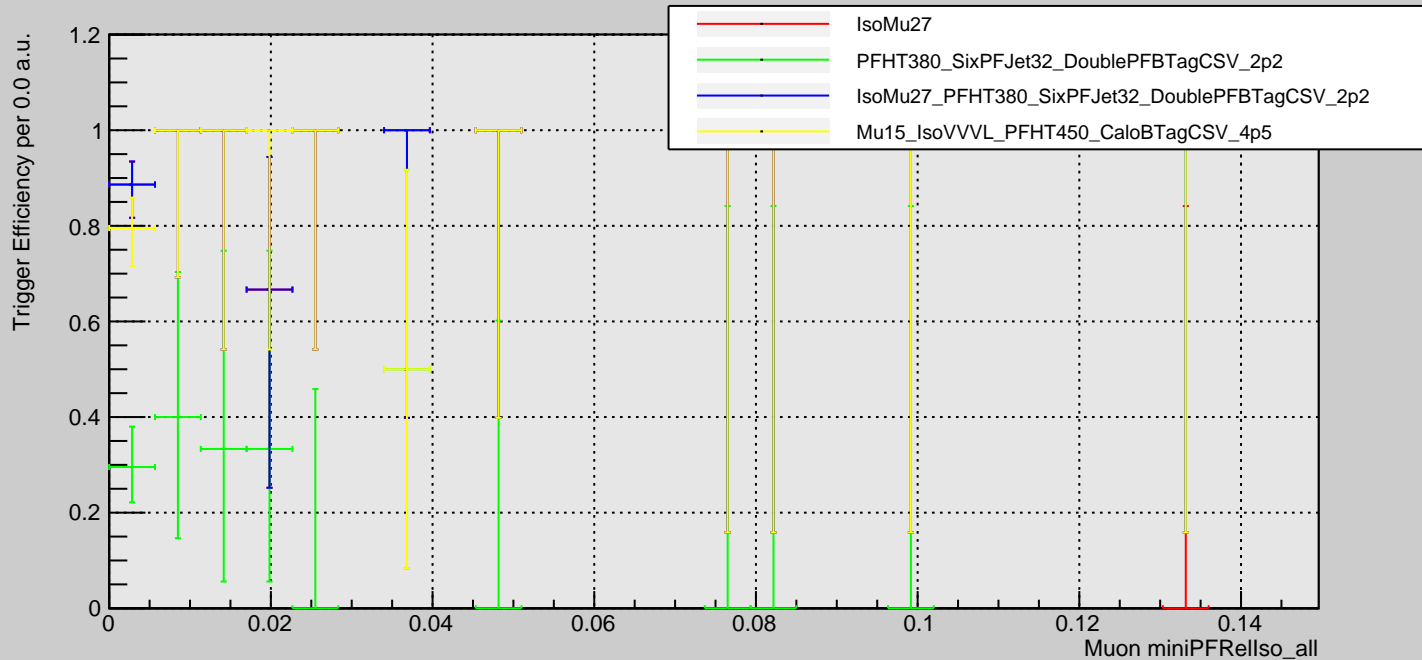
Muon Pt = 40



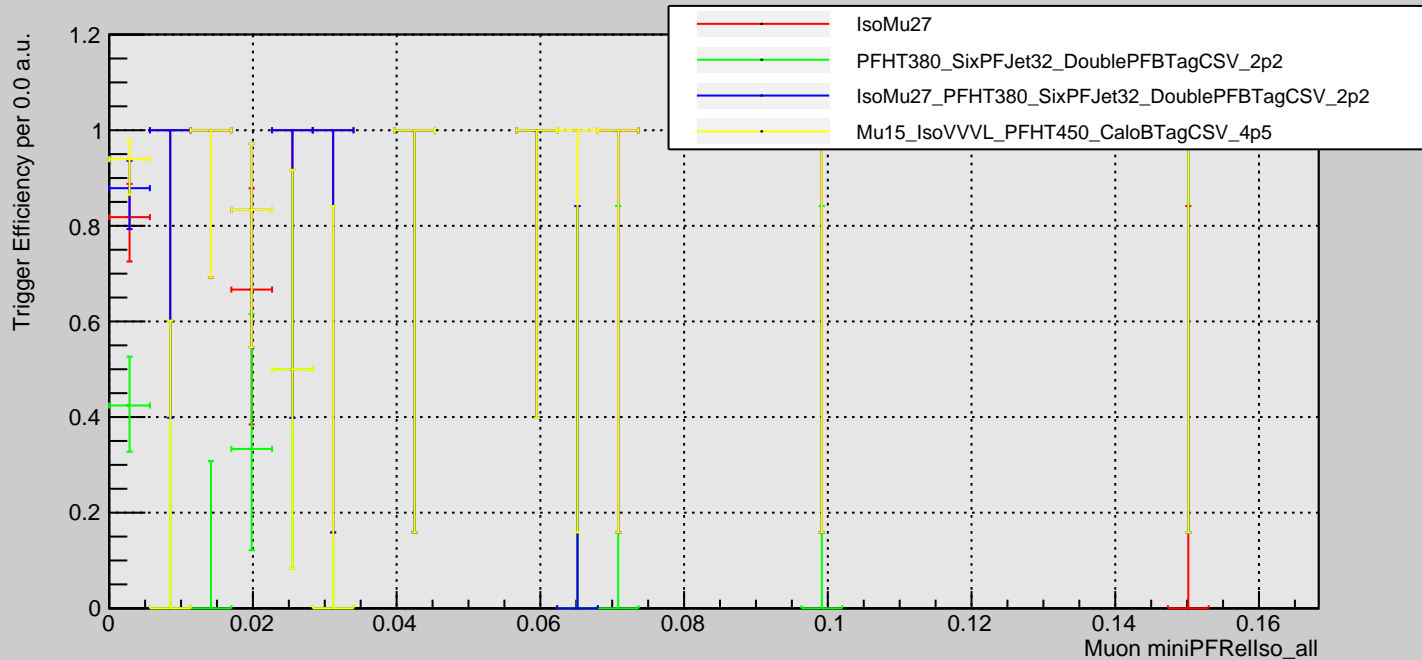
Muon Pt = 45



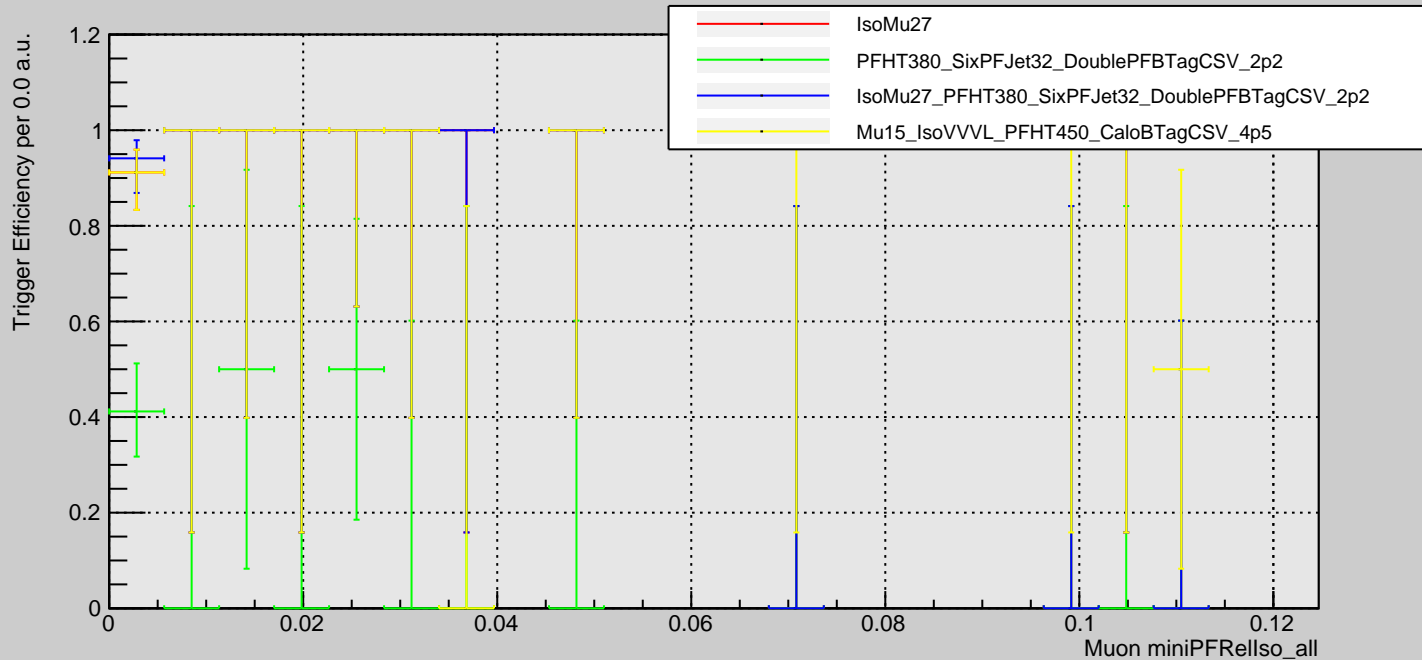
Muon Pt = 50



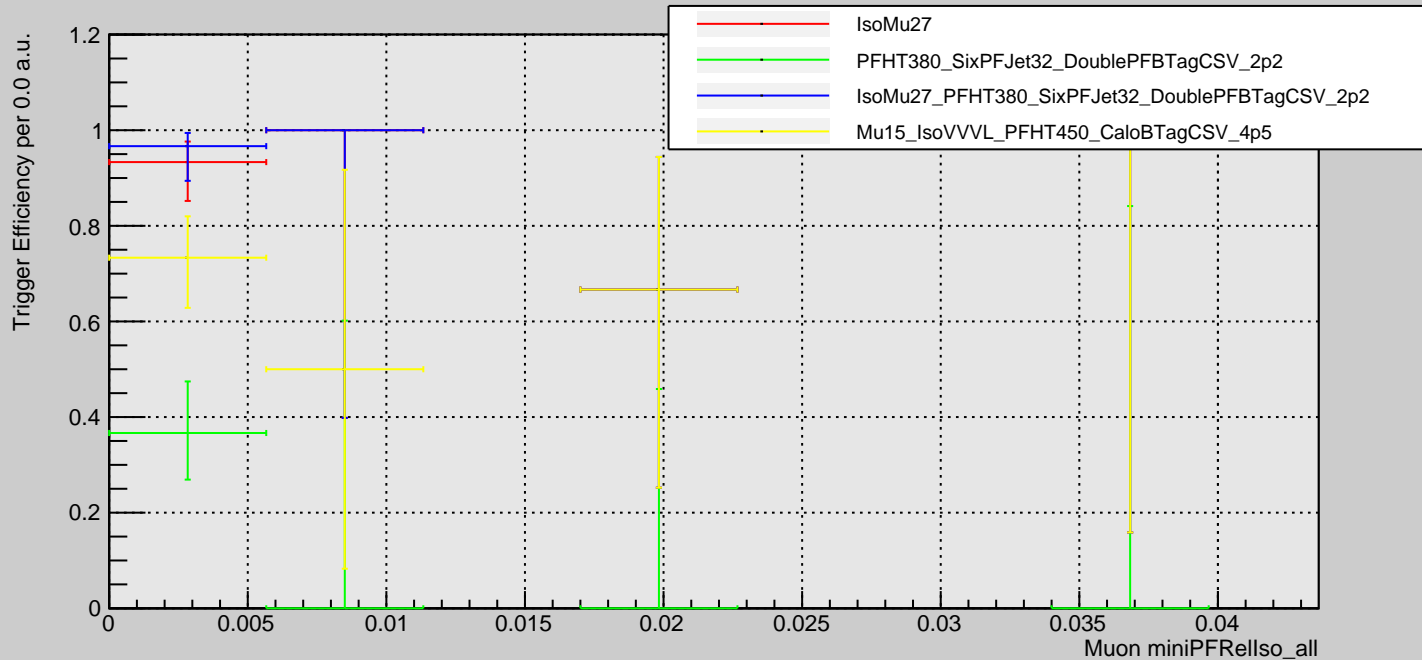
Muon Pt = 55



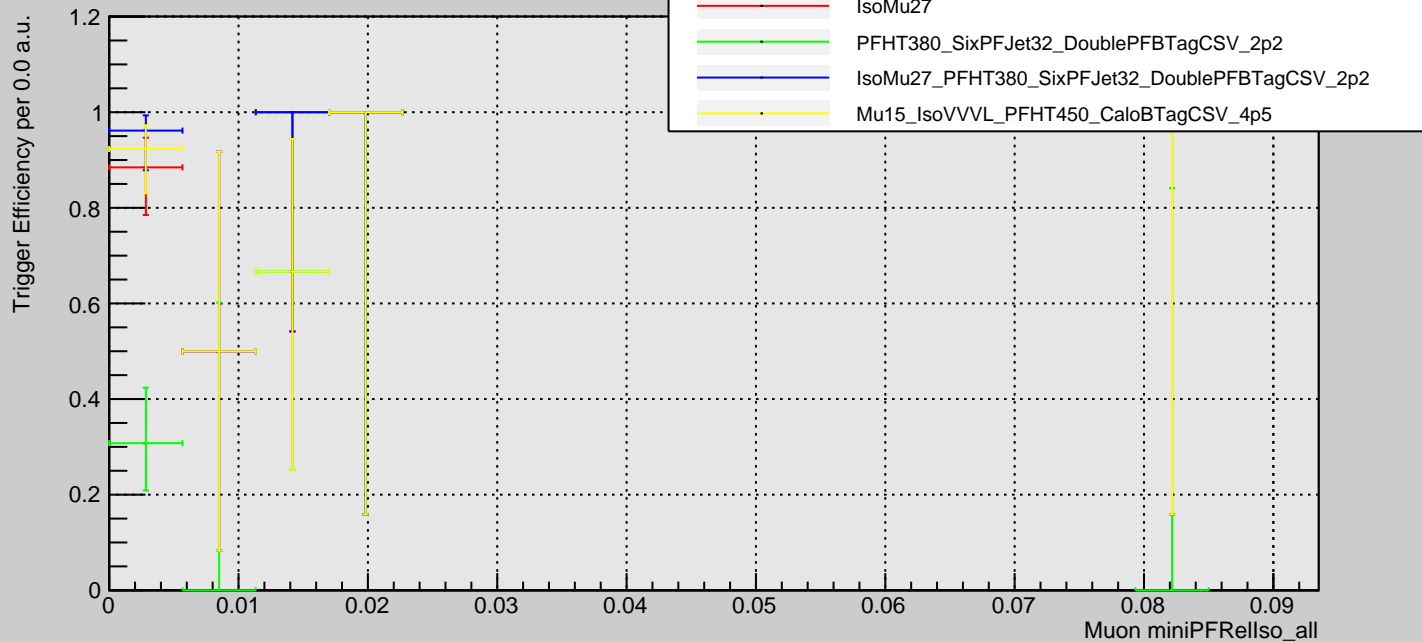
Muon Pt = 60



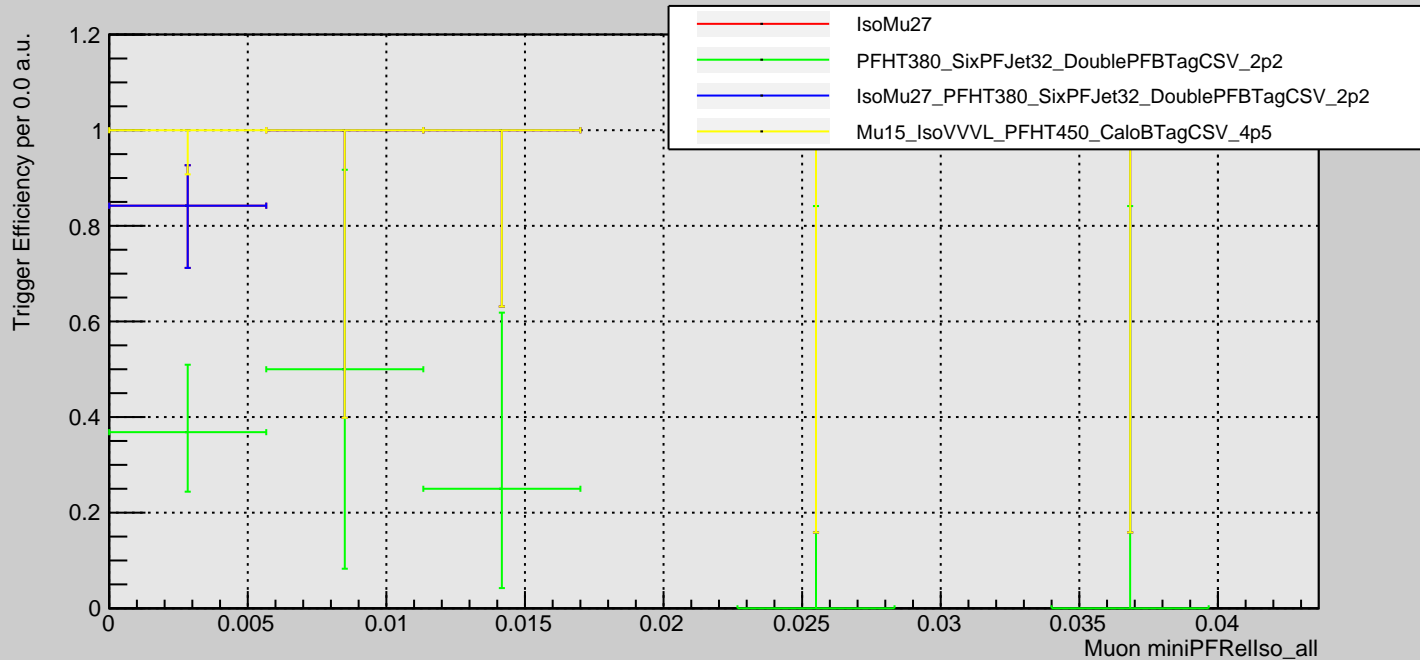
Muon Pt = 65



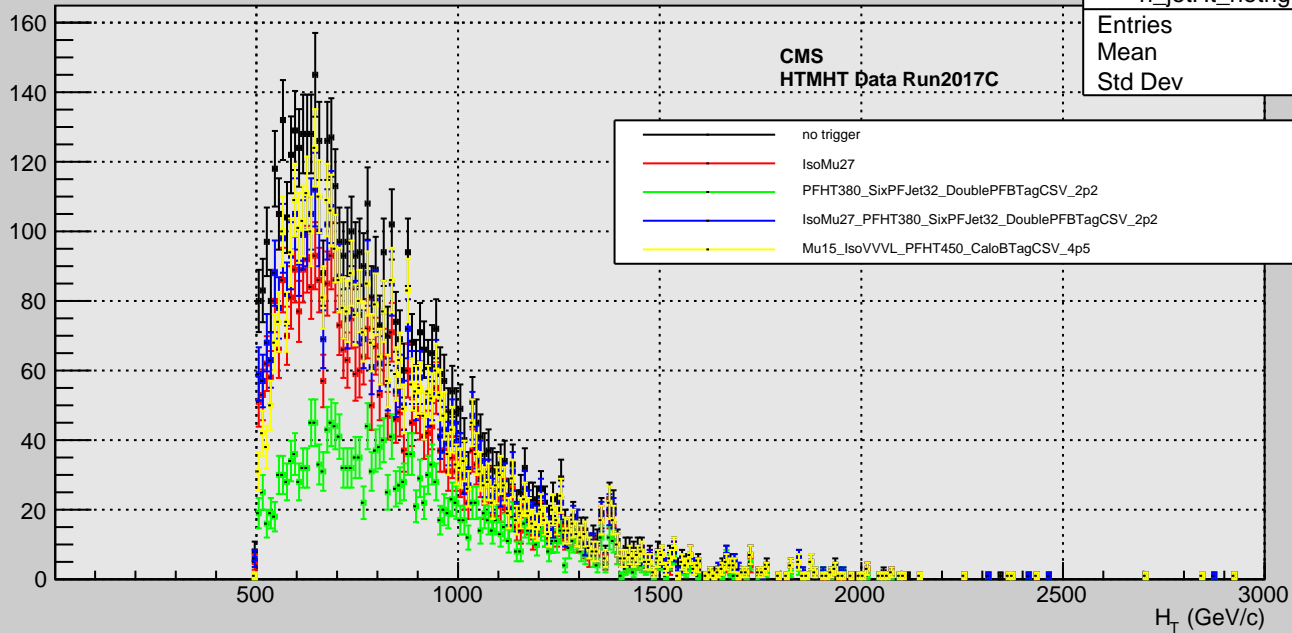
Muon Pt = 70



Muon Pt = 75

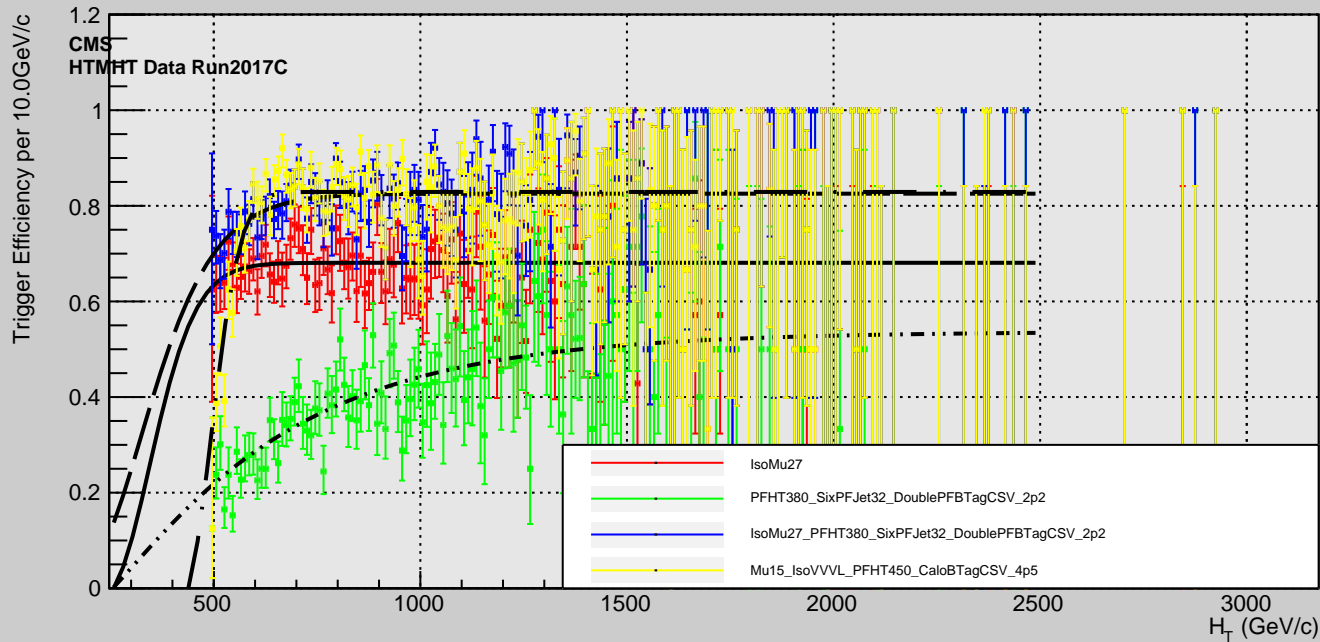


Number of Events per 10 GeV/c

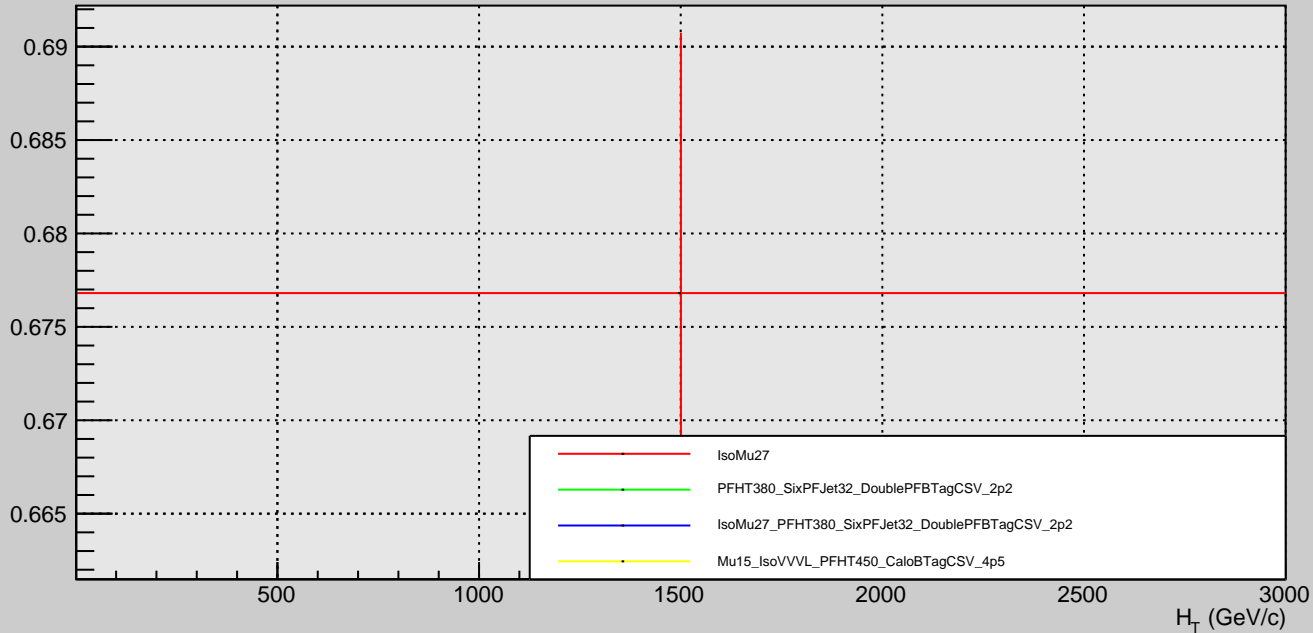


h_jetHt_notrigger

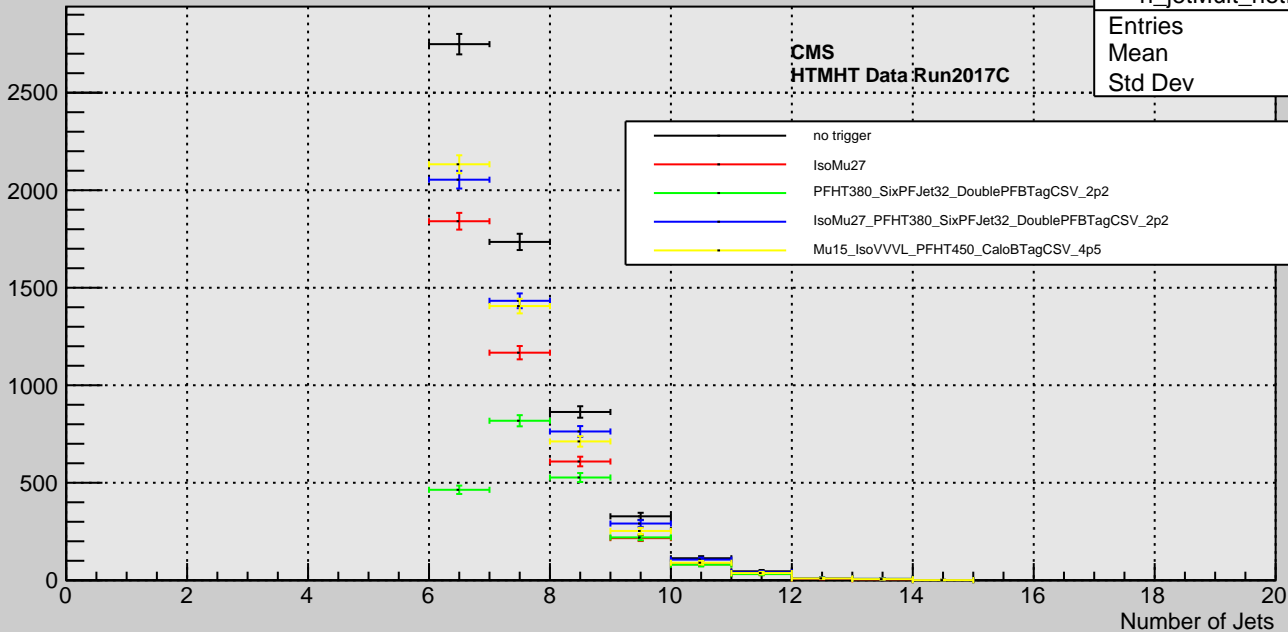
Entries	5853
Mean	835.8
Std Dev	278.6

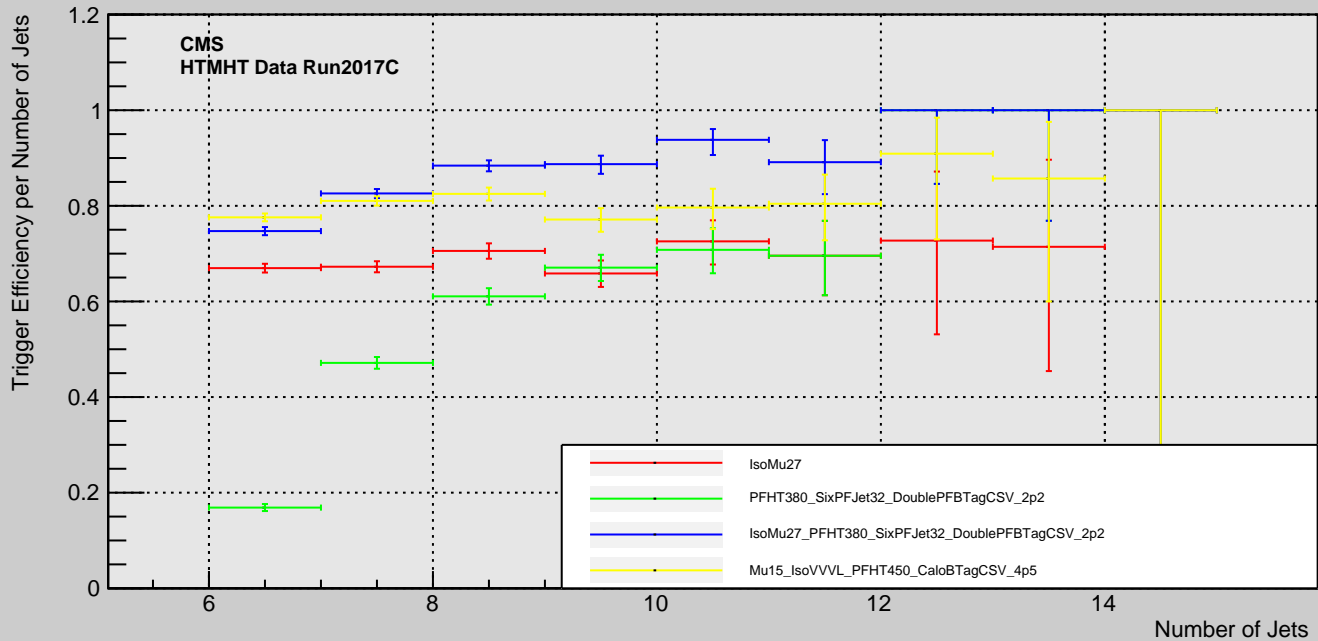


Trigger Efficiency per 2999.0 GeV/c

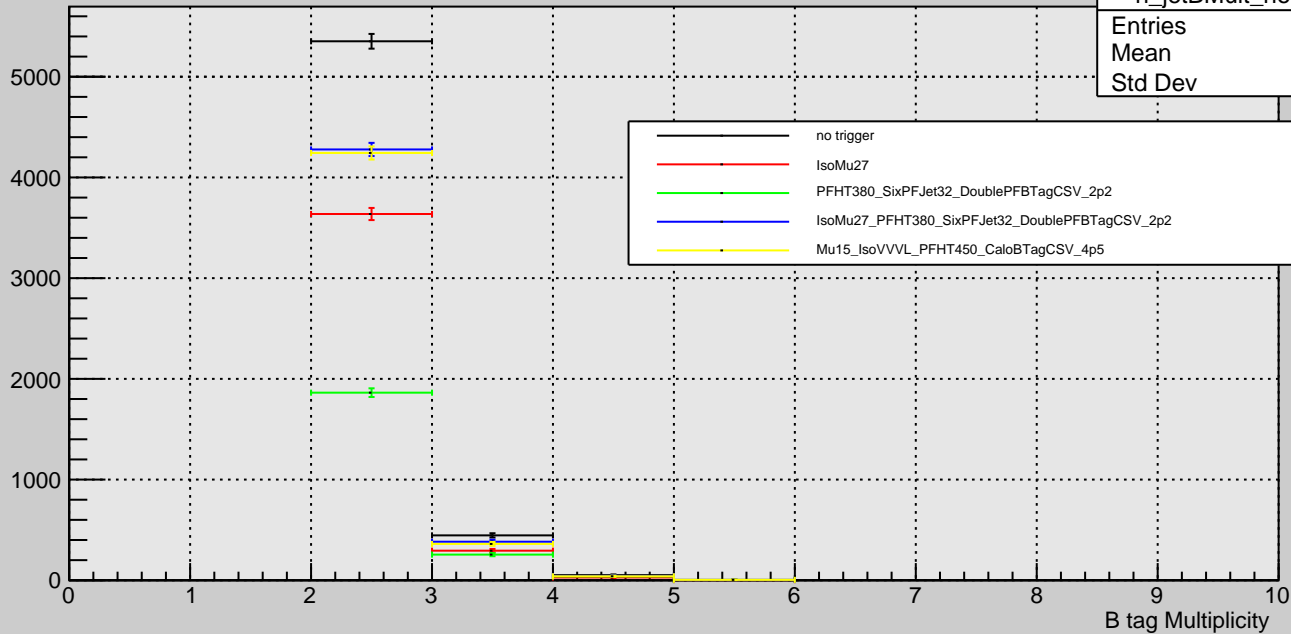


Number of Events per Number of Jets





Number of Events per Number of Jets



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Trigger Efficiency per 1.0 GeV/c

1.2
1
0.8
0.6
0.4
0.2
0

2

2.5

3

3.5

4

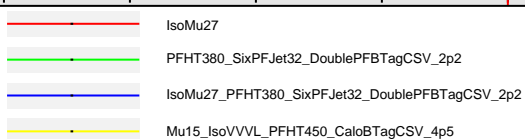
4.5

5

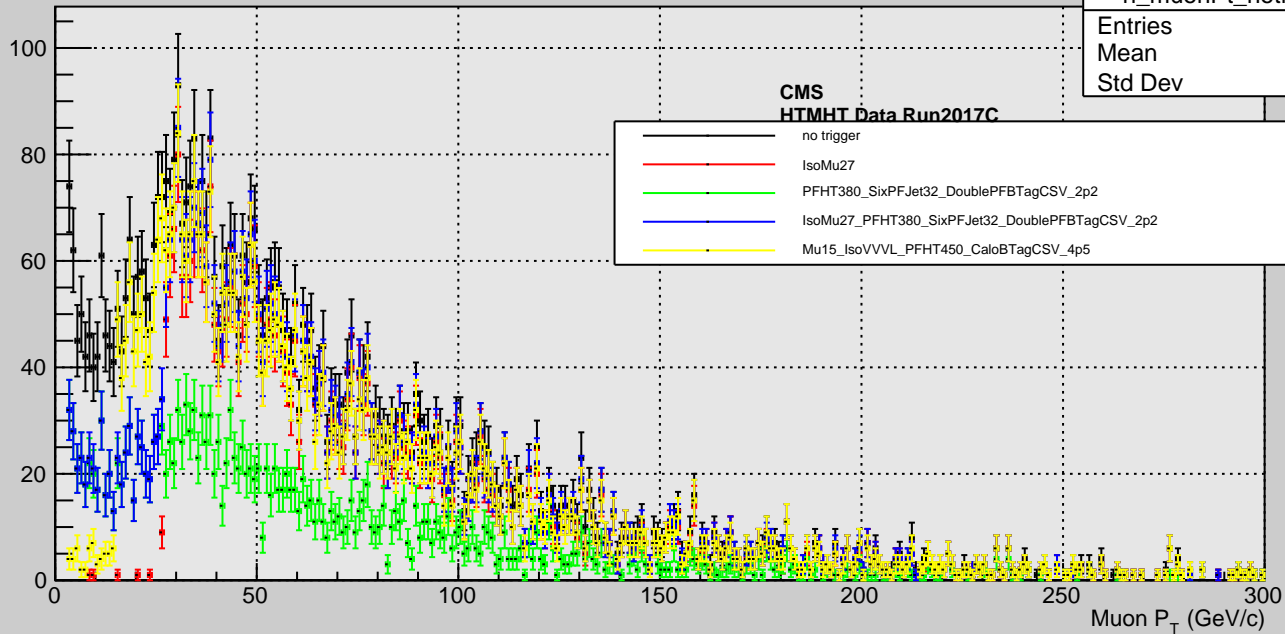
5.5

6

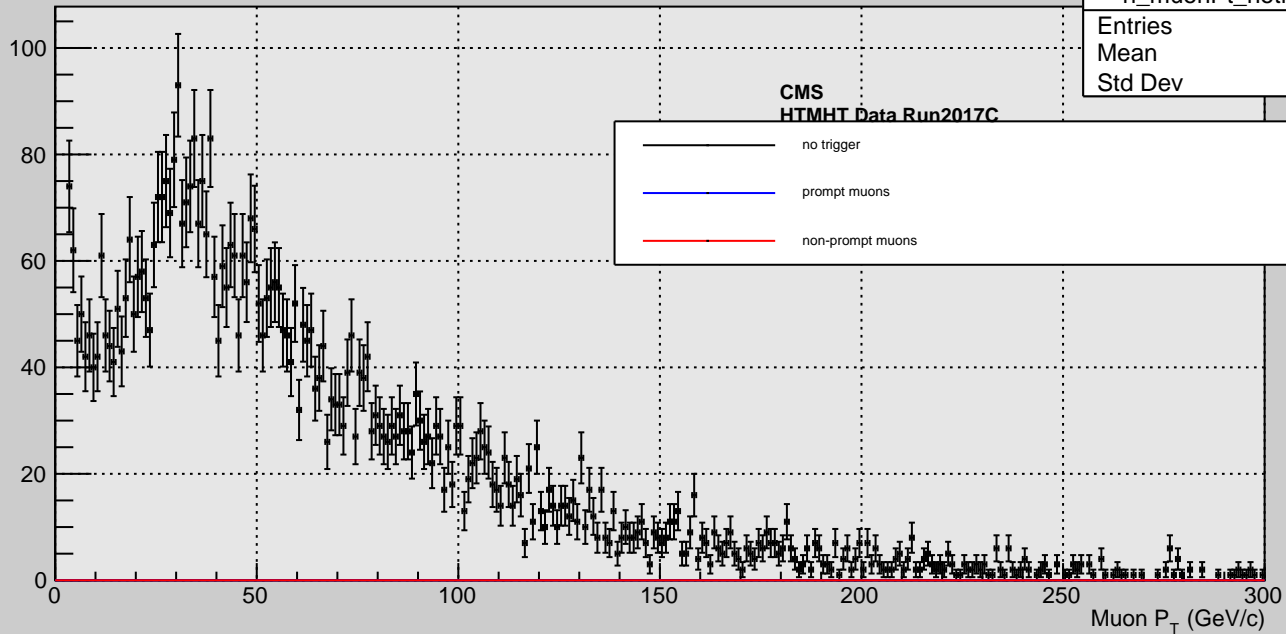
B tag Multiplicity

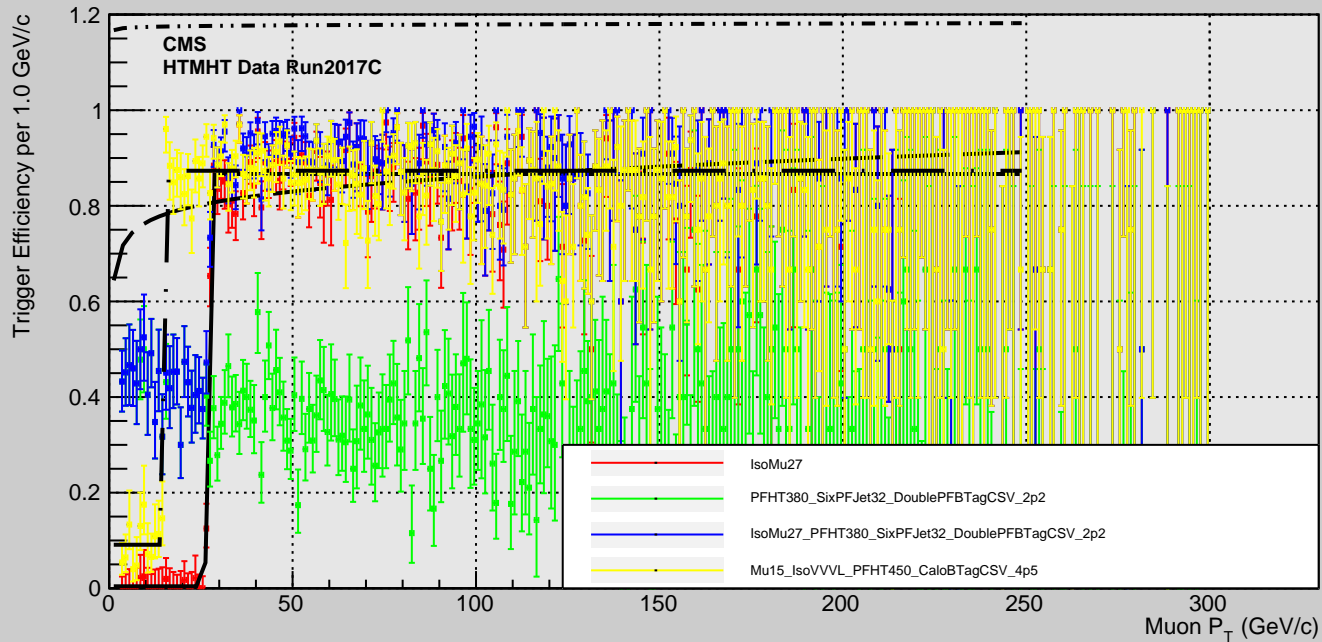


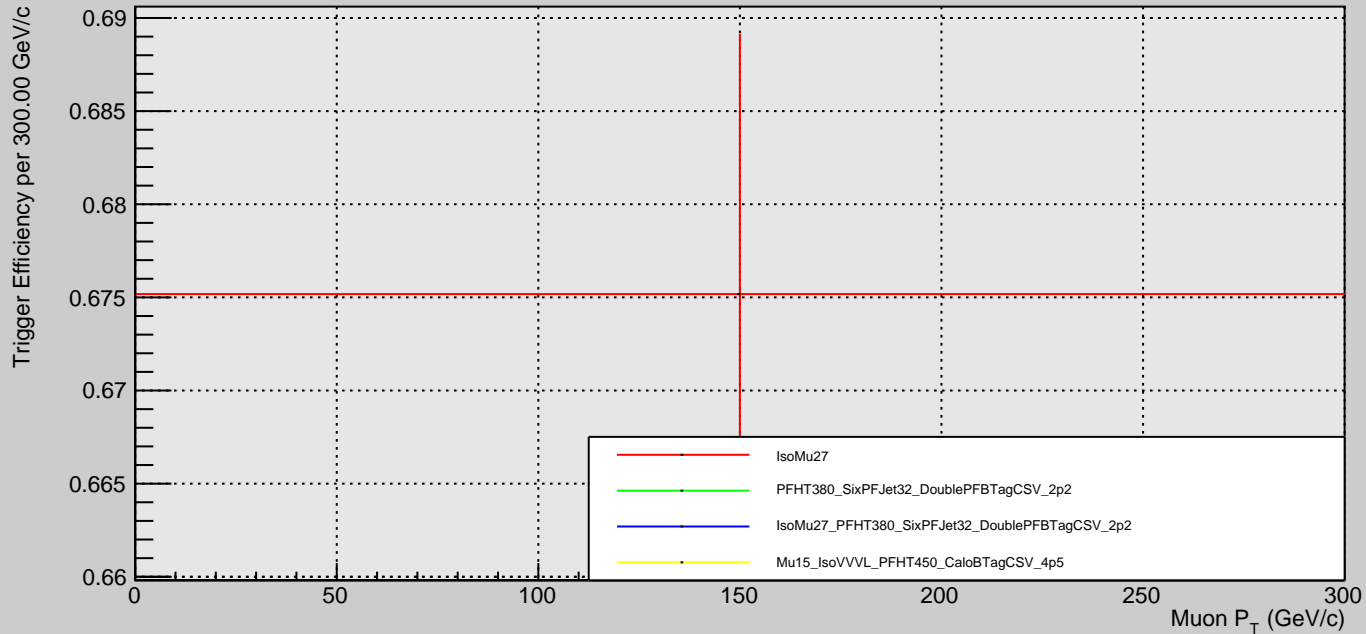
Number of Events per 1 GeV/c



Number of Events per 1 GeV/c





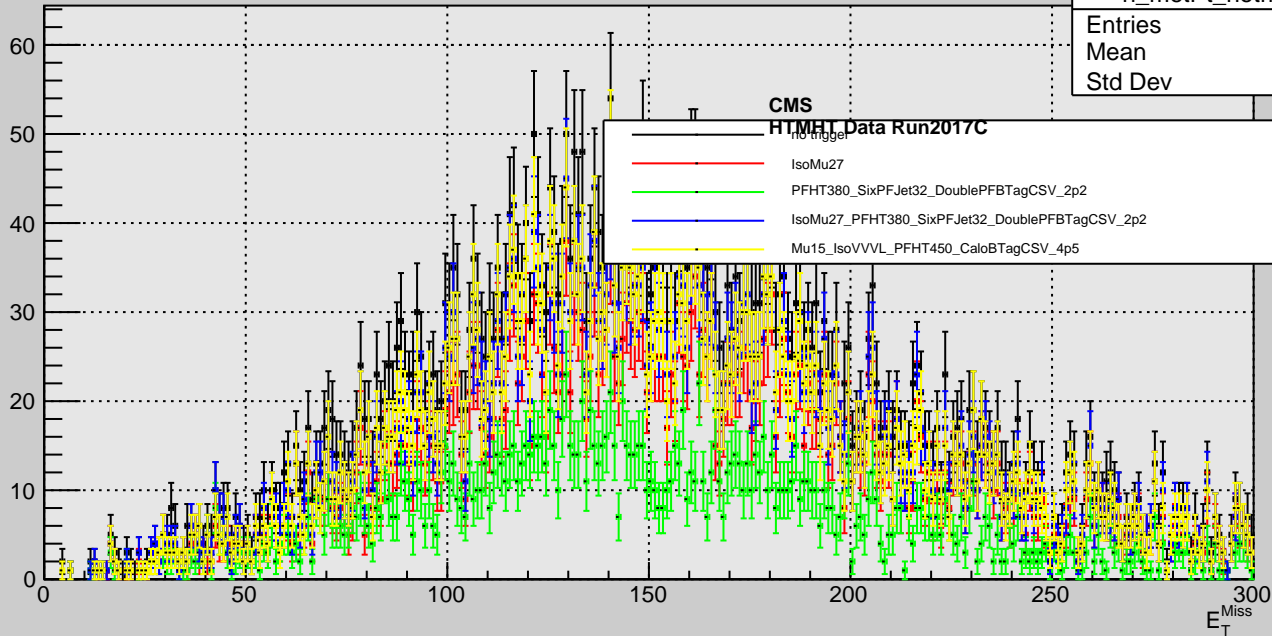
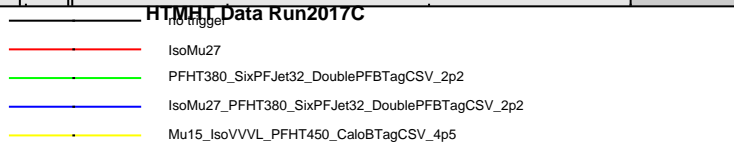


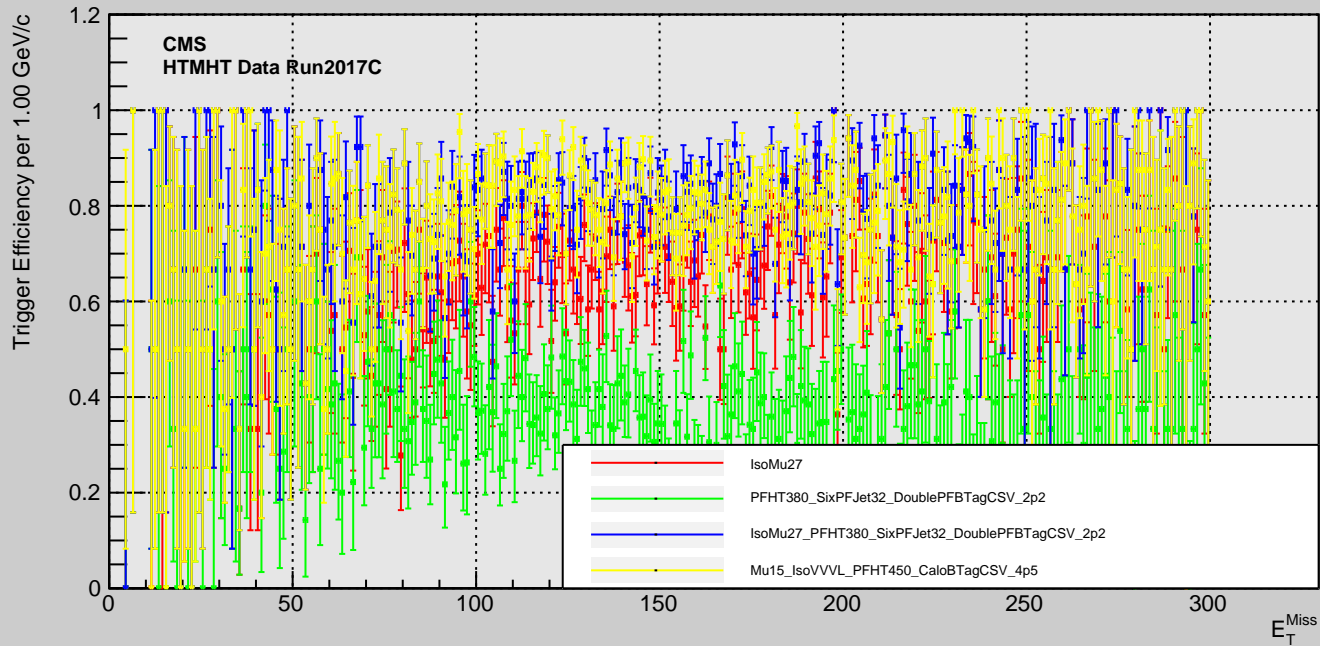
Number of Events per 1 GeV/c

h_metPt_notrigger	
Entries	5853
Mean	154
Std Dev	58.03

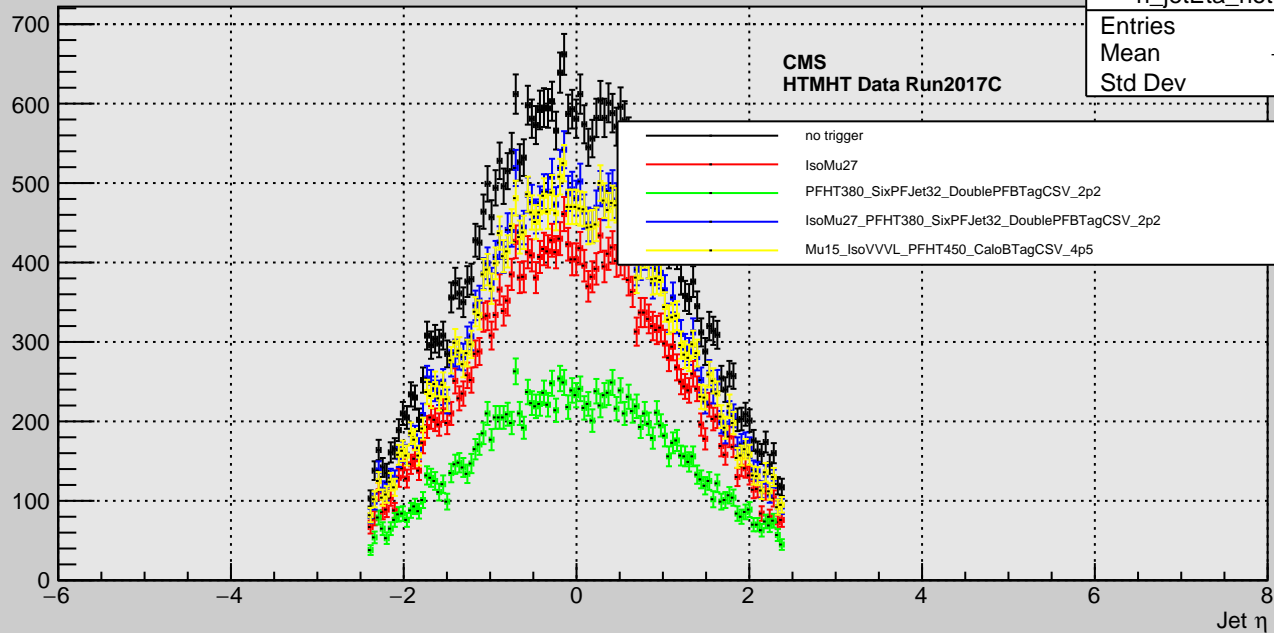
CMS

HT, MHT Data Run2017C





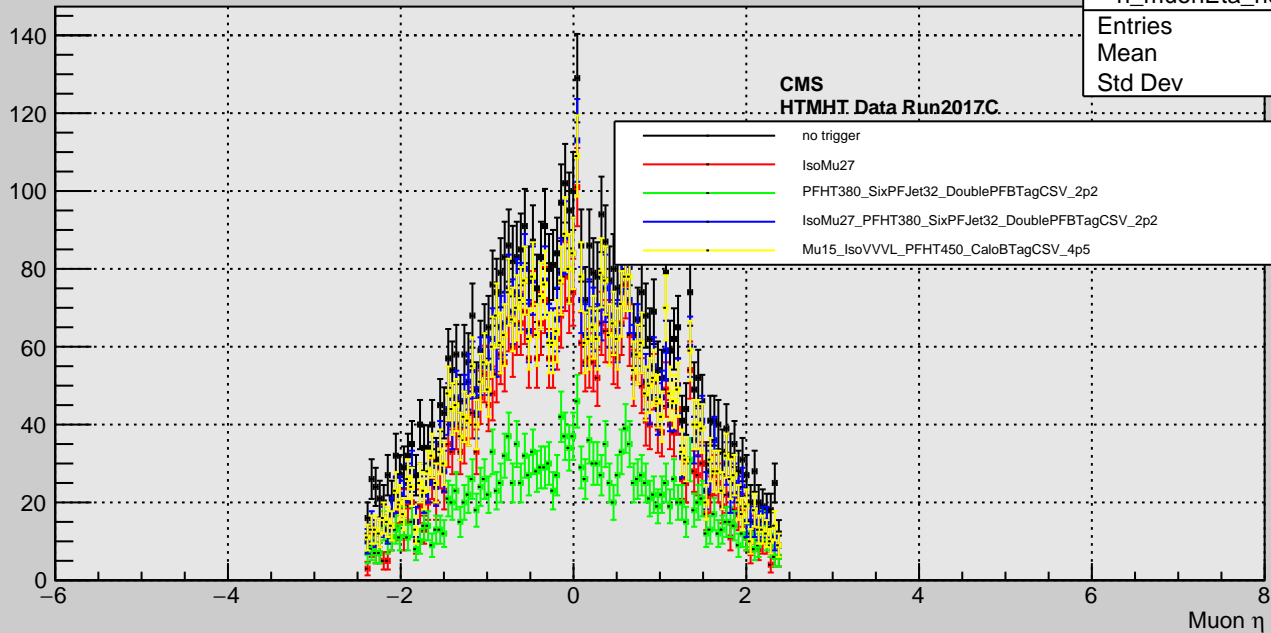
Number of Events per $\delta\eta = 0.046$

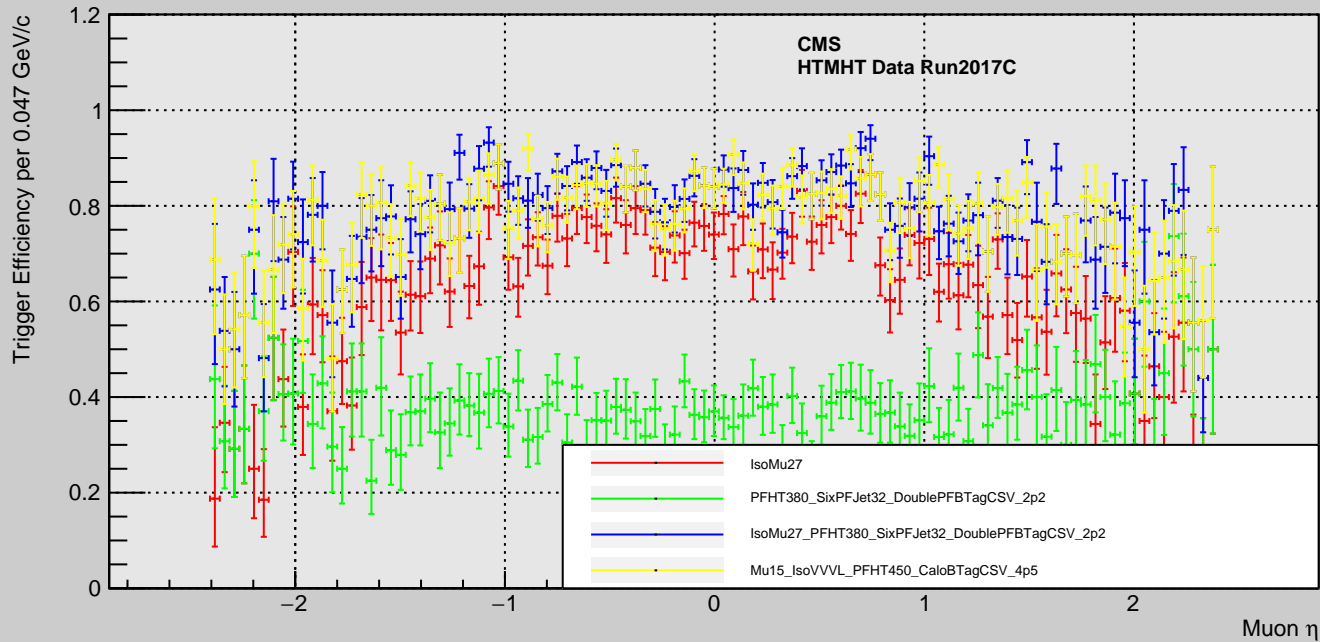


h_jetEta_notrigger

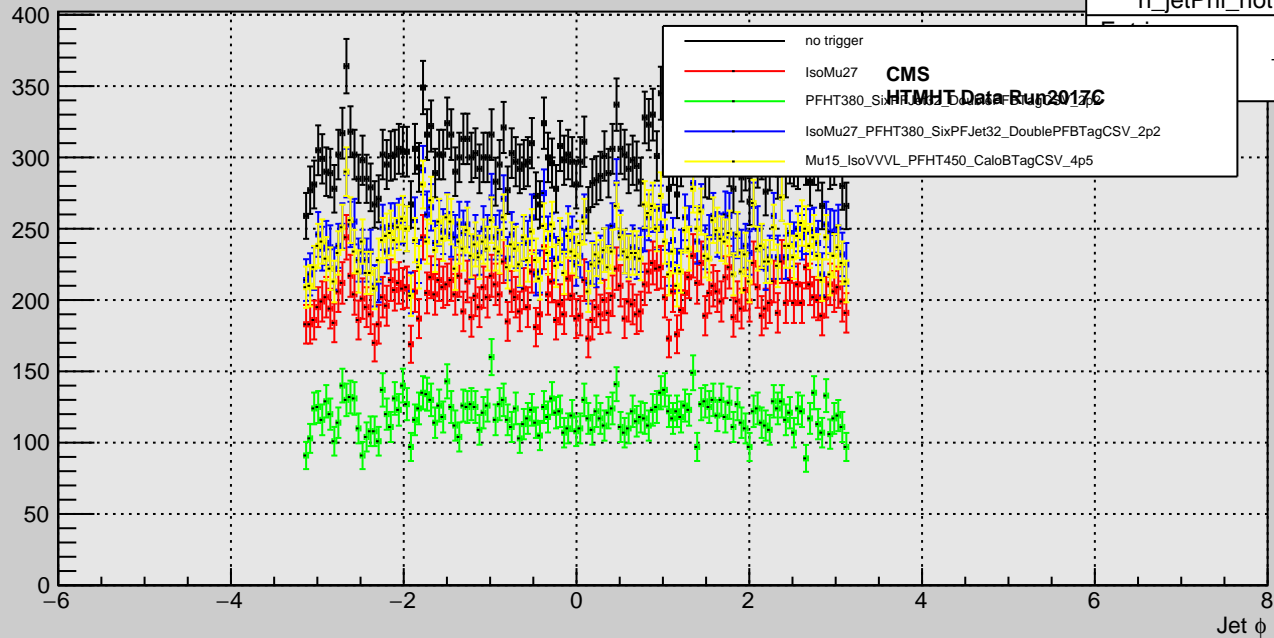
Entries	40368
Mean	-0.01678
Std Dev	1.109

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

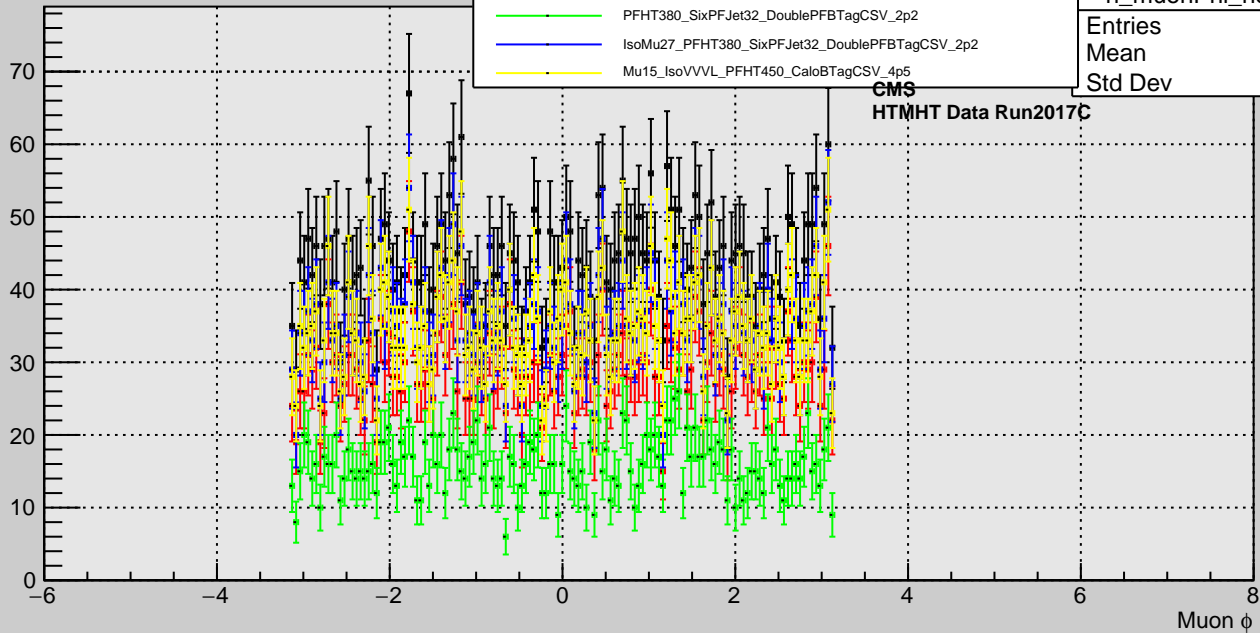




Number of Events per $\delta\phi = 0.046$



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



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h_muonPhi_notrigger	
Entries	5853
Mean	0.01843
Std Dev	1.81

