

On-line (pre-)selection Requisites for:

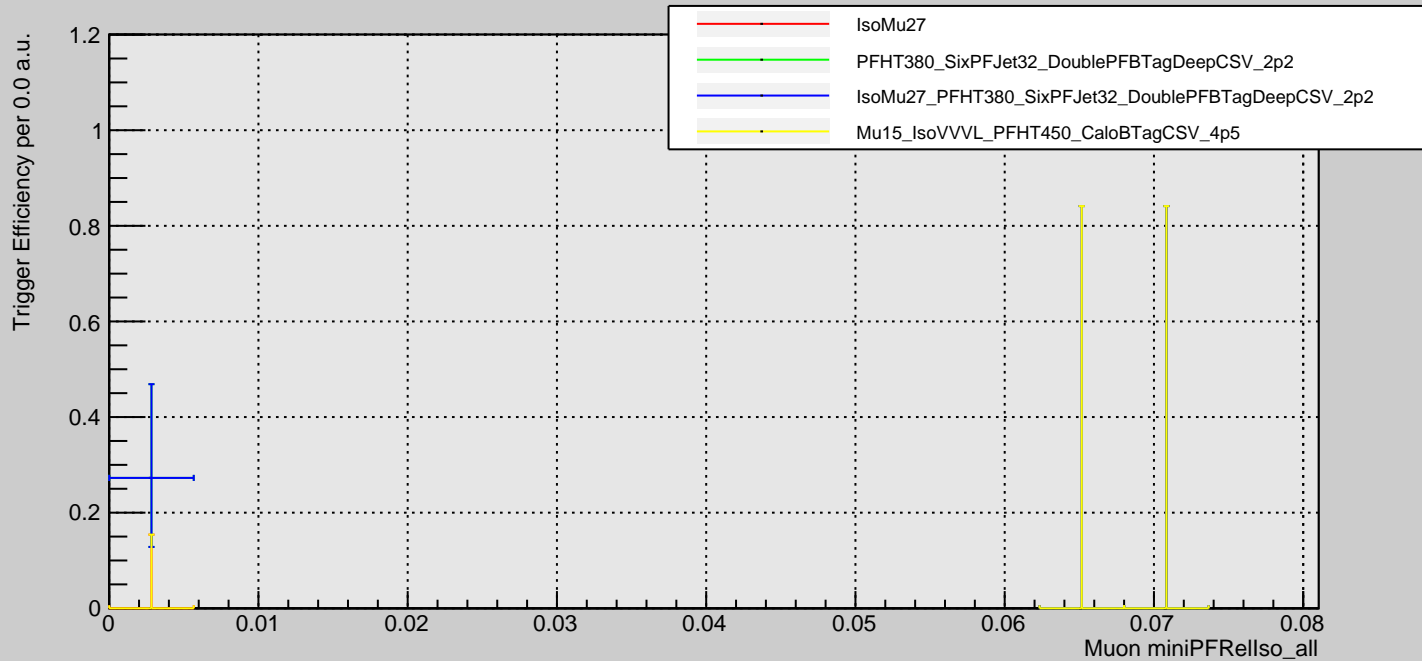
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

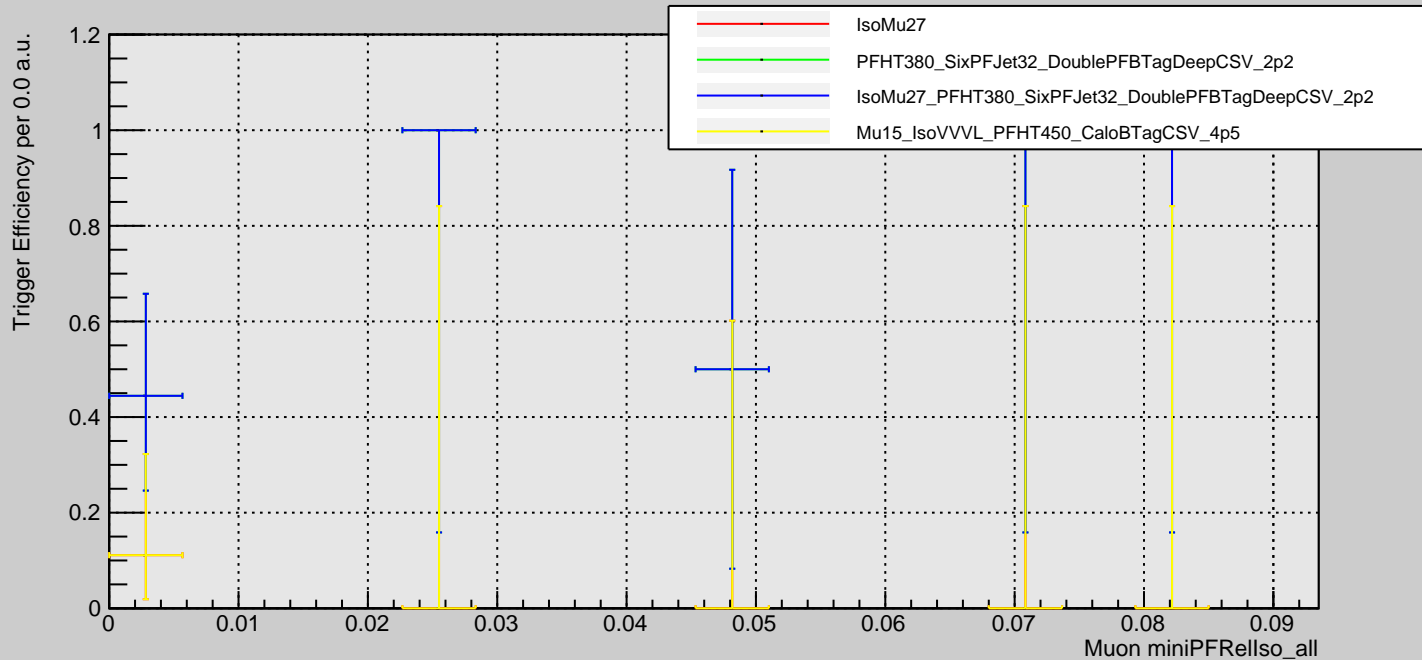
Off-line (post-)selection Requisites for:

- **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)

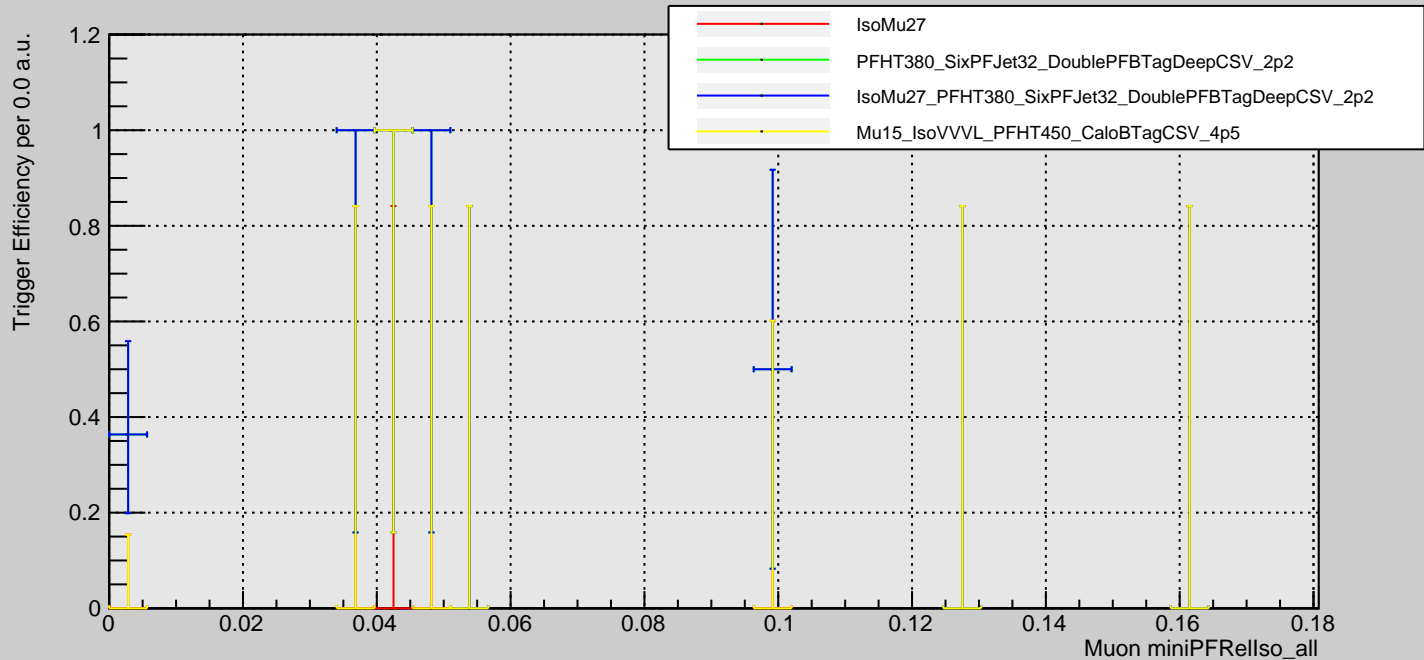
Muon Pt = 5



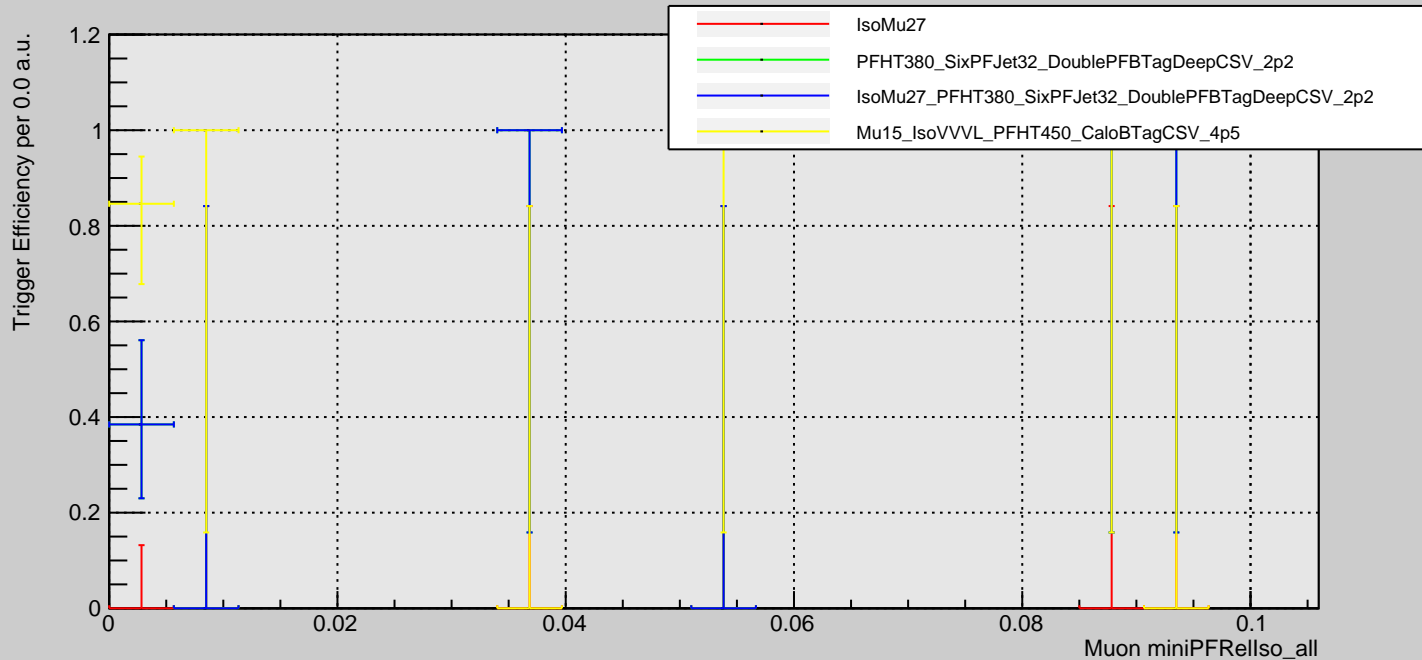
Muon Pt = 10



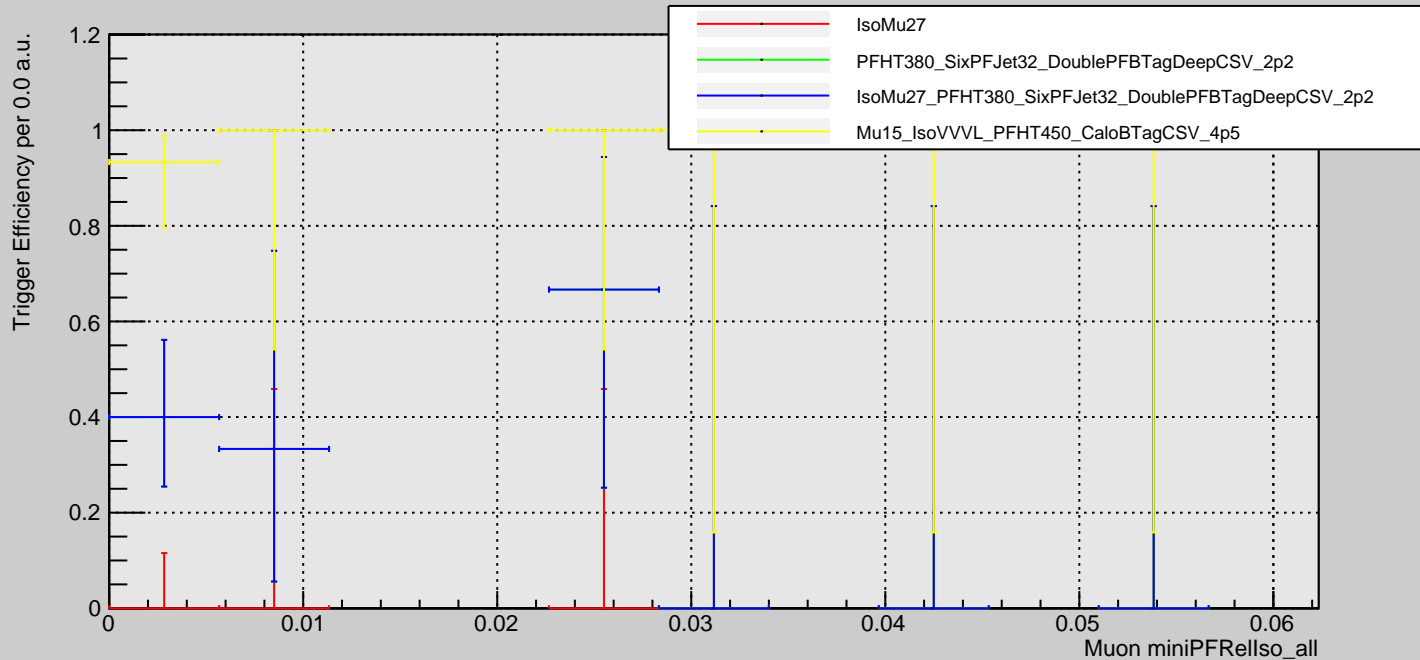
Muon Pt = 15



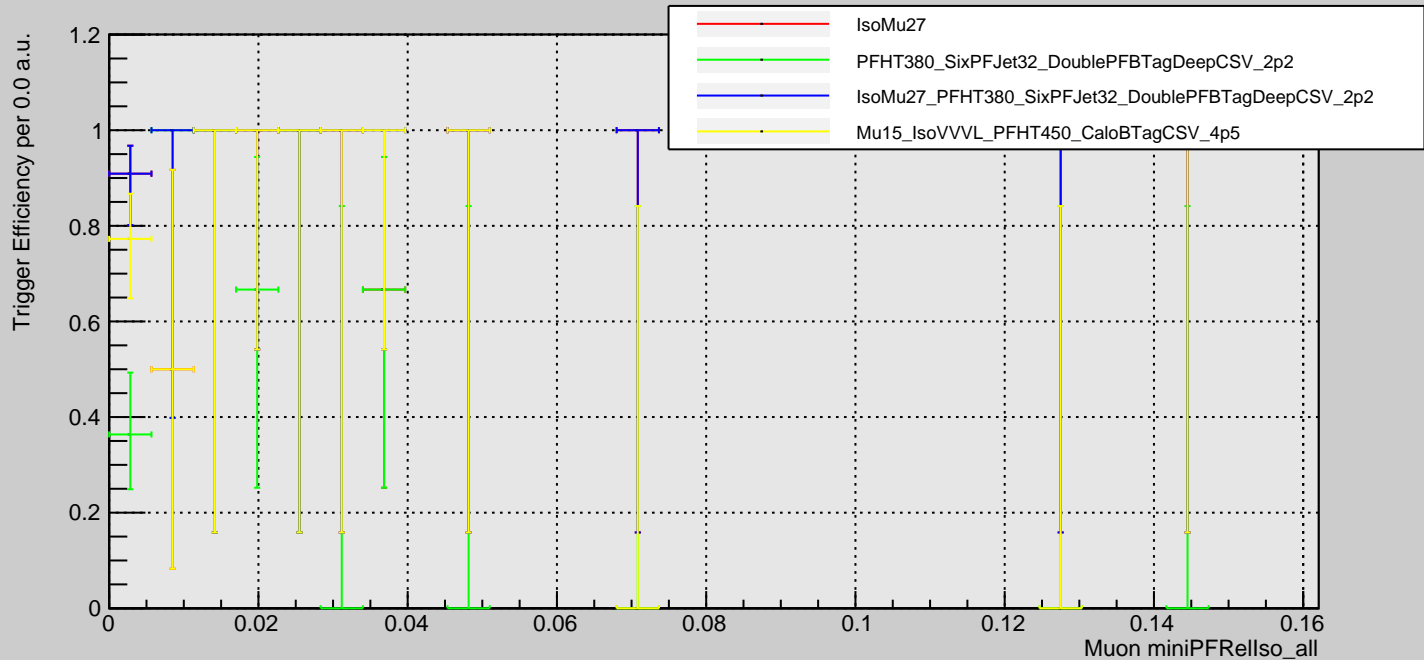
Muon Pt = 20



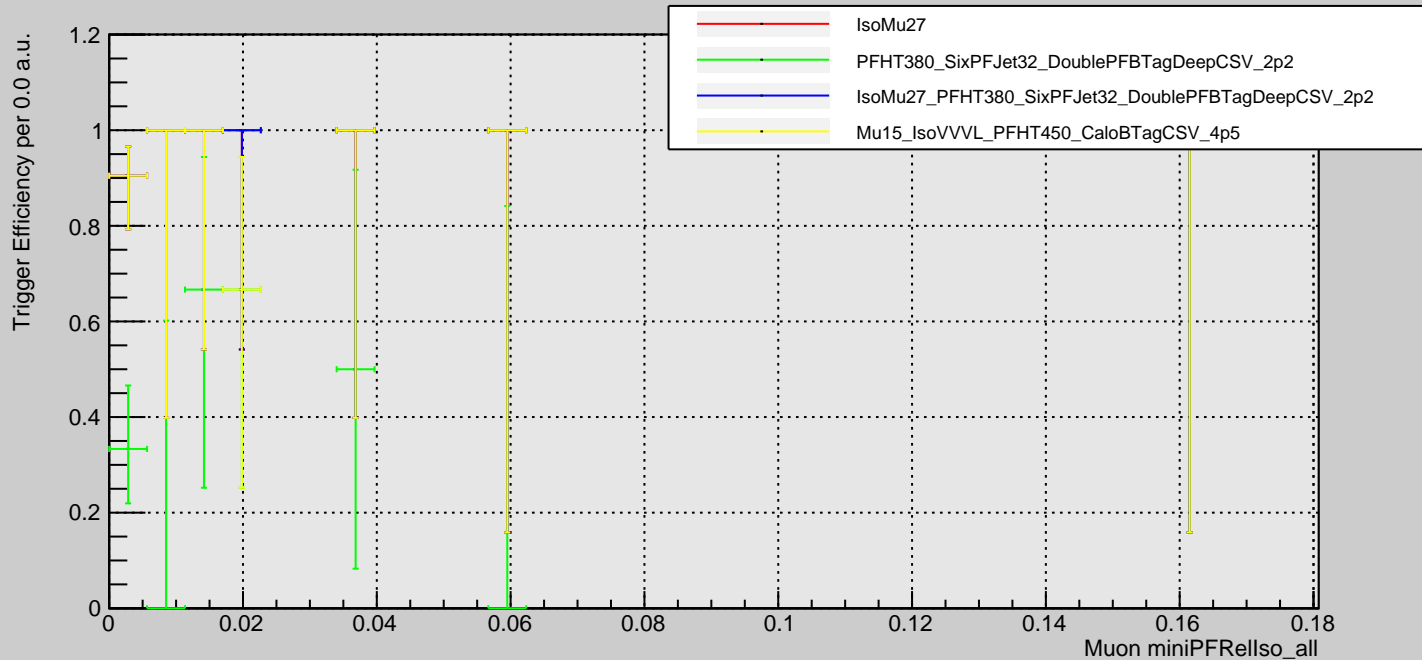
Muon Pt = 25



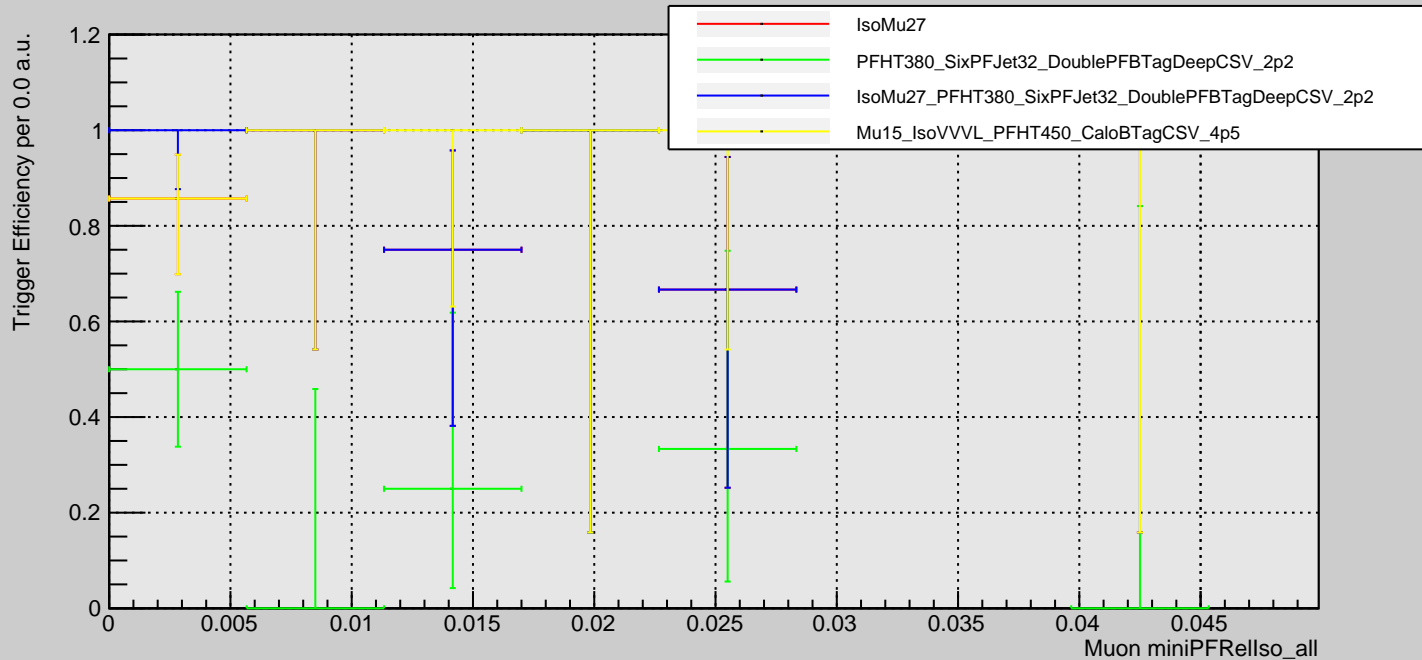
Muon Pt = 30



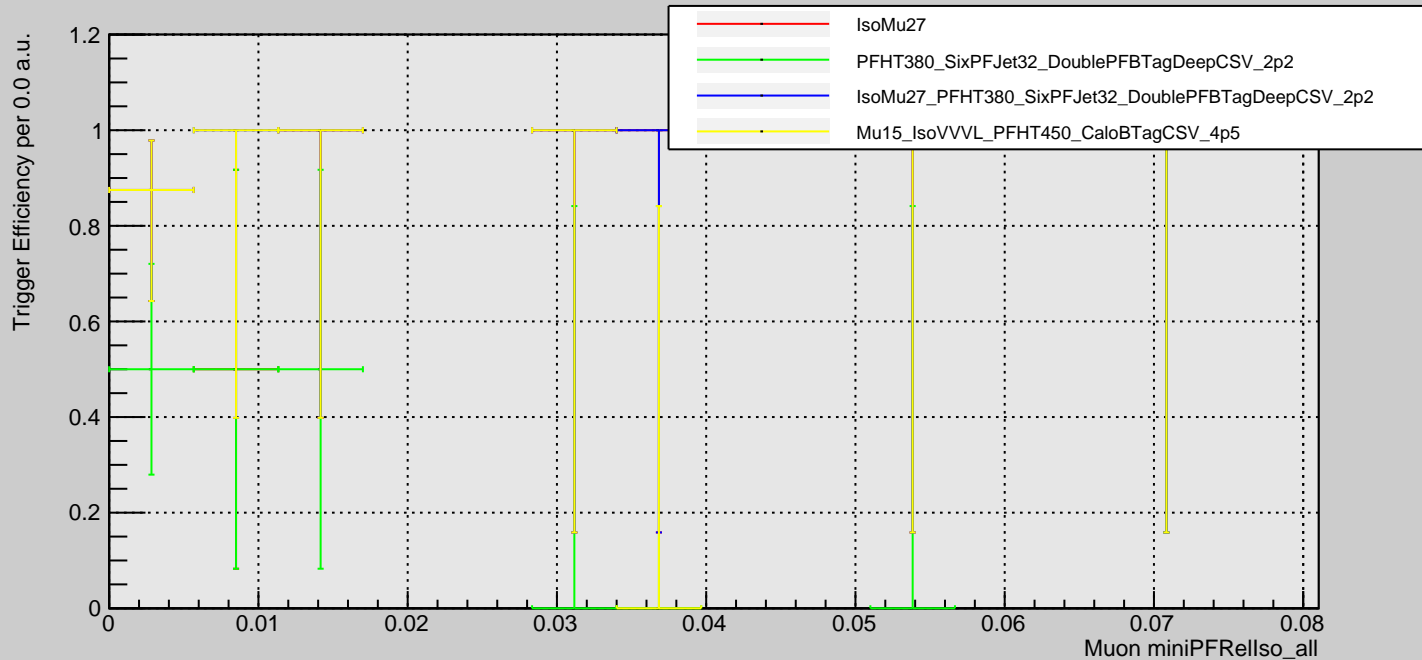
Muon Pt = 35



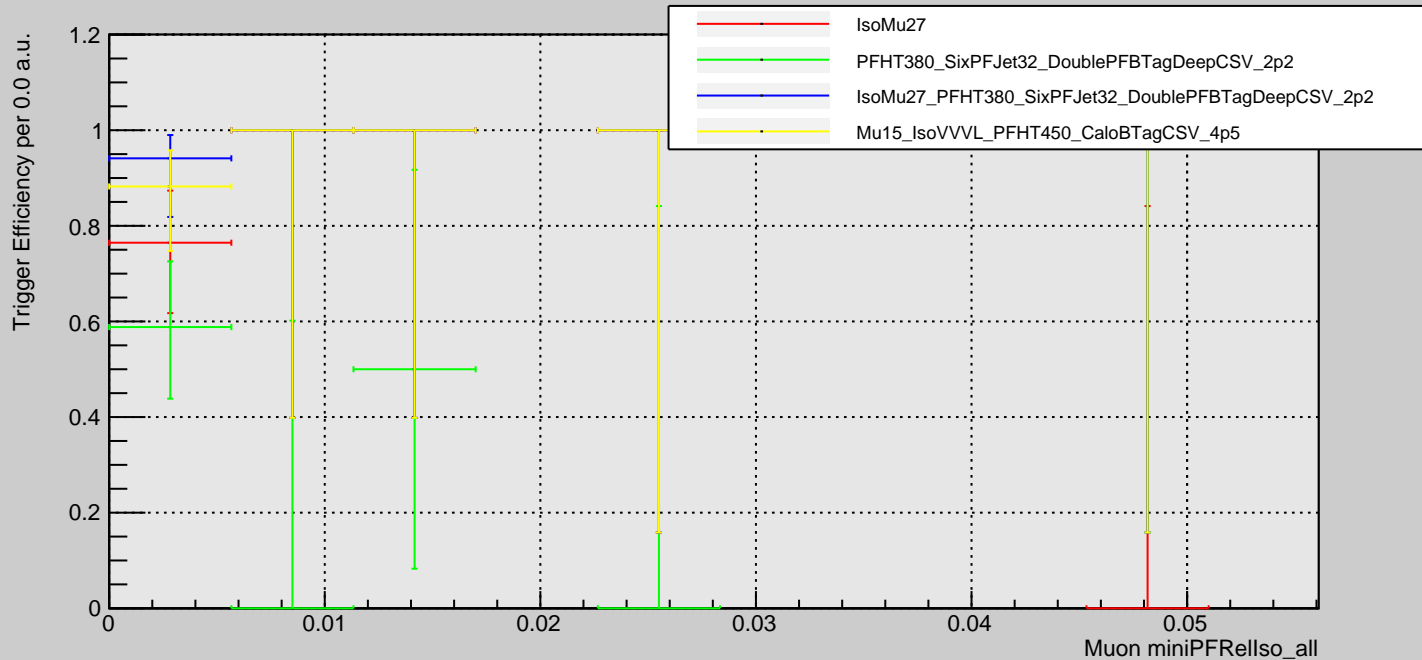
Muon Pt = 40



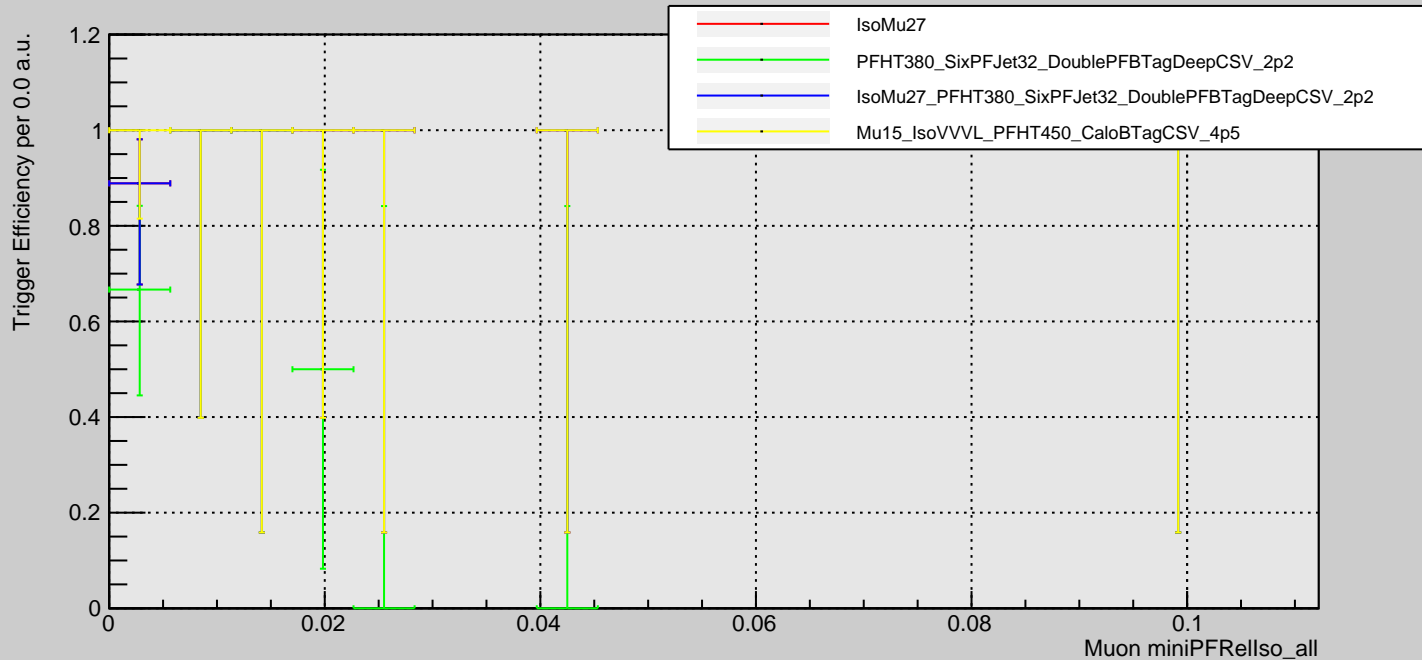
Muon Pt = 45



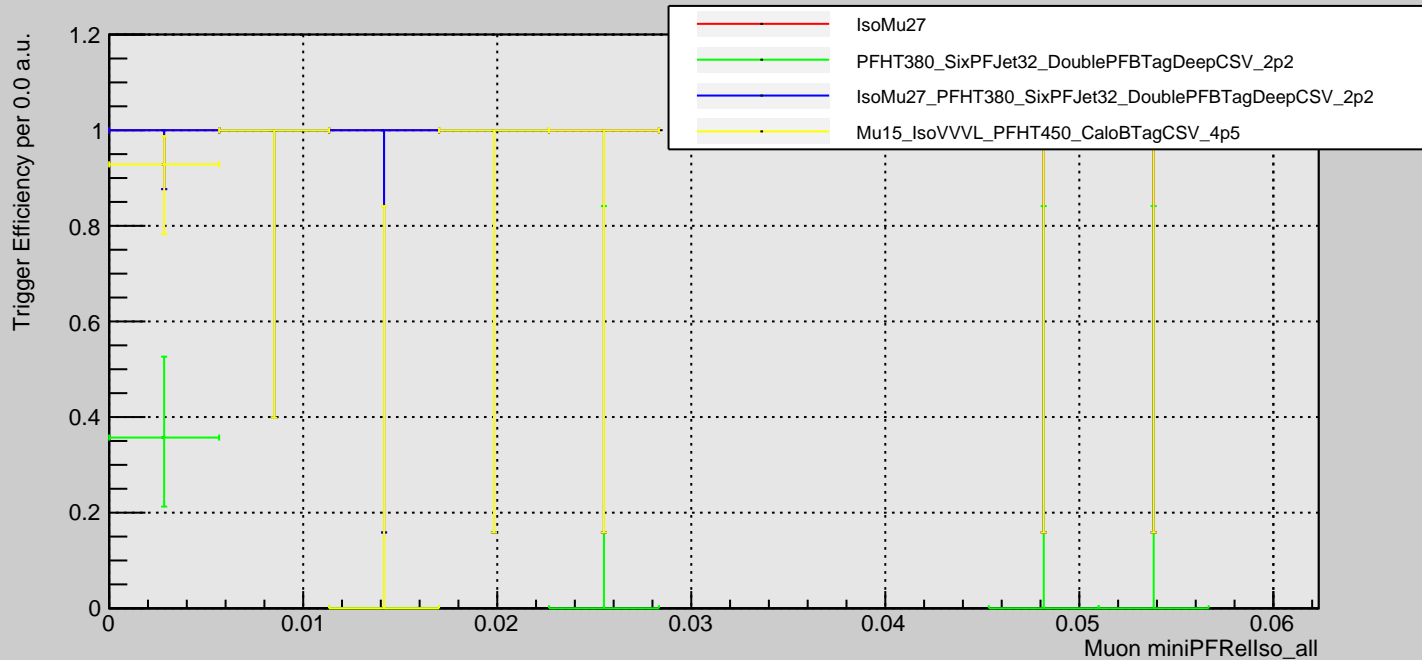
Muon Pt = 50



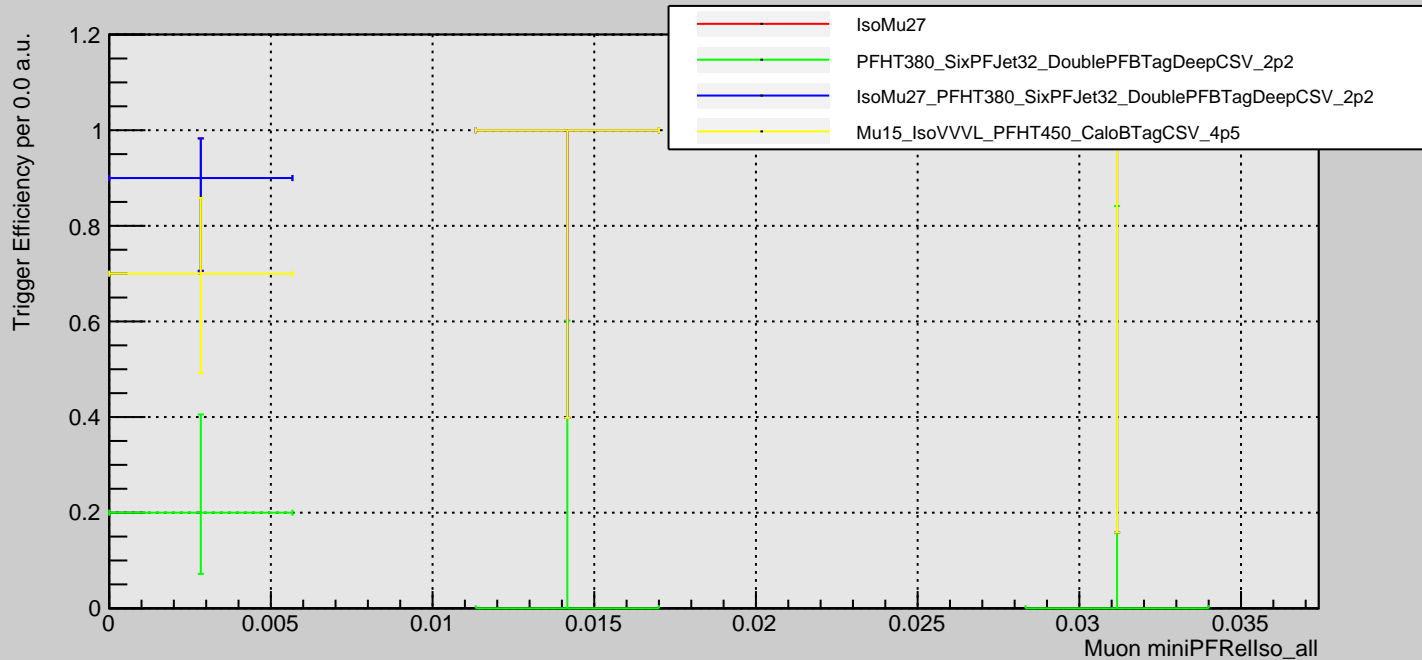
Muon Pt = 55



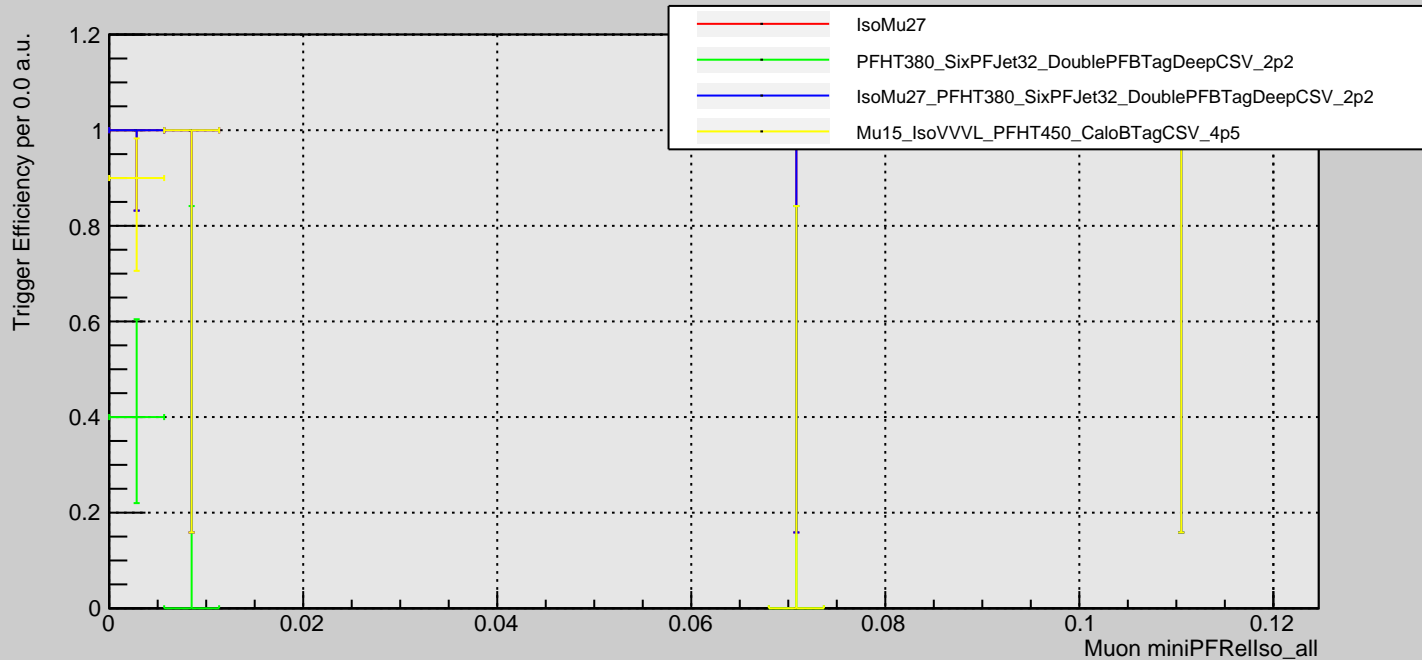
Muon Pt = 60



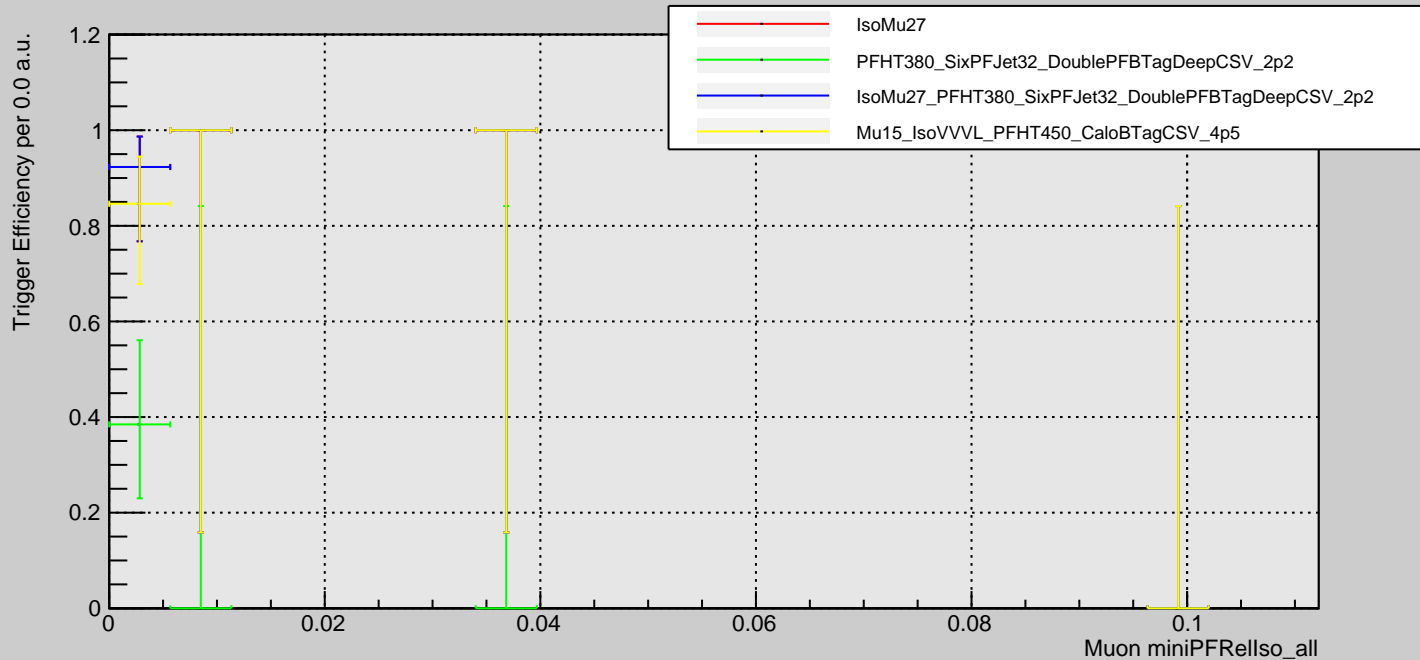
Muon Pt = 65



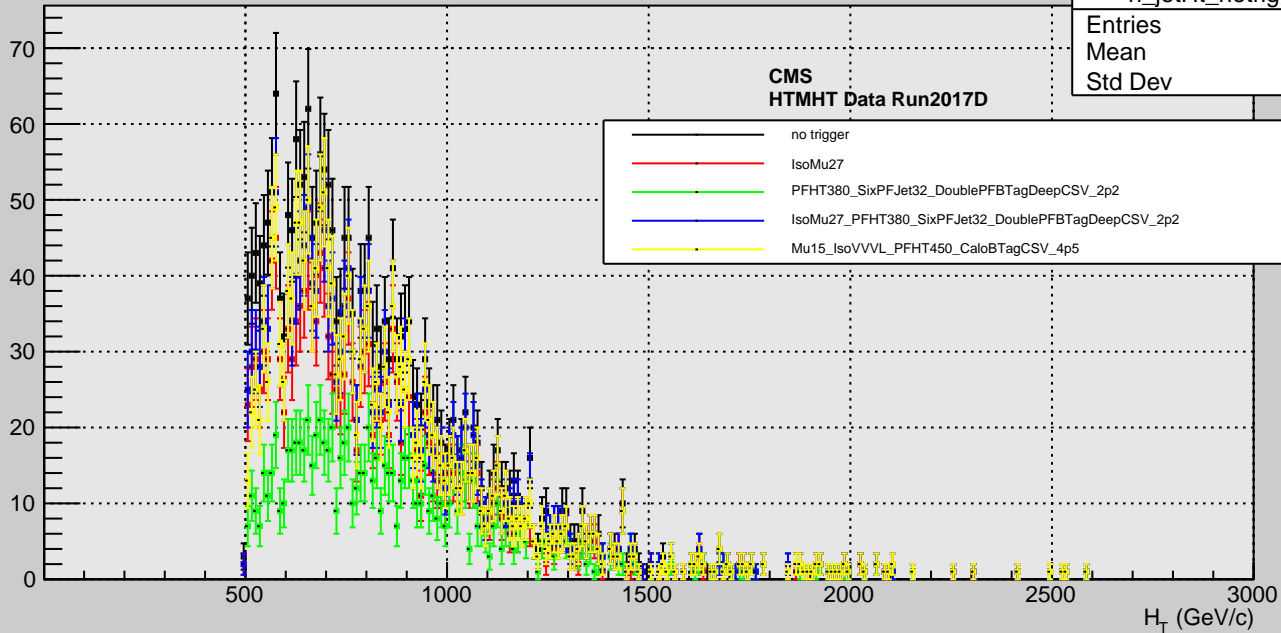
Muon Pt = 70



Muon Pt = 75

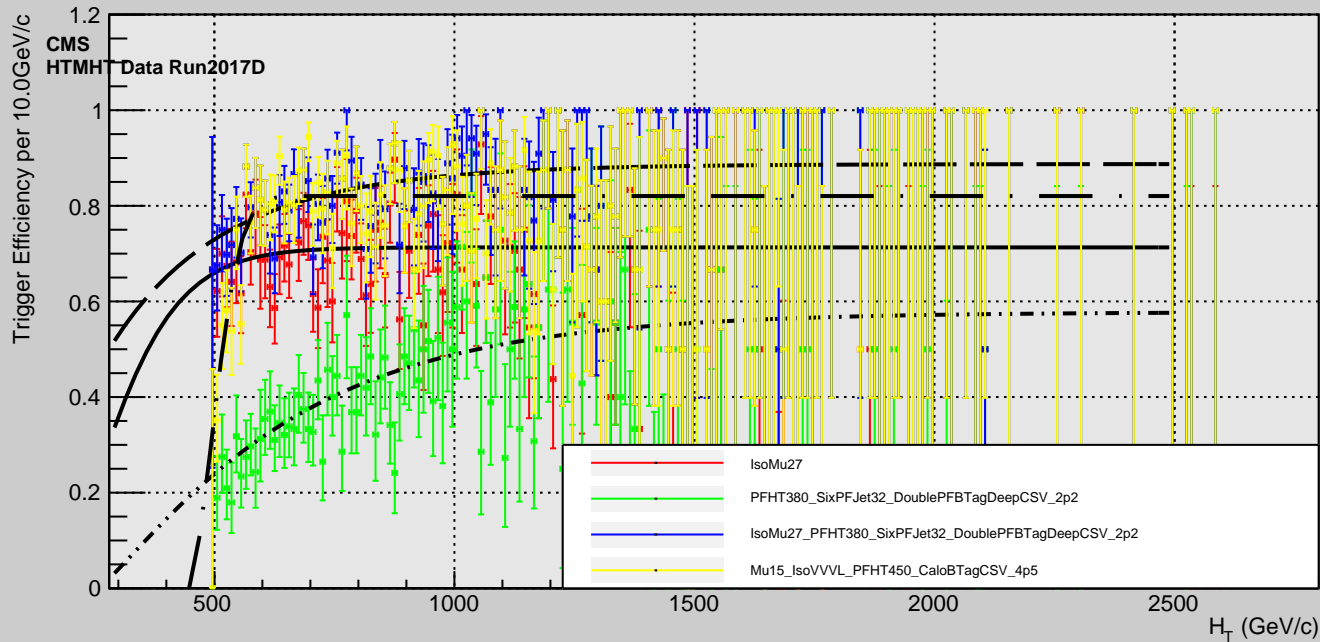


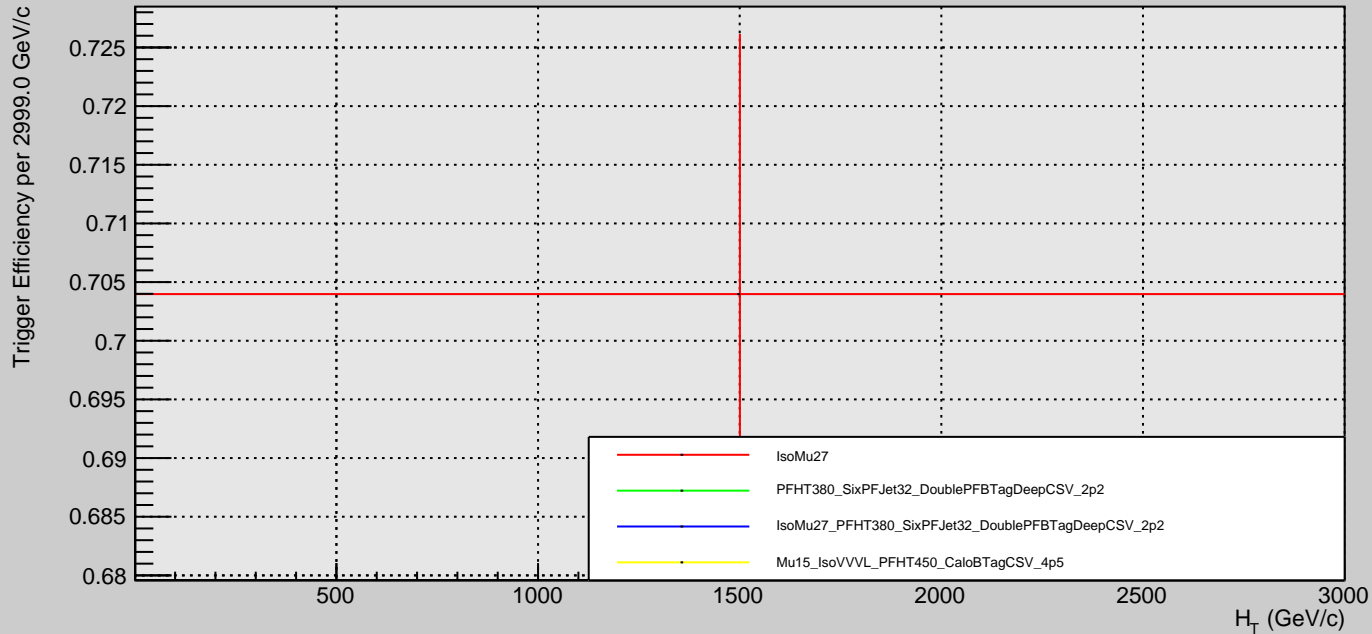
Number of Events per 10 GeV/c



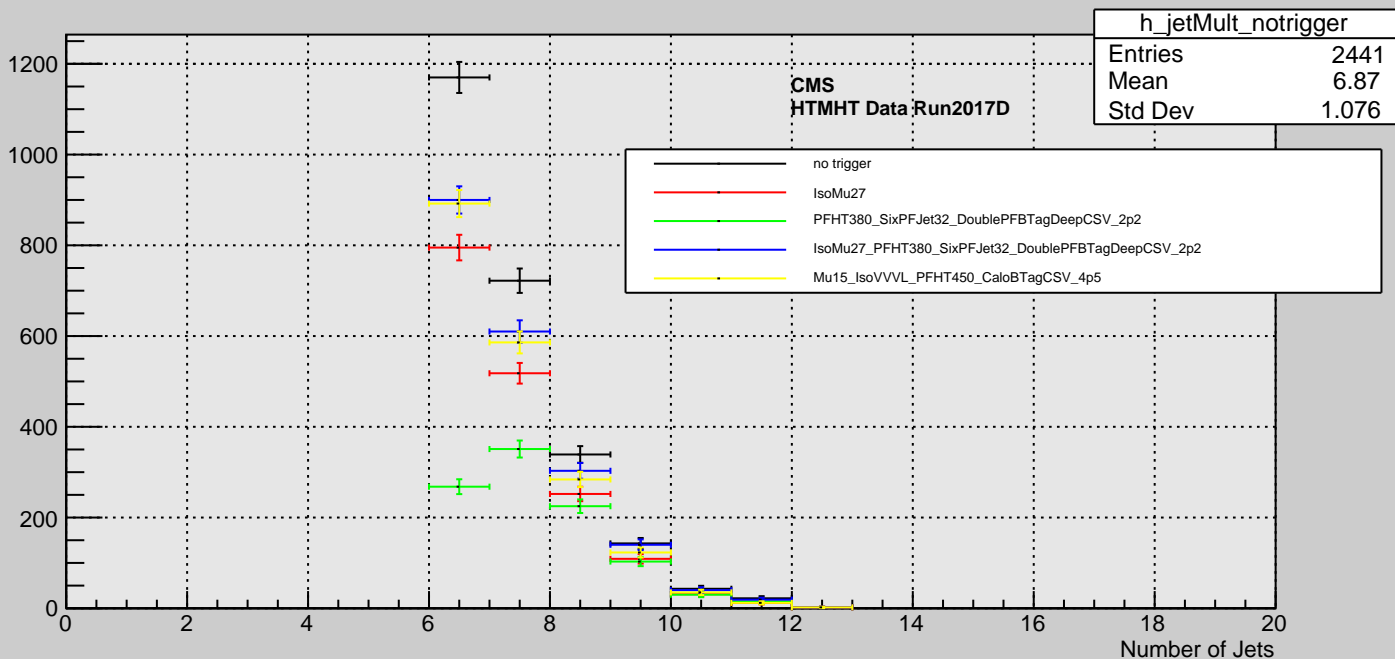
h_jetHt_notrigger

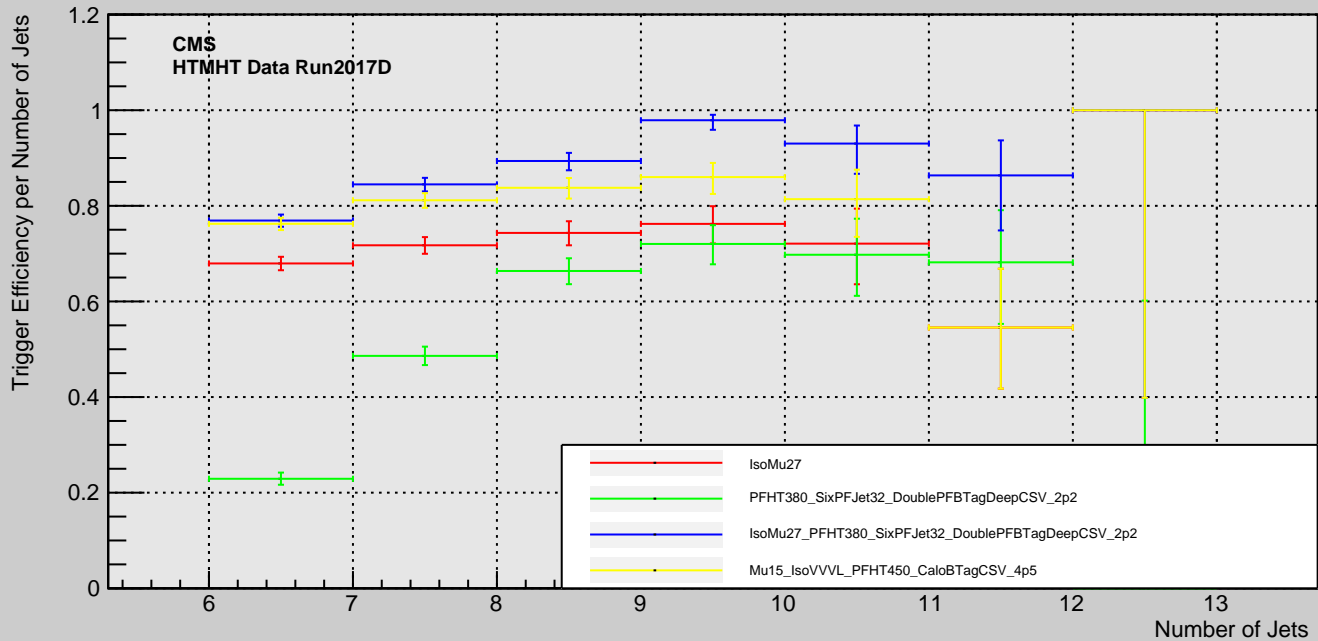
Entries	2441
Mean	839.3
Std Dev	291



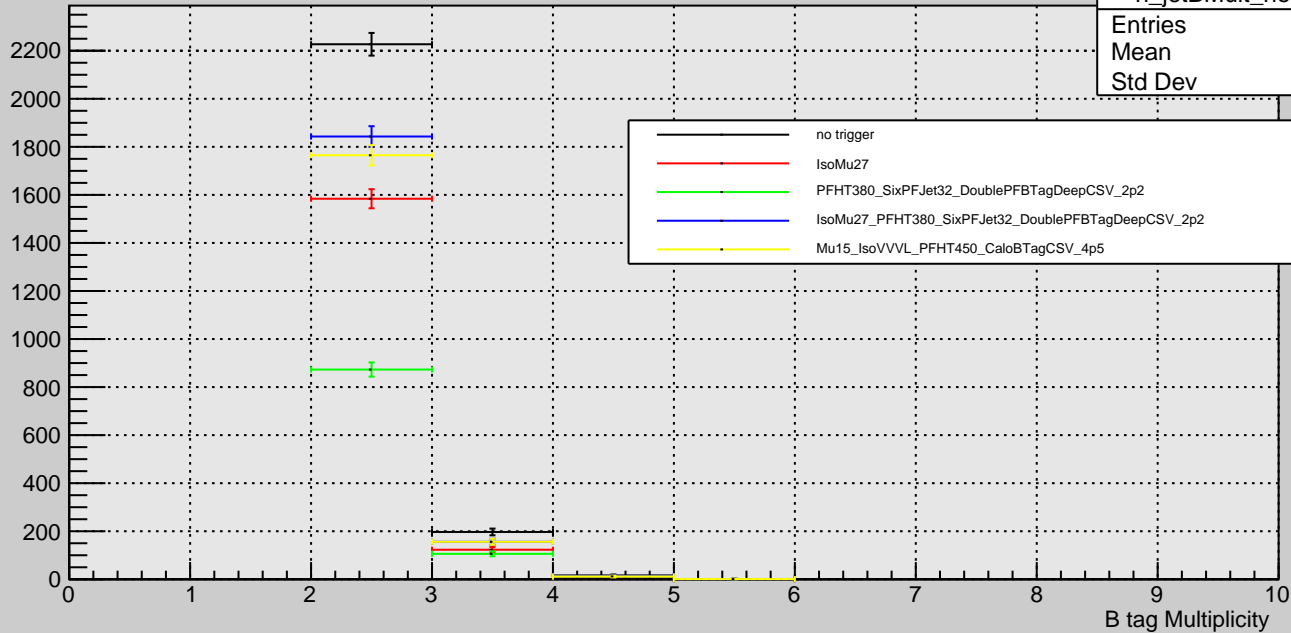


Number of Events per Number of Jets

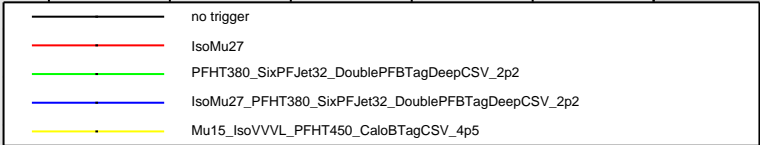




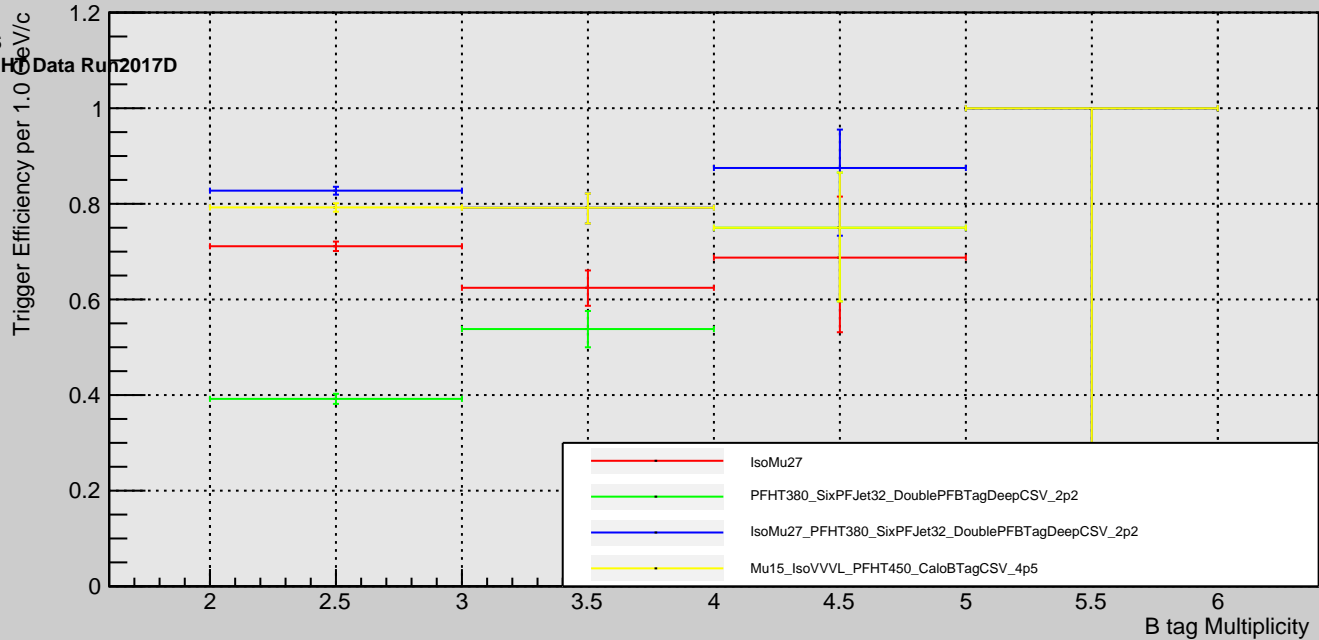
Number of Events per Number of Jets



h_jetBMult_notrigger	
Entries	2441
Mean	2.595
Std Dev	0.3187



CMS
HTMHC Data Run 2017D



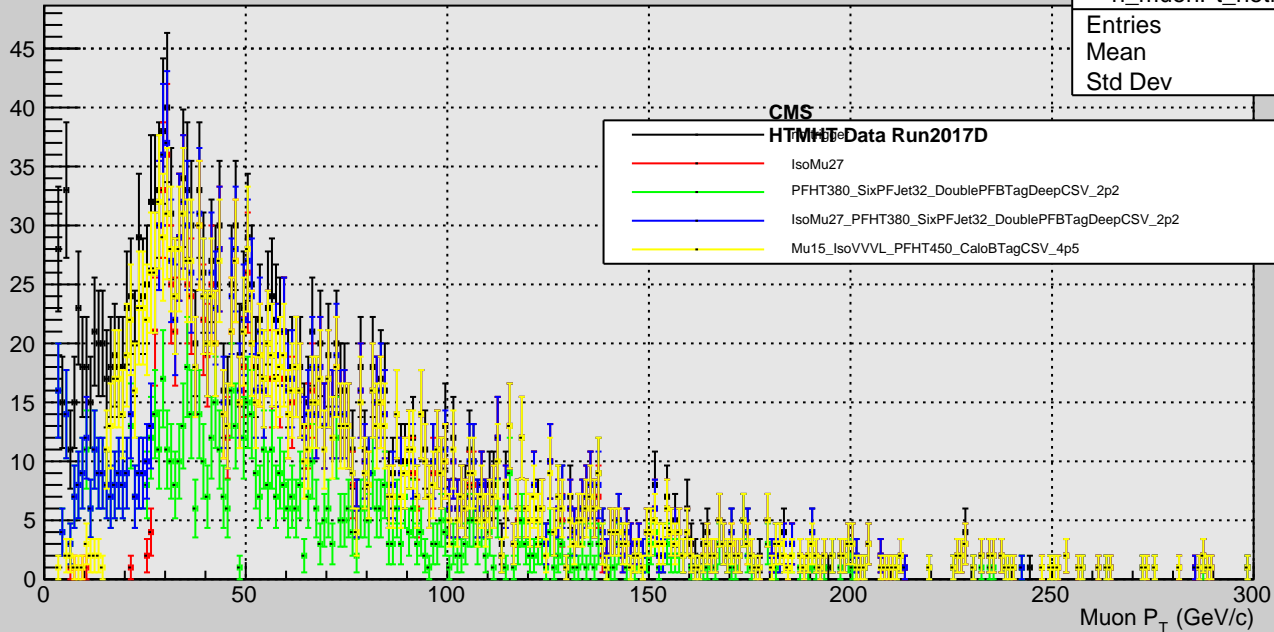
Number of Events per 1 GeV/c

h_muonPt_notrigger	
Entries	2441
Mean	67.33
Std Dev	52.03

CMS

HT-MHT Data Run2017D

- IsoMu27
- PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- IsoMu27_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2
- Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5



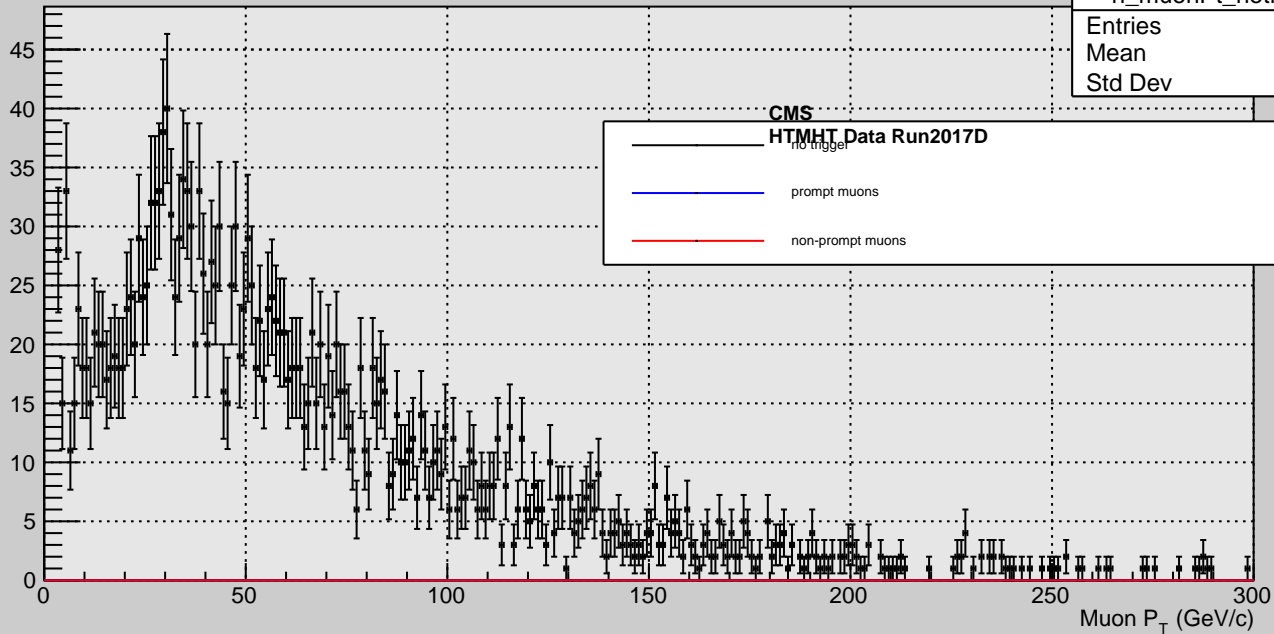
Number of Events per 1 GeV/c

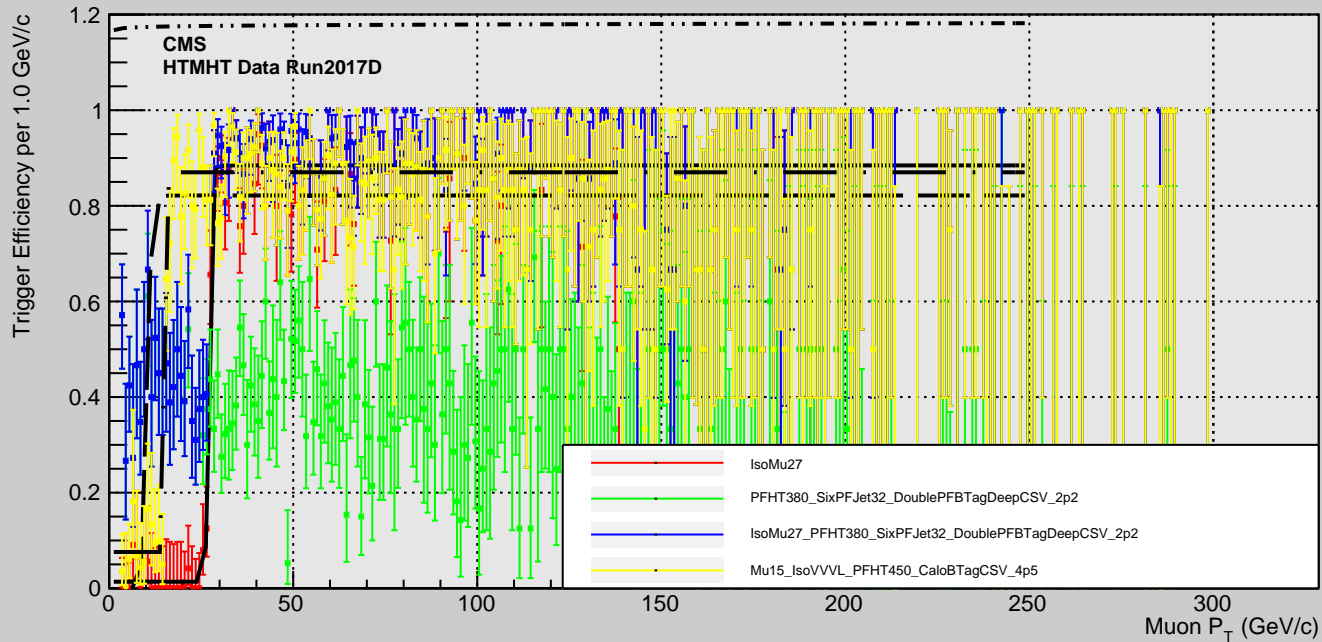
h_muonPt_notrigger	
Entries	2441
Mean	67.33
Std Dev	52.03

CMS

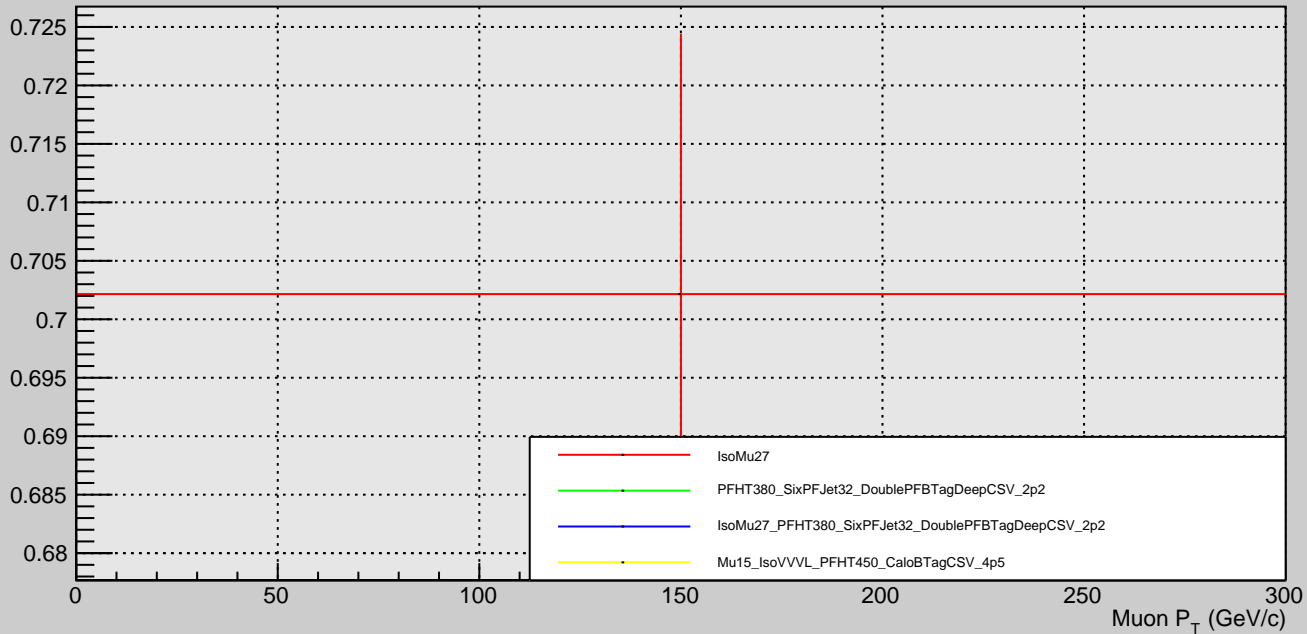
HTMHT Data Run2017D

- no trigger
- prompt muons
- non-prompt muons



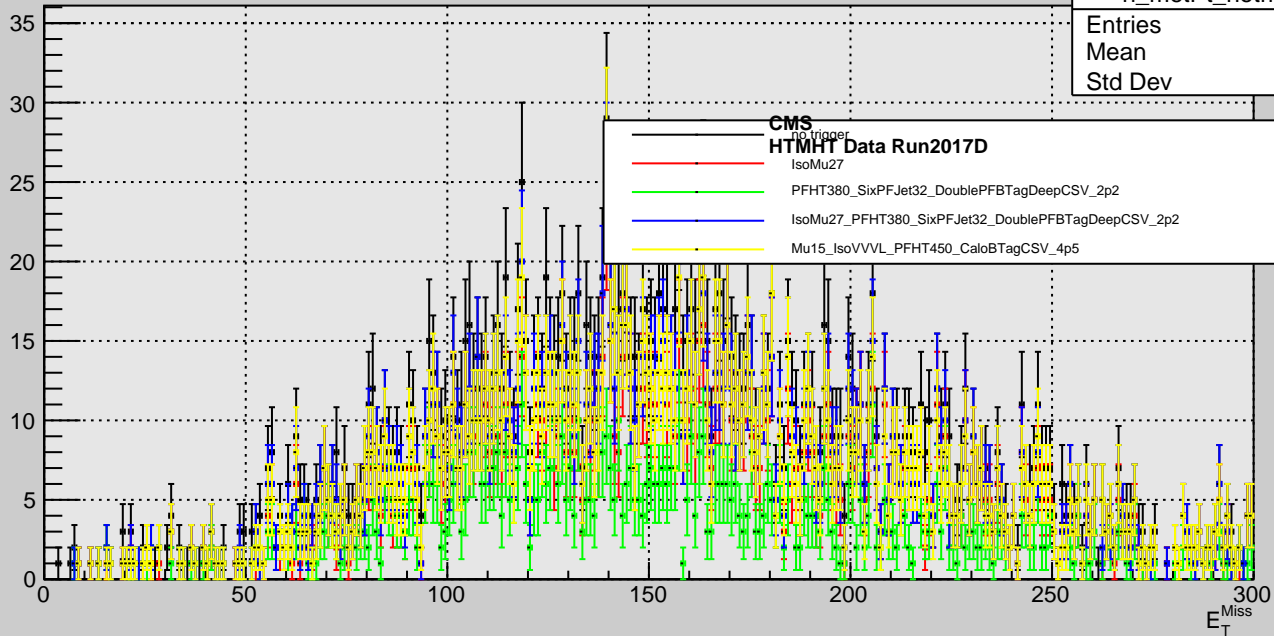


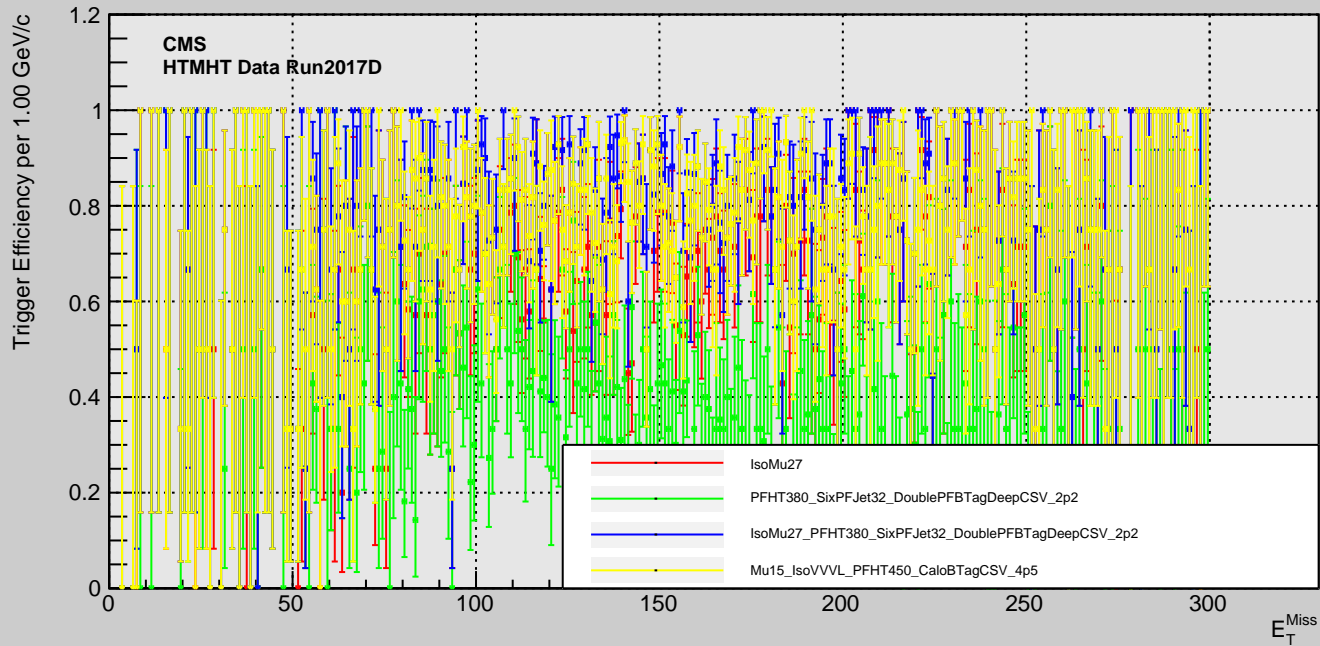
Trigger Efficiency per 300.00 GeV/c



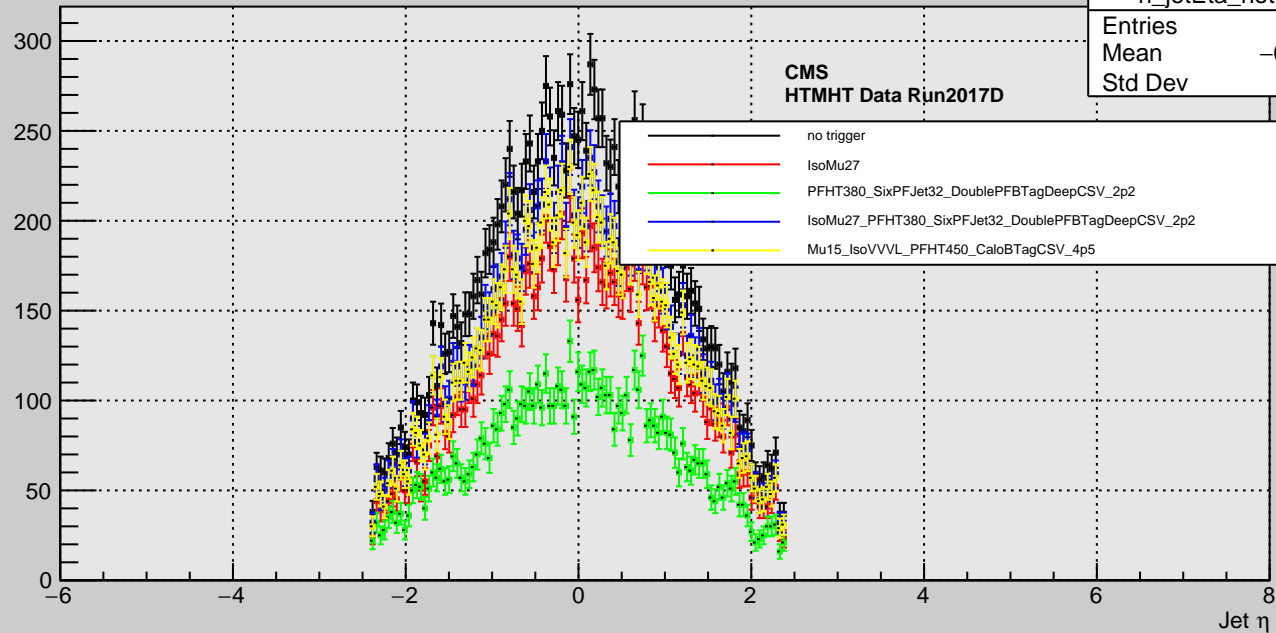
Number of Events per 1 GeV/c

h_metPt_notrigger	
Entries	2441
Mean	156.1
Std Dev	58.13





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

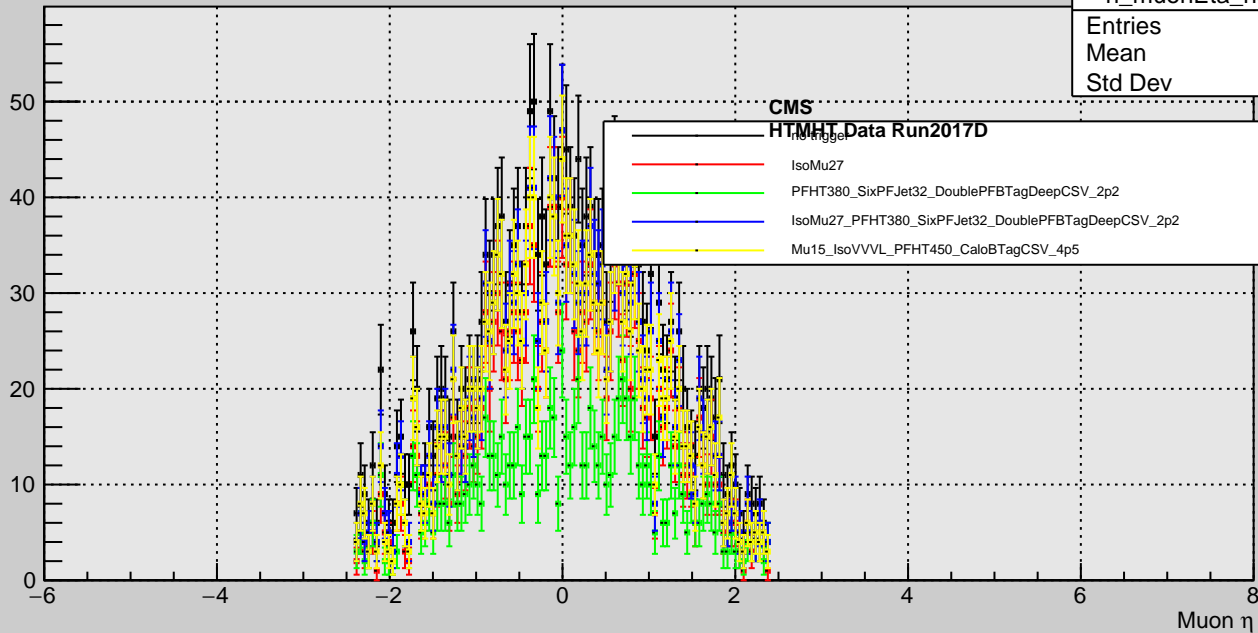


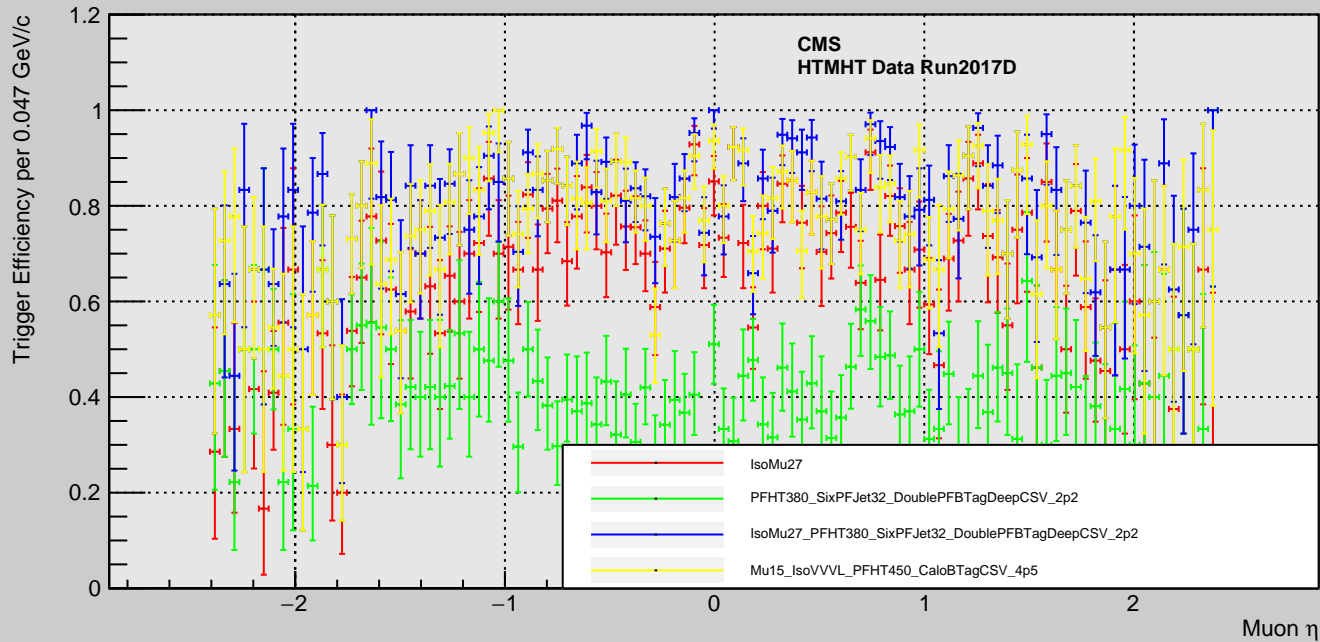
h_jetEta_notrigger

Entries	16769
Mean	-0.008497
Std Dev	1.101

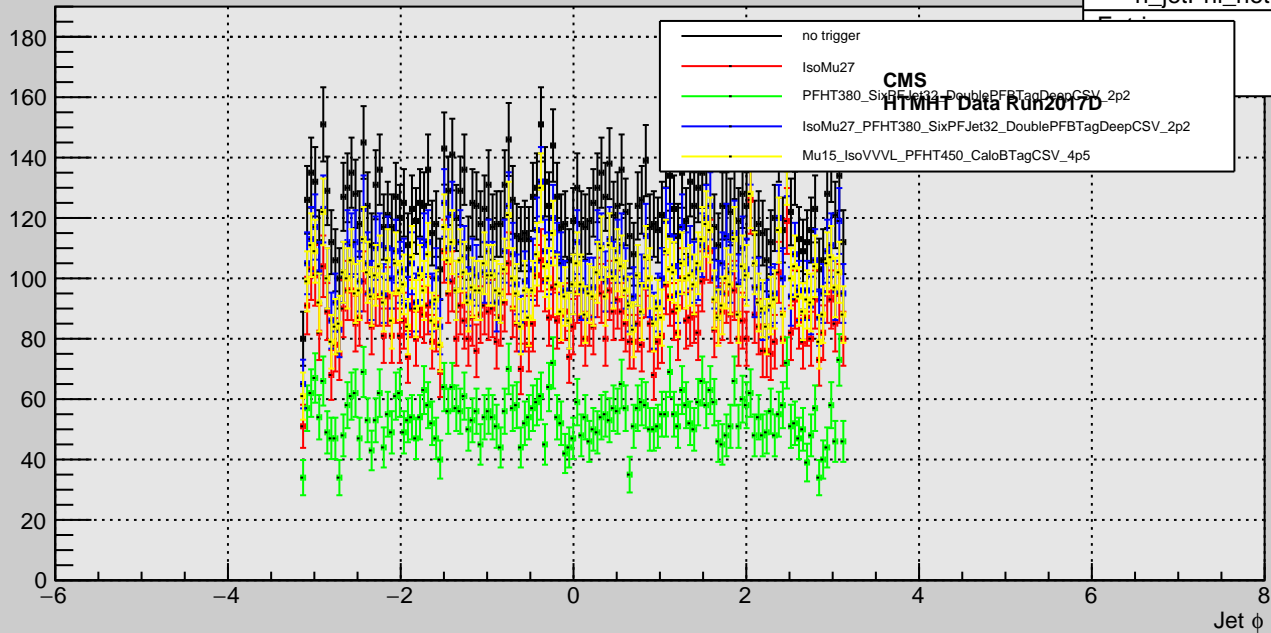
Number of Events per $\delta\eta = 0.046$

h_muonEta_notrigger	
Entries	2441
Mean	0.01139
Std Dev	1.069





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



h_jetPhi_notrigger

16769

0.00417

1.81

