

On-line (pre-)selection Requisites for:

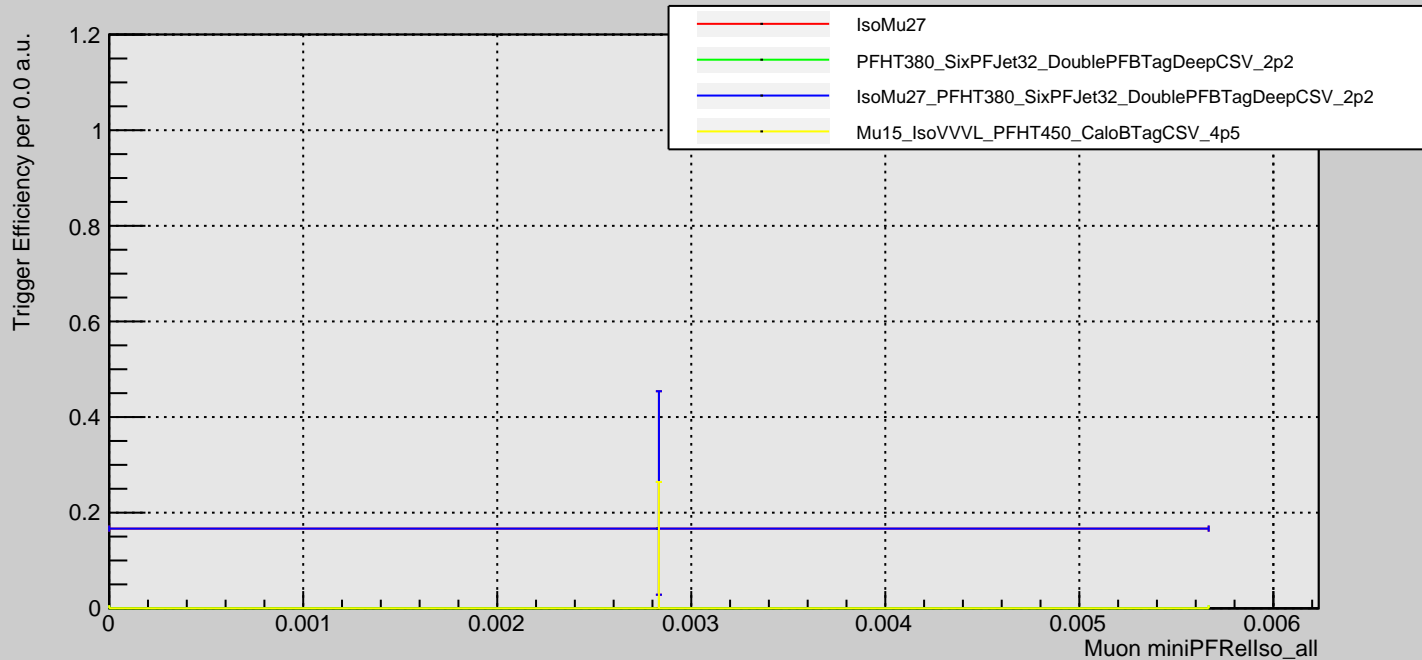
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

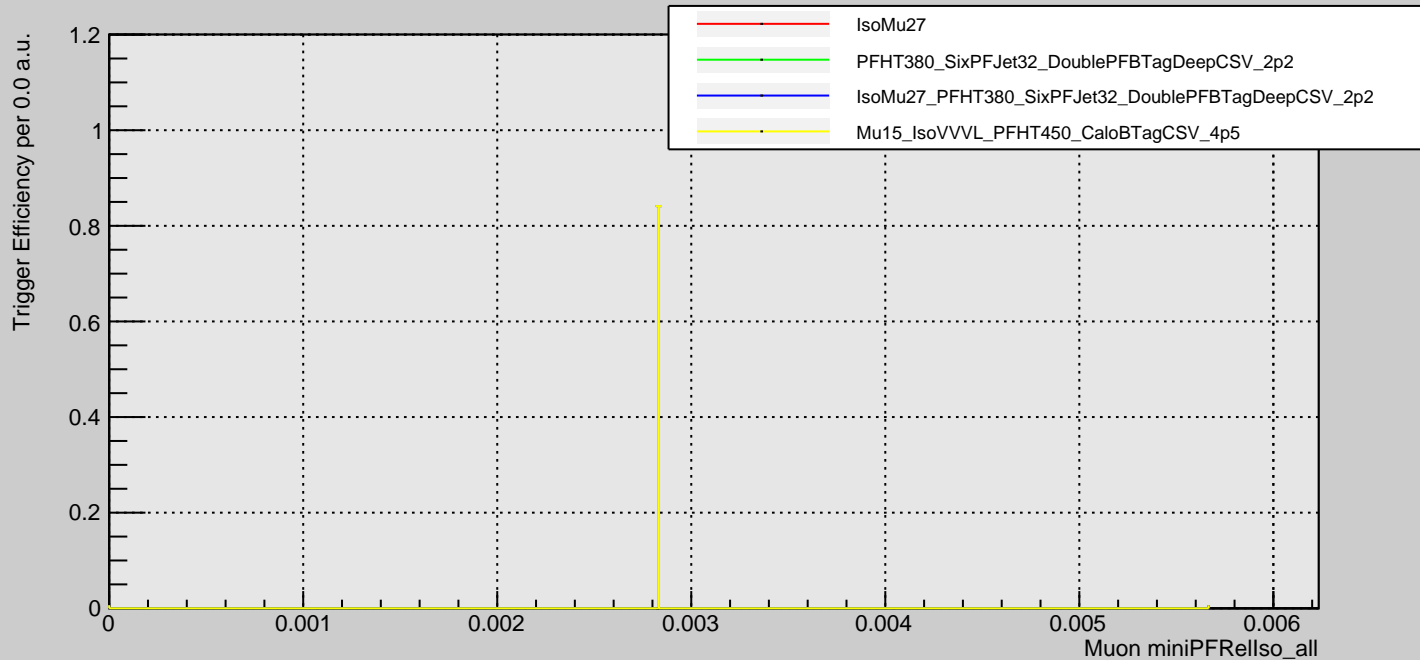
Off-line (post-)selection Requisites for:

- **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)

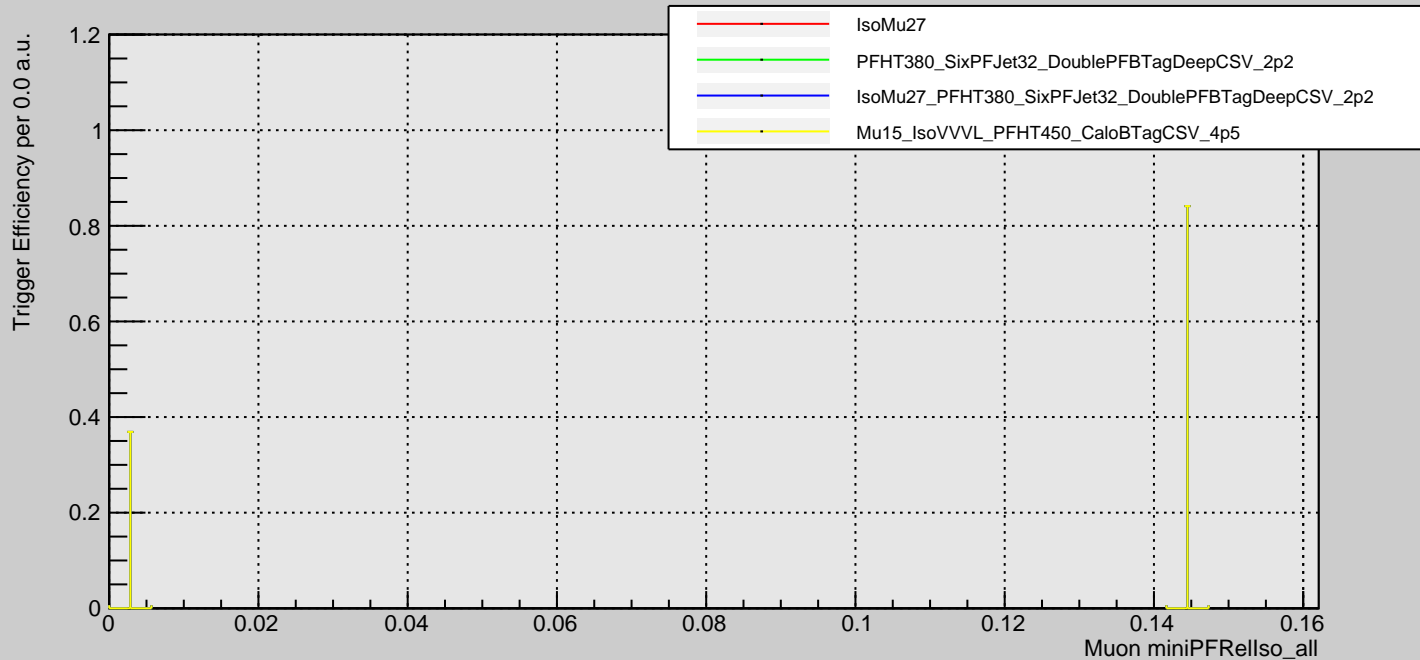
Muon Pt = 5



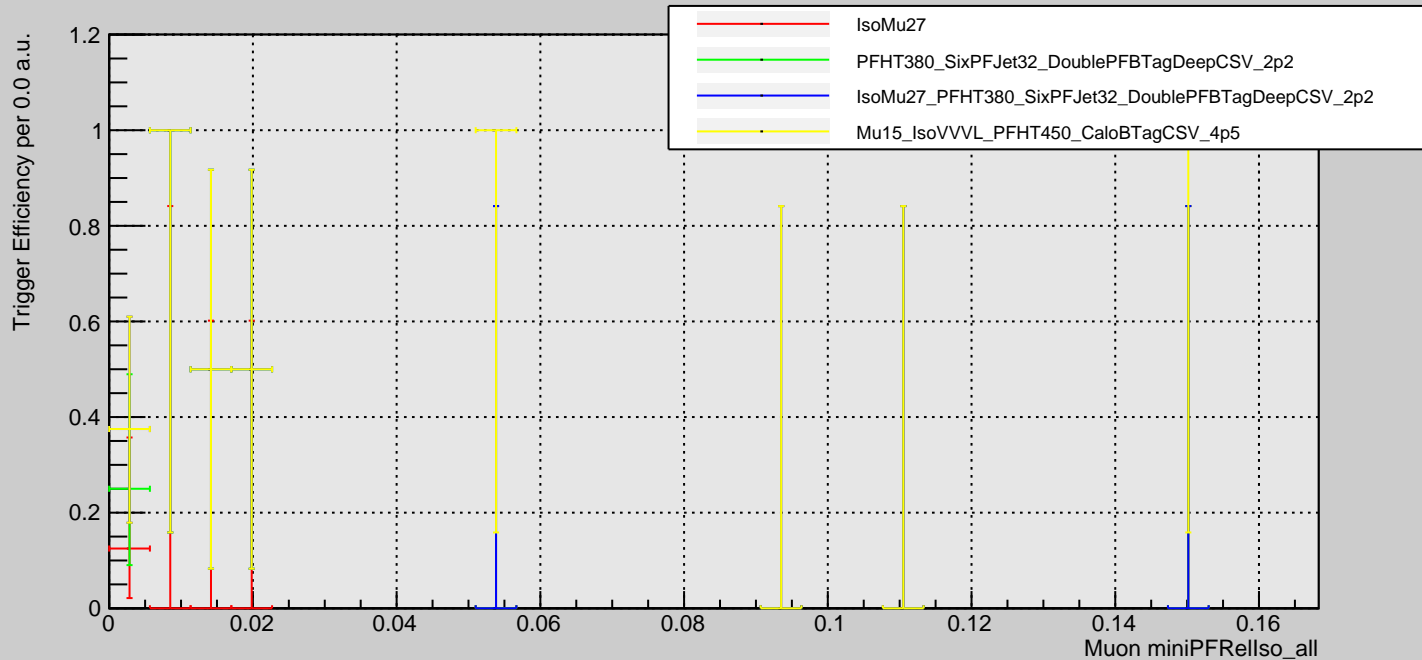
Muon Pt = 10



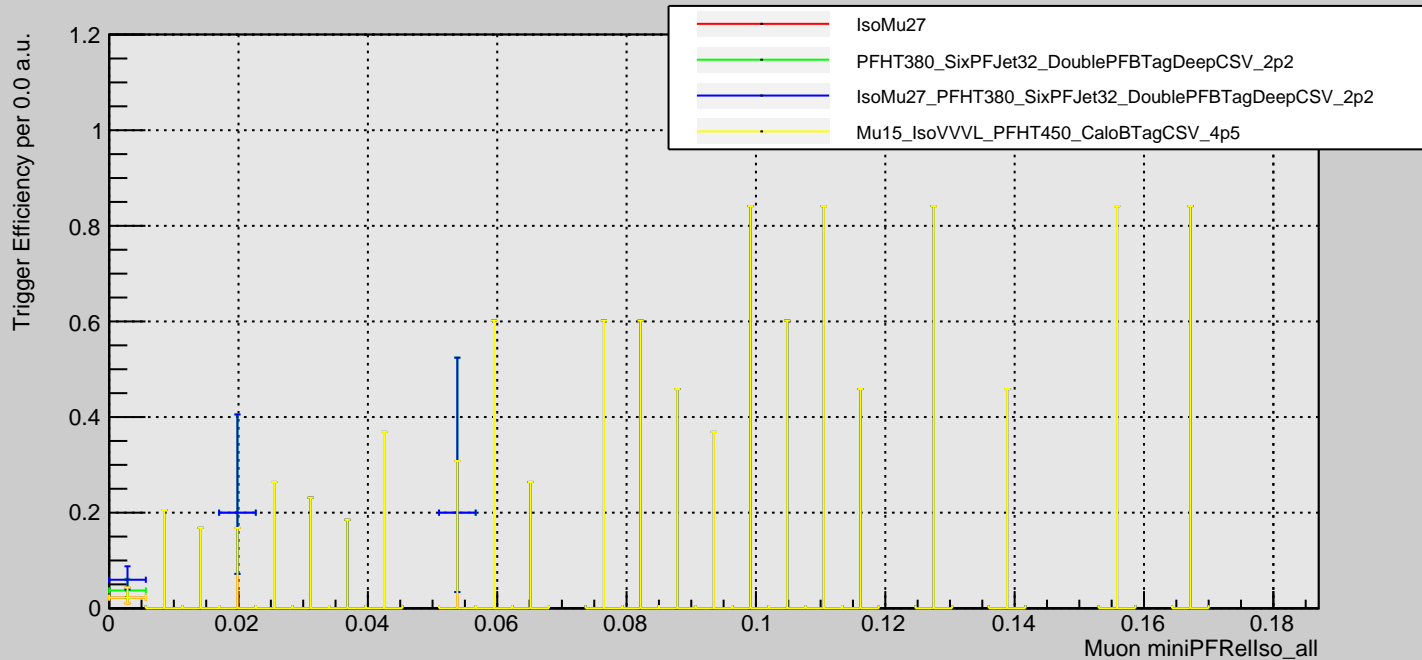
Muon Pt = 15



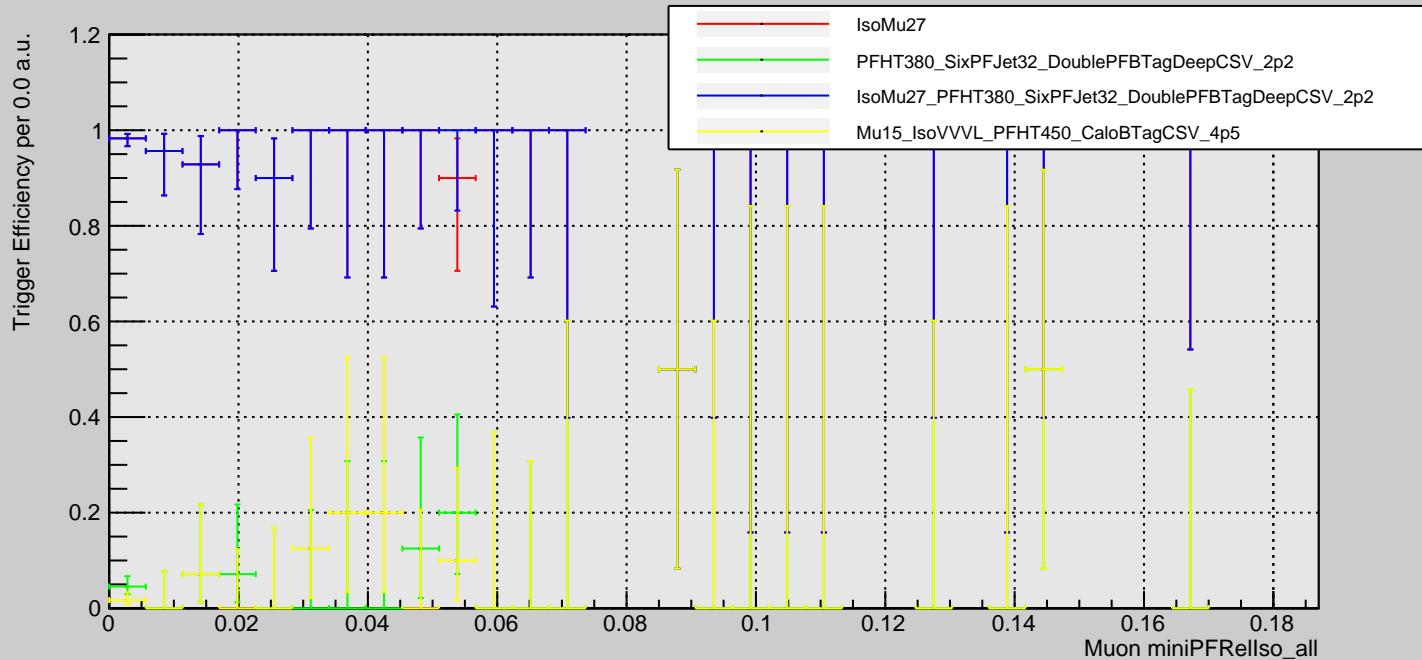
Muon Pt = 20



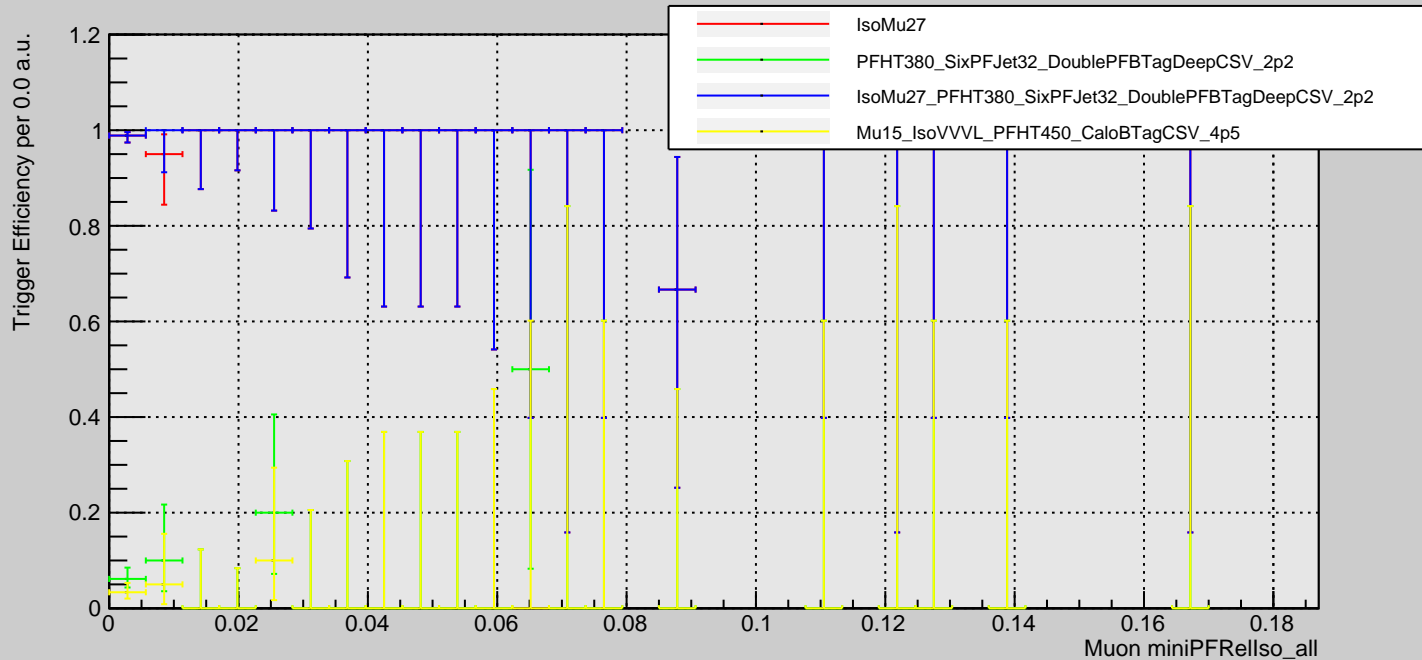
Muon Pt = 25



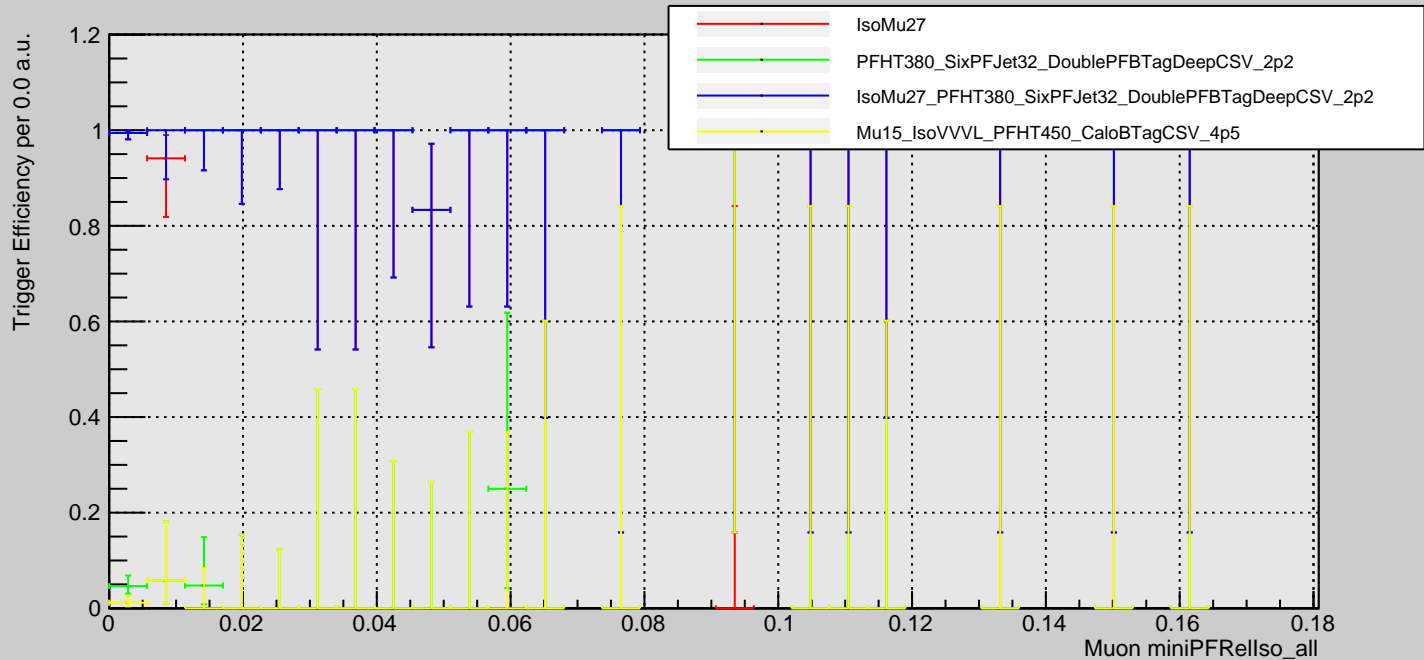
Muon Pt = 30



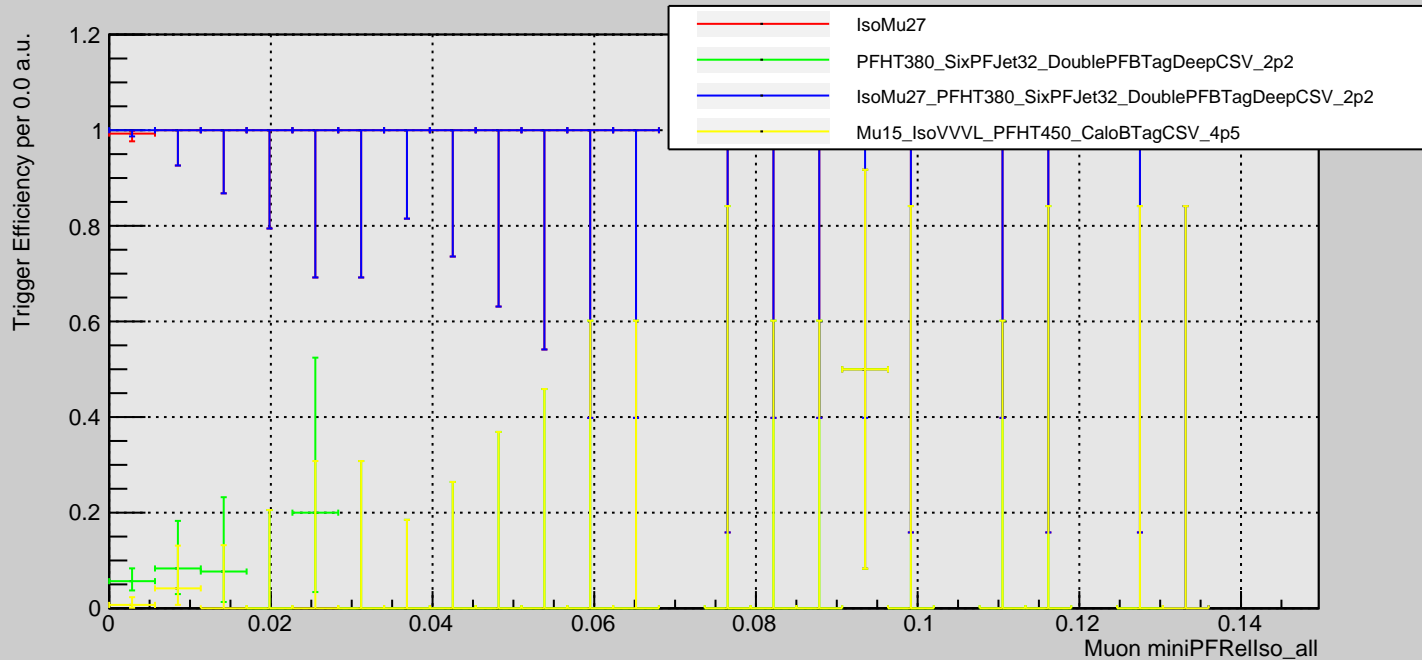
Muon Pt = 35



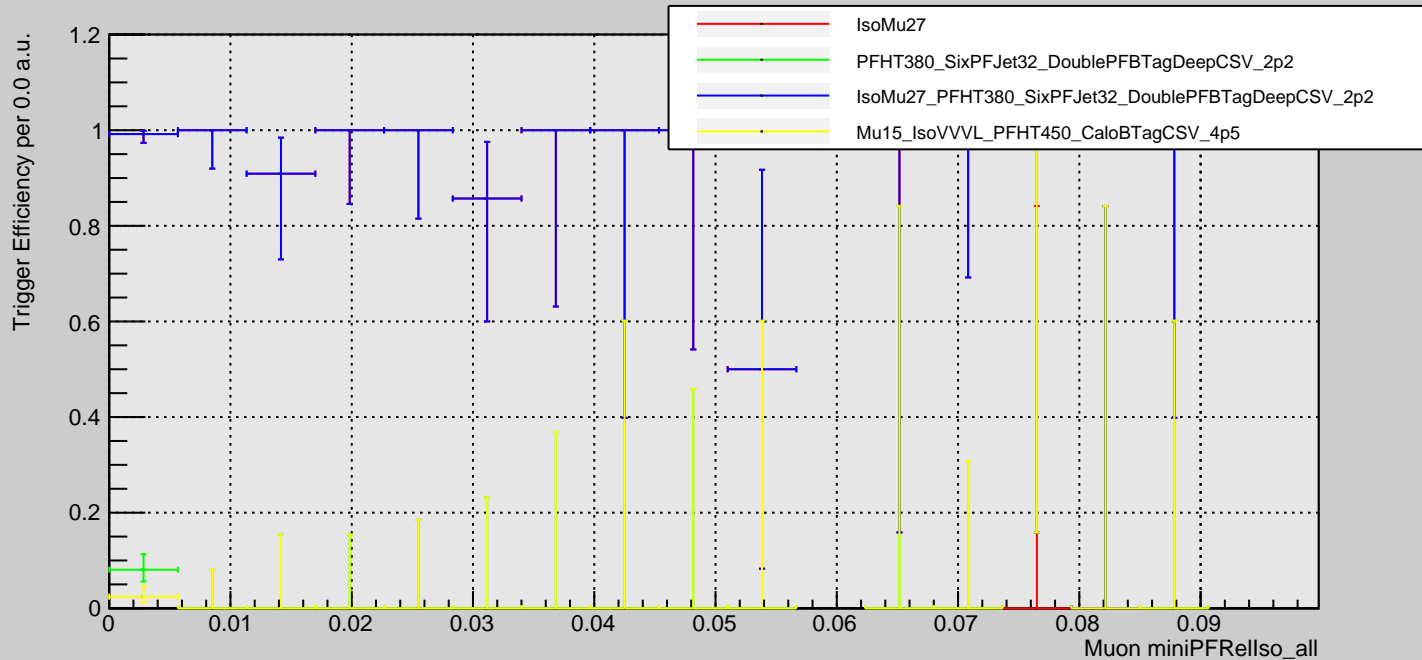
Muon Pt = 40



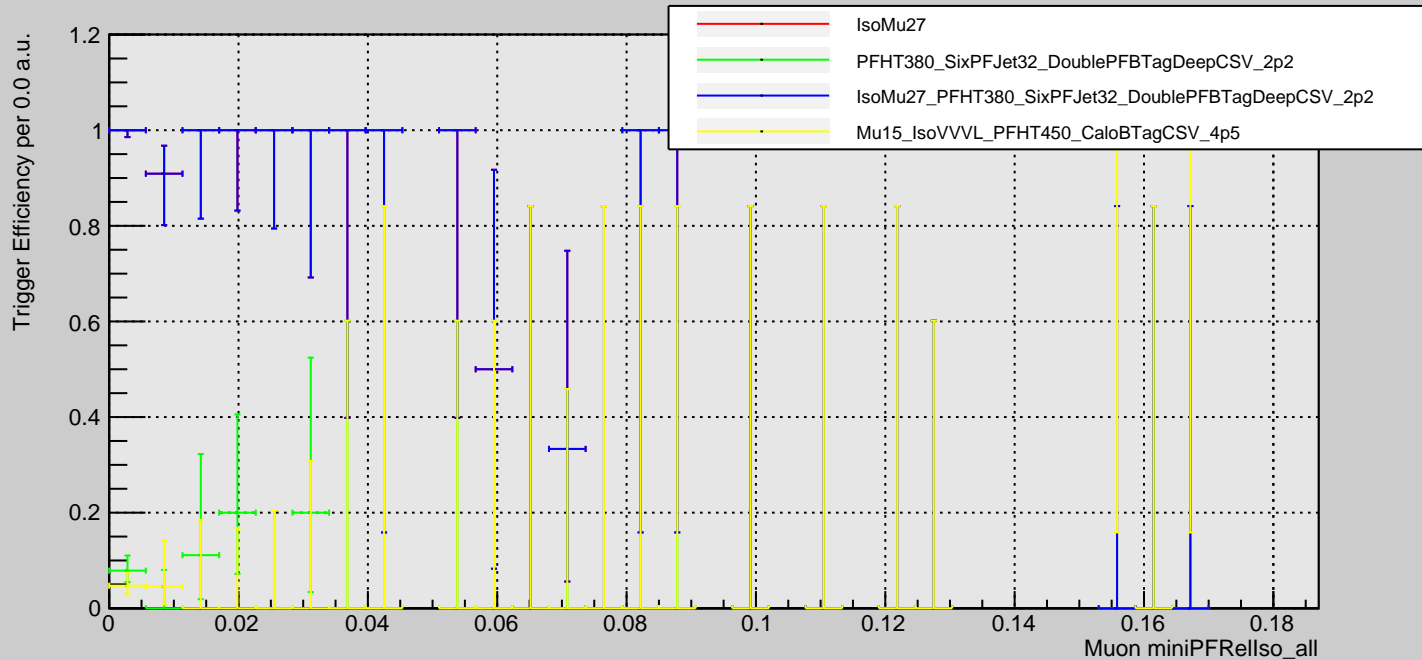
Muon Pt = 45



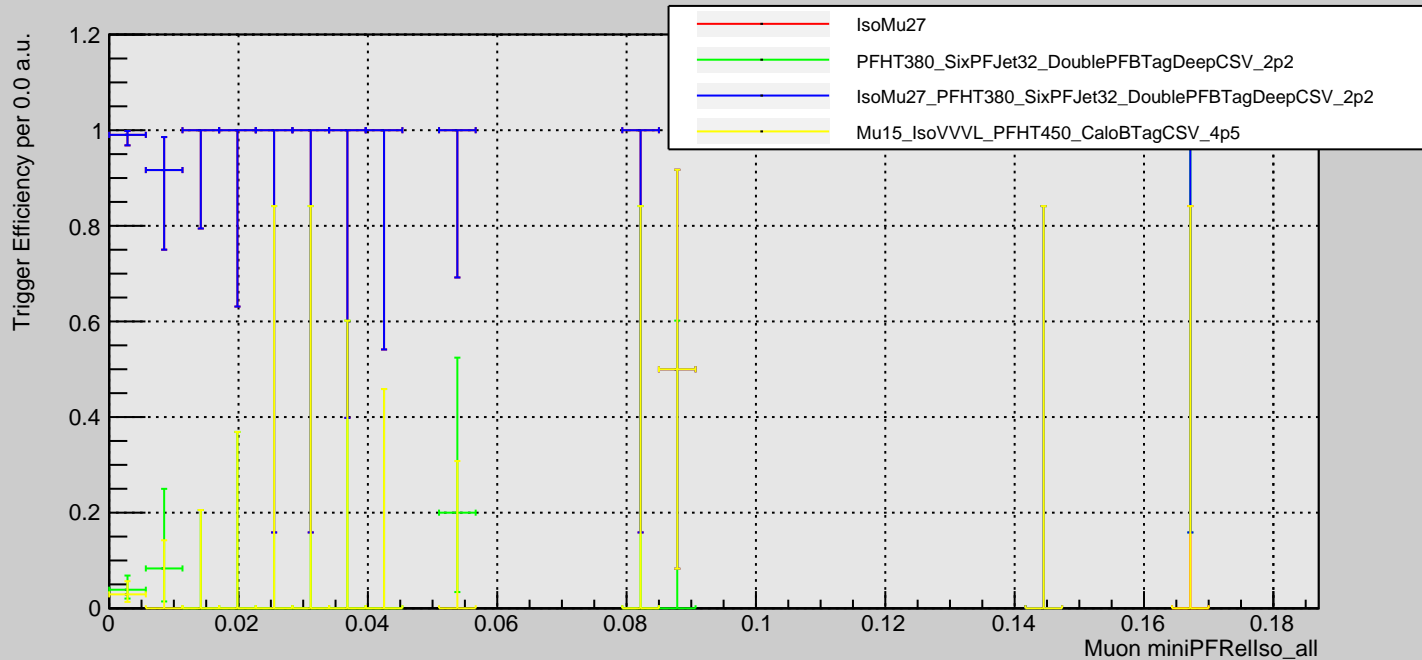
Muon Pt = 50



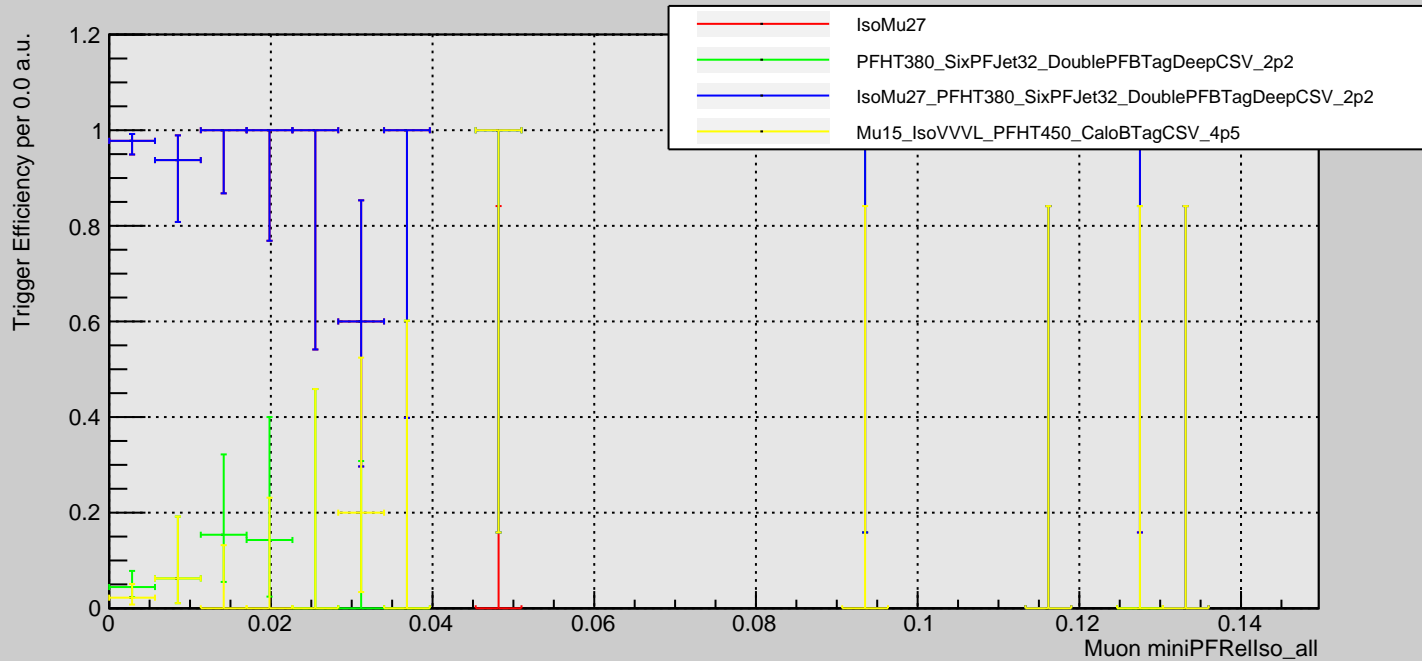
Muon Pt = 55



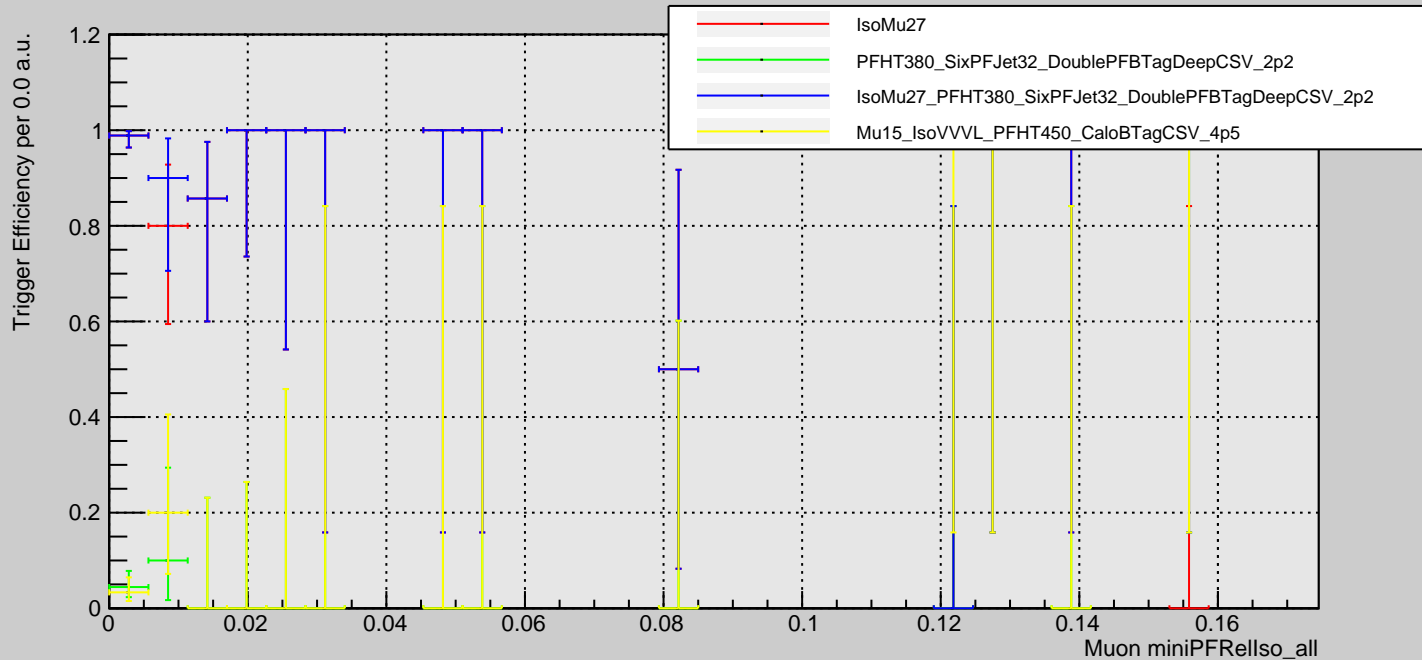
Muon Pt = 60



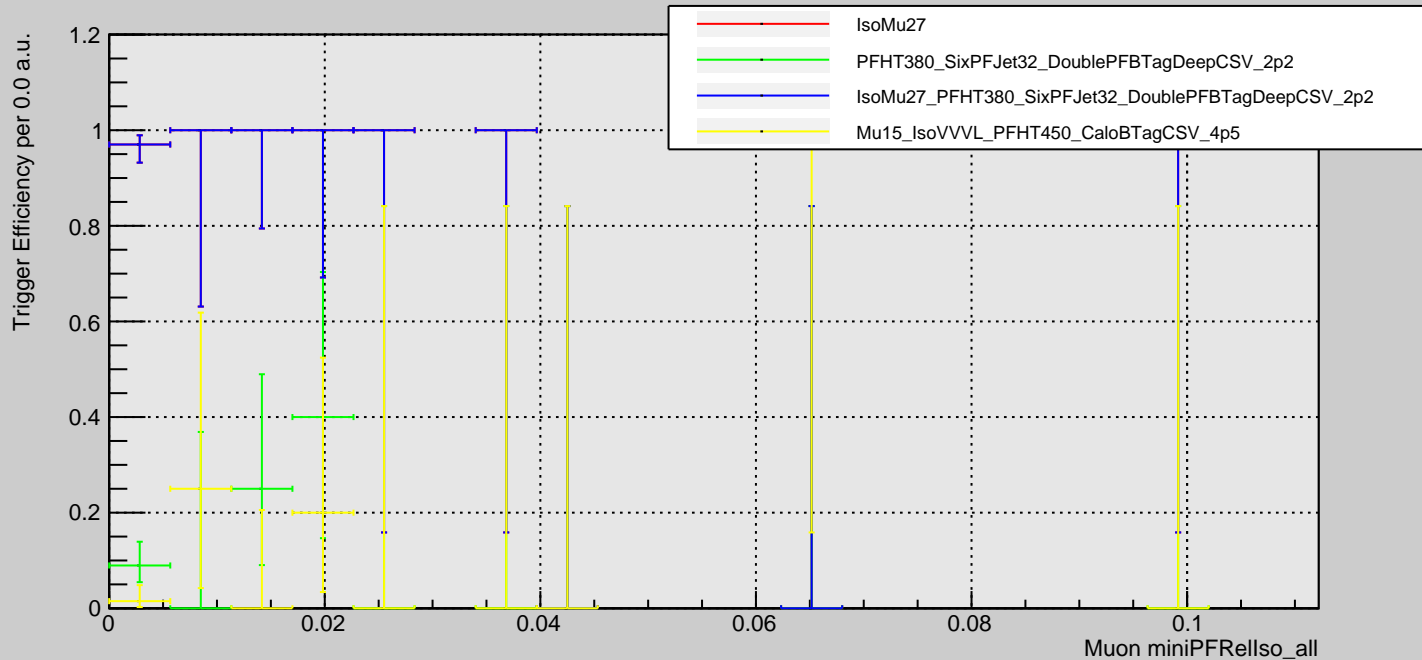
Muon Pt = 65



Muon Pt = 70



Muon Pt = 75

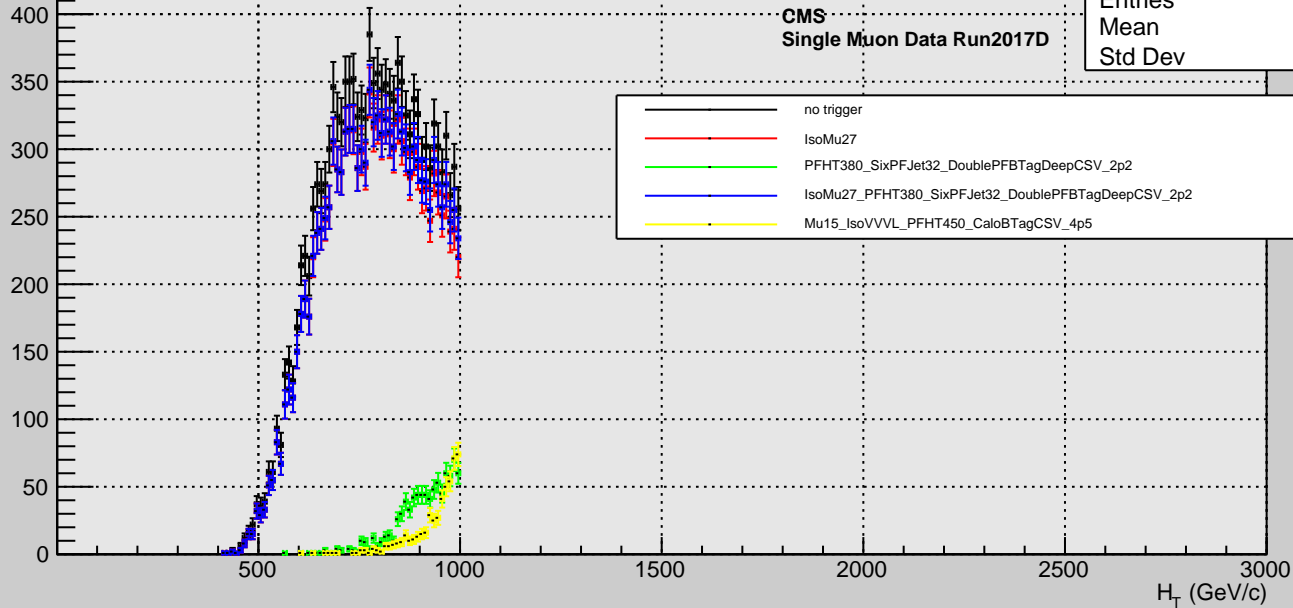
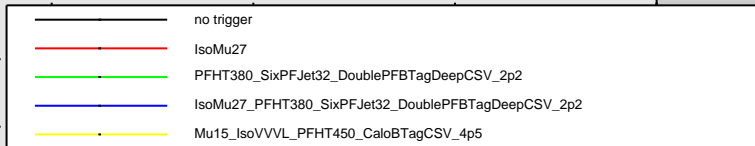


Number of Events per 10 GeV/c

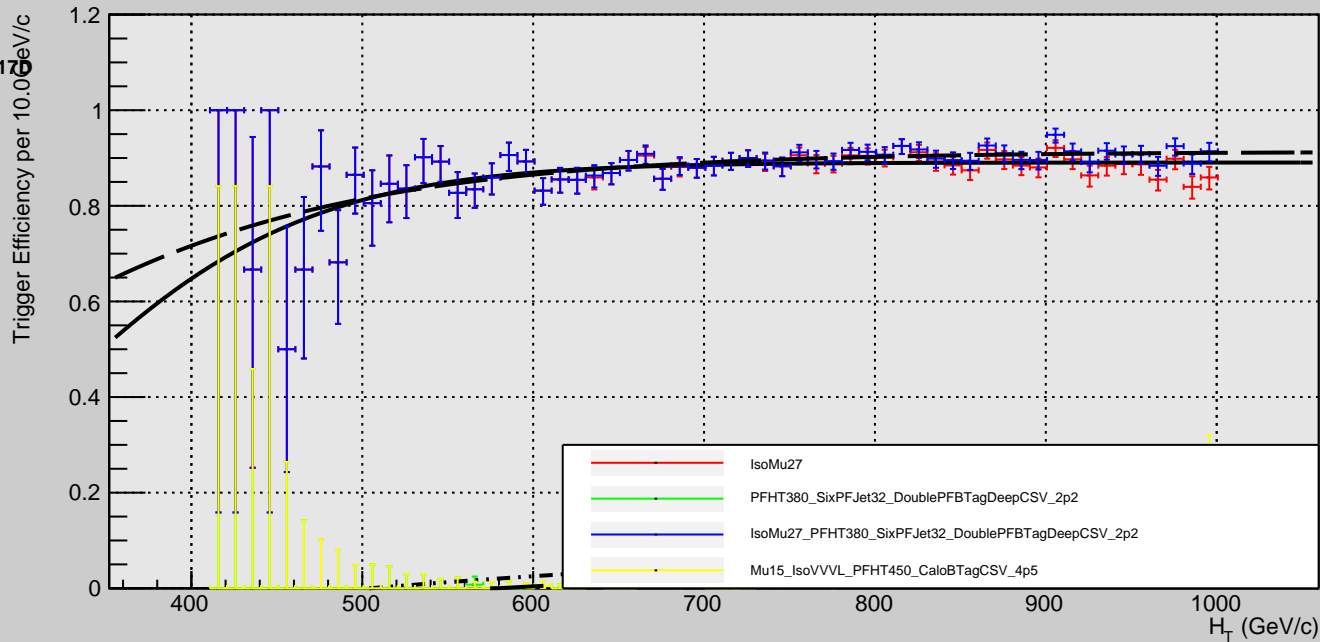
CMS
Single Muon Data Run2017D

h_jetHt_notrigger

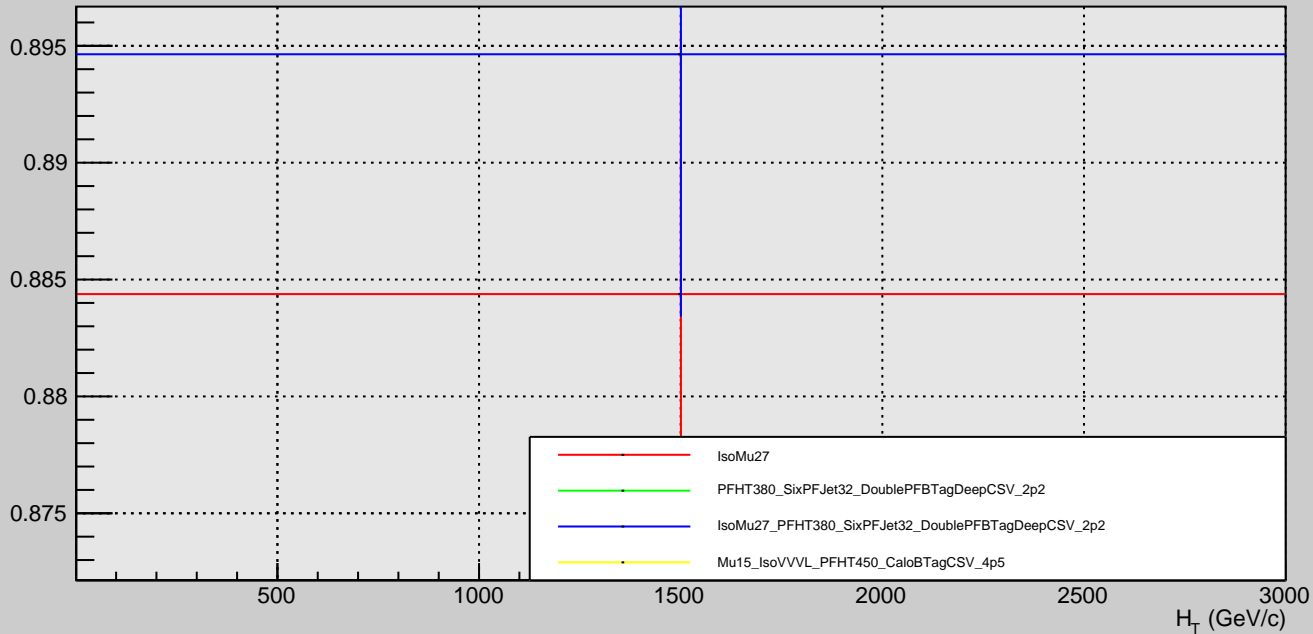
Entries	13449
Mean	784.6
Std Dev	124.5



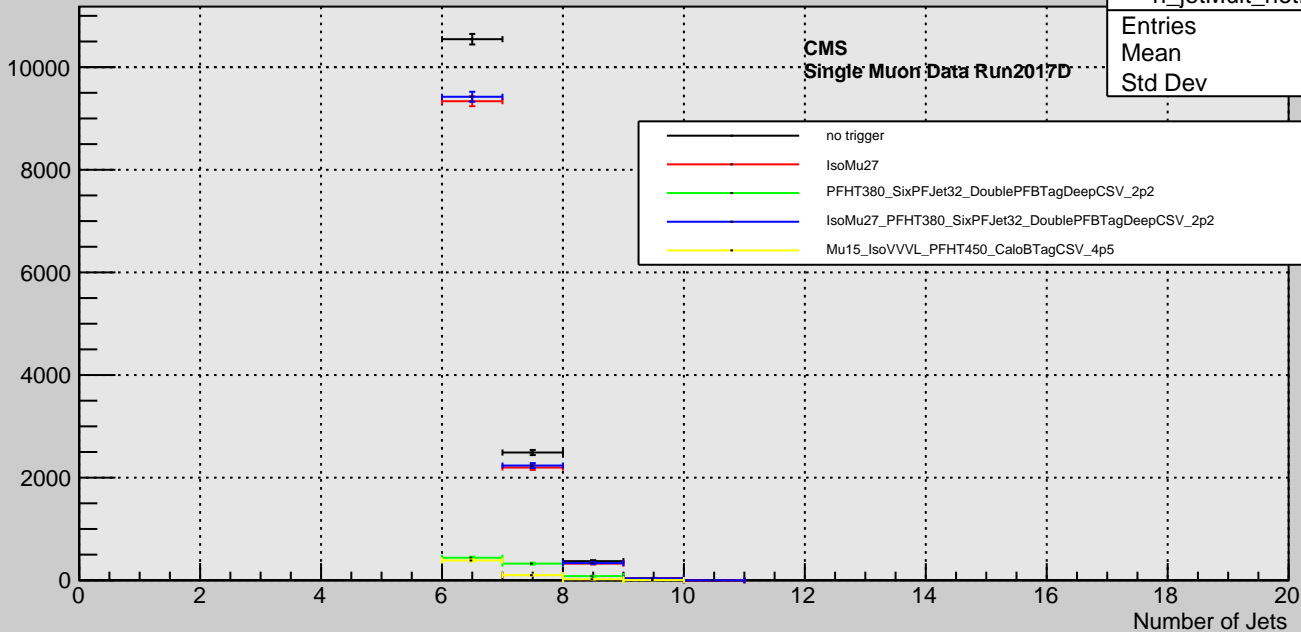
in 2017



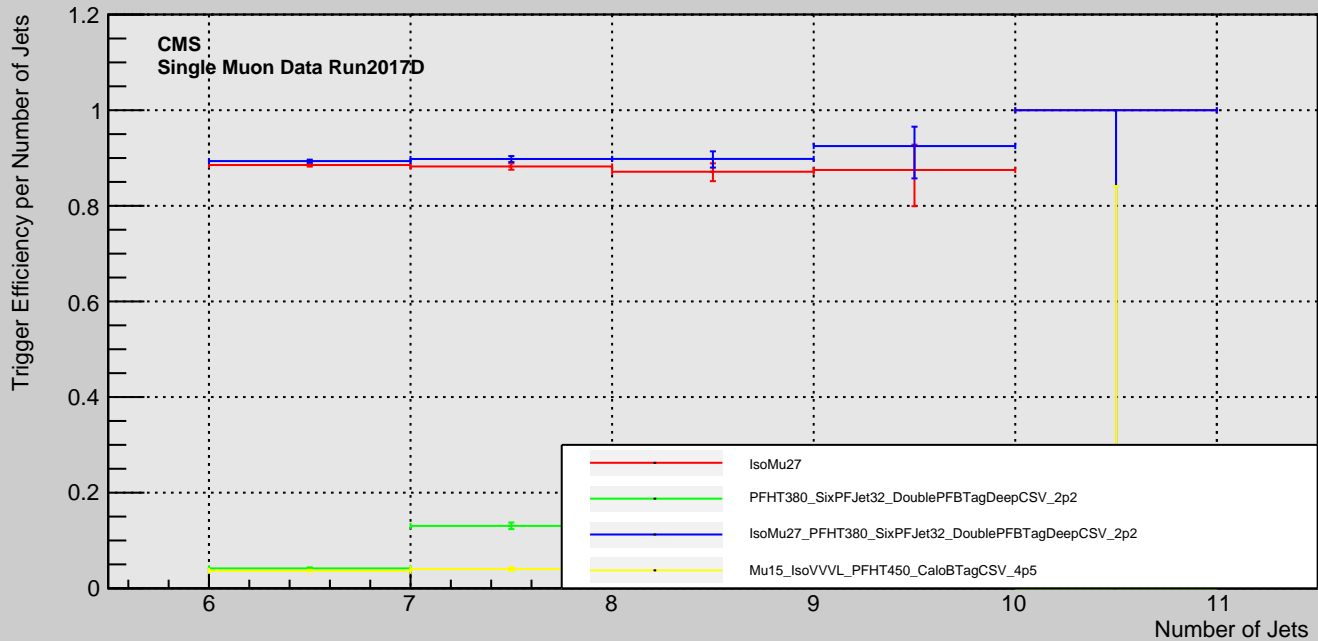
Trigger Efficiency per 2999.0 GeV/c



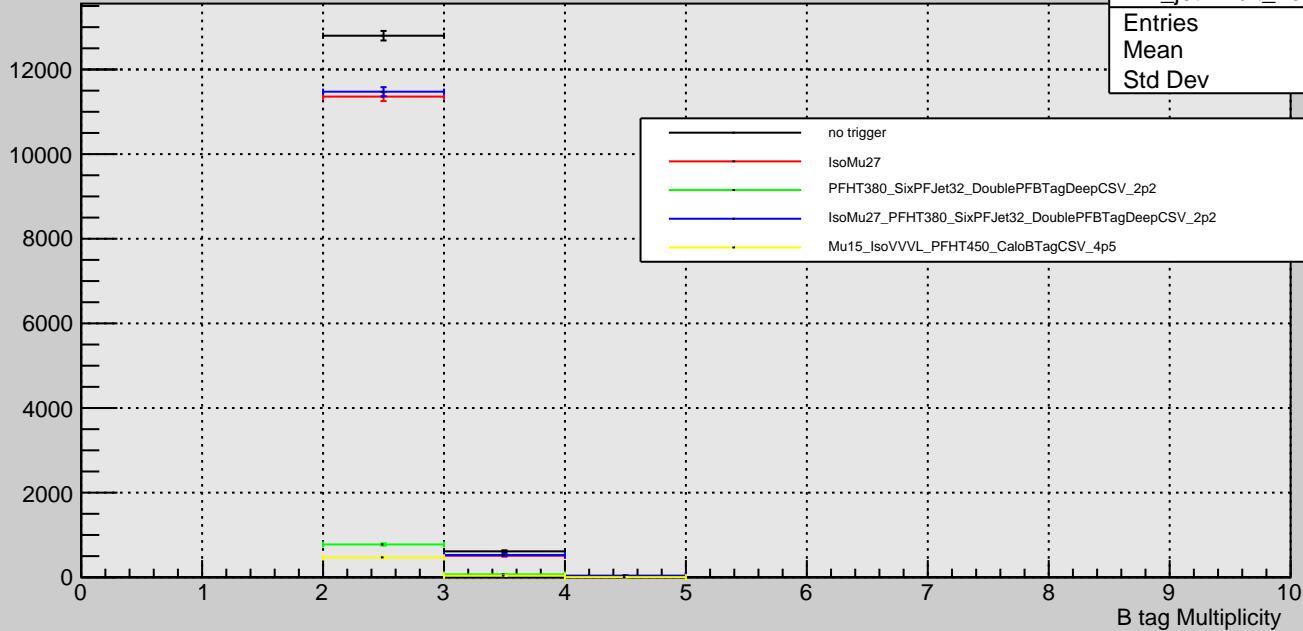
Number of Events per Number of Jets



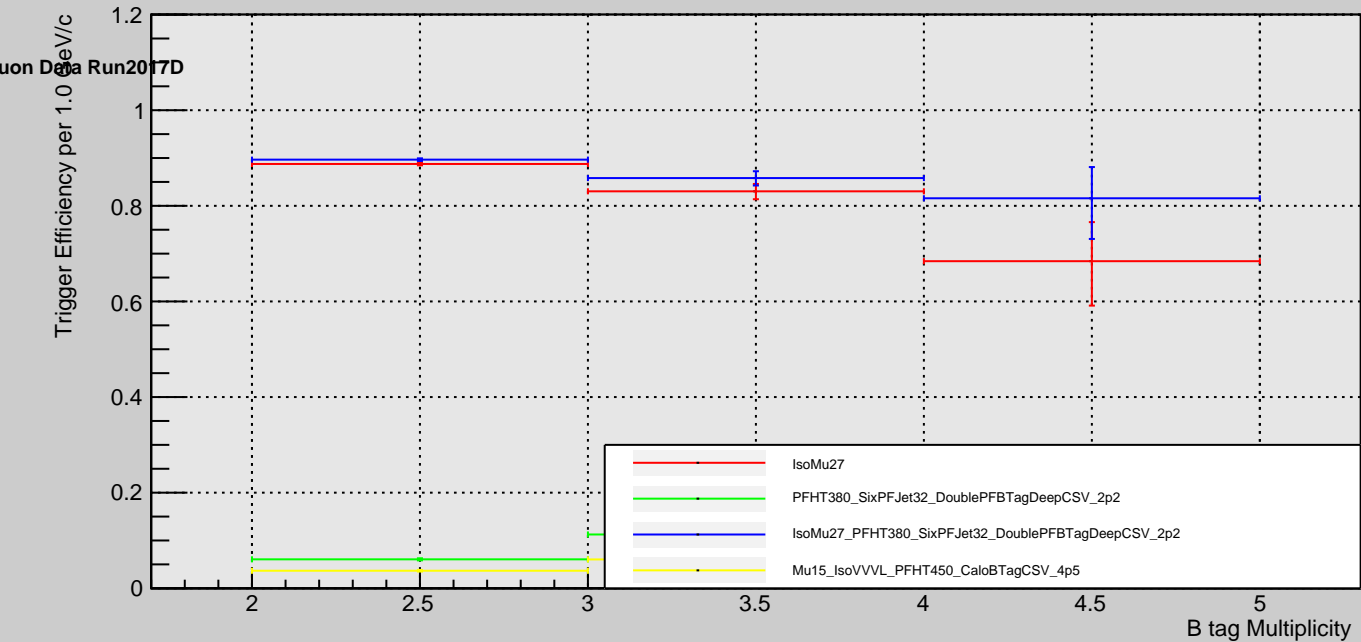
h_jetMult_notrigger	
Entries	13449
Mean	6.25
Std Dev	0.5115



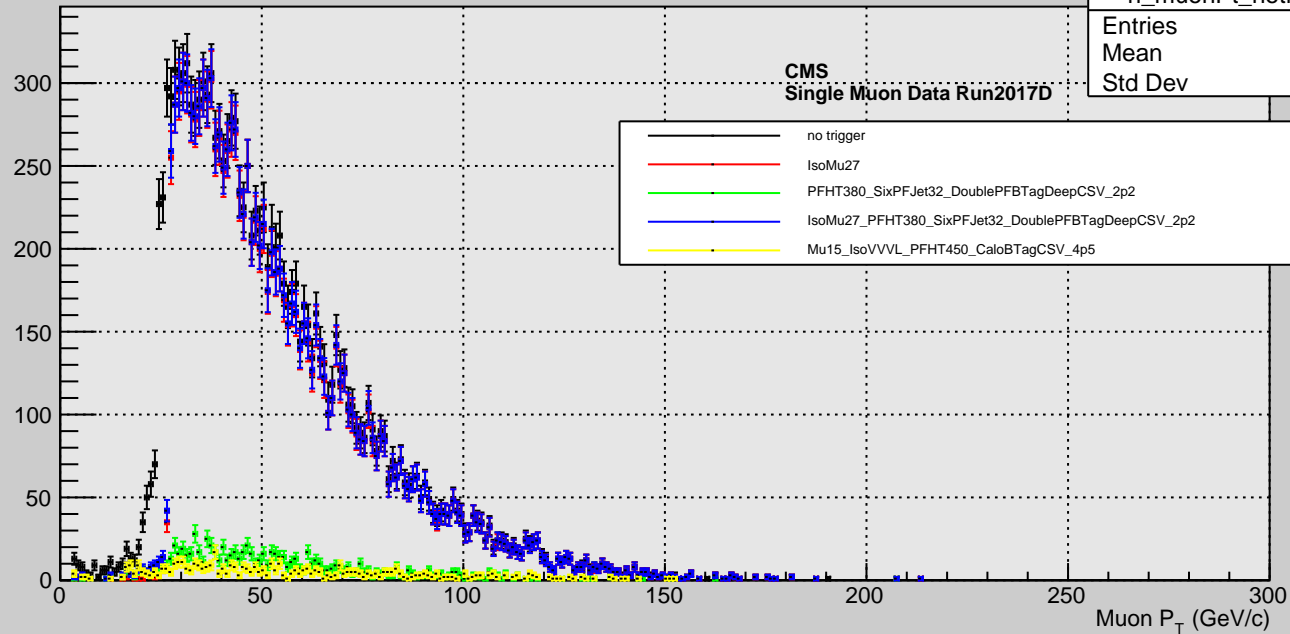
Number of Events per Number of Jets



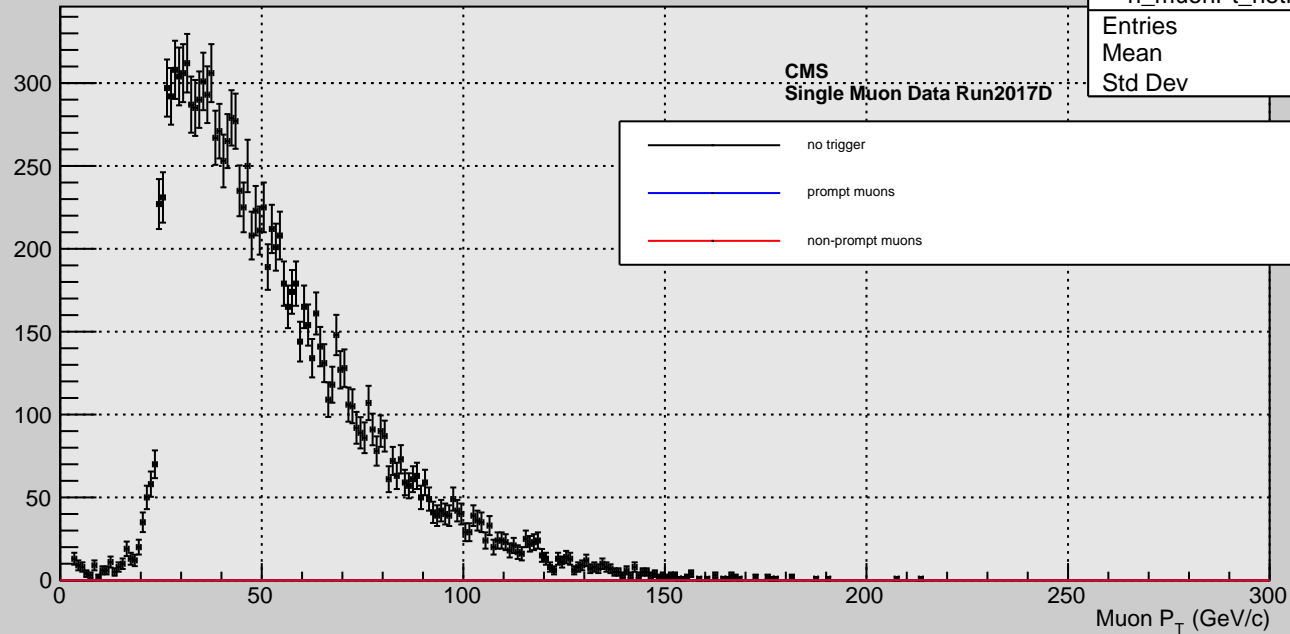
Run 2017D

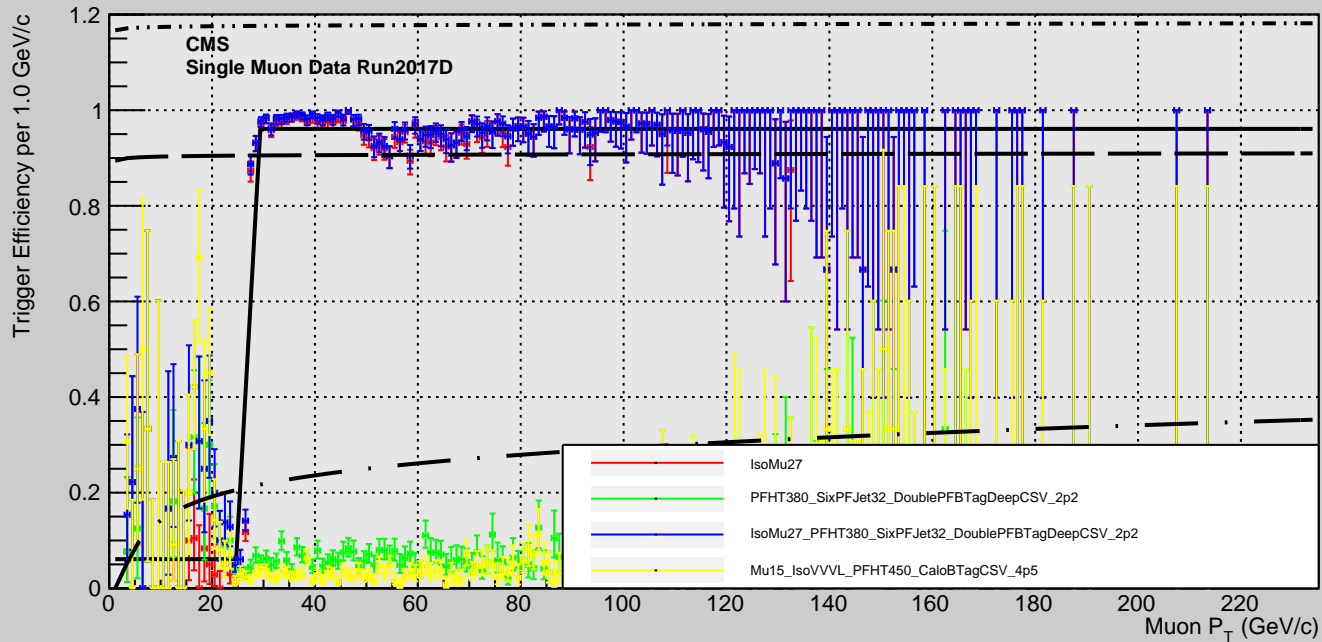


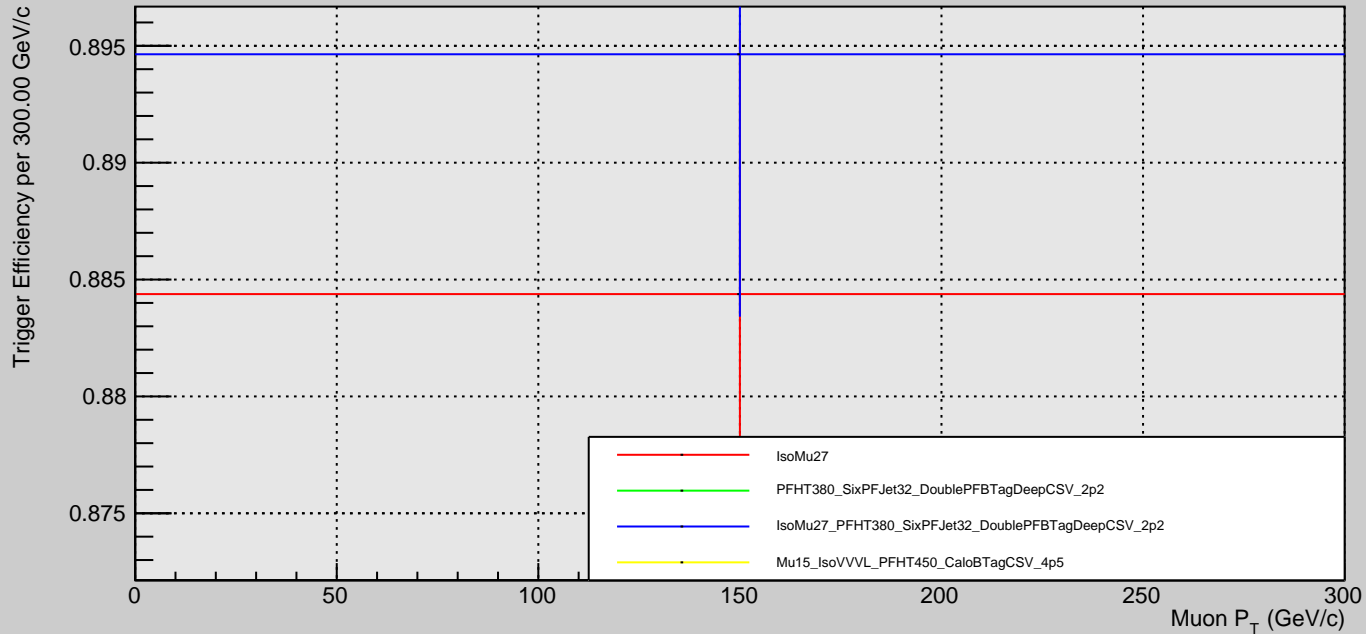
Number of Events per 1 GeV/c



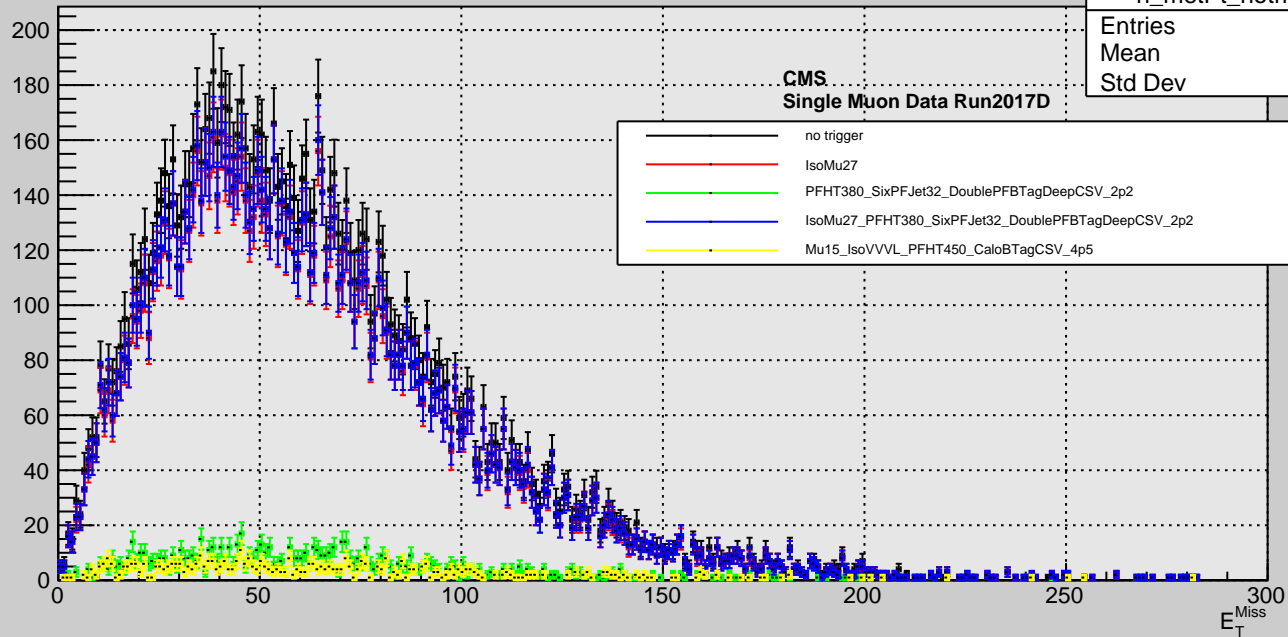
Number of Events per 1 GeV/c







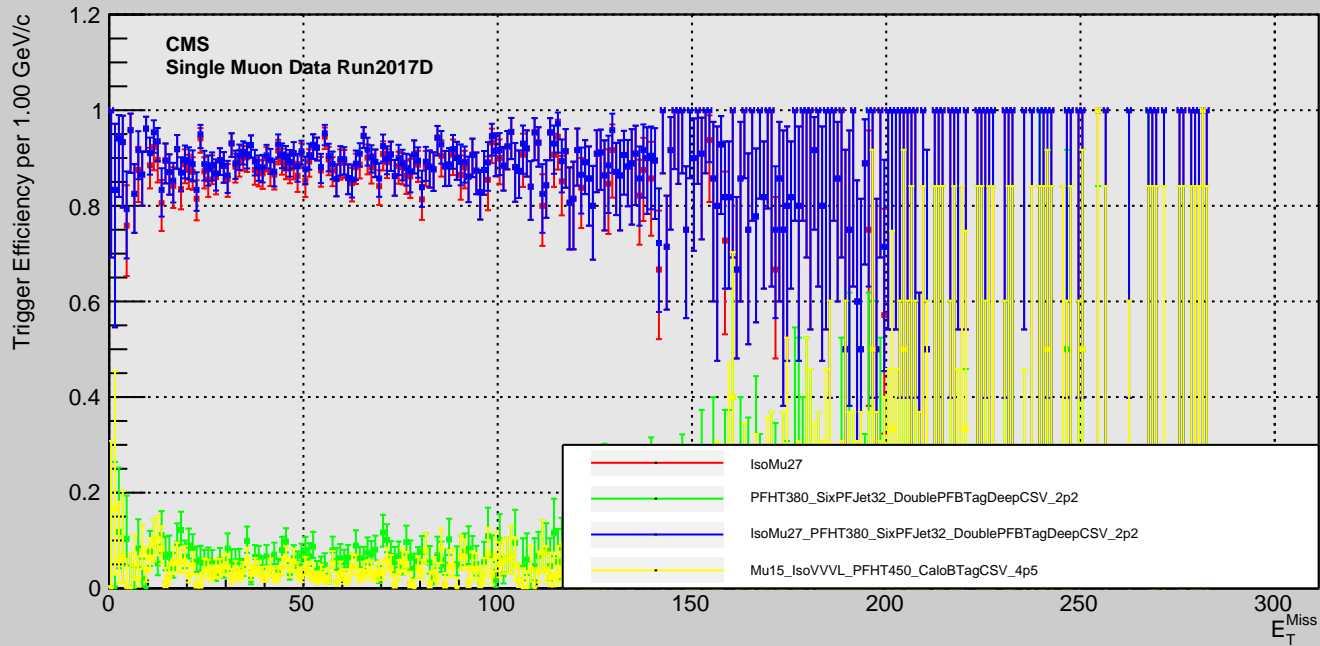
Number of Events per 1 GeV/c



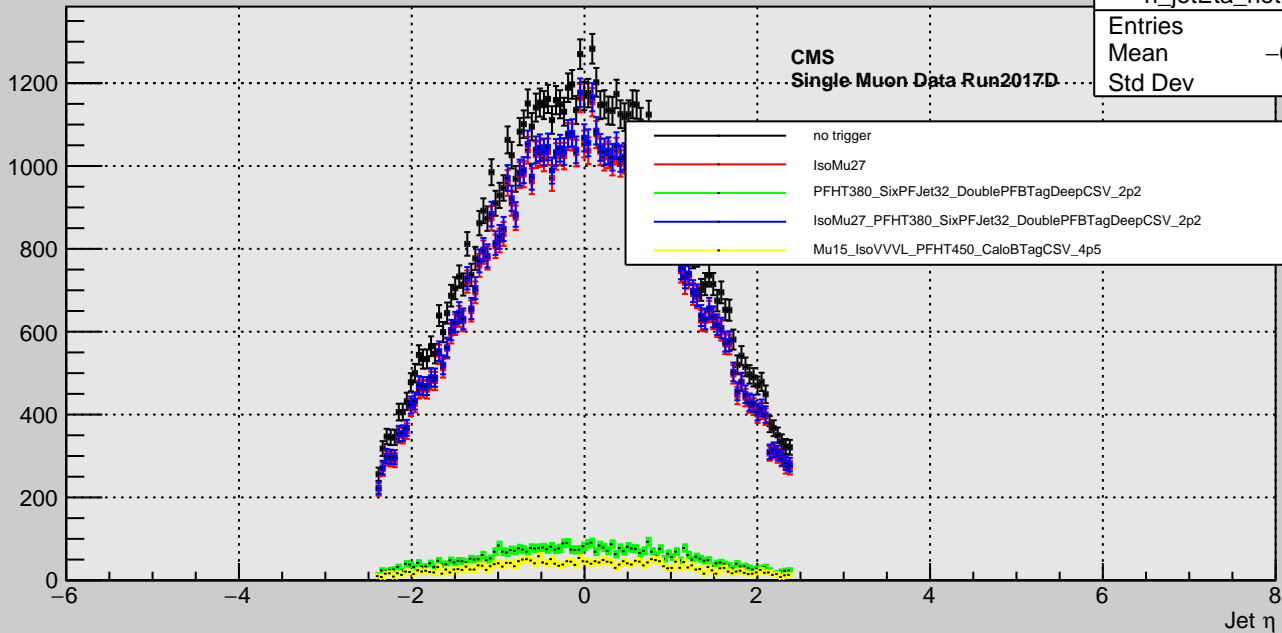
CMS
Single Muon Data Run2017D

h_metPt_notrigger

Entries	13449
Mean	63.98
Std Dev	38.54



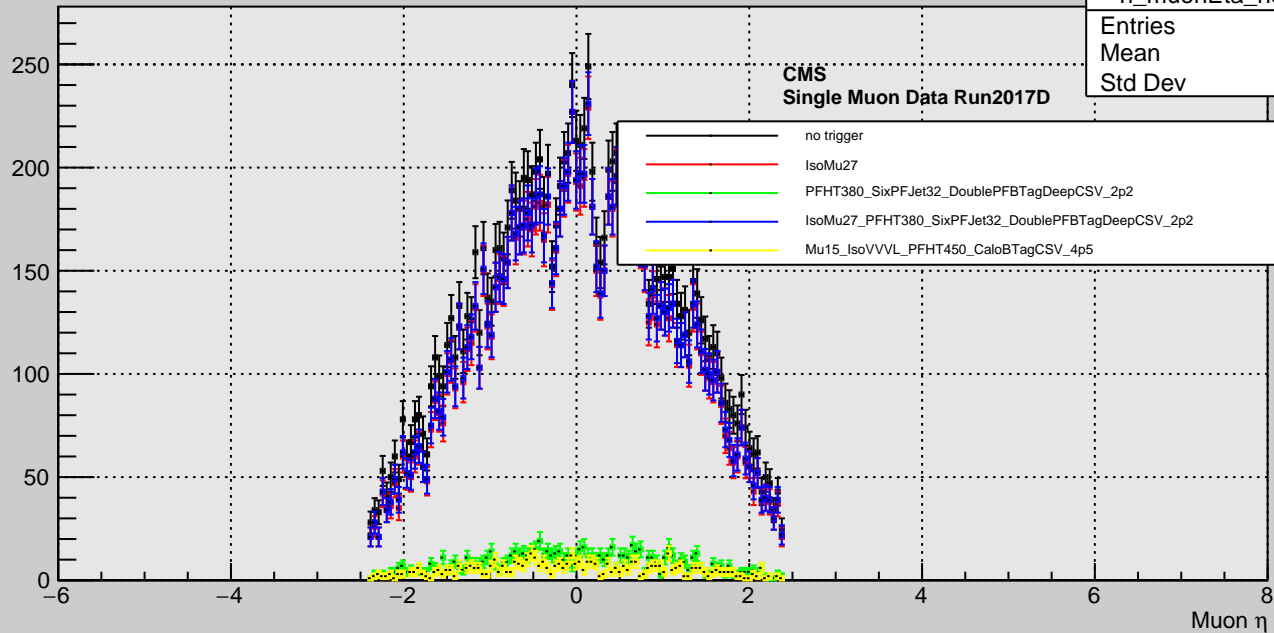
Number of Events per $\delta\eta = 0.046$



h_jetEta_notrigger

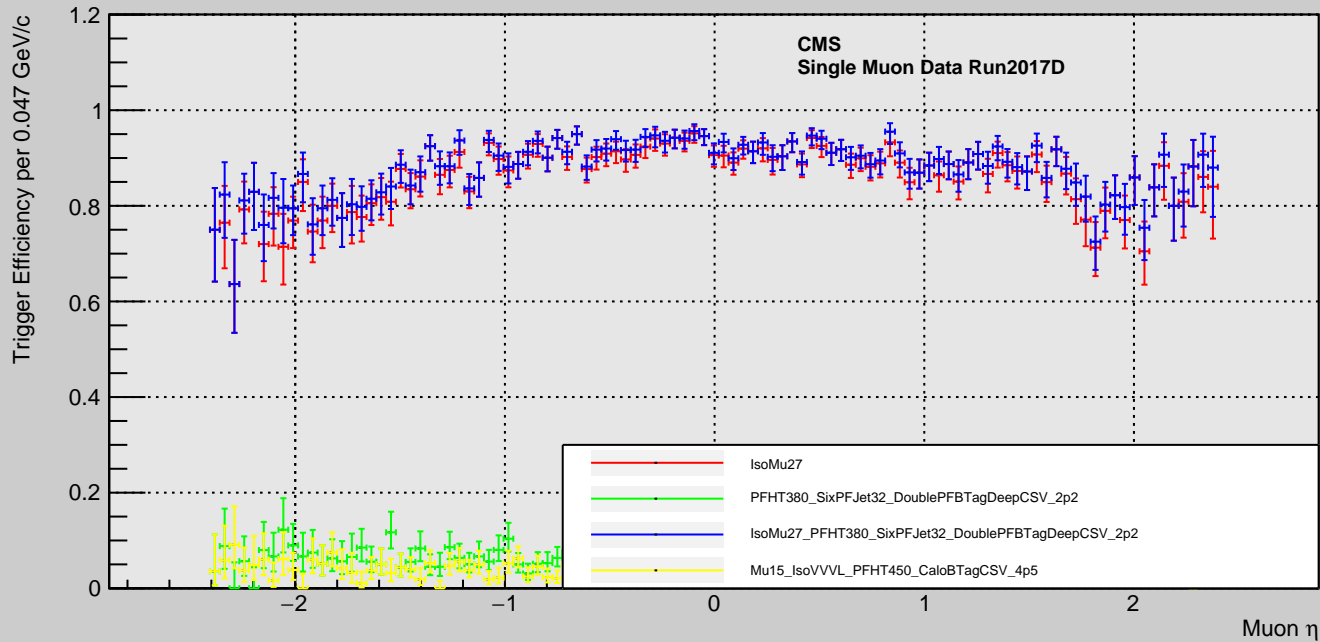
Entries	84054
Mean	-0.001854
Std Dev	1.147

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

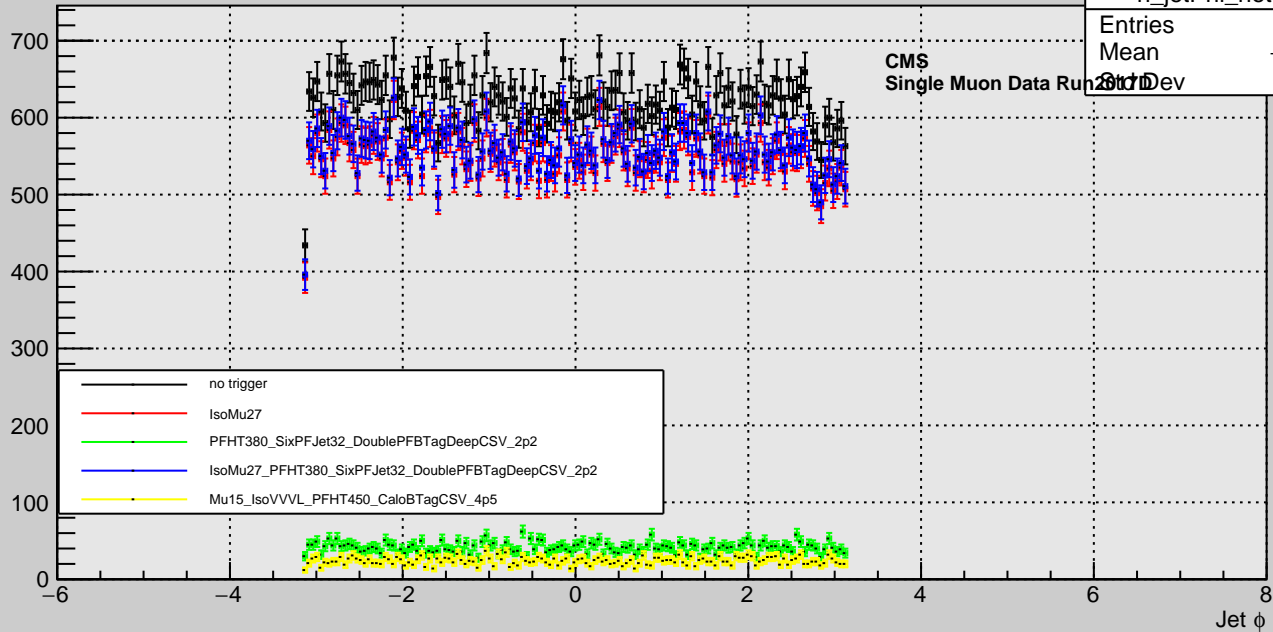


h_muonEta_notrigger

Entries	13449
Mean	0.01741
Std Dev	1.1



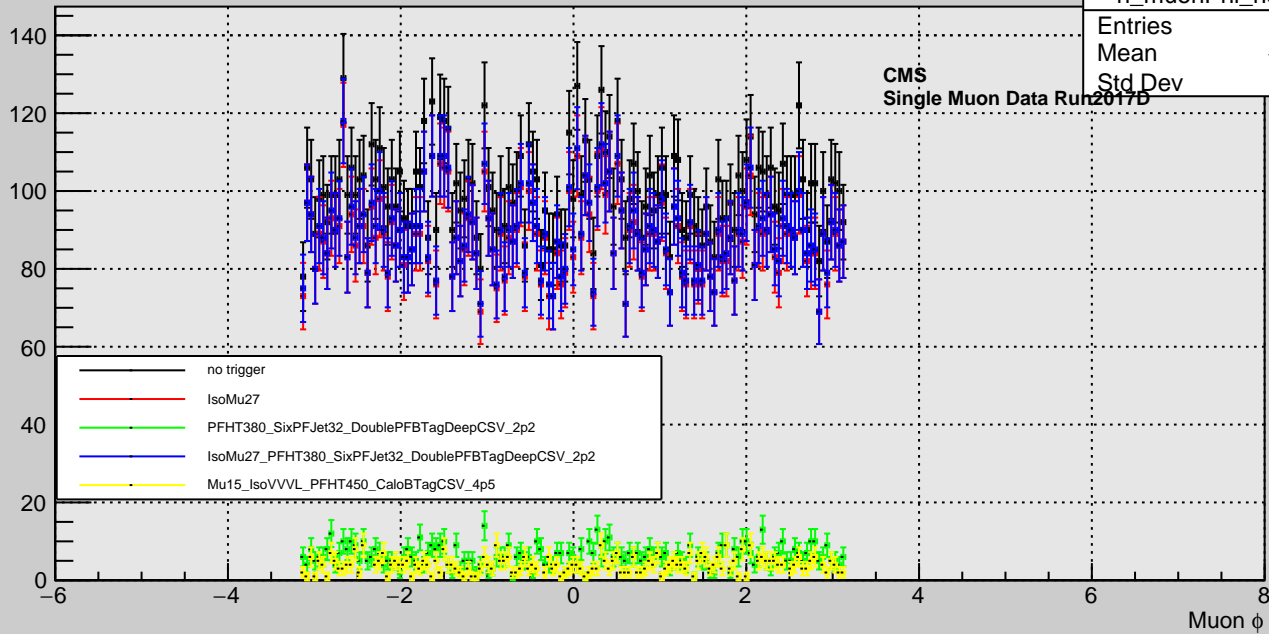
Number of Events per $\delta\phi = 0.046$



h_jetPhi_notrigger

Entries	84054
Mean	-0.01813
Std Dev	1.812

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



h_muonPhi_notrigger

Entries 13449

Mean -0.01756

Std Dev 1.817

