

On-line (pre-)selection Requisites for:

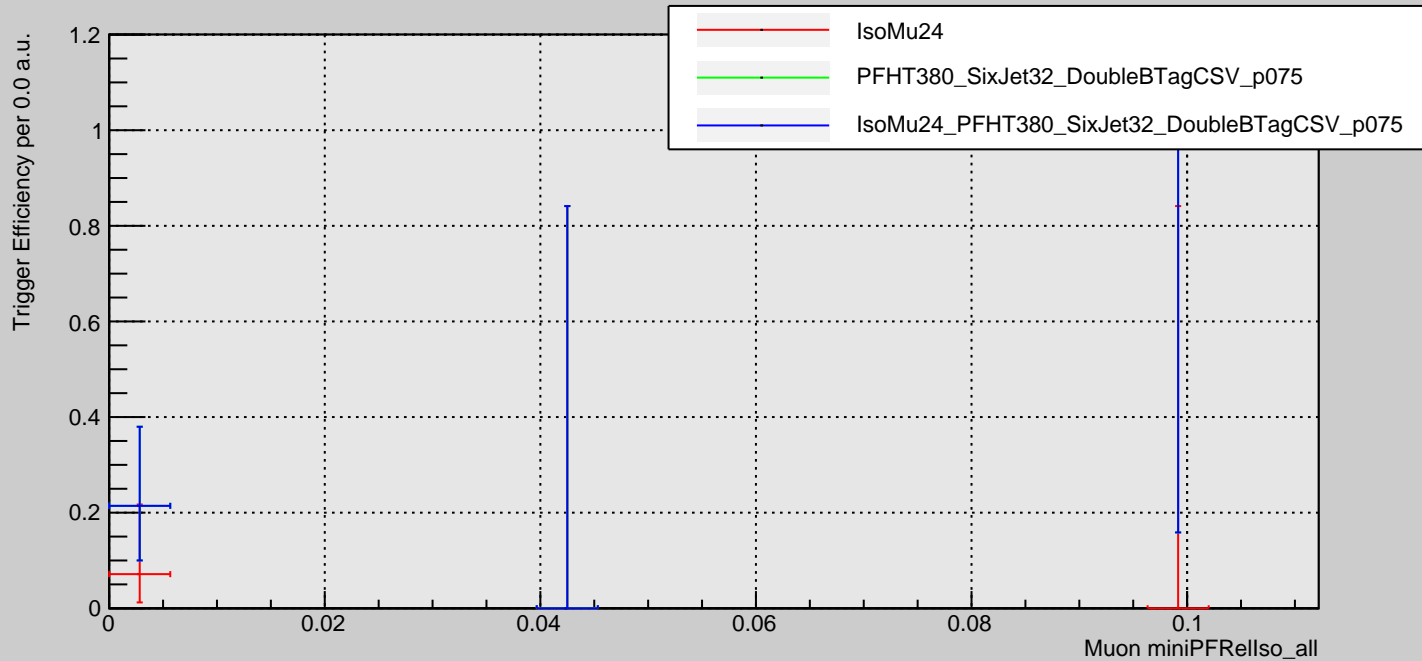
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

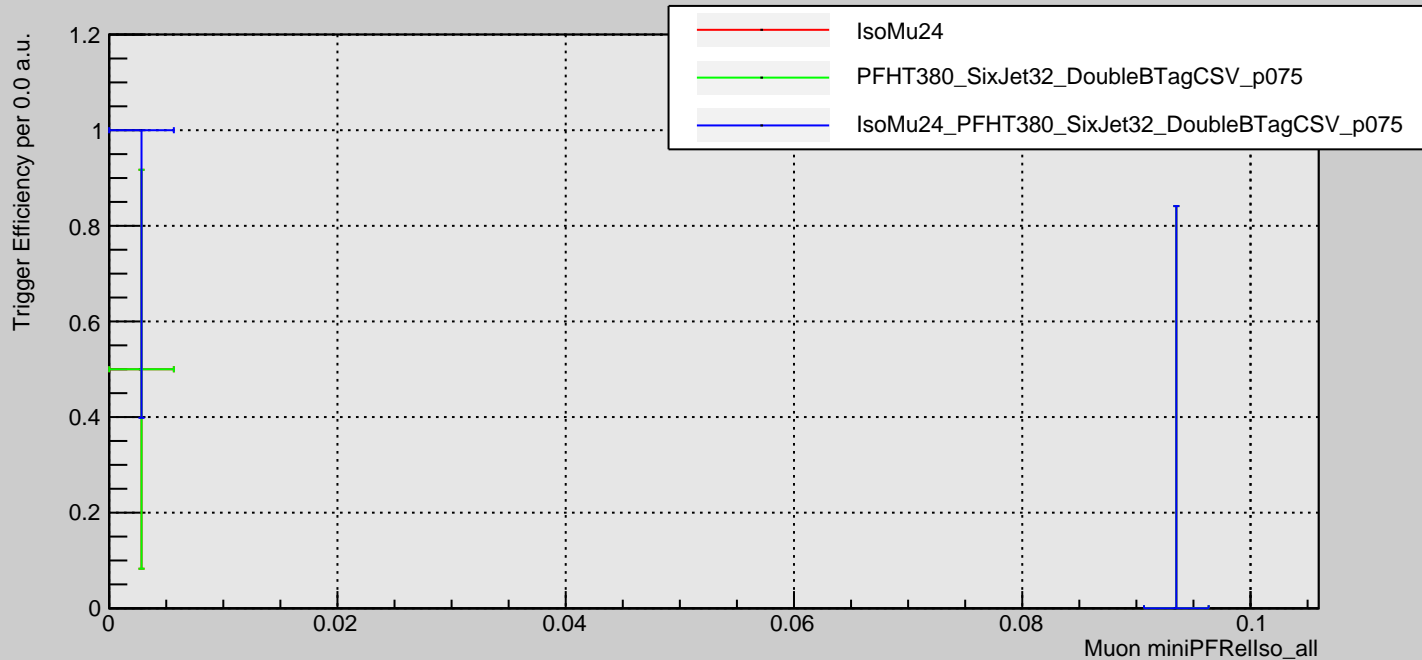
Off-line (post-)selection Requisites for:

- **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)

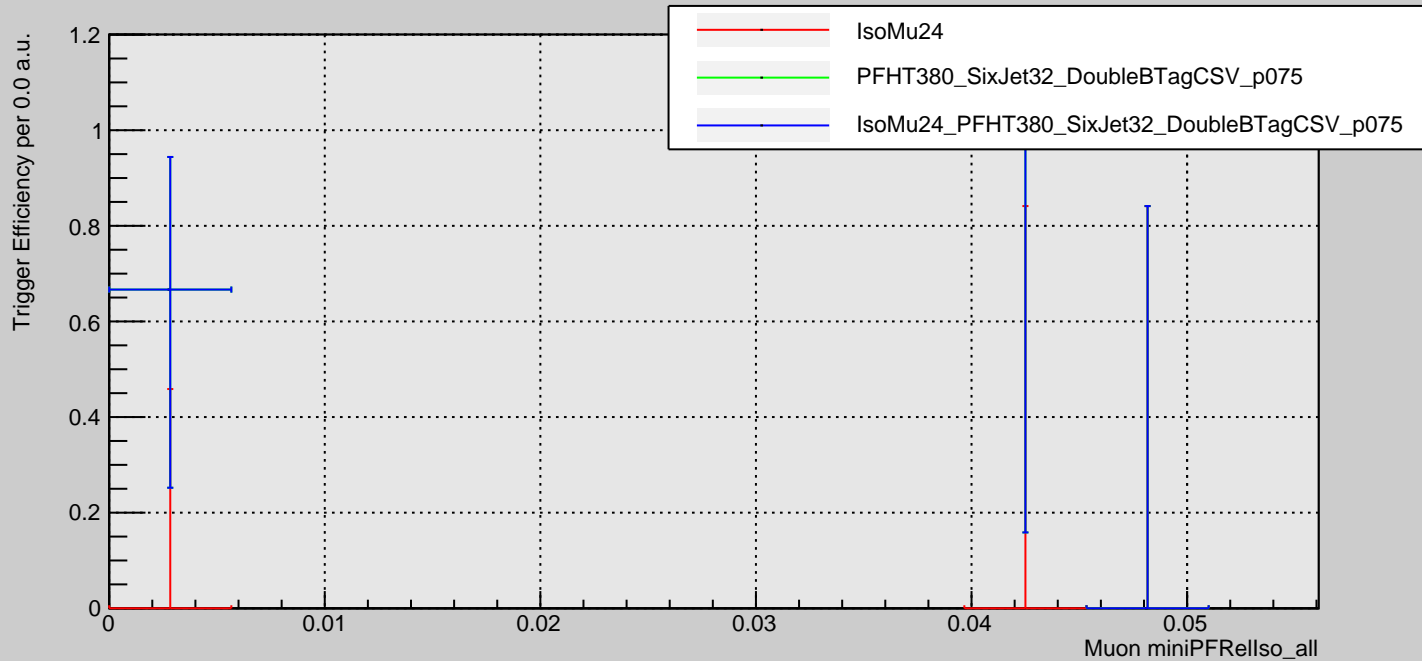
Muon Pt = 5



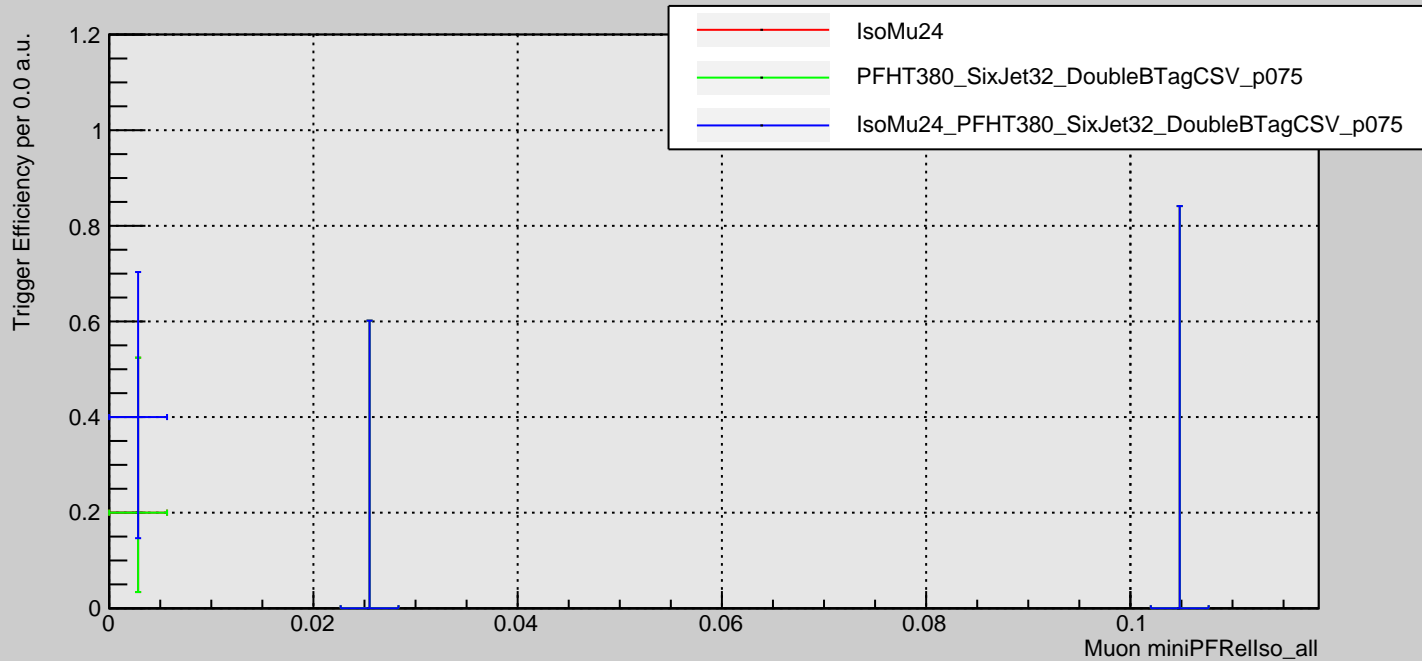
Muon Pt = 10



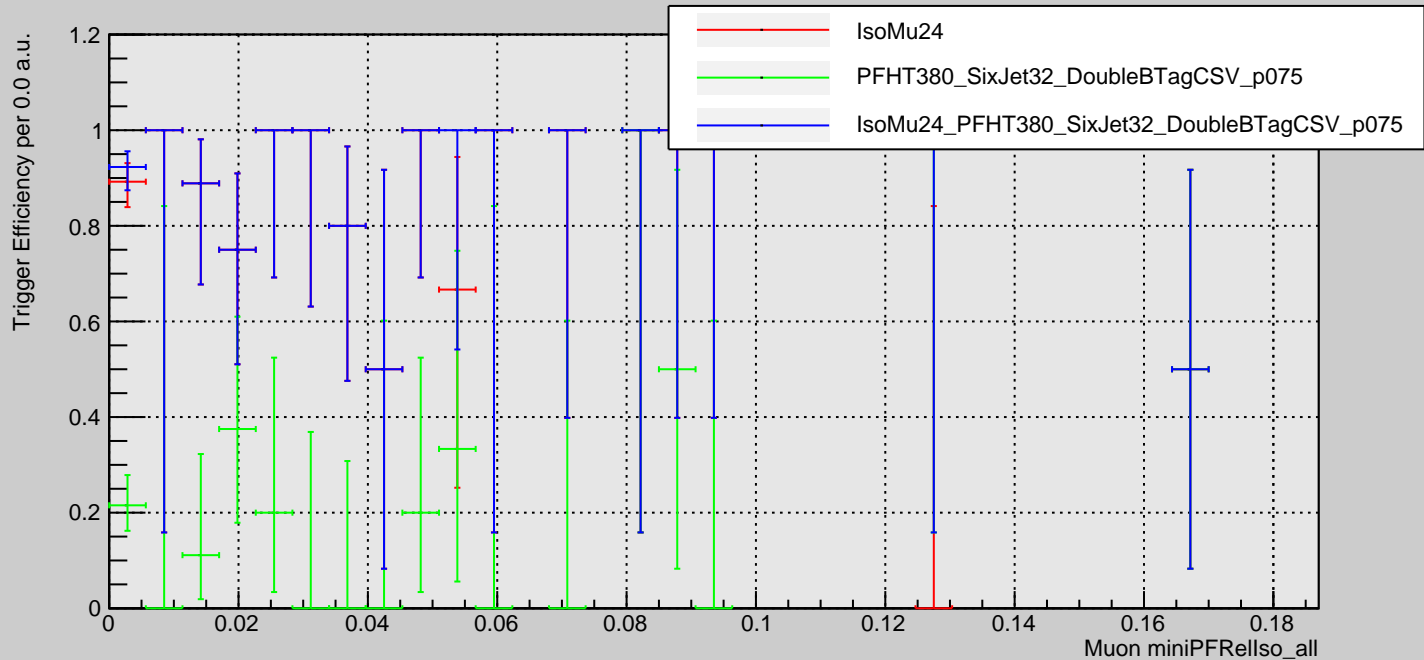
Muon Pt = 15



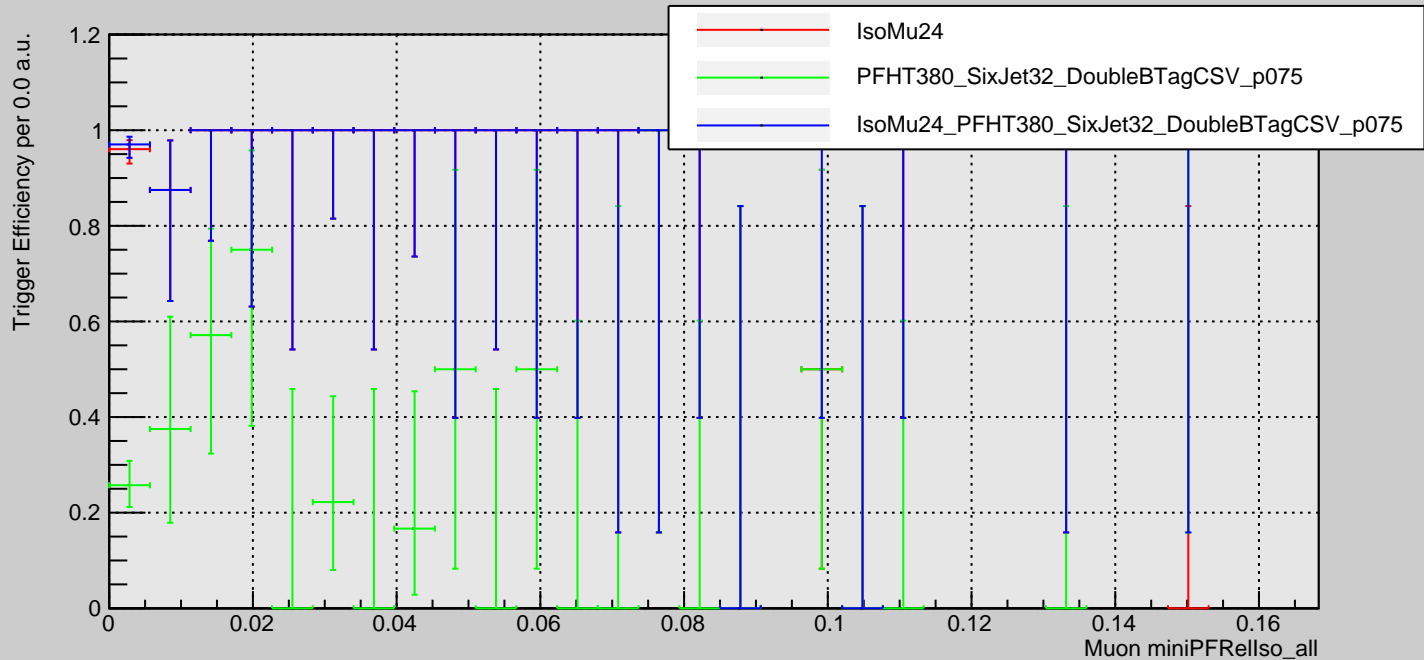
Muon Pt = 20



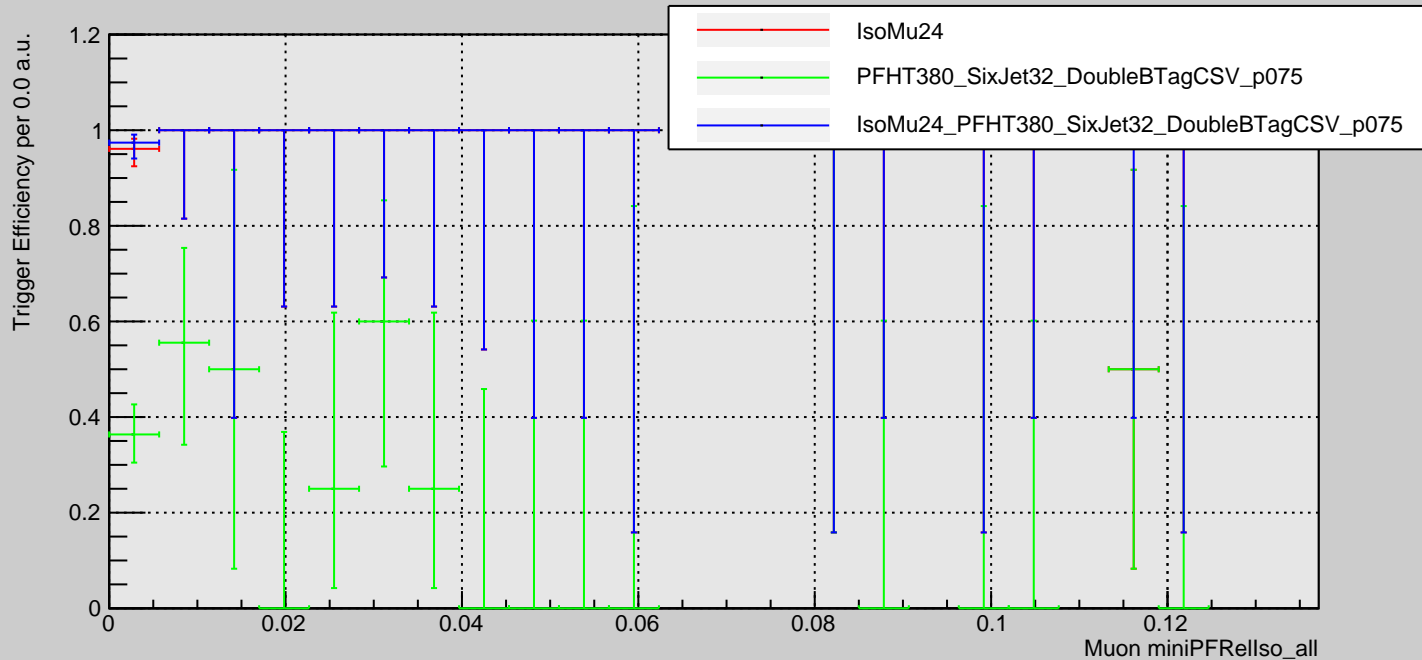
Muon Pt = 25



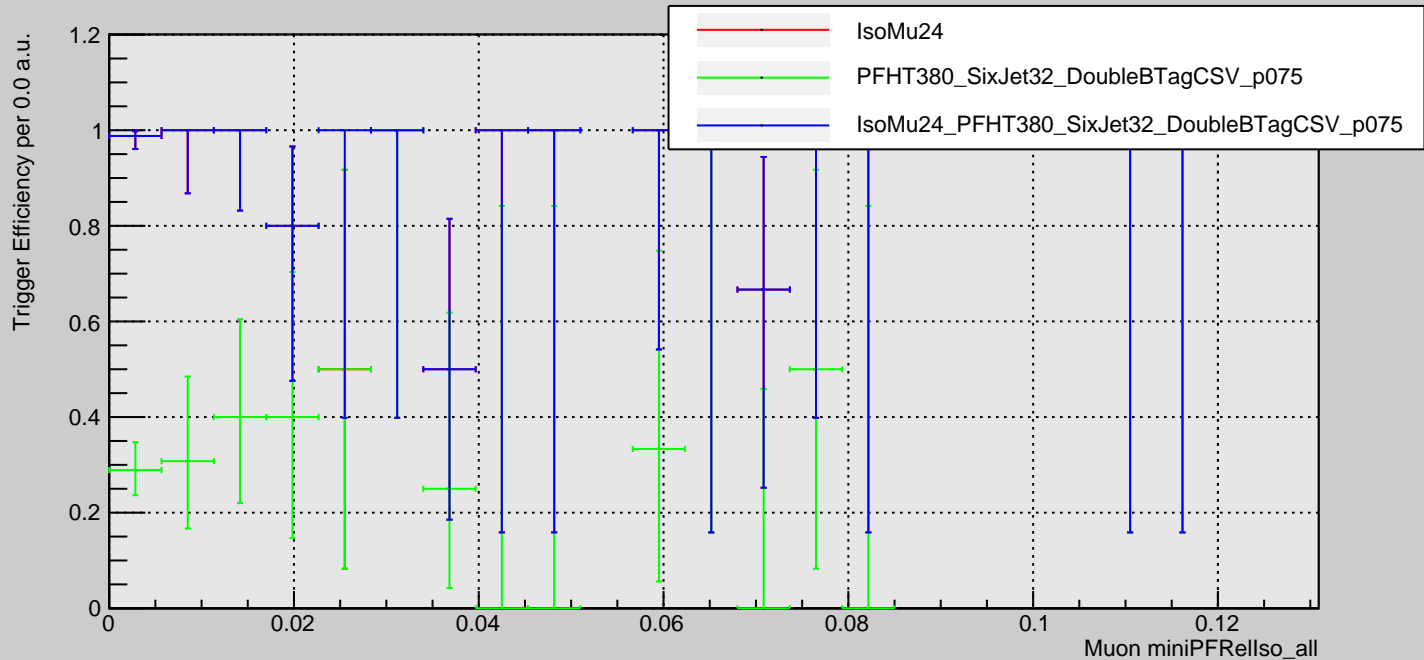
Muon Pt = 30



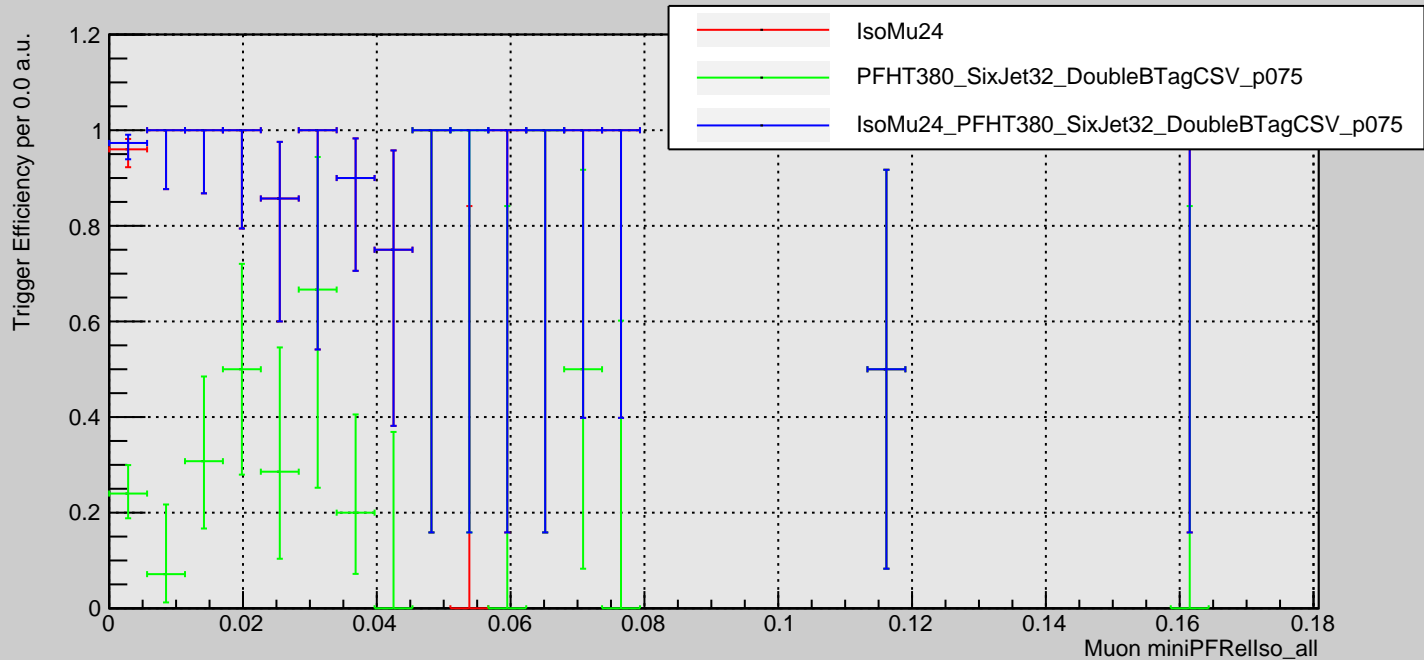
Muon Pt = 35



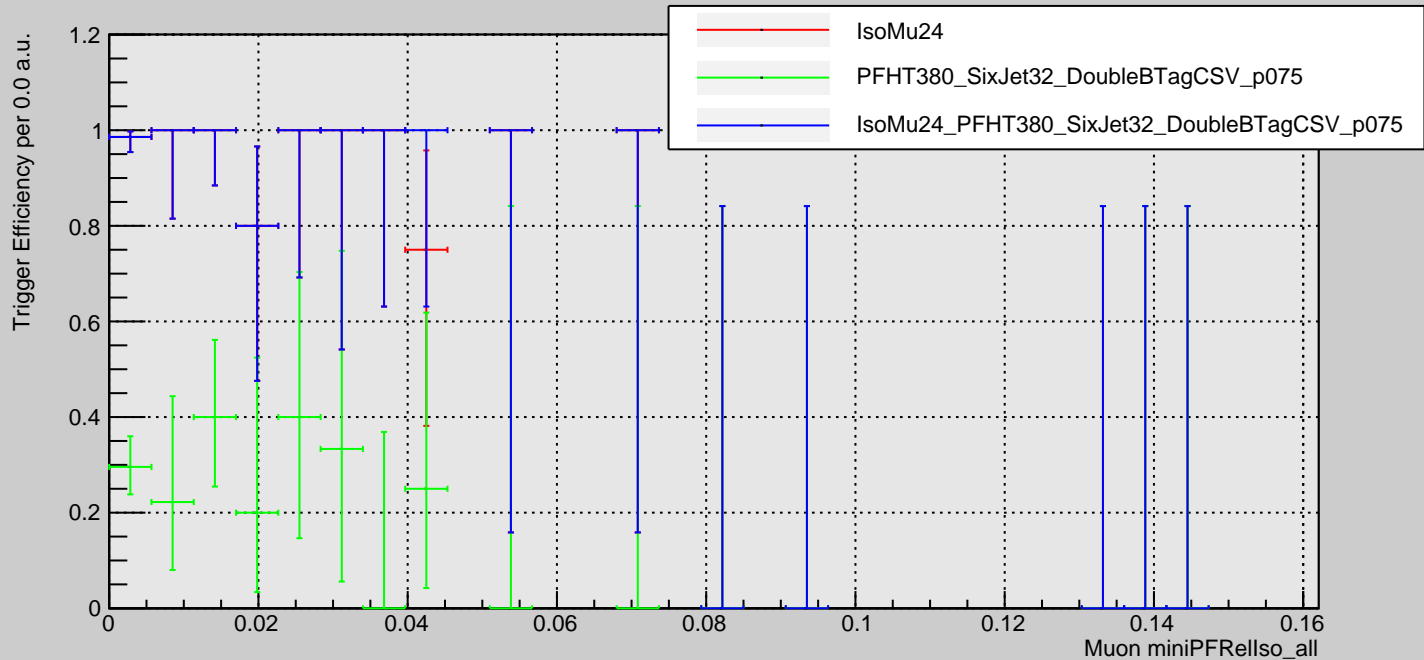
Muon Pt = 40



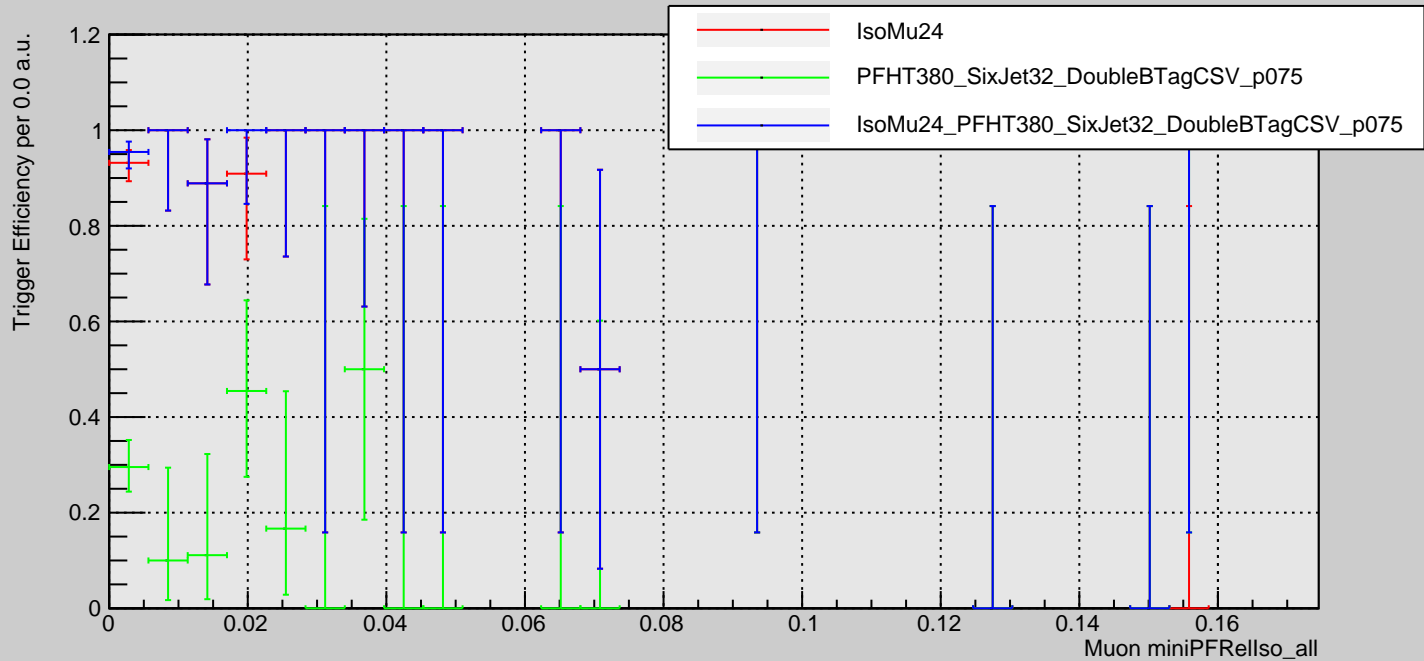
Muon Pt = 45



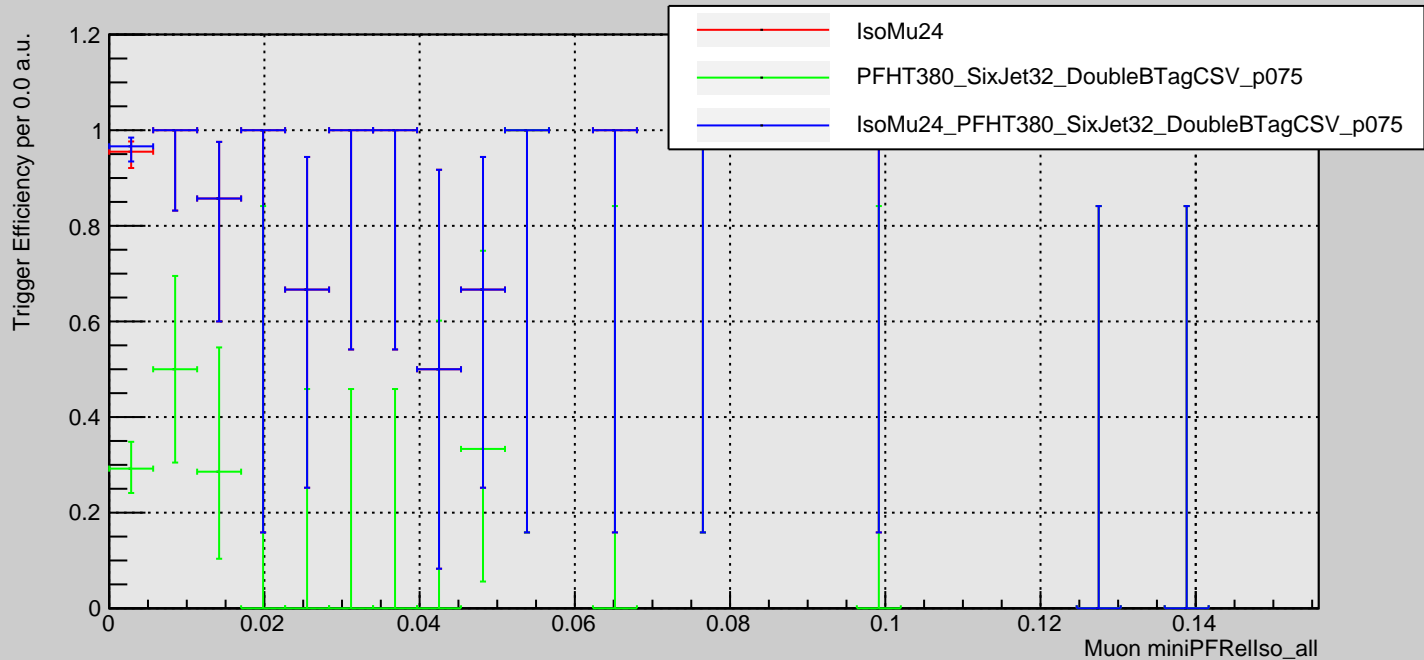
Muon Pt = 50



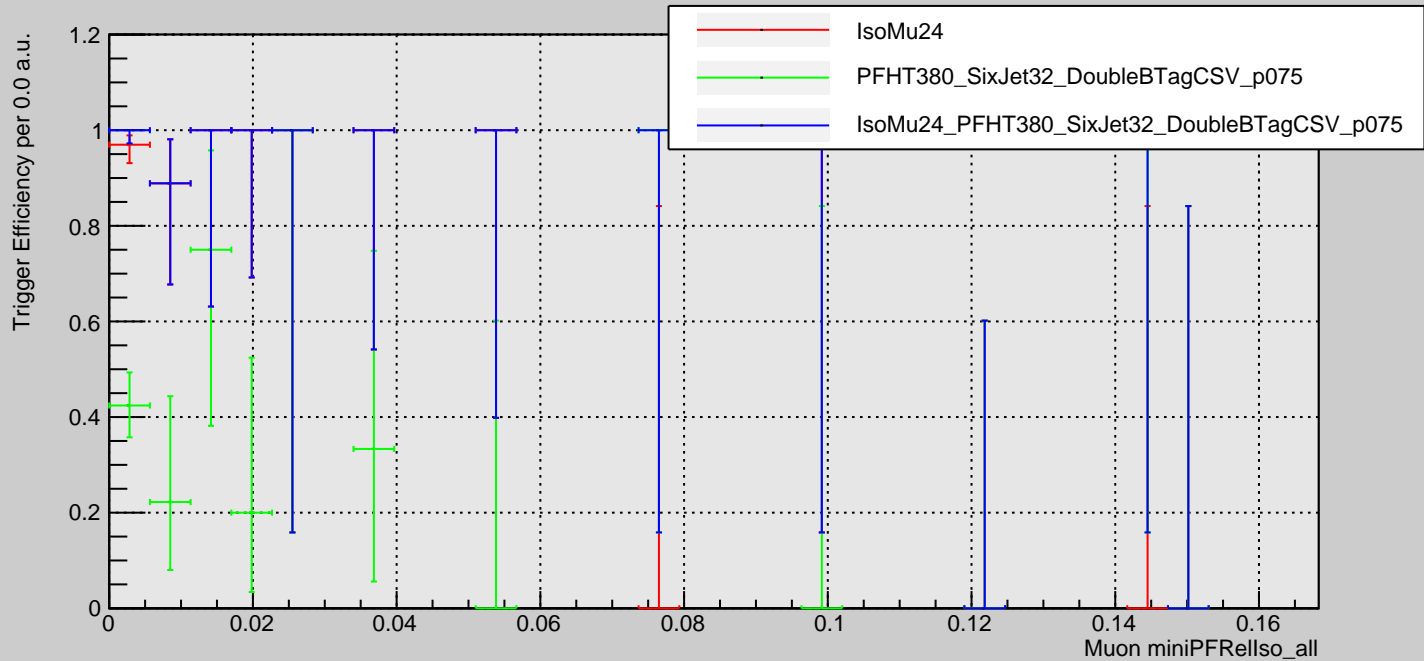
Muon Pt = 55



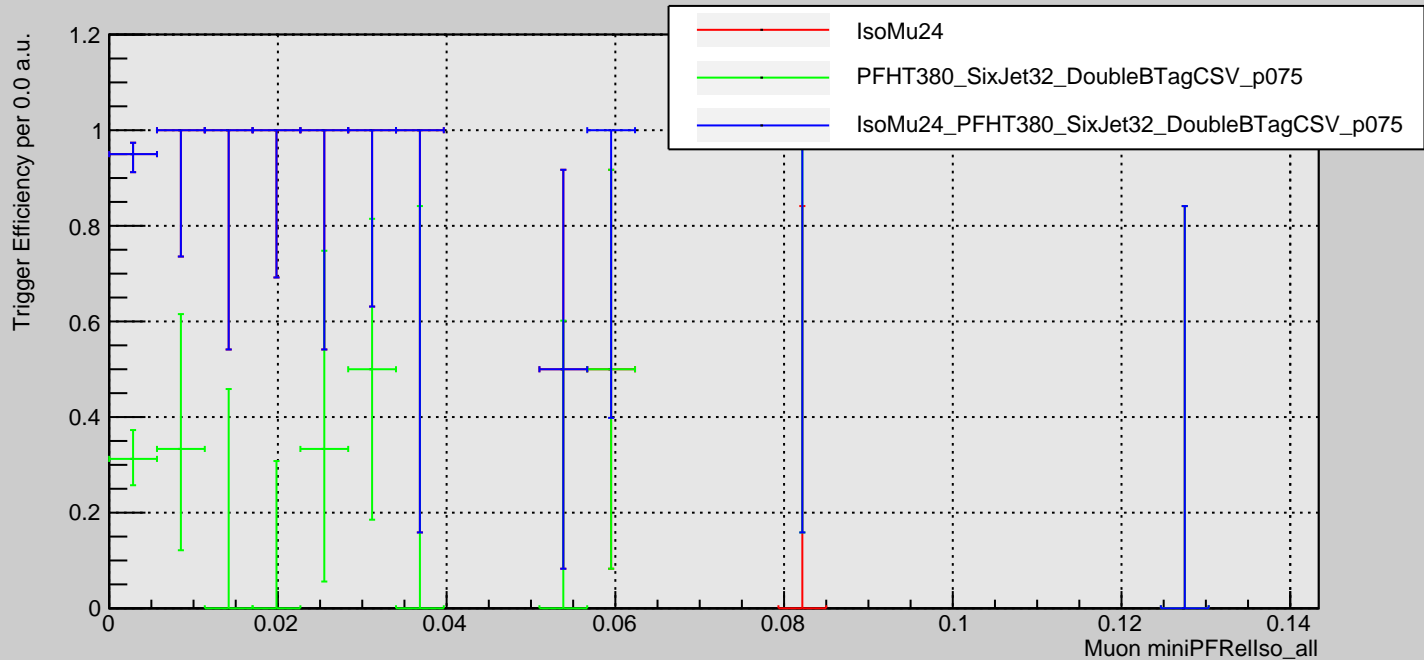
Muon Pt = 60



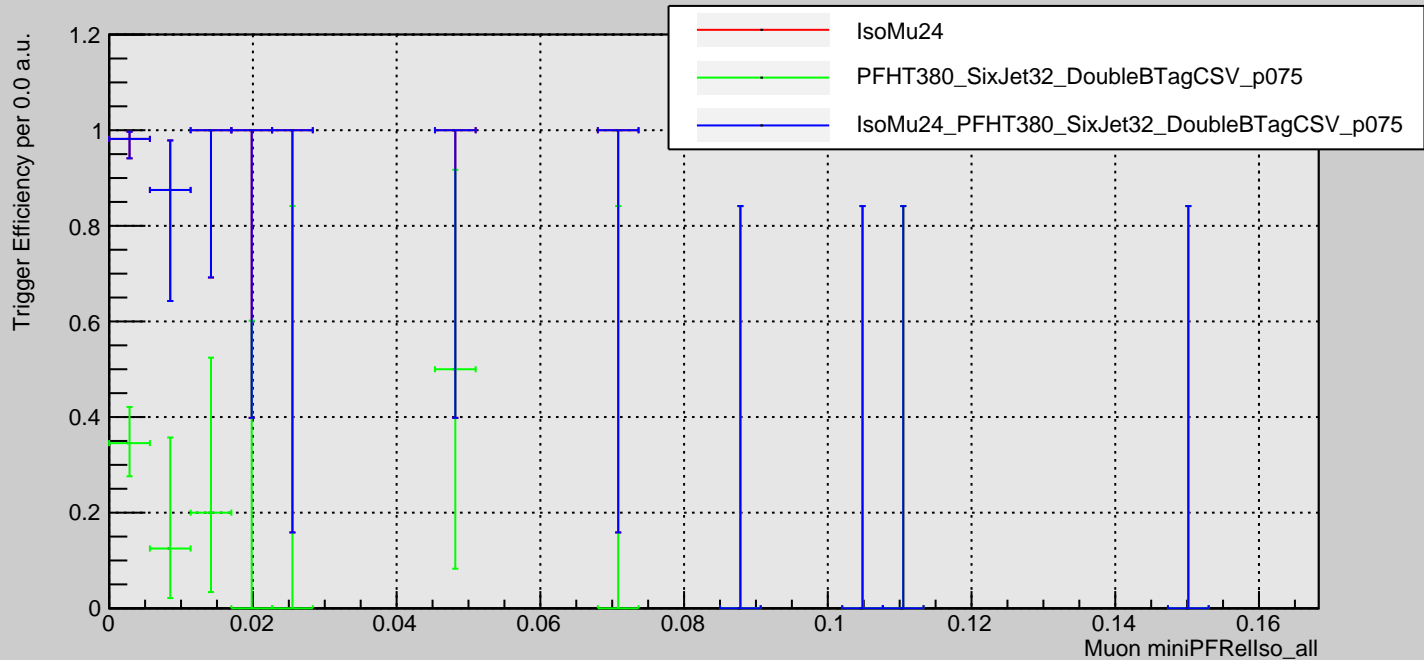
Muon Pt = 65



Muon Pt = 70



Muon Pt = 75

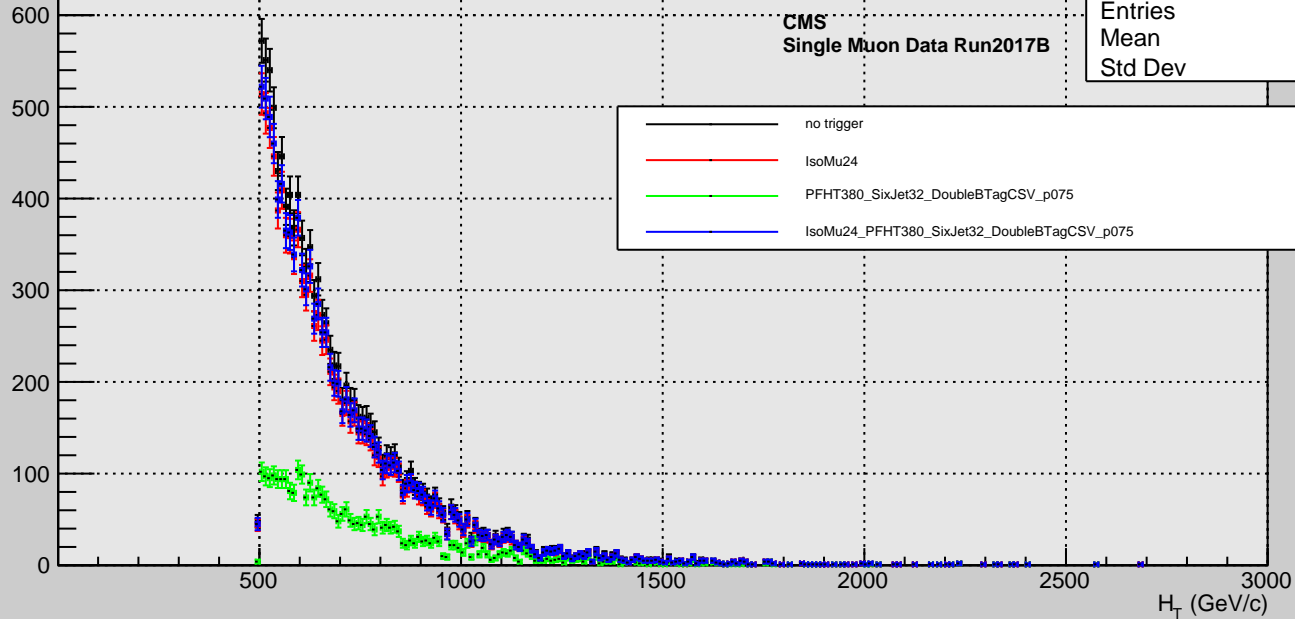
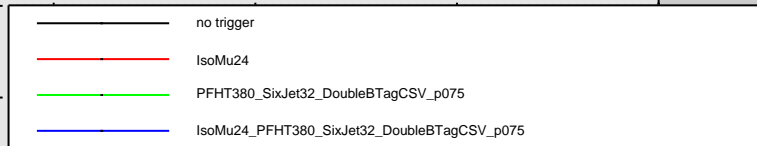


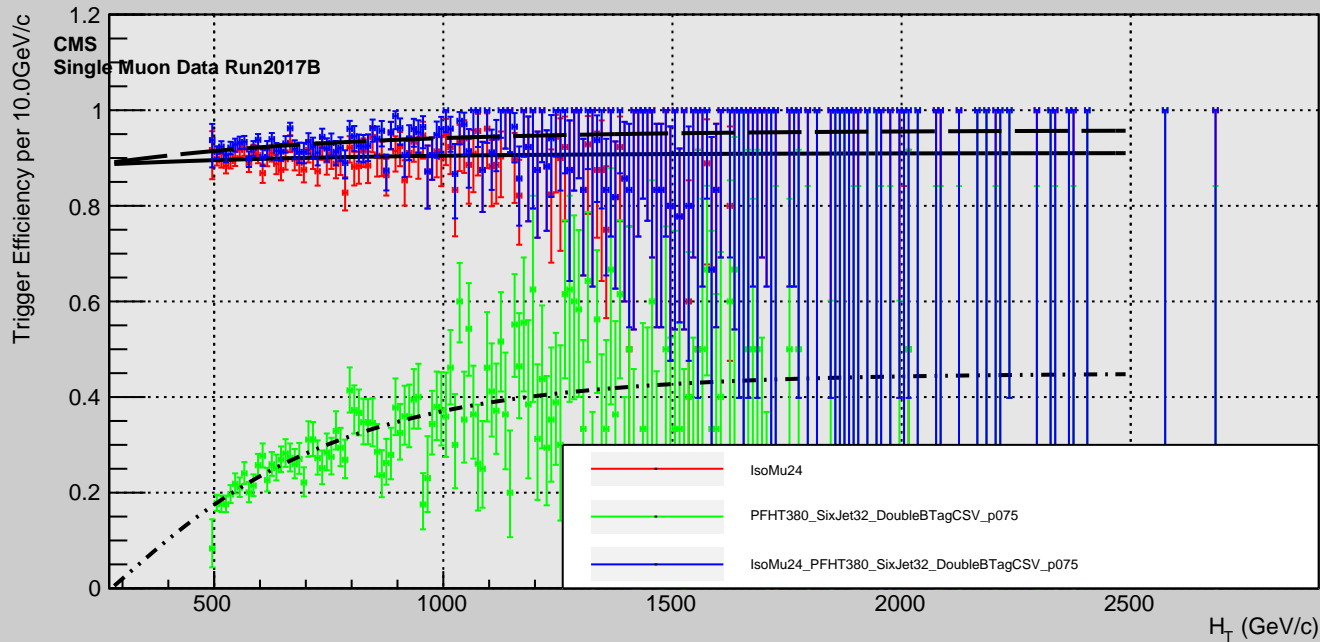
Number of Events per 10 GeV/c

CMS
Single Muon Data Run2017B

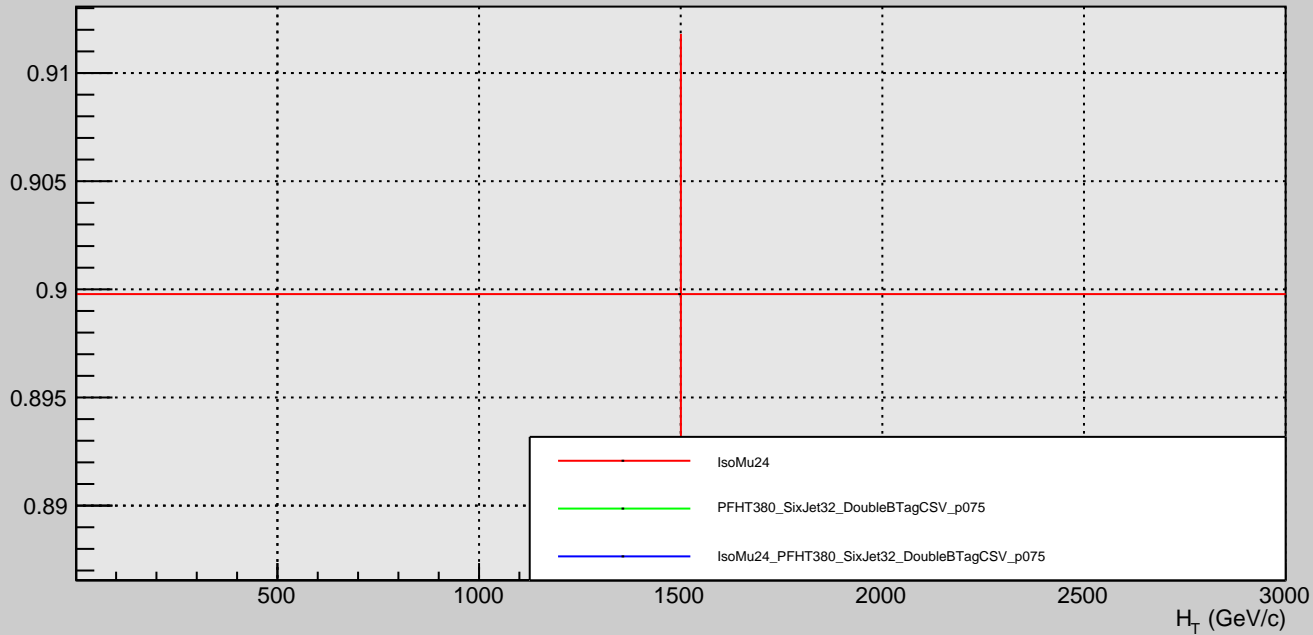
h_jetHt_notrigger

Entries	11815
Mean	705.5
Std Dev	215.8

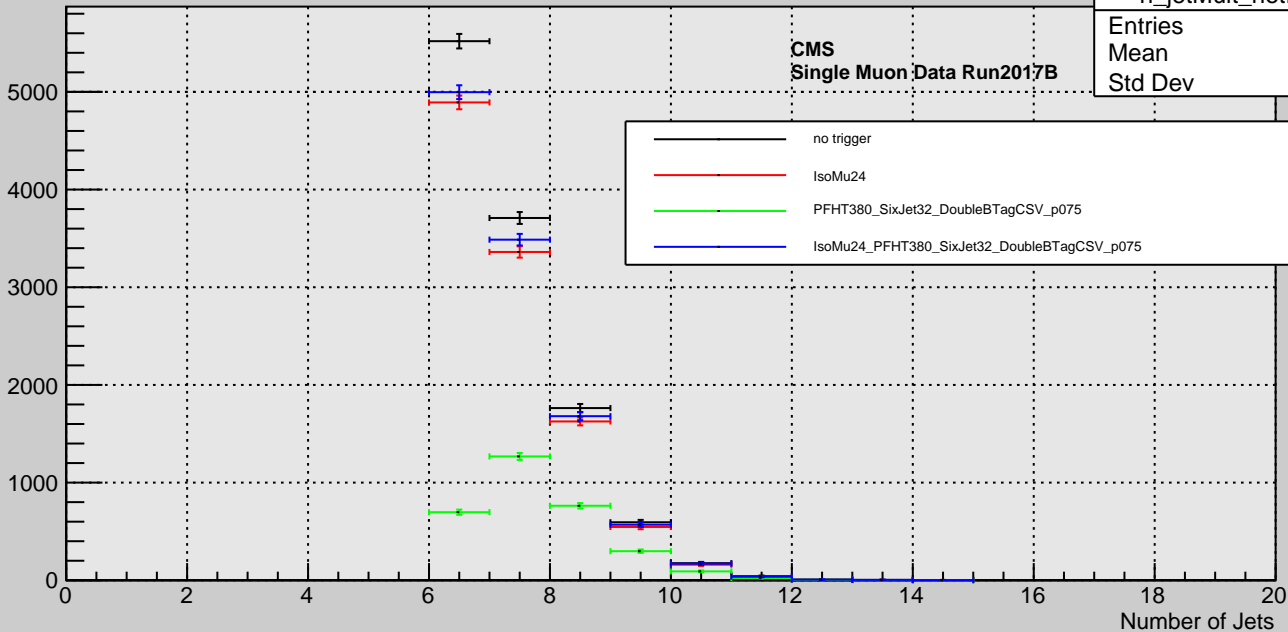


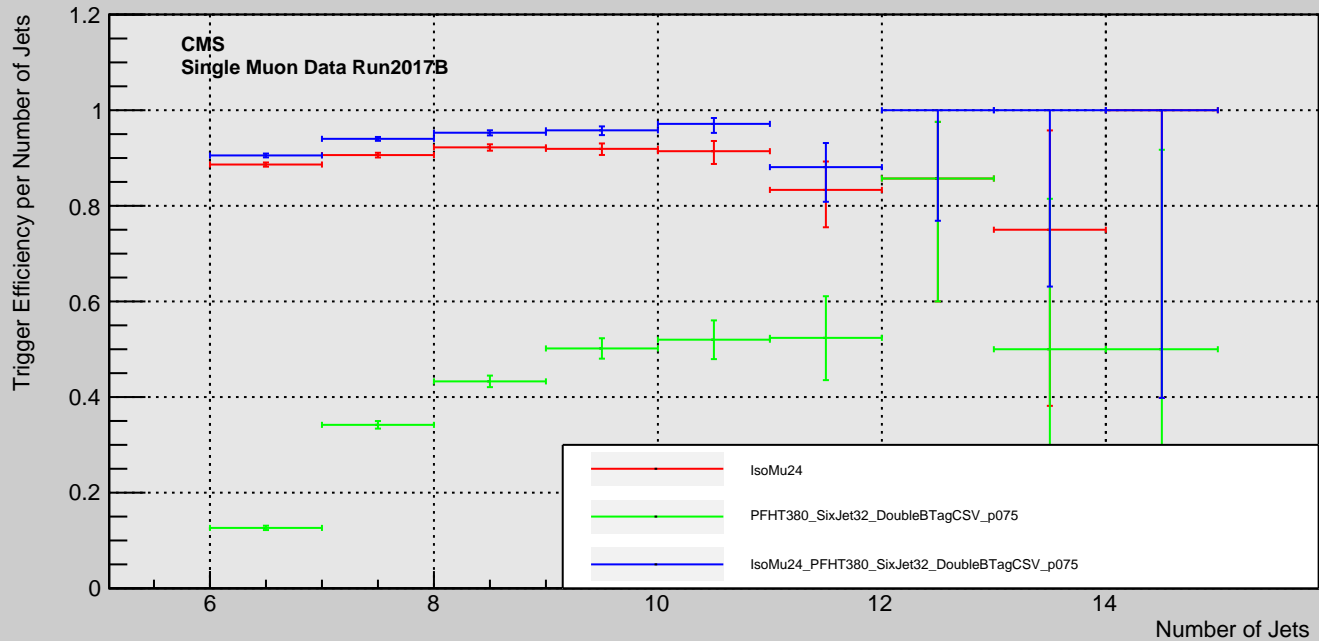


Trigger Efficiency per 2999.0 GeV/c

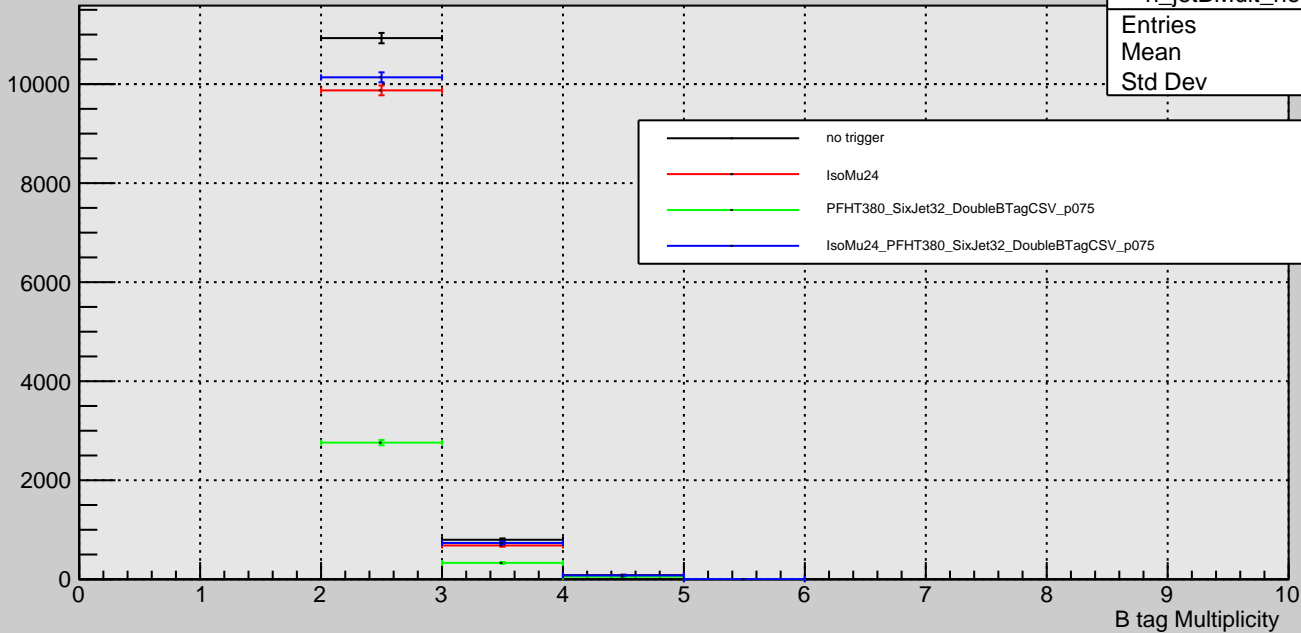


Number of Events per Number of Jets

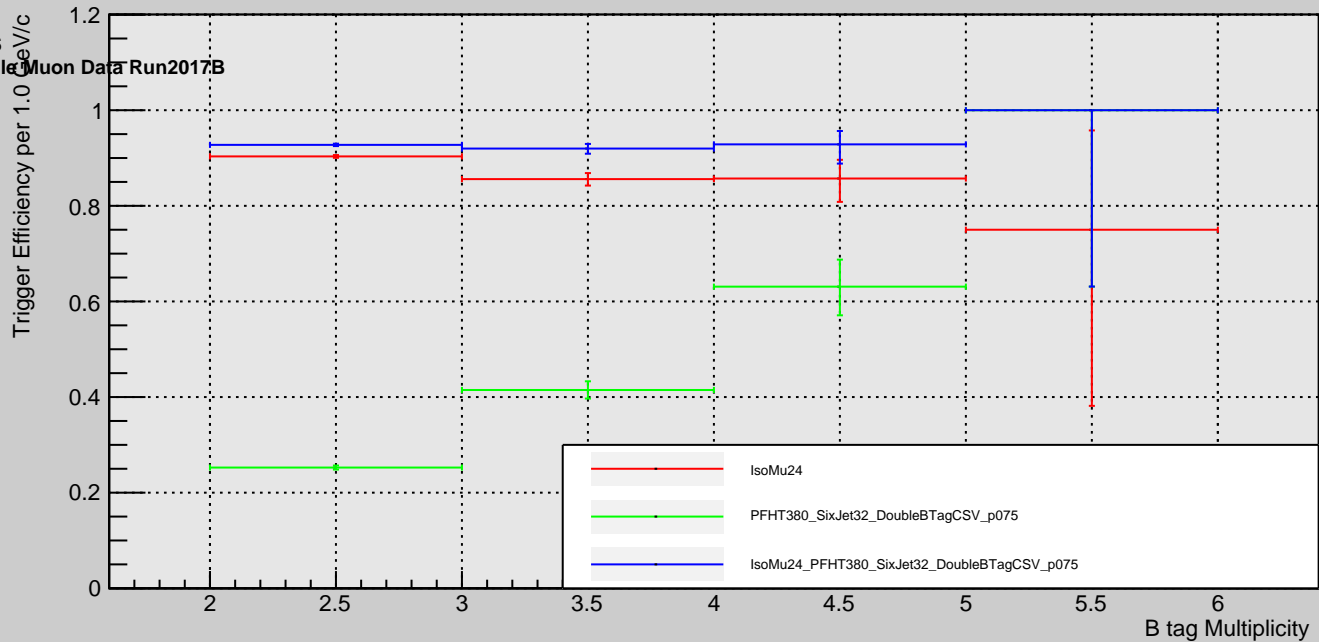




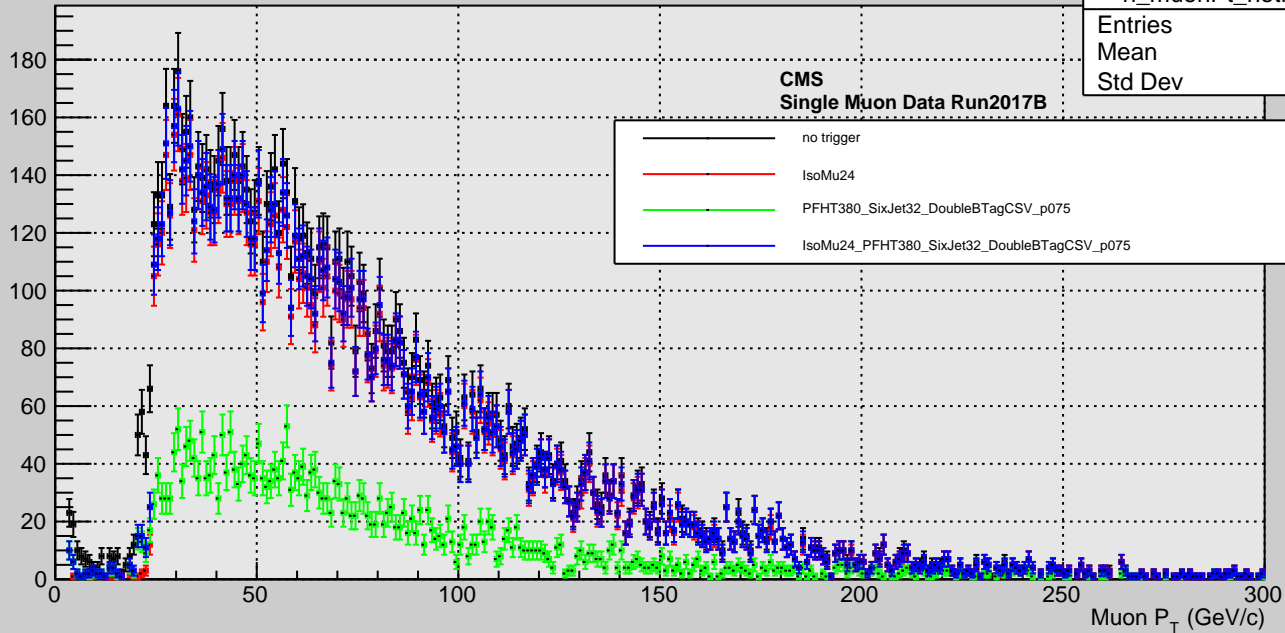
Number of Events per Number of Jets



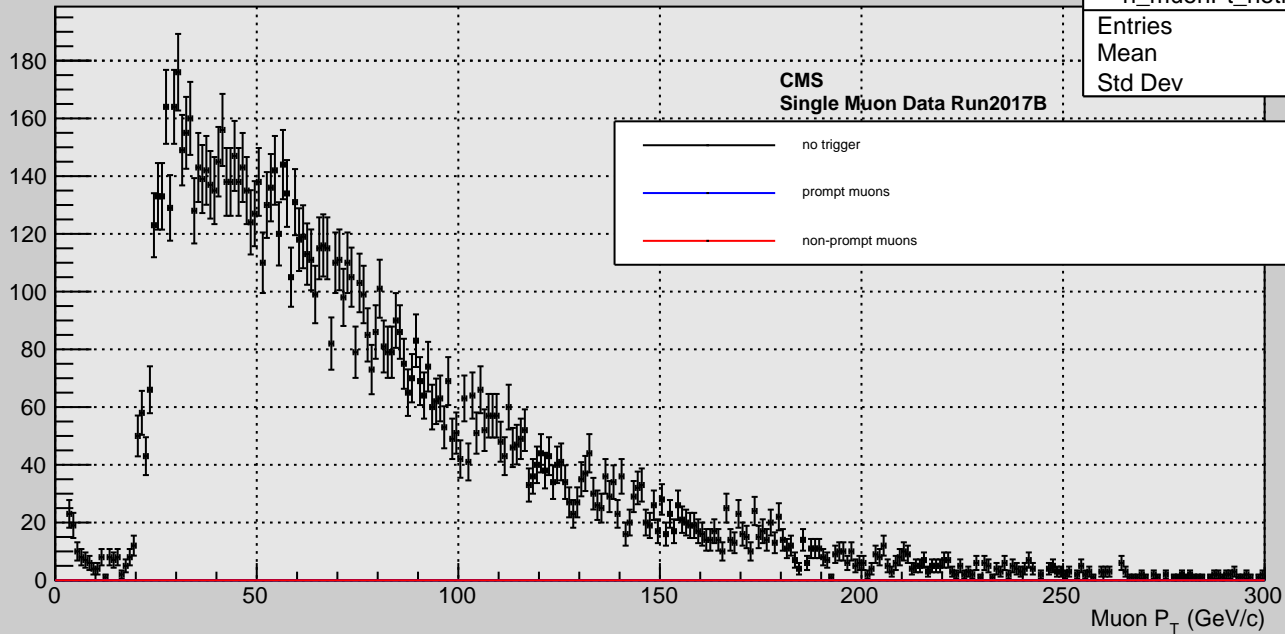
CMS
Single Muon Data Run2017B

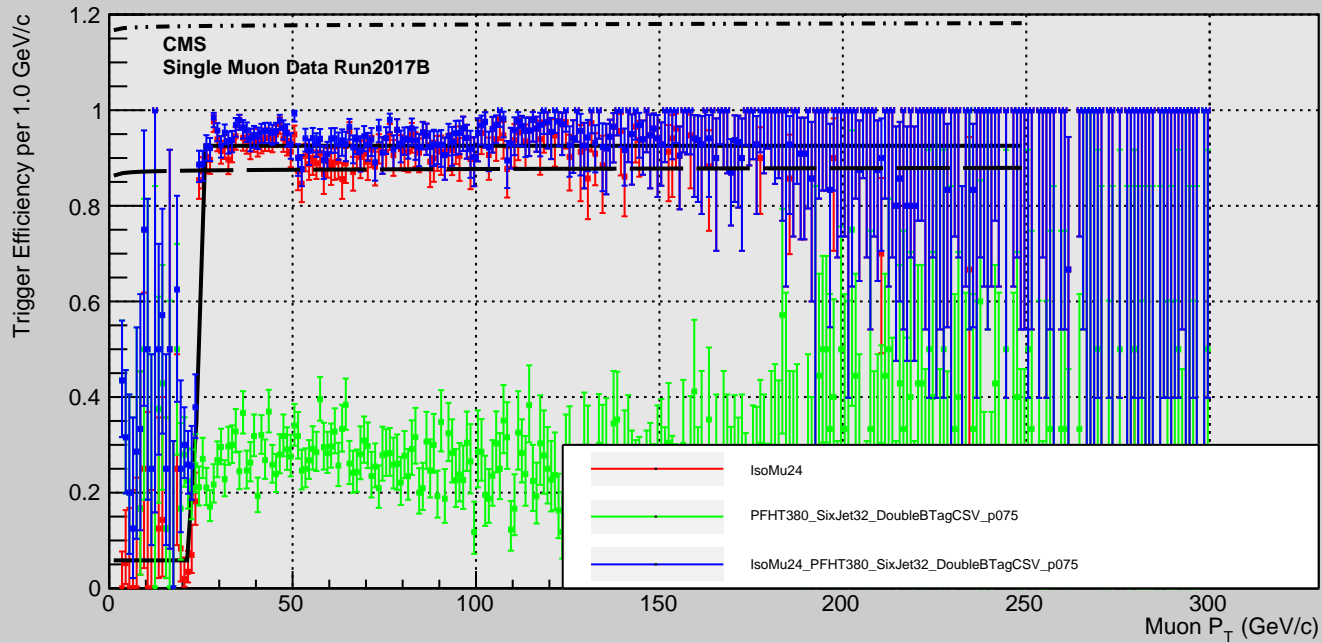


Number of Events per 1 GeV/c

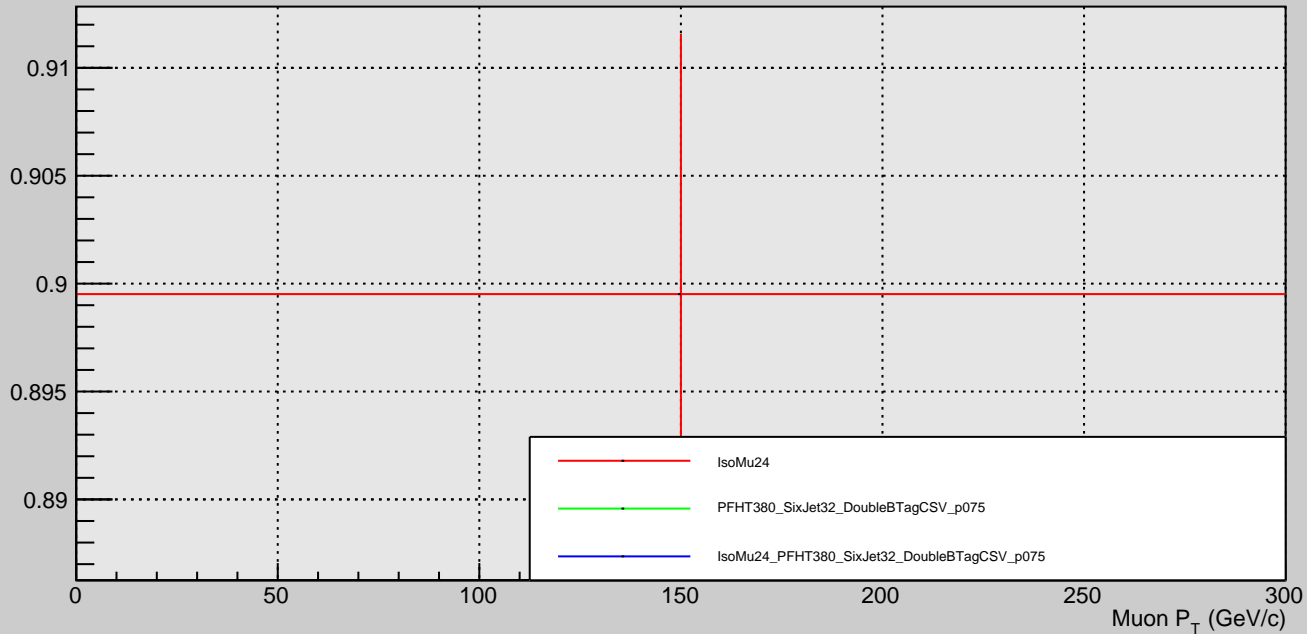


Number of Events per 1 GeV/c

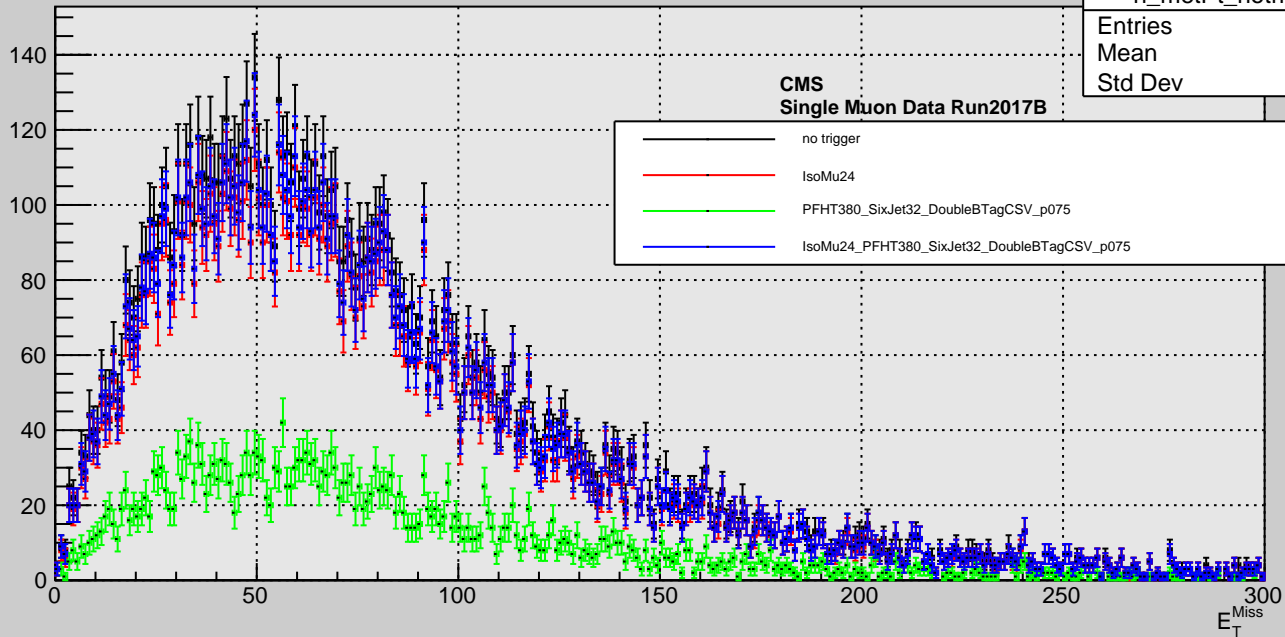




Trigger Efficiency per 300.00 GeV/c

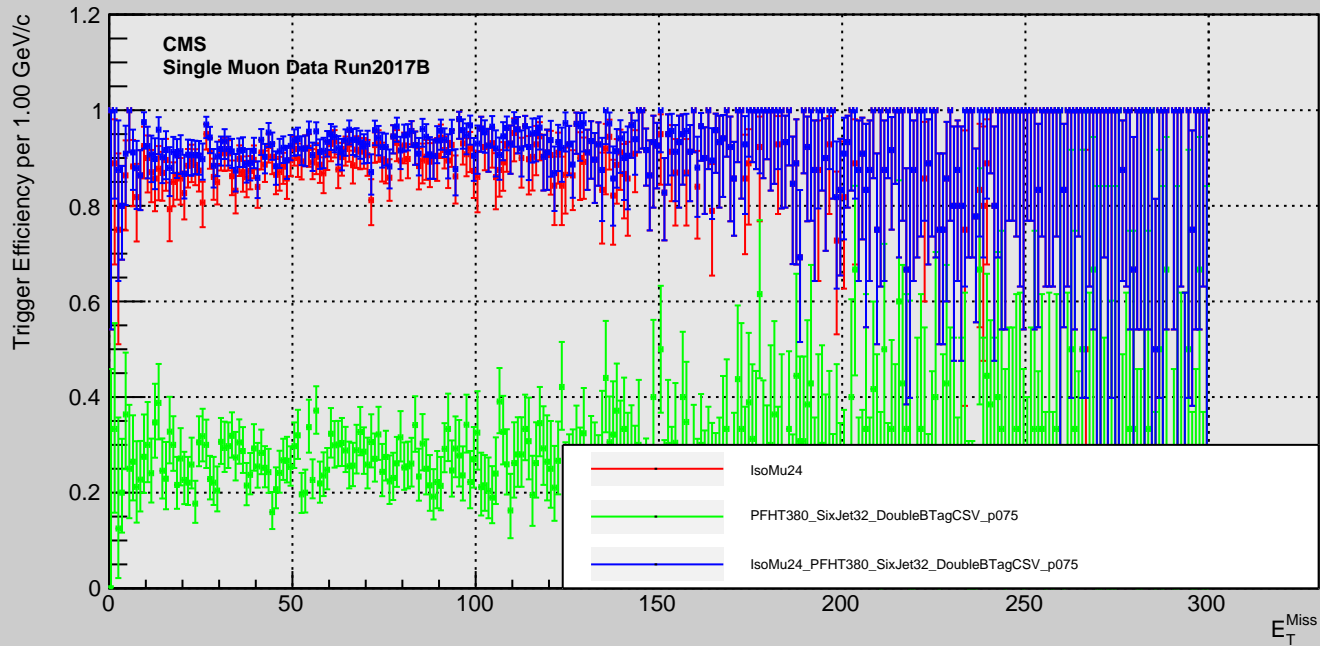


Number of Events per 1 GeV/c

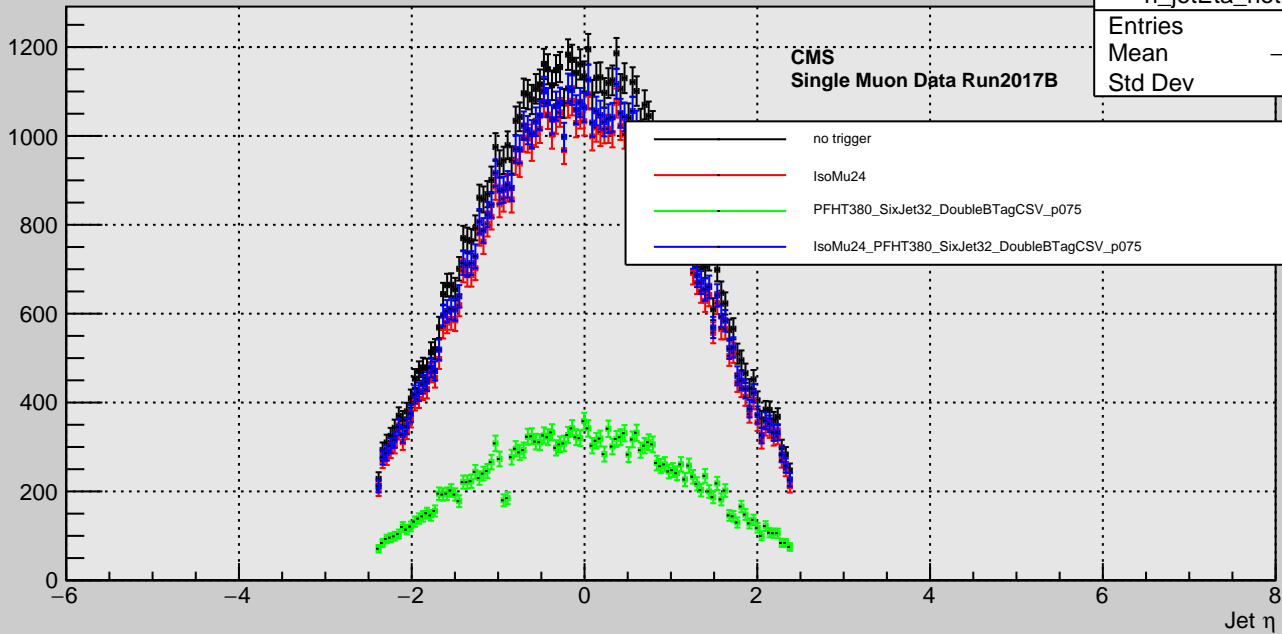


h_metPt_notrigger

Entries	11815
Mean	80.44
Std Dev	54.49



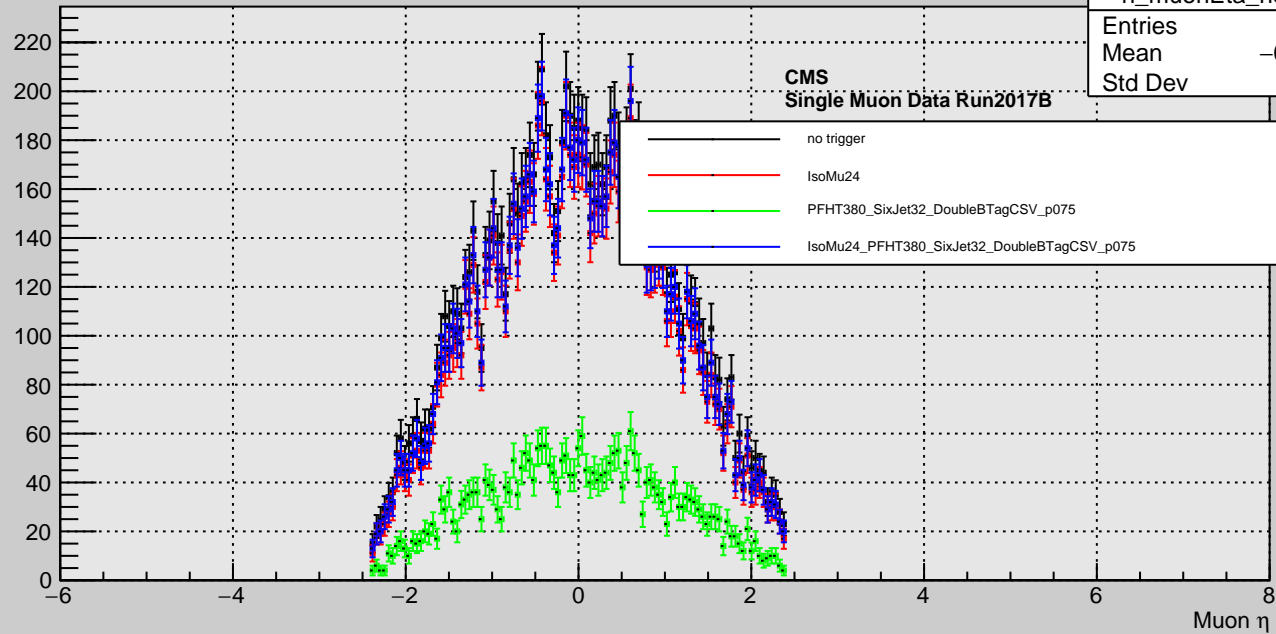
Number of Events per $\delta\eta = 0.046$



h_jetEta_notrigger

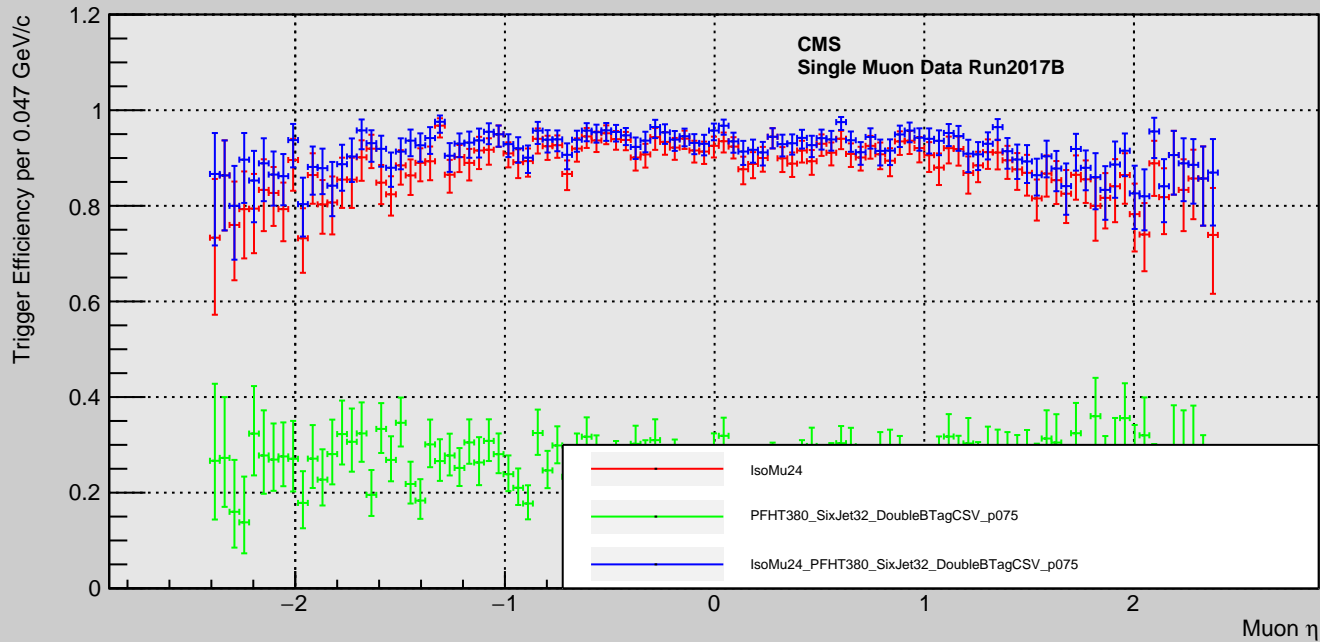
Entries	80903
Mean	-0.009611
Std Dev	1.134

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

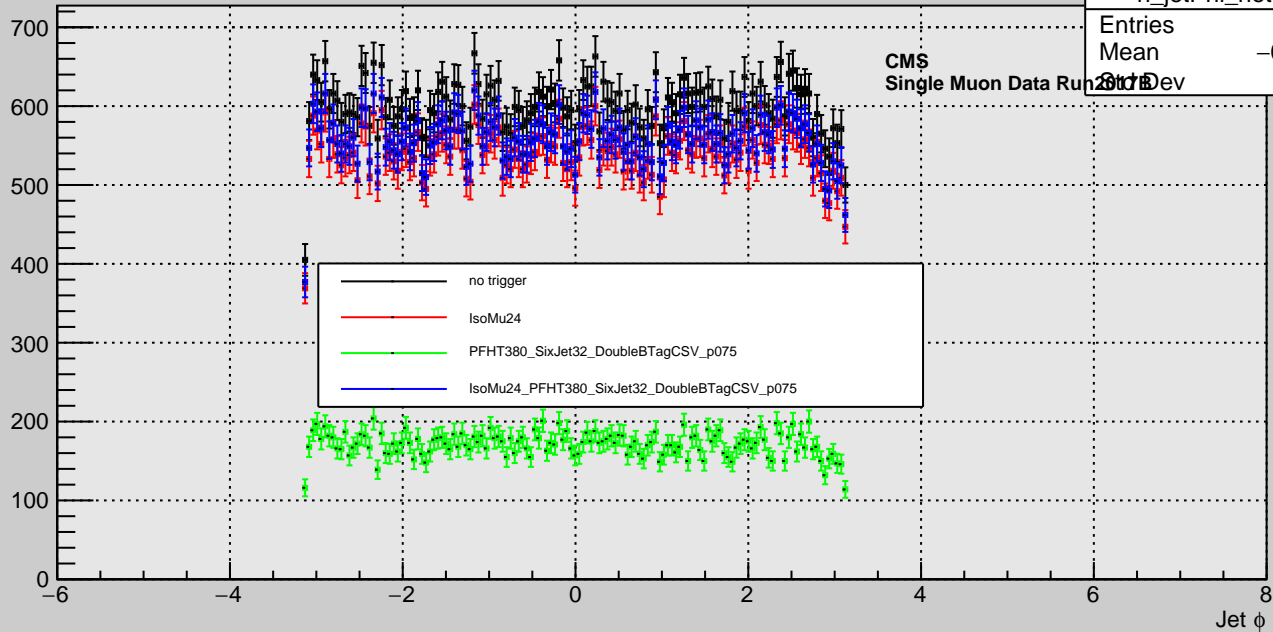


h_muonEta_notrigger

Entries	11815
Mean	-0.008237
Std Dev	1.071



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



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

