

On-line (pre-)selection Requisites for:

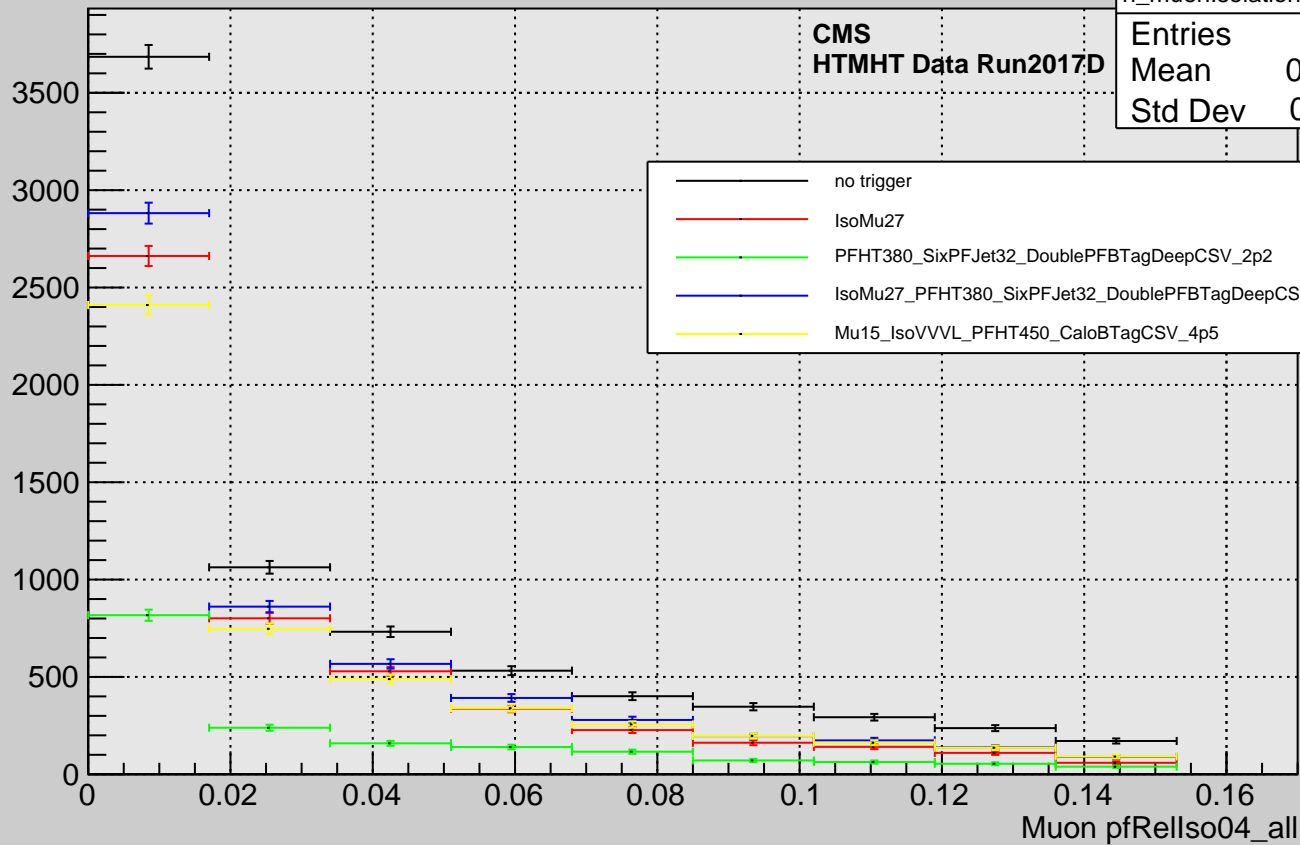
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

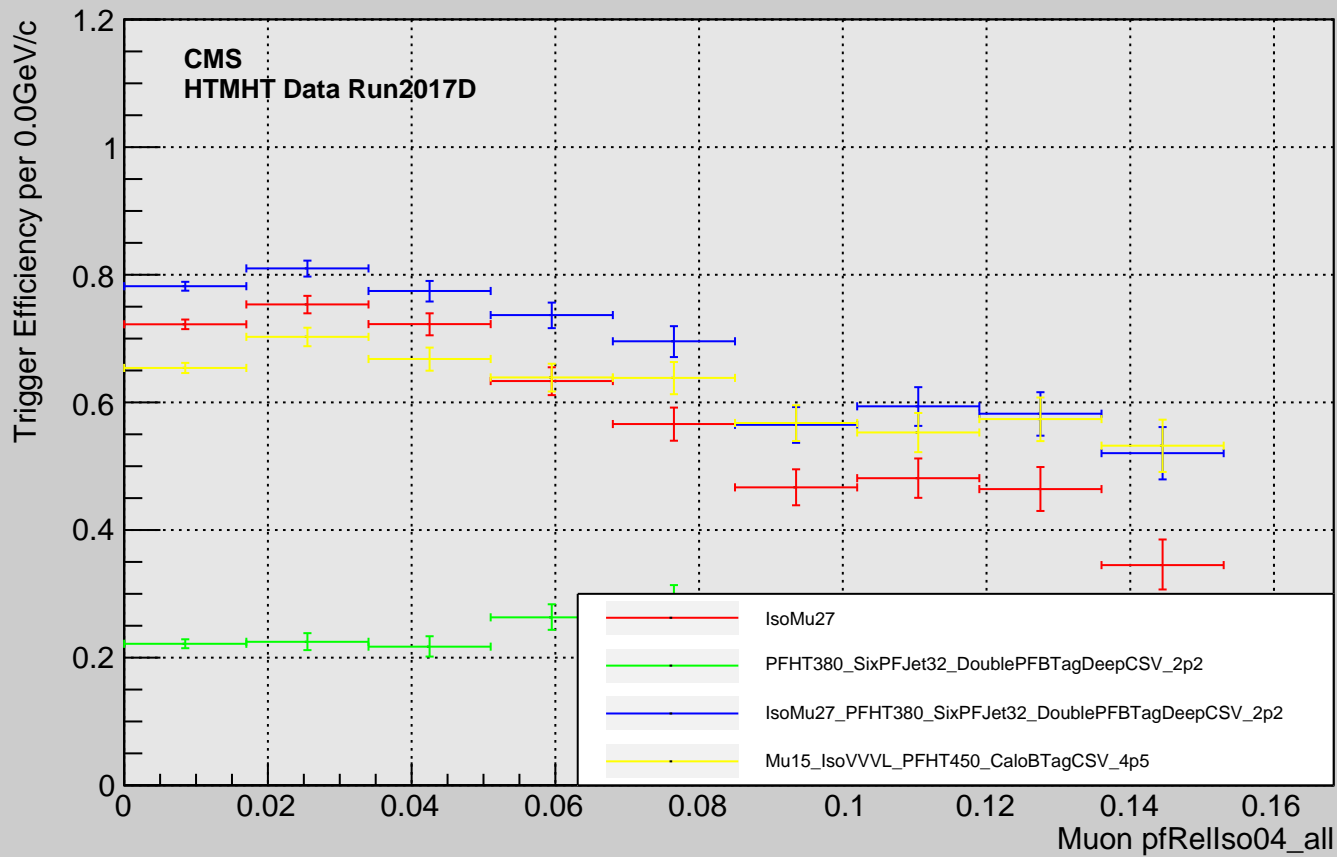
Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

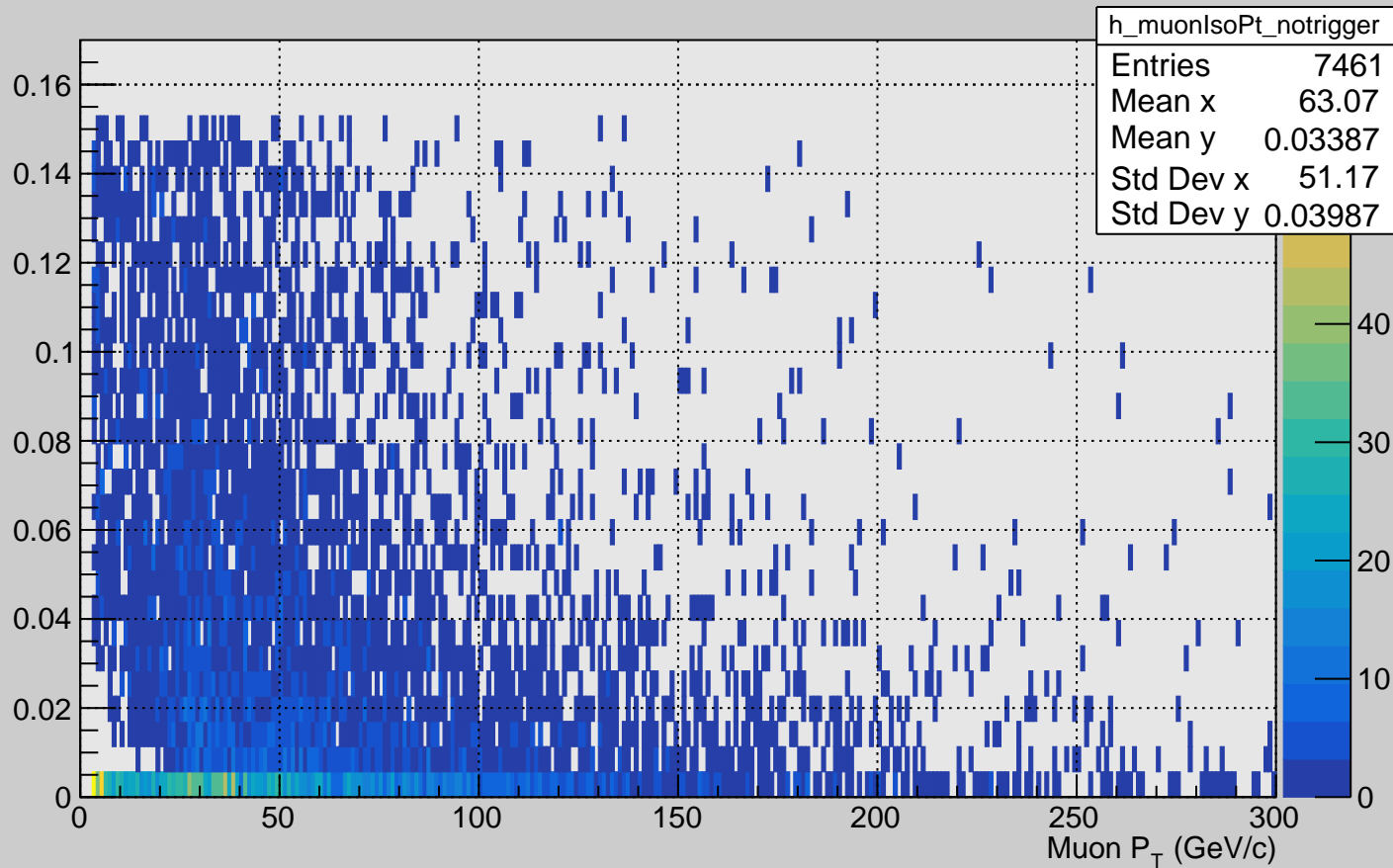
- **Jets:** $\text{jetId} > 2$, $p_T > 30$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.15$ (for at least 1)

Number of Events





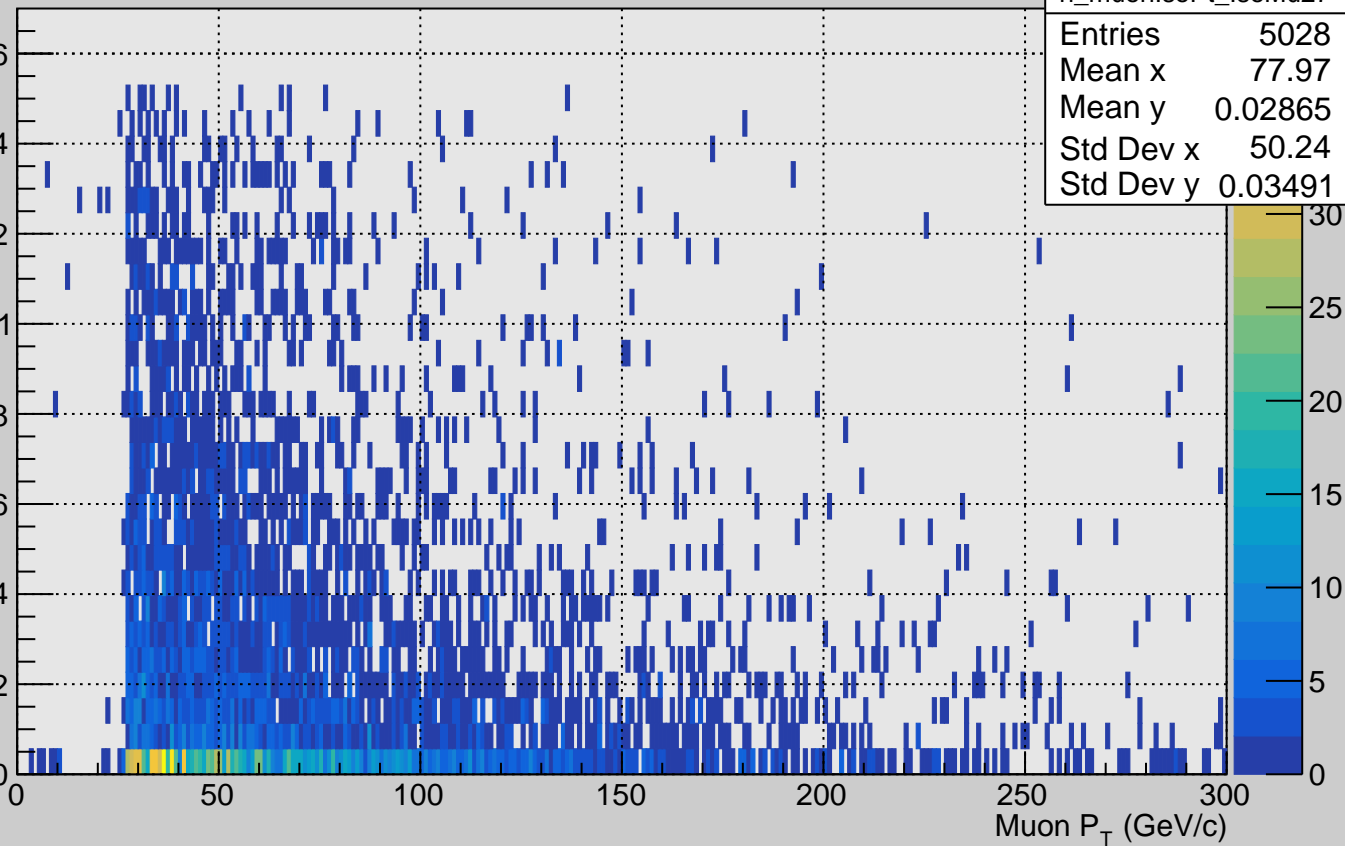
Muon pfRelIso04_all



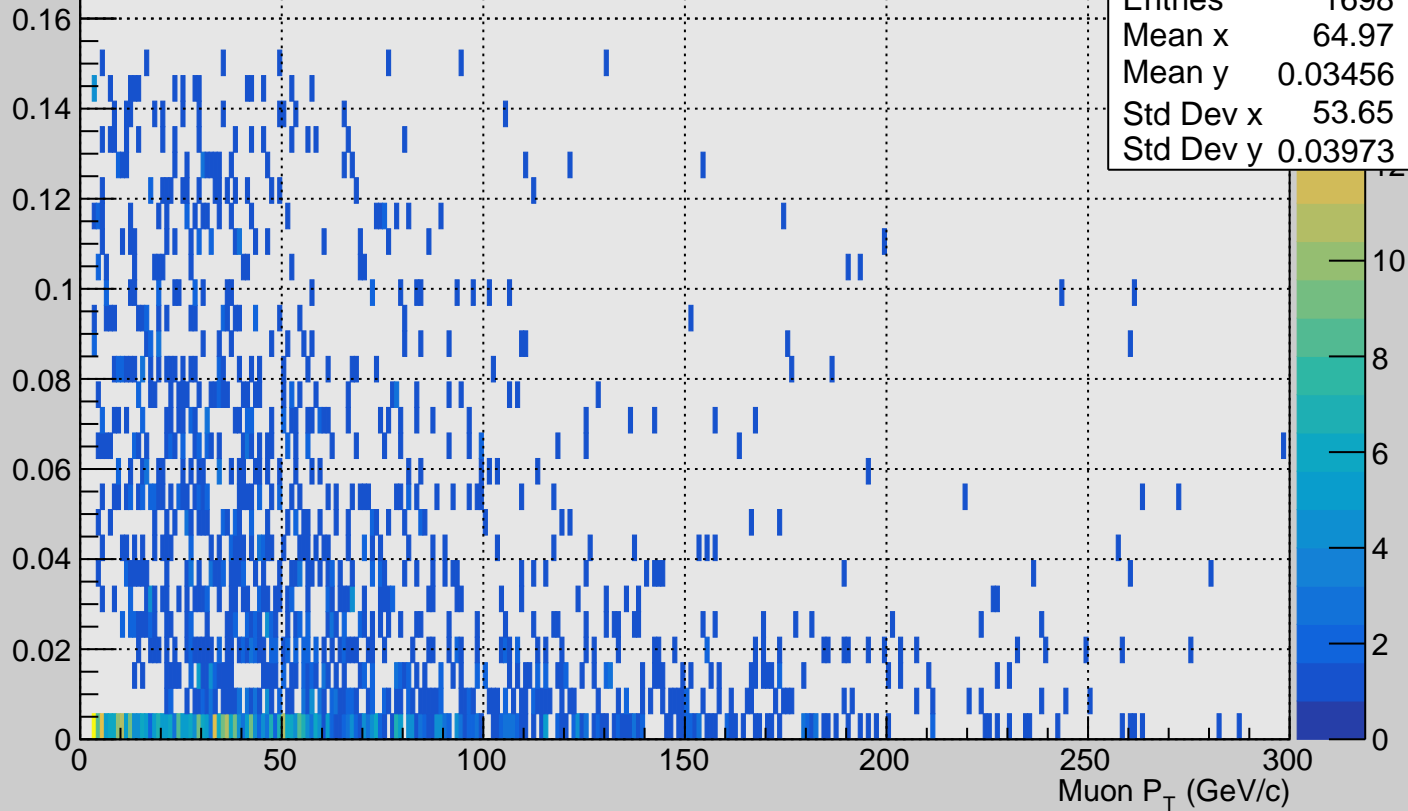
Muon pfRelIso04_all

0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

h_muonIsoPt_IsoMu27	
Entries	5028
Mean x	77.97
Mean y	0.02865
Std Dev x	50.24
Std Dev y	0.03491

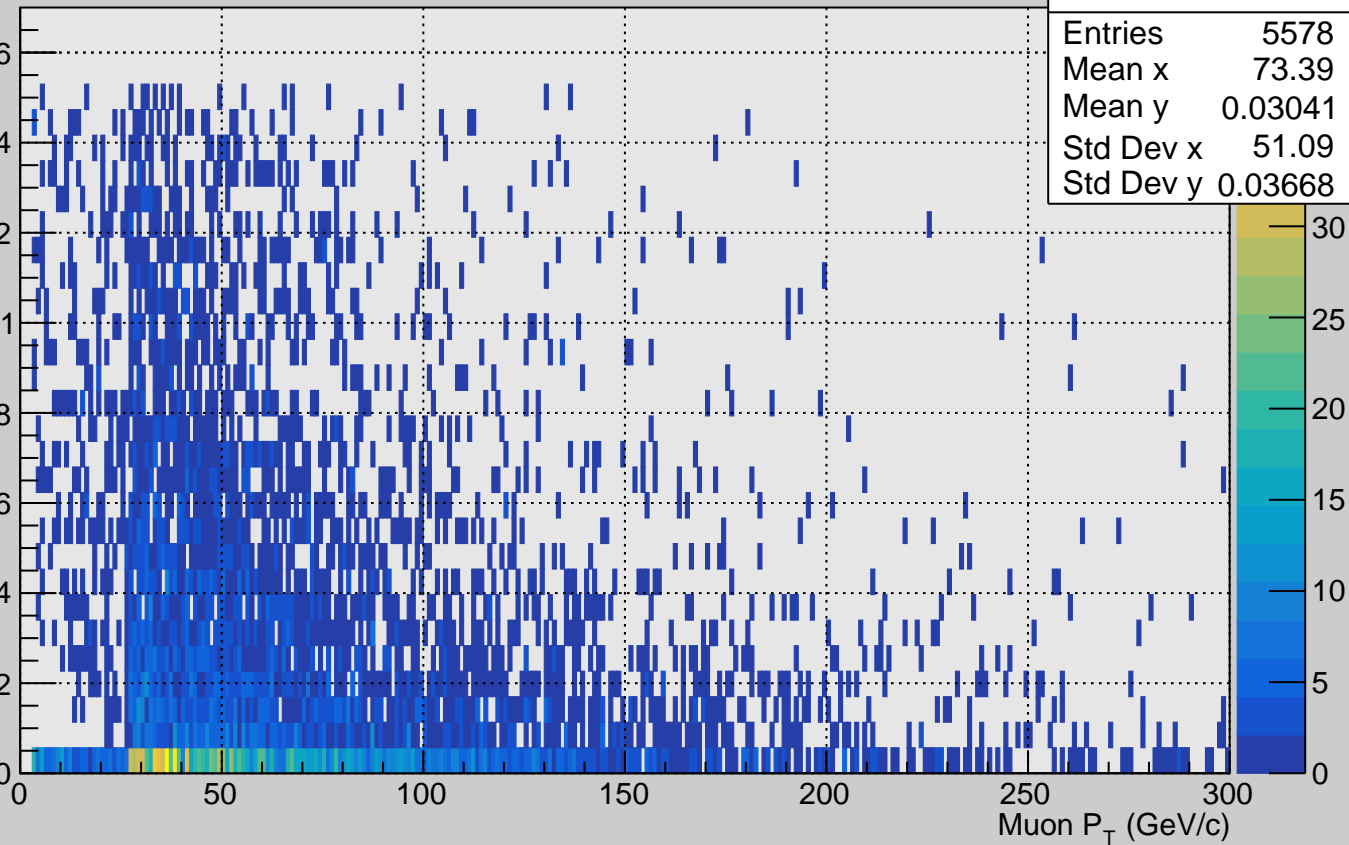


Muon pfRelIso04_all



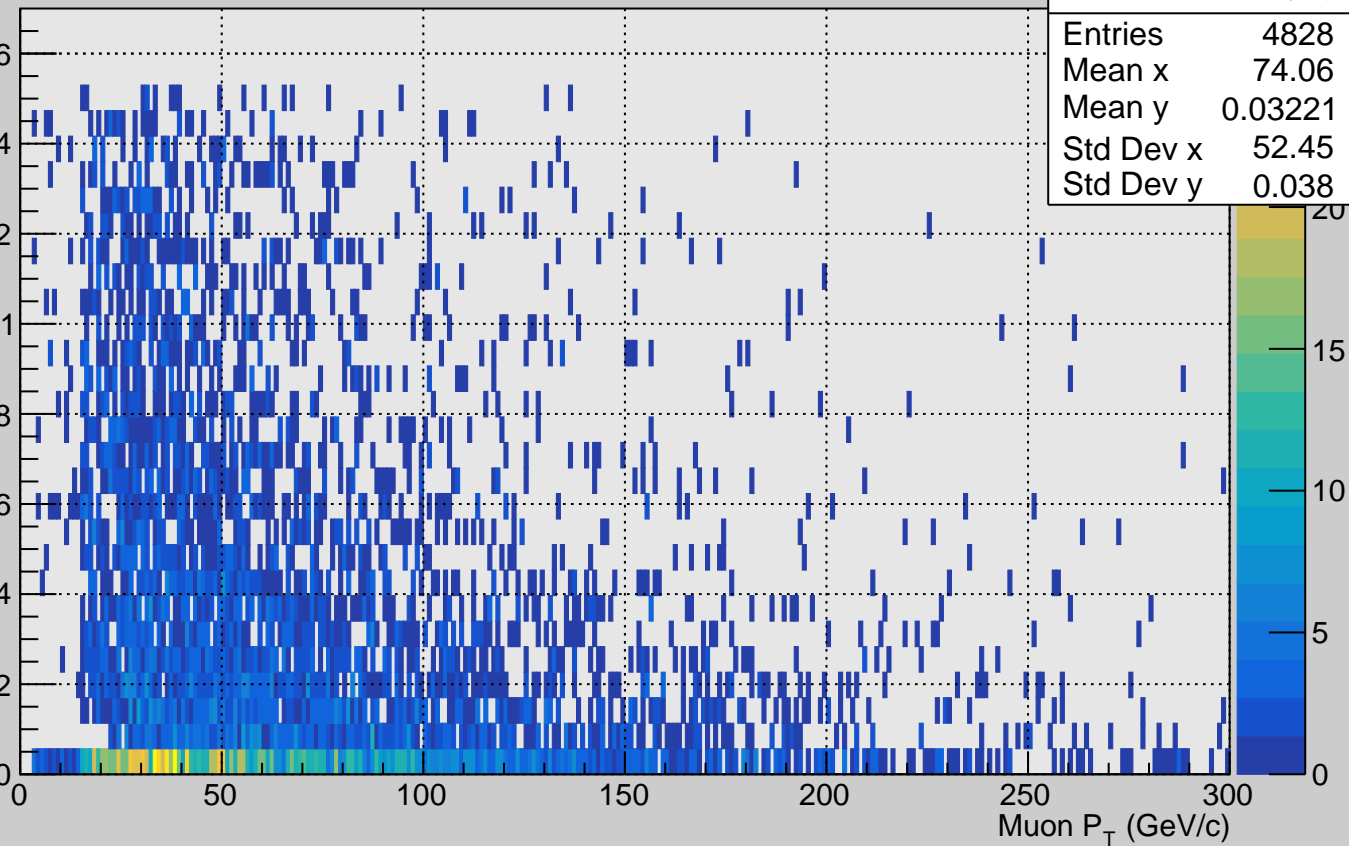
Muon pfRelIso04_all

0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0



Muon pfRelIso04_all

0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0



Number of Events per 10 GeV/c

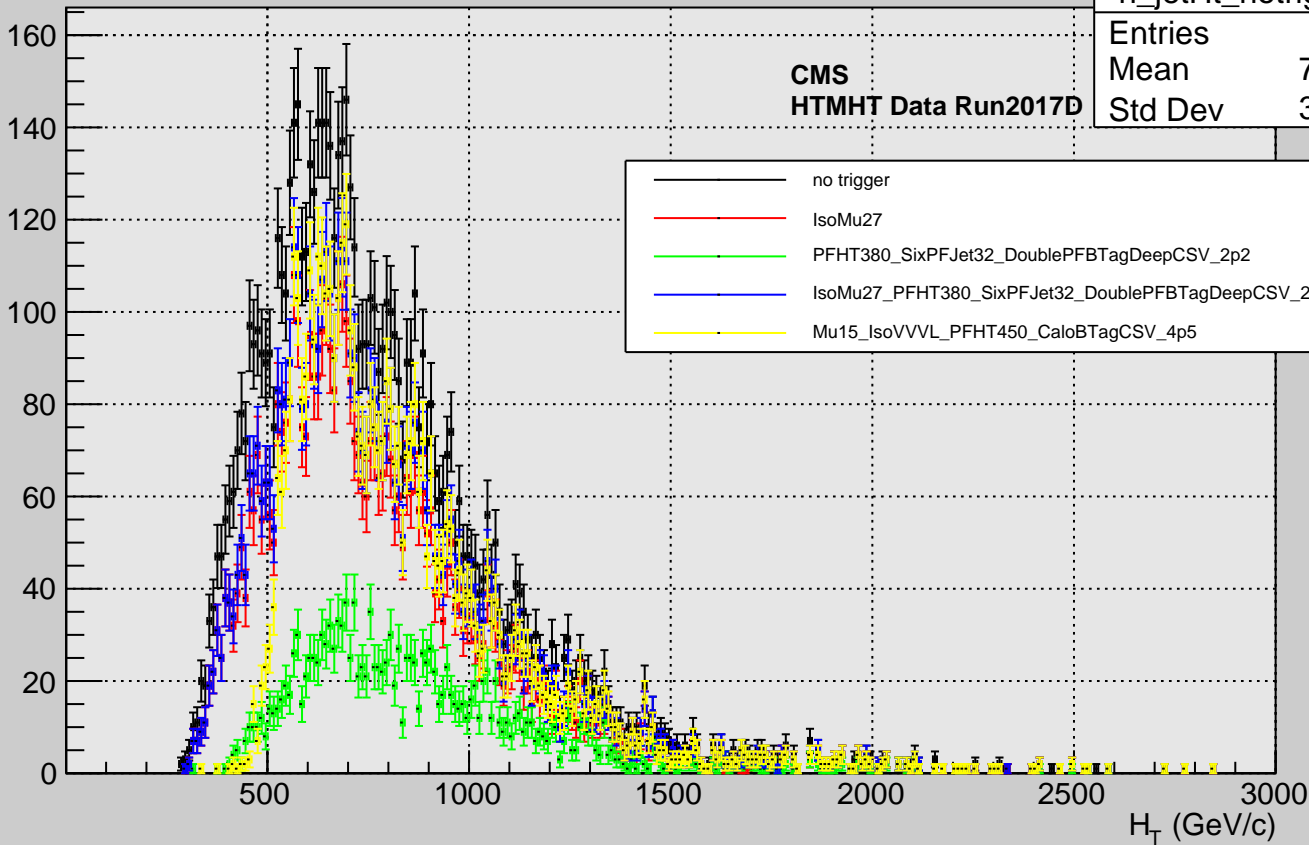
CMS
HTMHT Data Run2017D

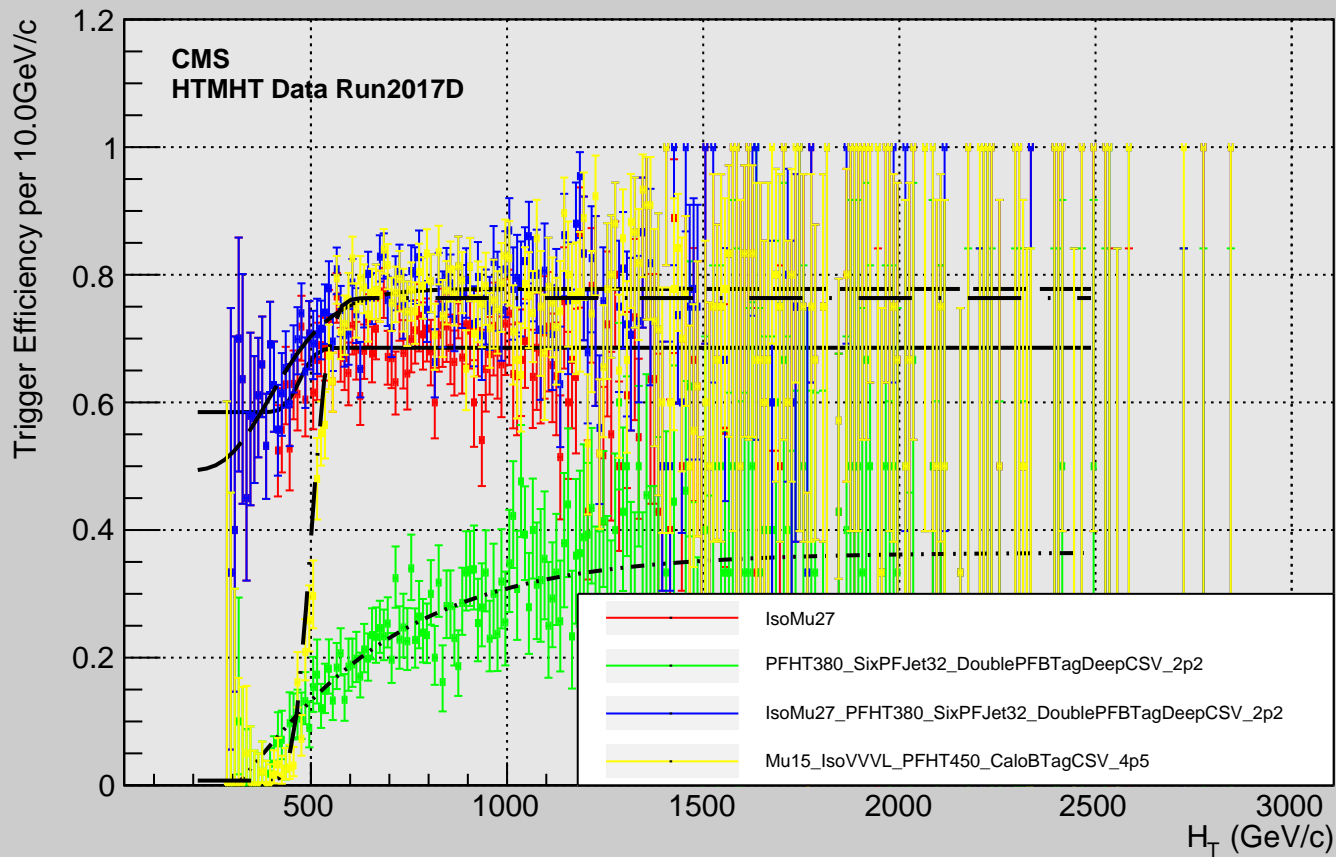
h_jetHt_nottrigger

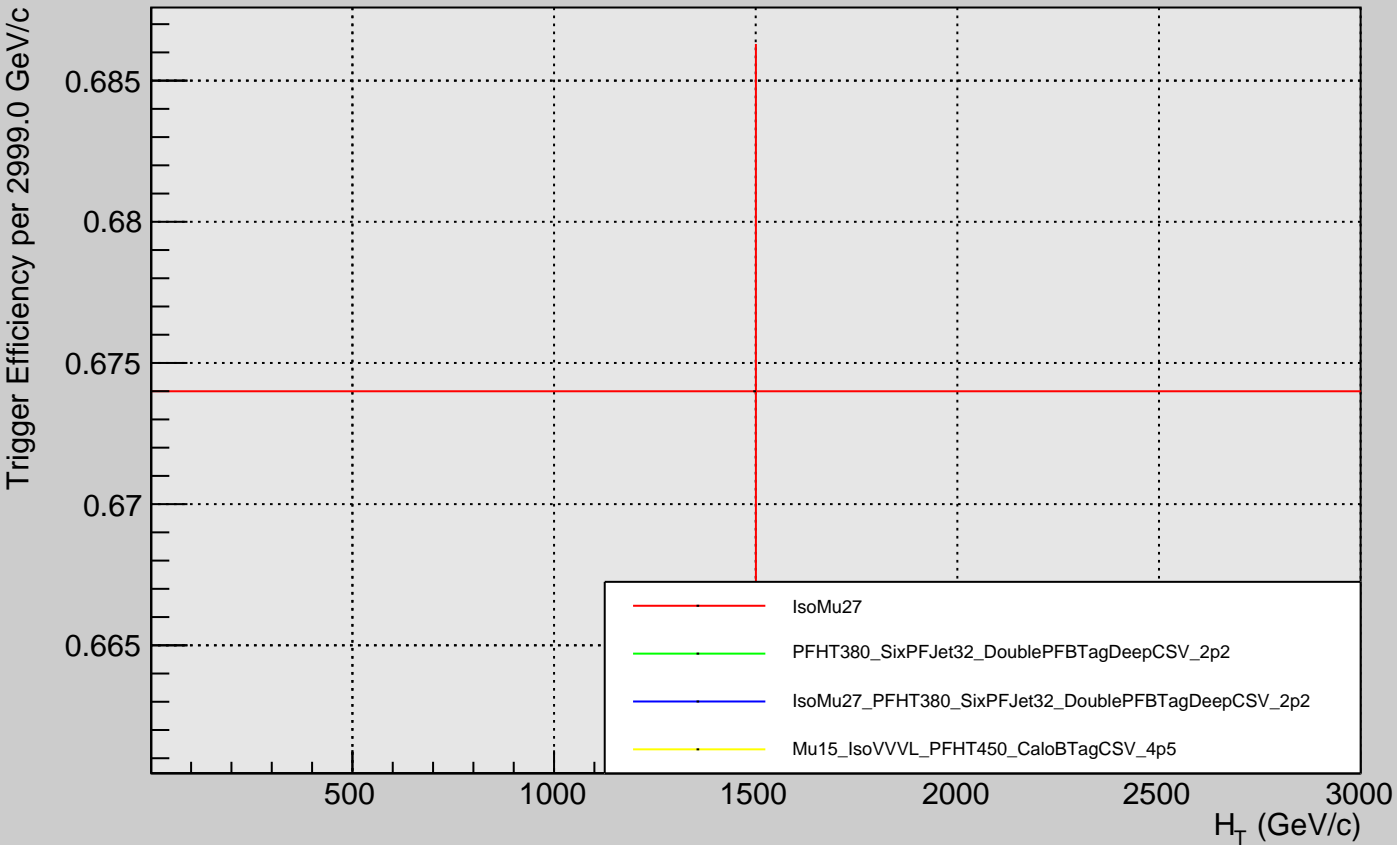
Entries 7461

Mean 783.7

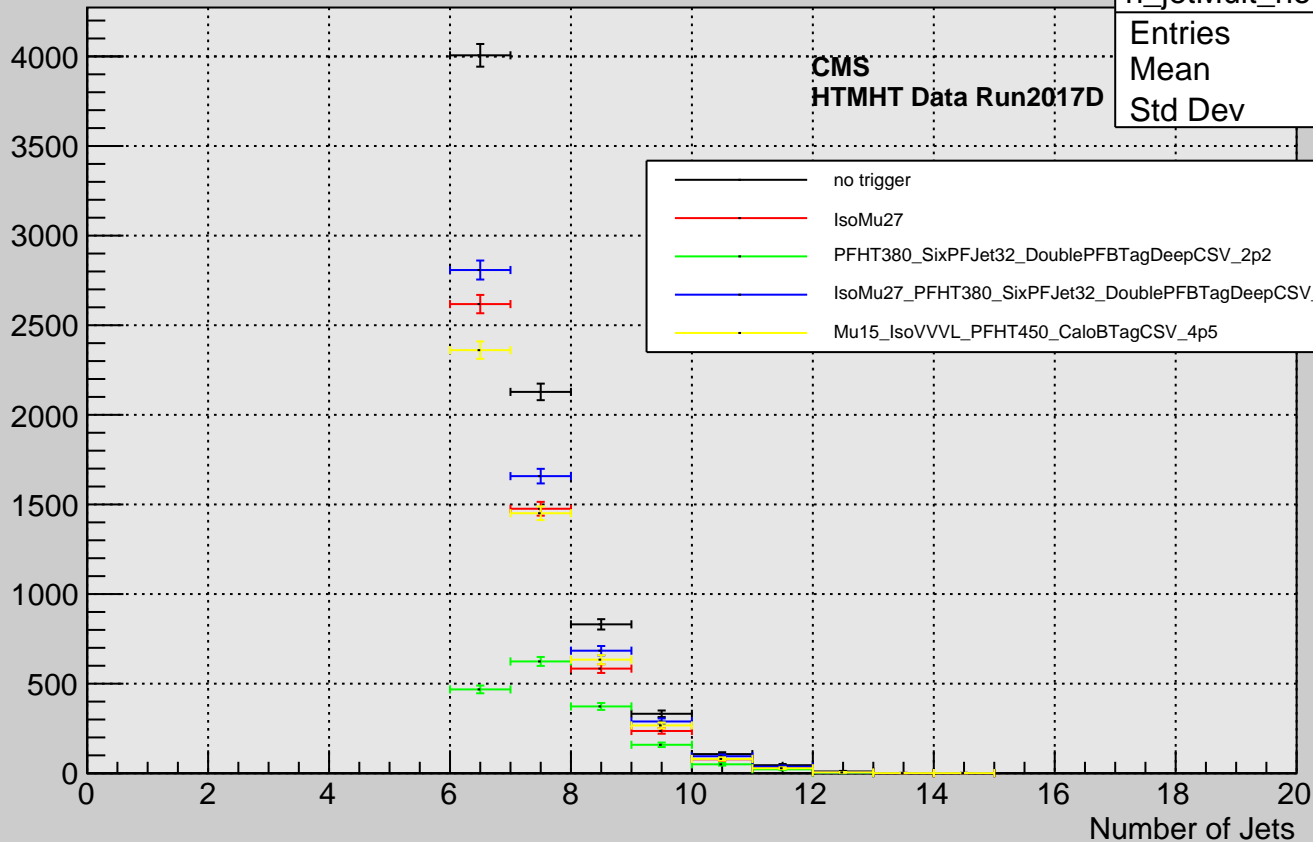
Std Dev 310.7

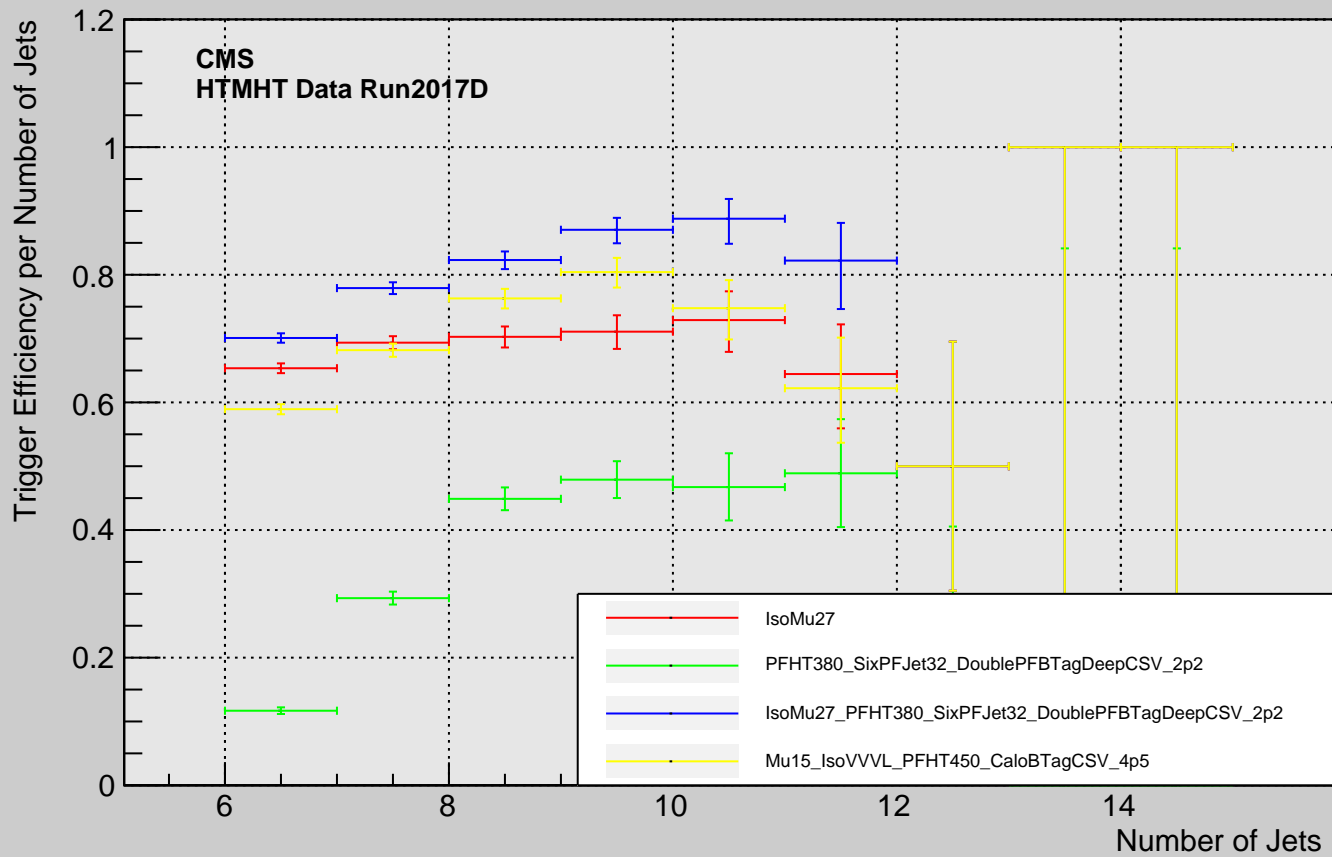




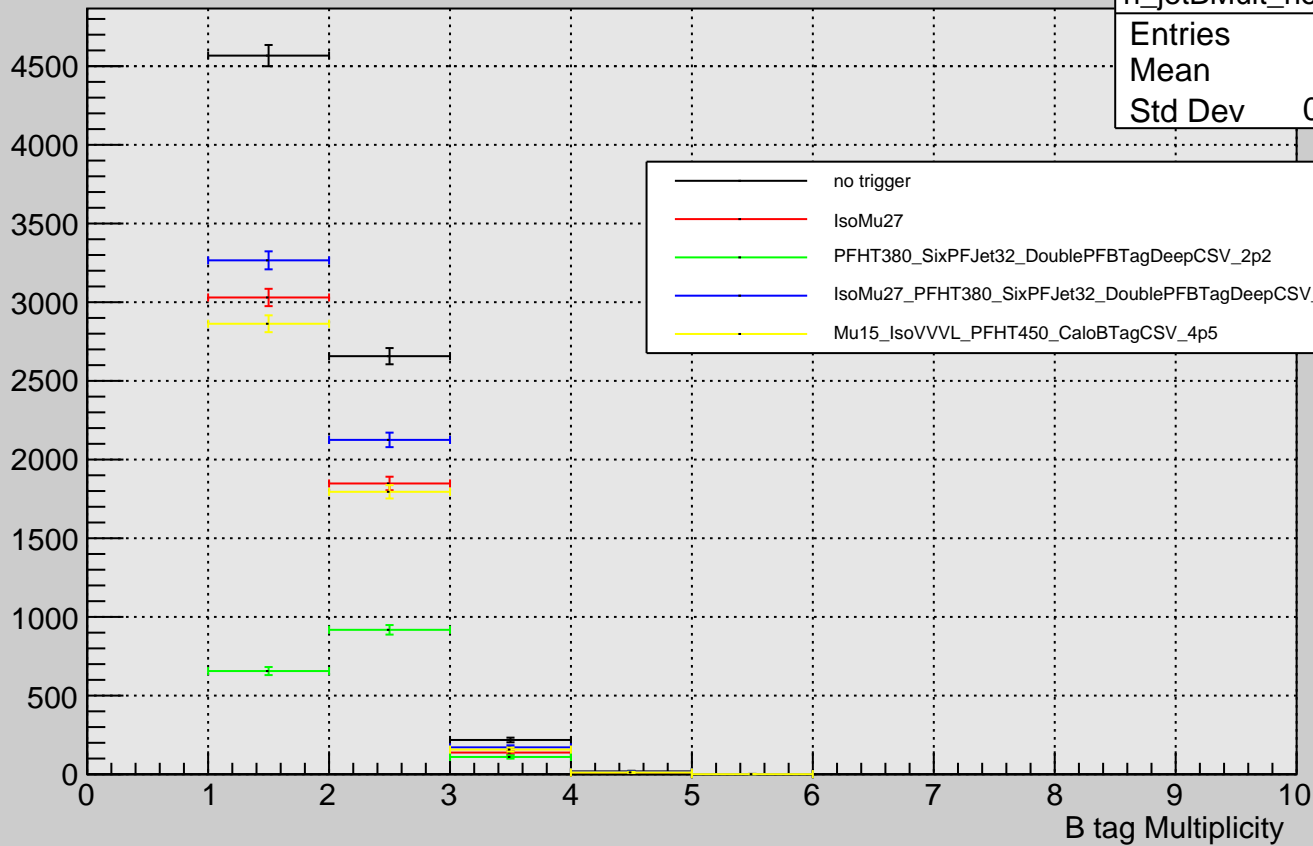


Number of Events per Number of Jets



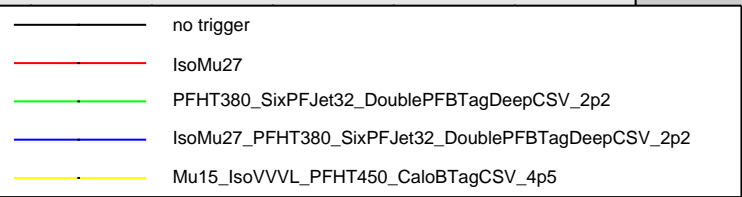


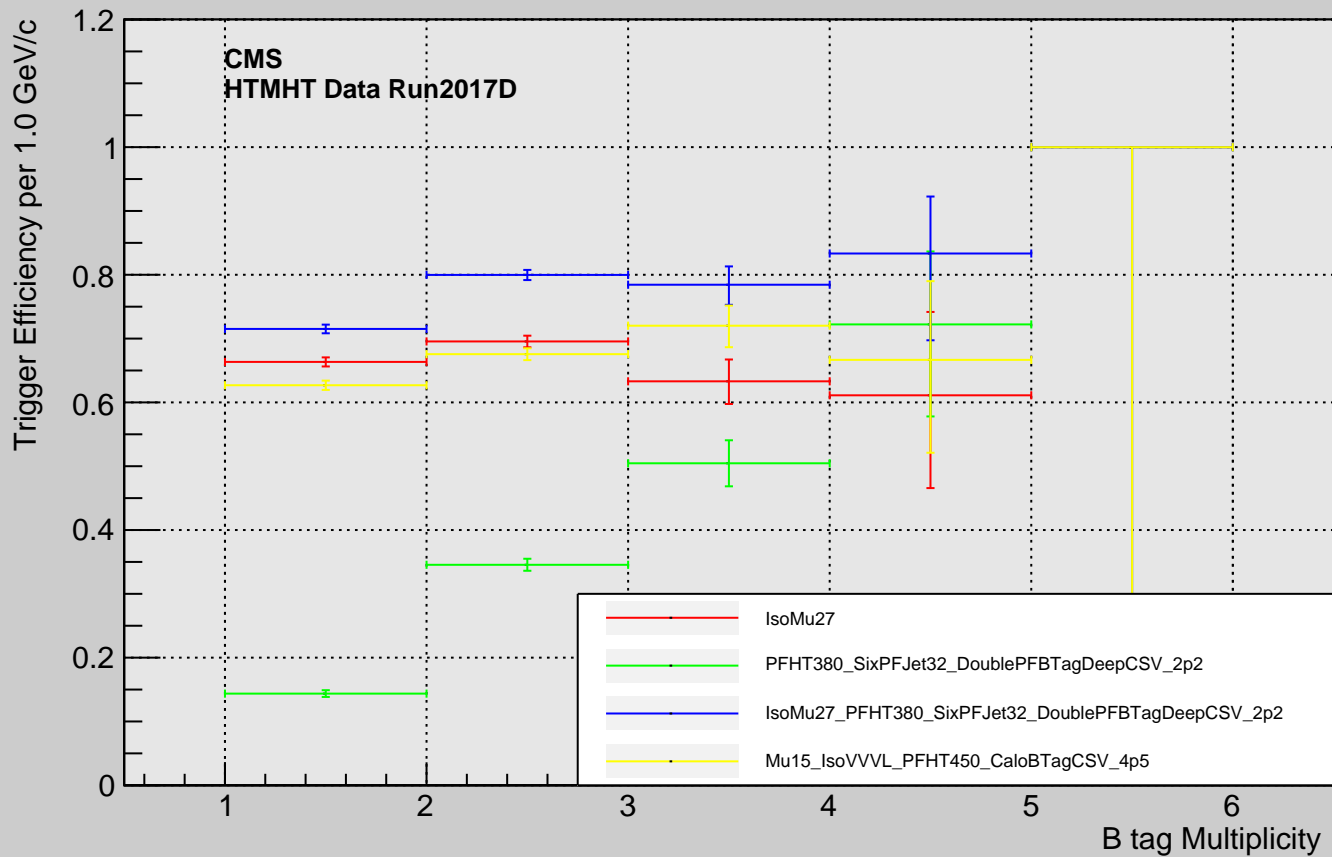
Number of Events per Number of Jets

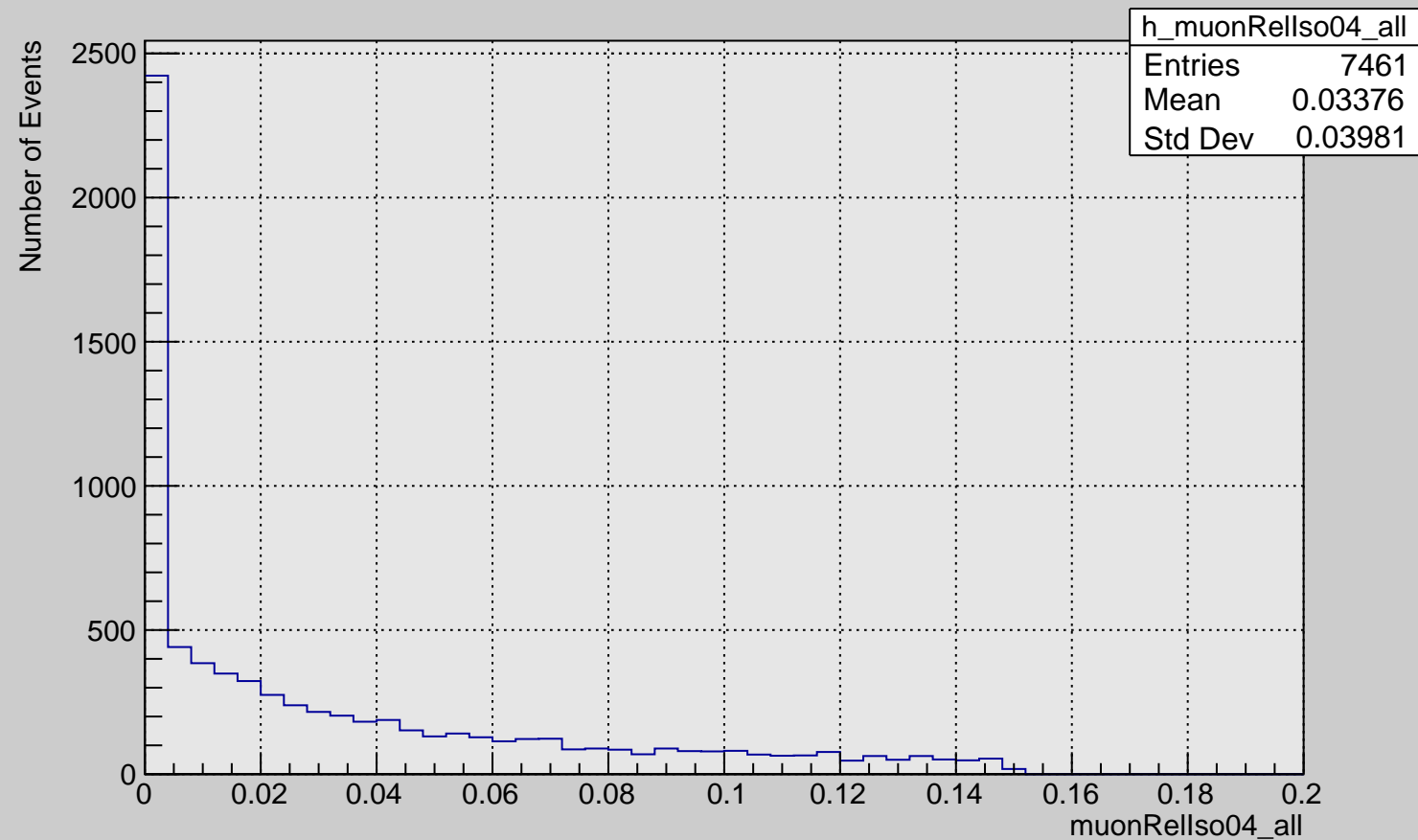


h_jetBMult_notrigger

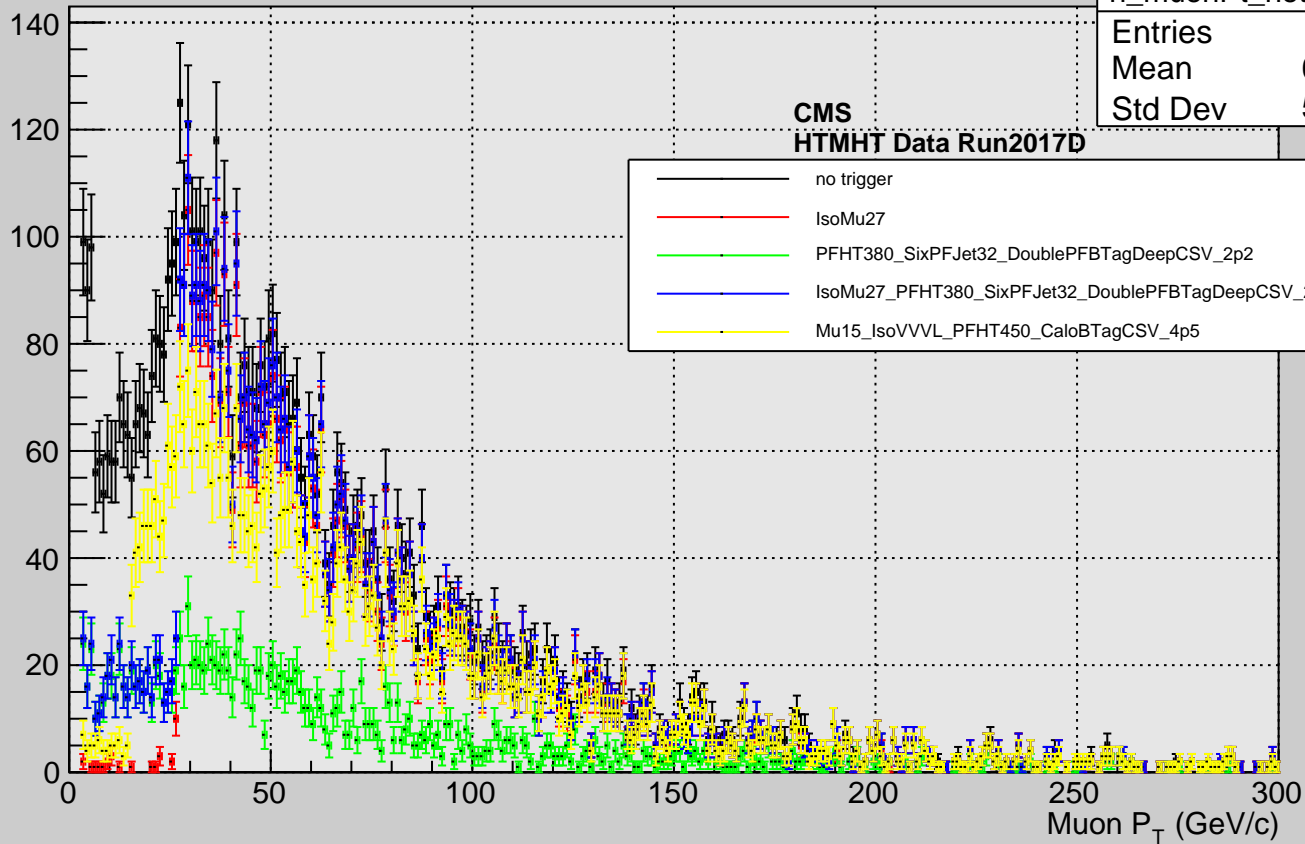
Entries	7461
Mean	1.922
Std Dev	0.5643





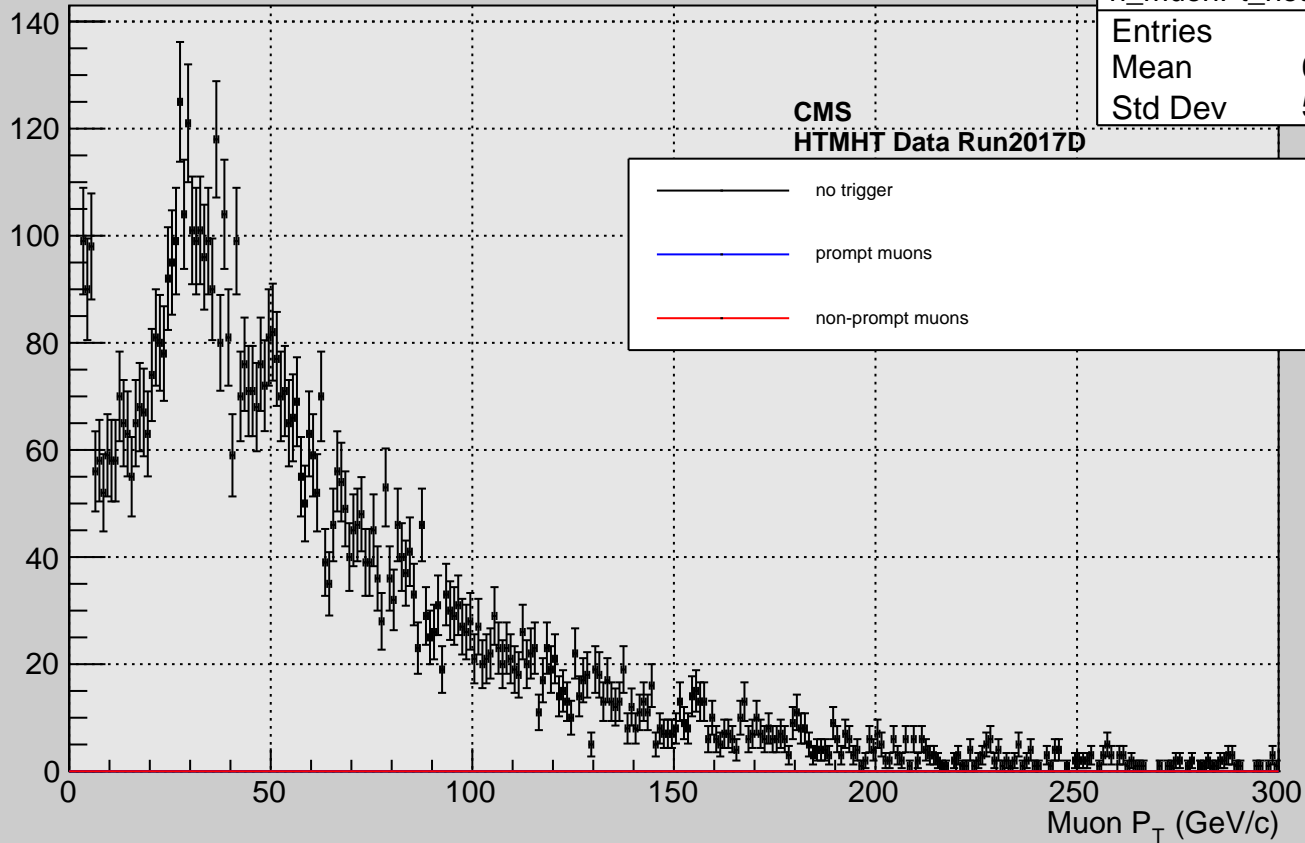


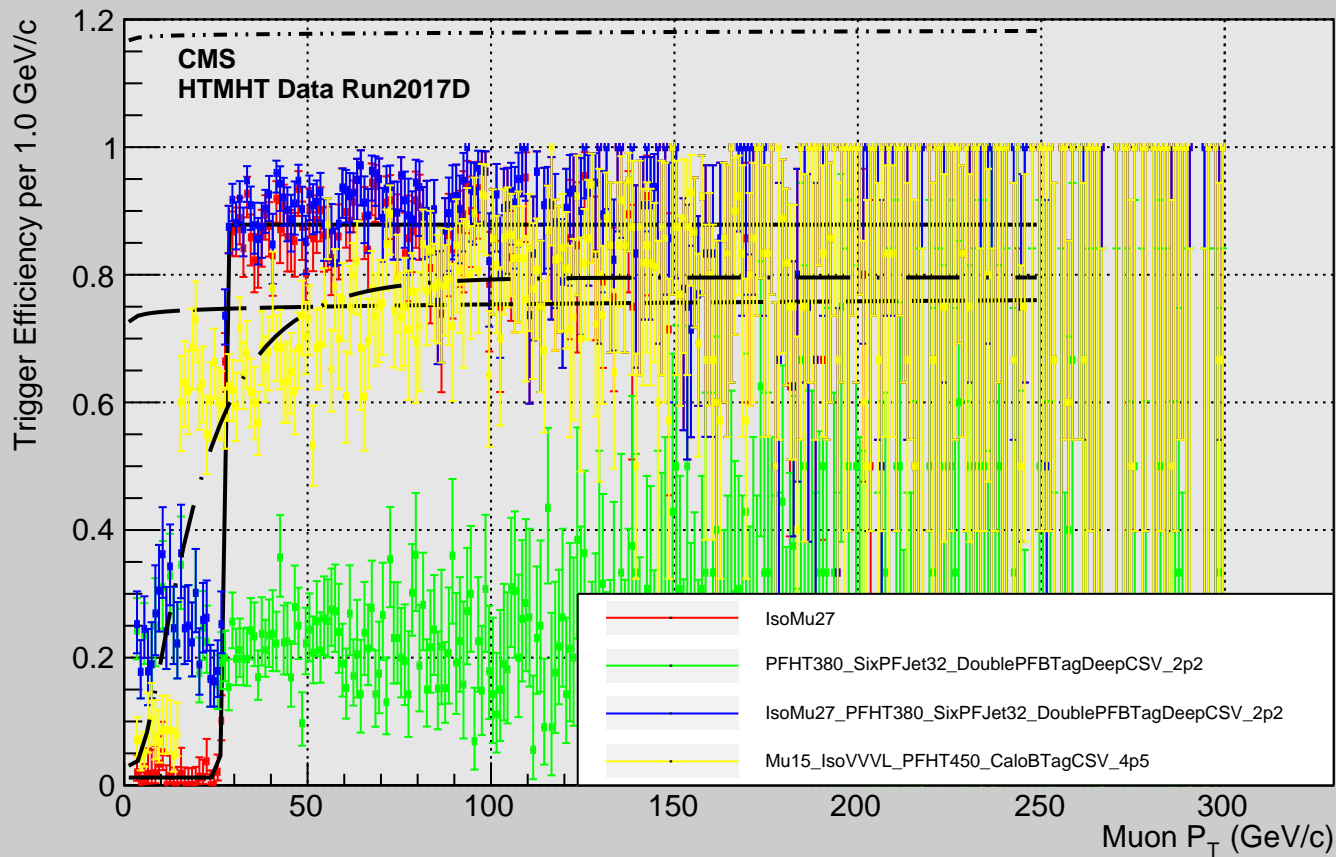
Number of Events per 1 GeV/c



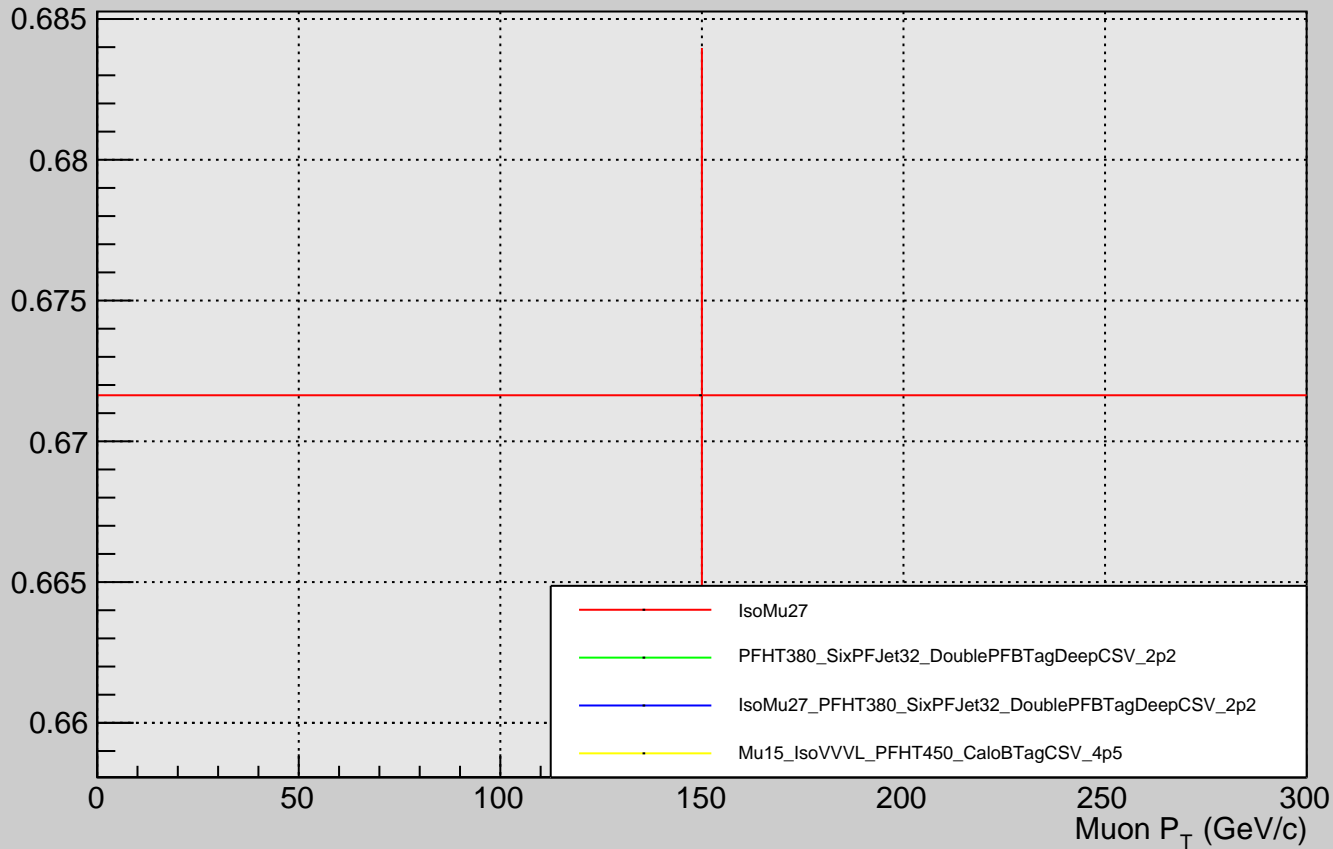
h_muonPt_notrigger	
Entries	7461
Mean	63.07
Std Dev	51.17

Number of Events per 1 GeV/c

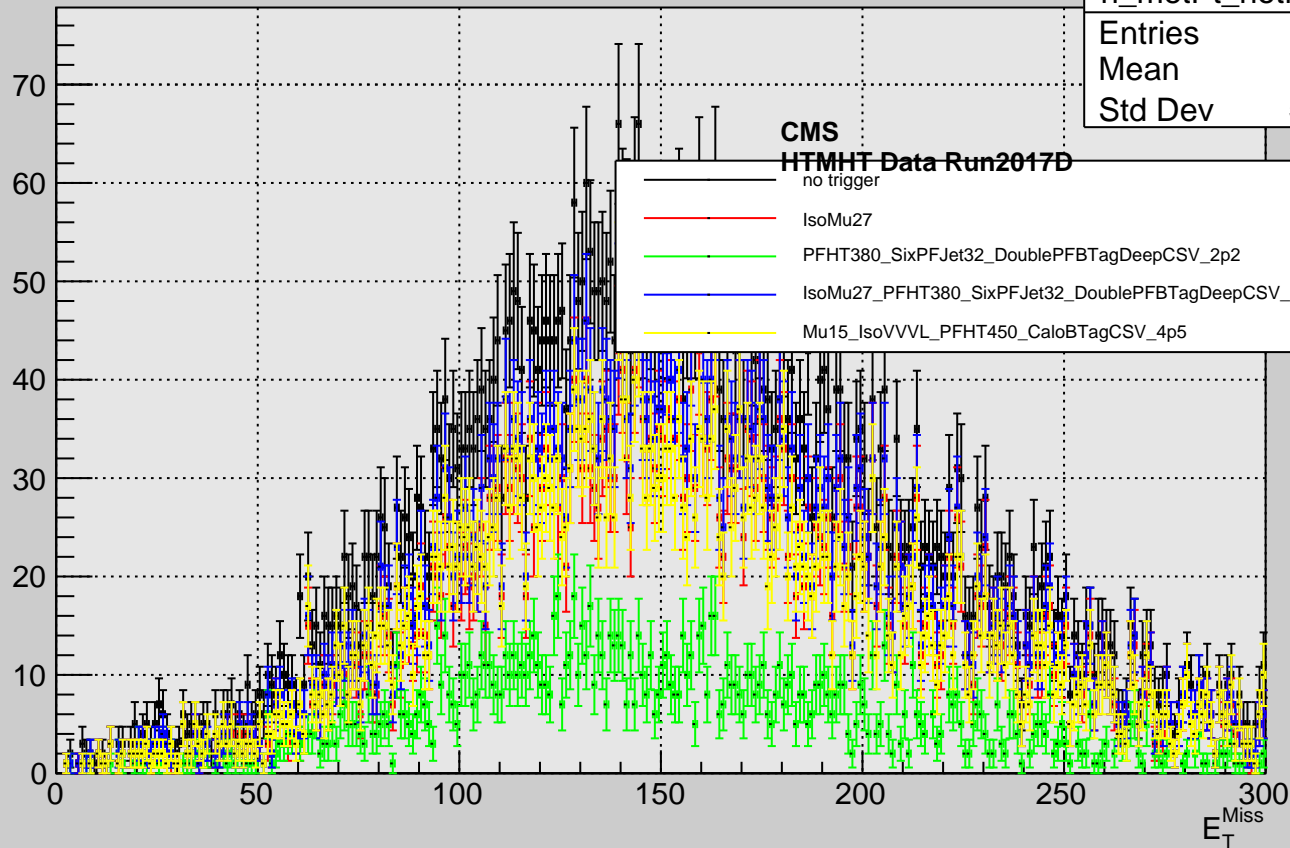




Trigger Efficiency per 300.00 GeV/c



Number of Events per 1 GeV/c

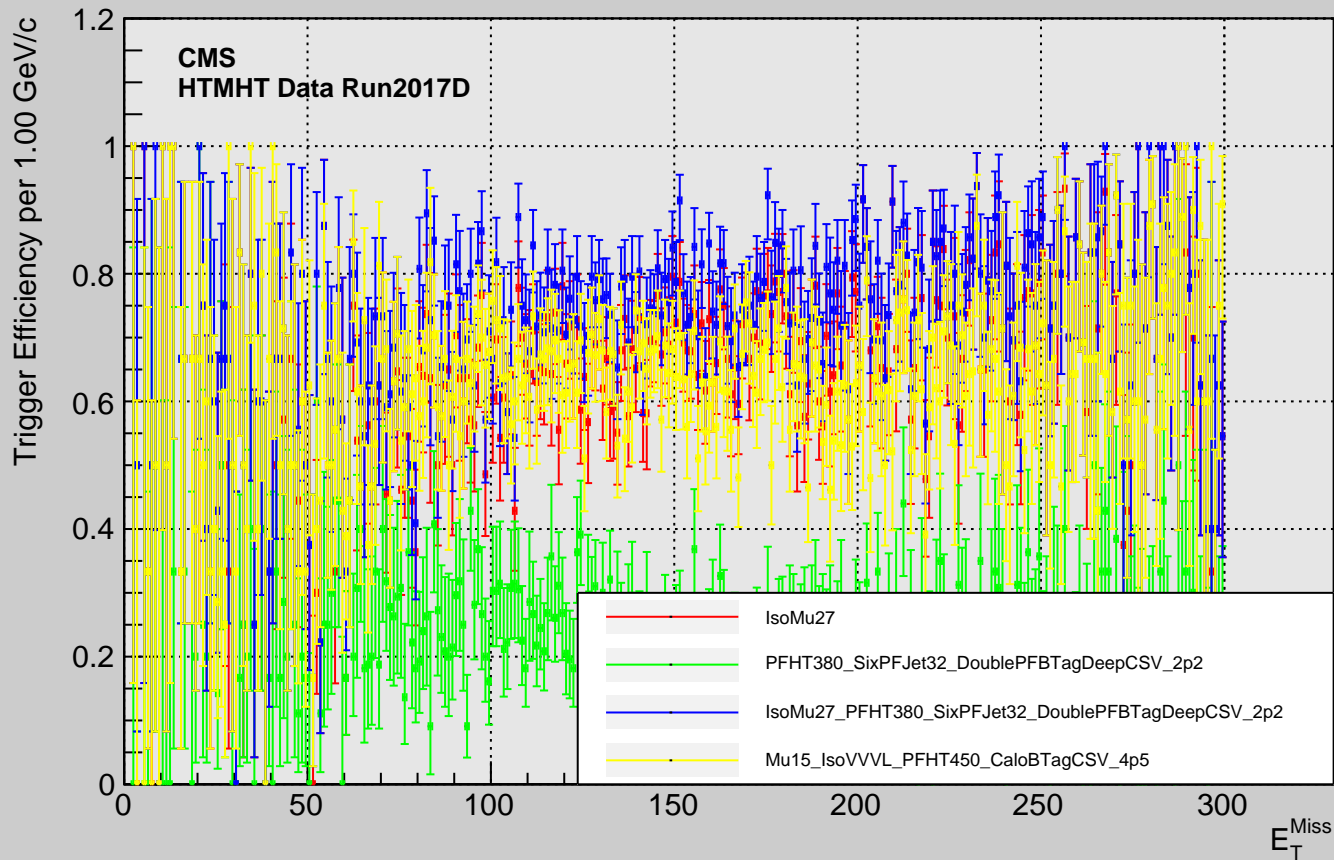


h_metPt_notrigger

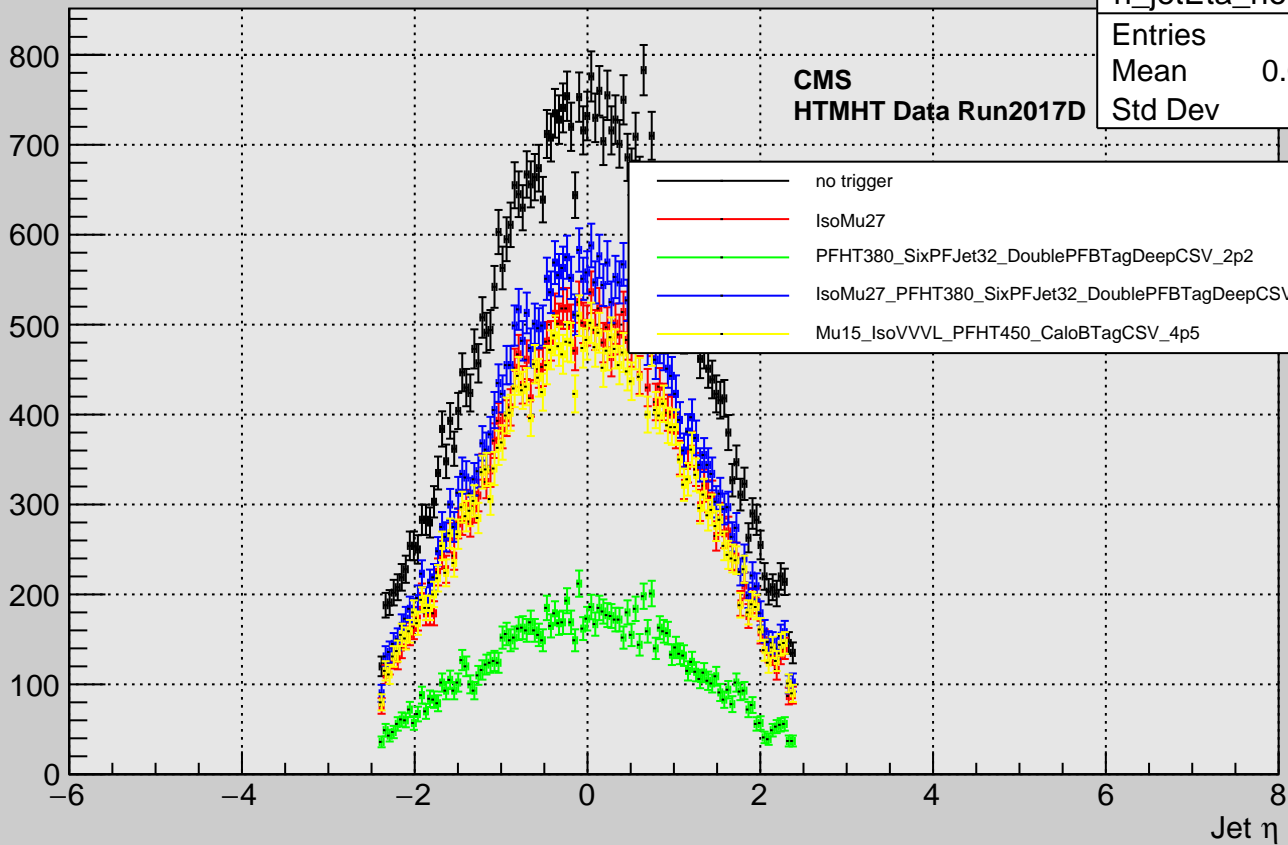
Entries 7461

Mean 156.2

Std Dev 57.25



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



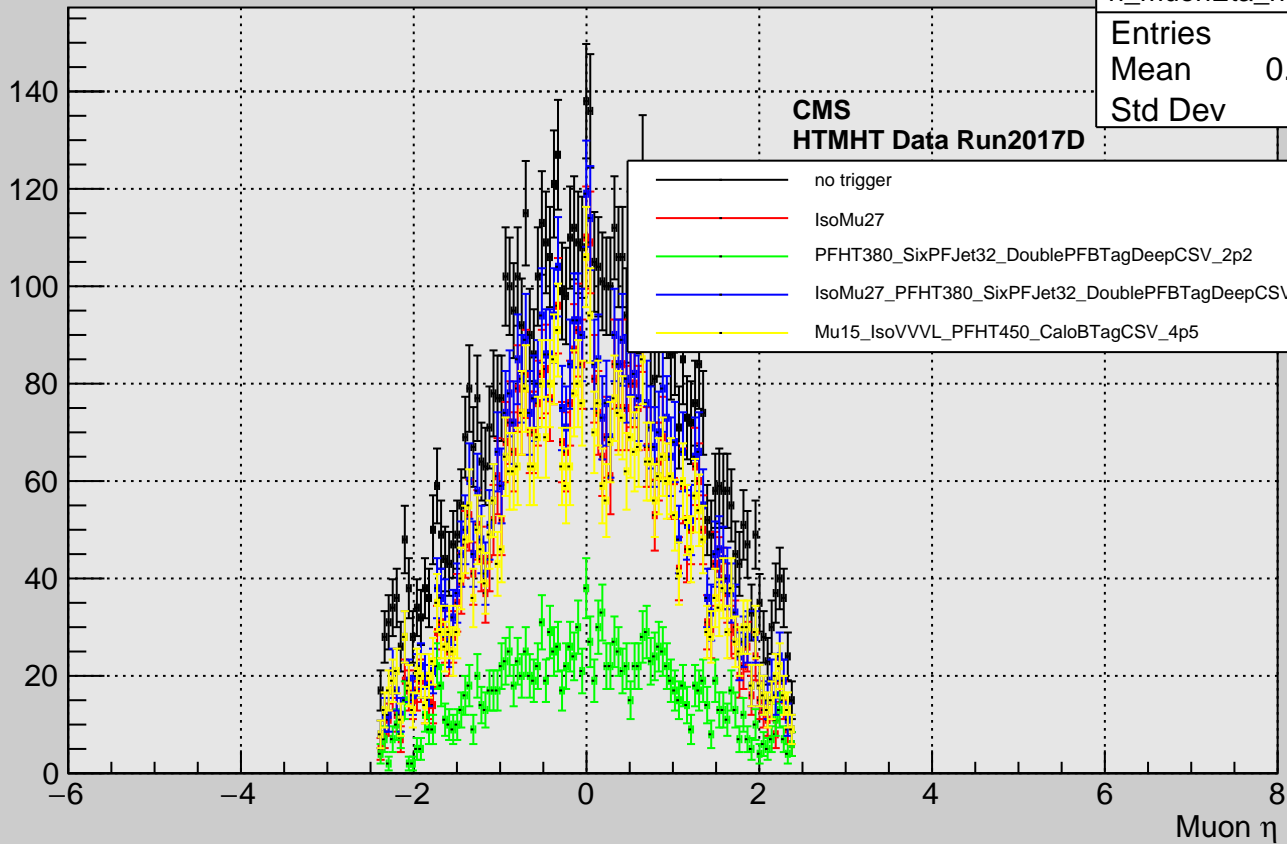
h_jetEta_notrigger

Entries 50280

Mean 0.003121

Std Dev 1.121

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

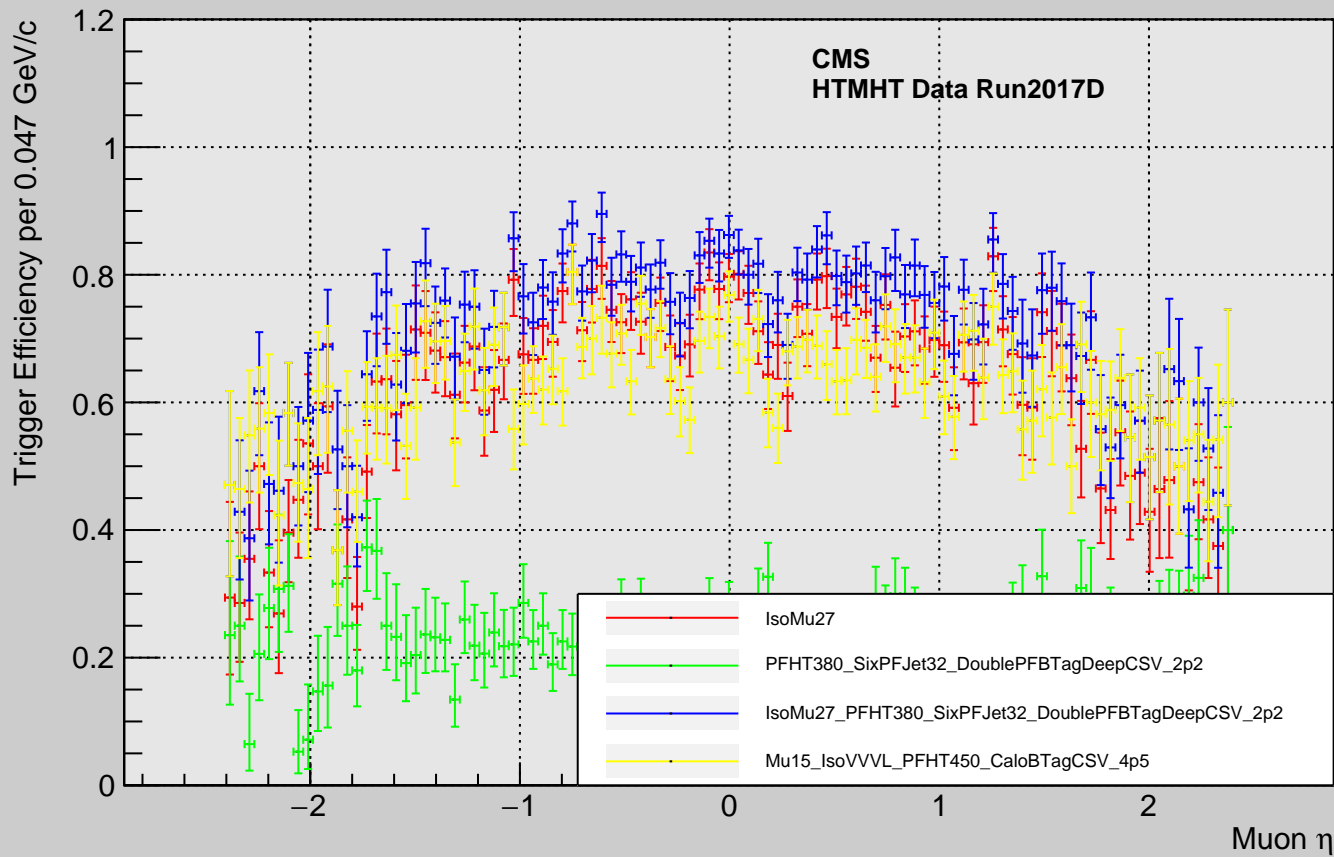


h_muonEta_notrigger

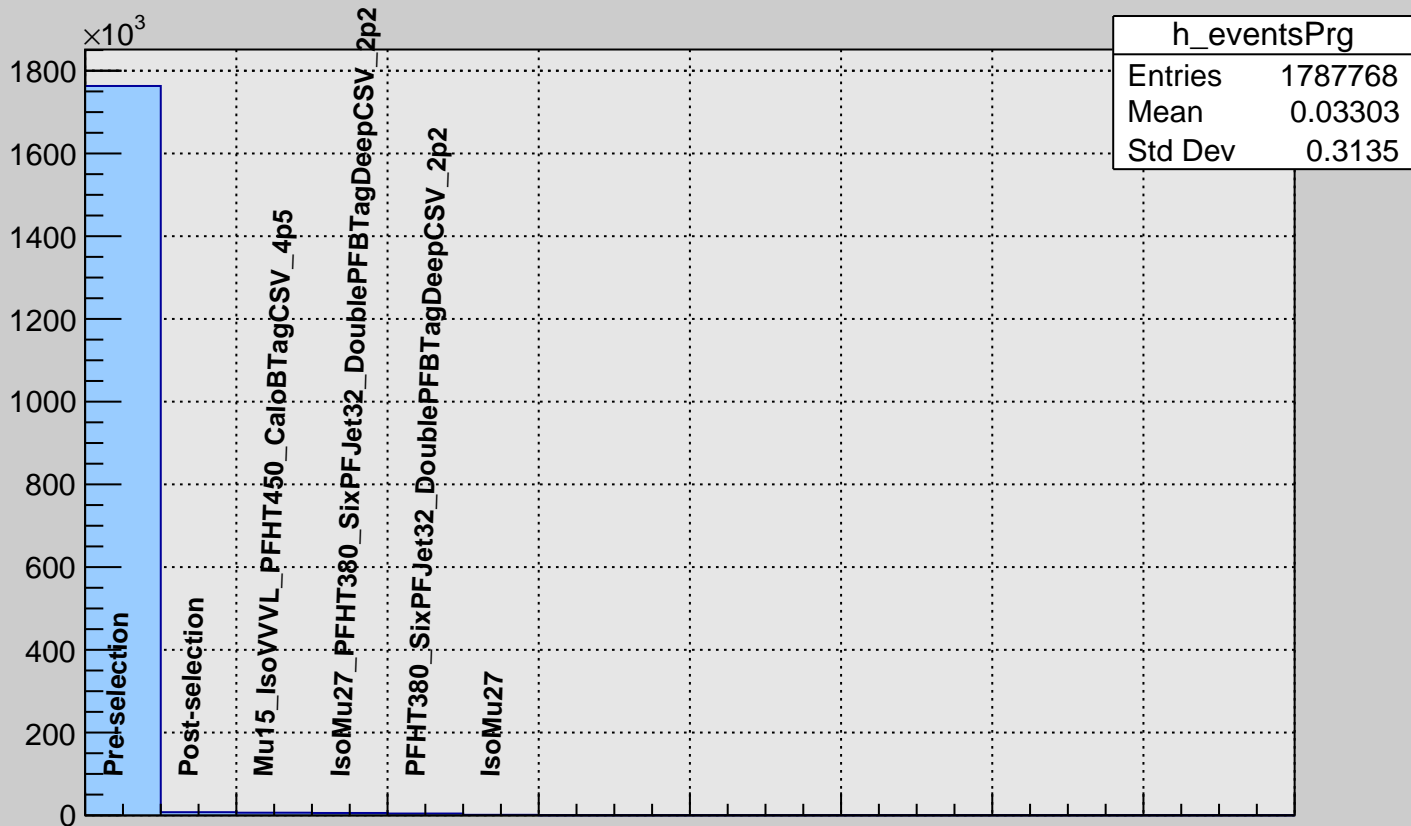
Entries 7461

Mean 0.00838

Std Dev 1.114



Total Number of Accepted Events



Cuts and Triggers

h_eventsPrg

Entries 1787768

Mean 0.03303

Std Dev 0.3135