

On-line (pre-)selection Requisites for:

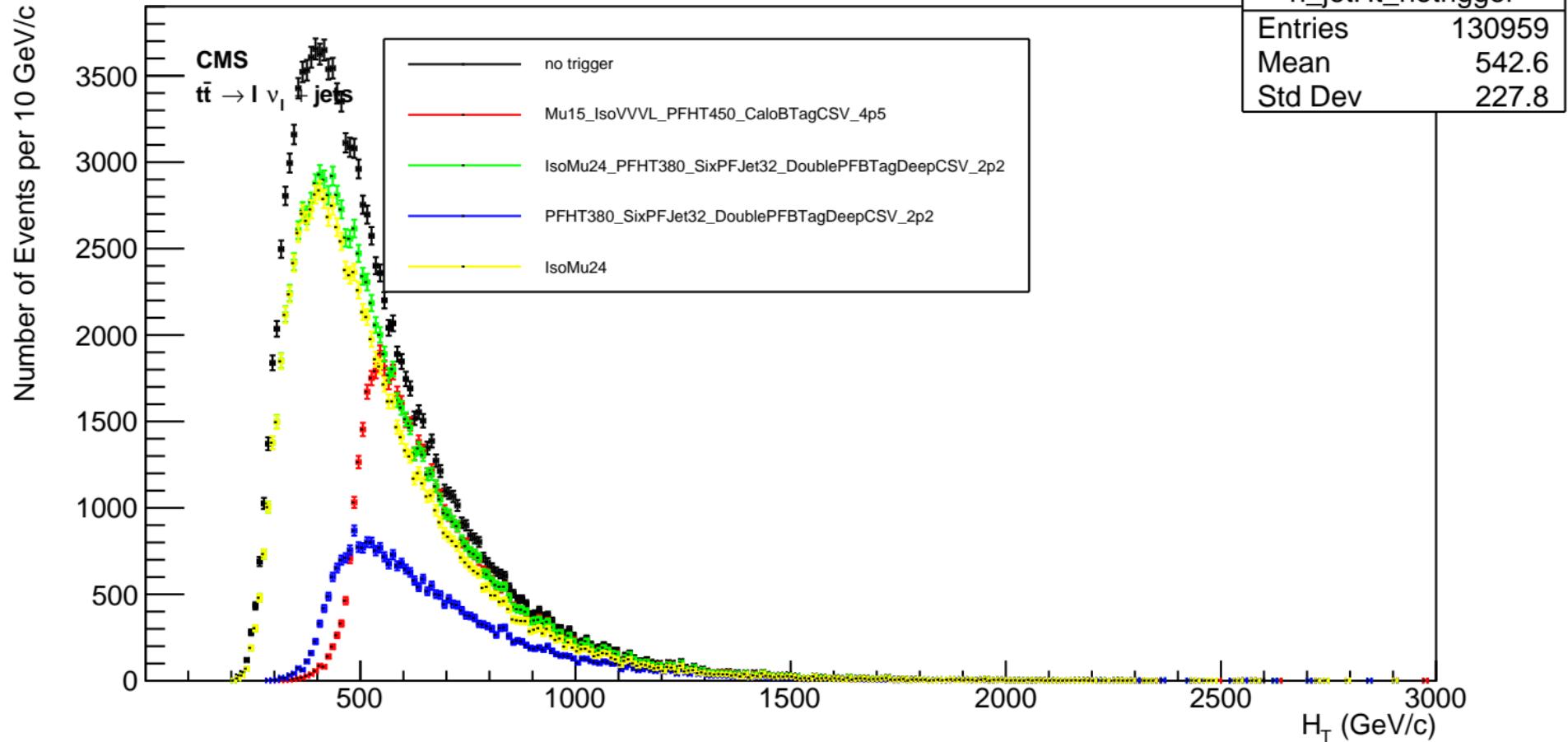
- **Jets:** number > 5 , jetId > 2 and $|\eta| < 2.4$
- **Muons:** number >0 and has softId

Event Limit: None (see last page)

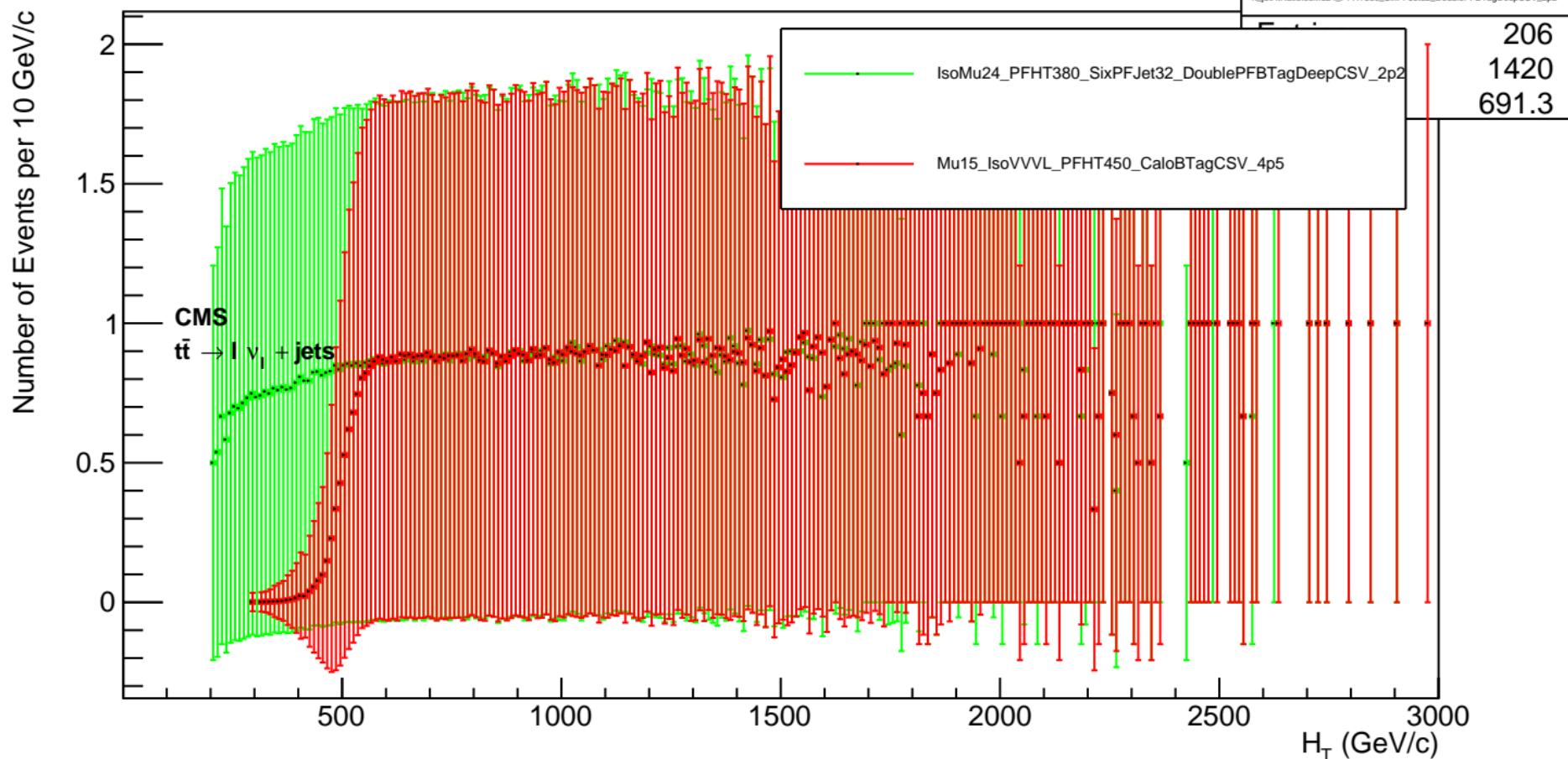
Off-line (post-)selection Requisites for:

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

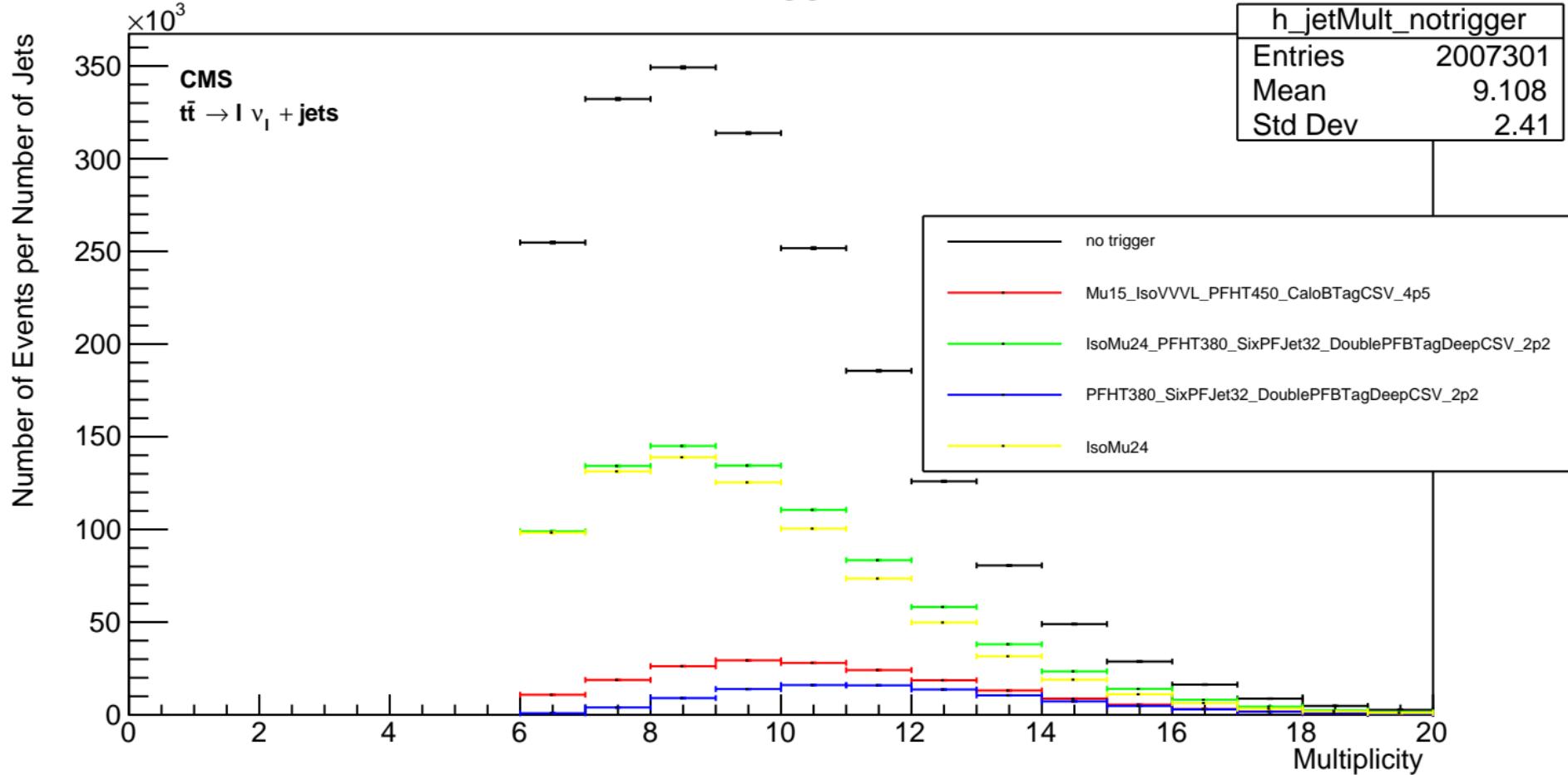
no trigger



IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

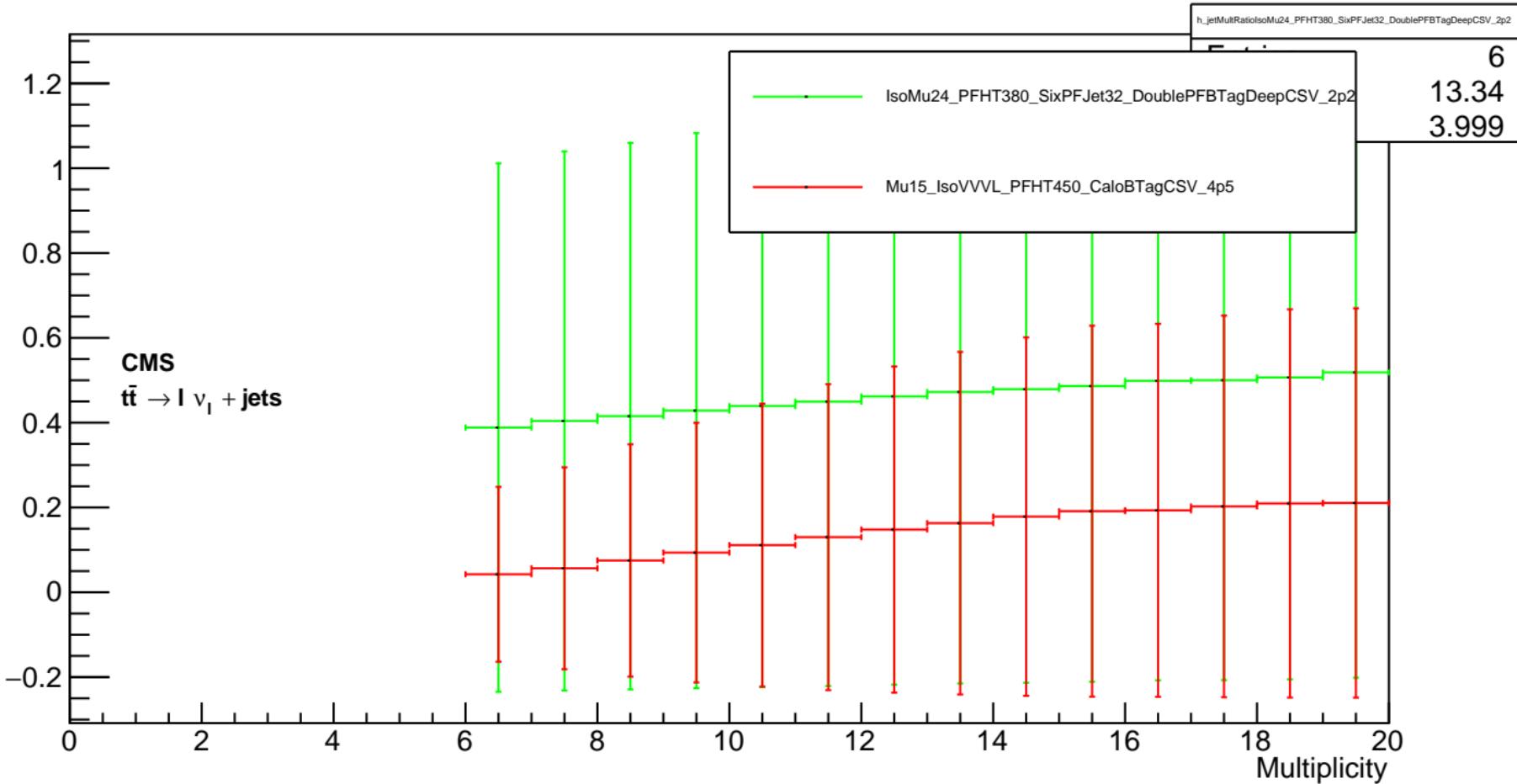


no trigger



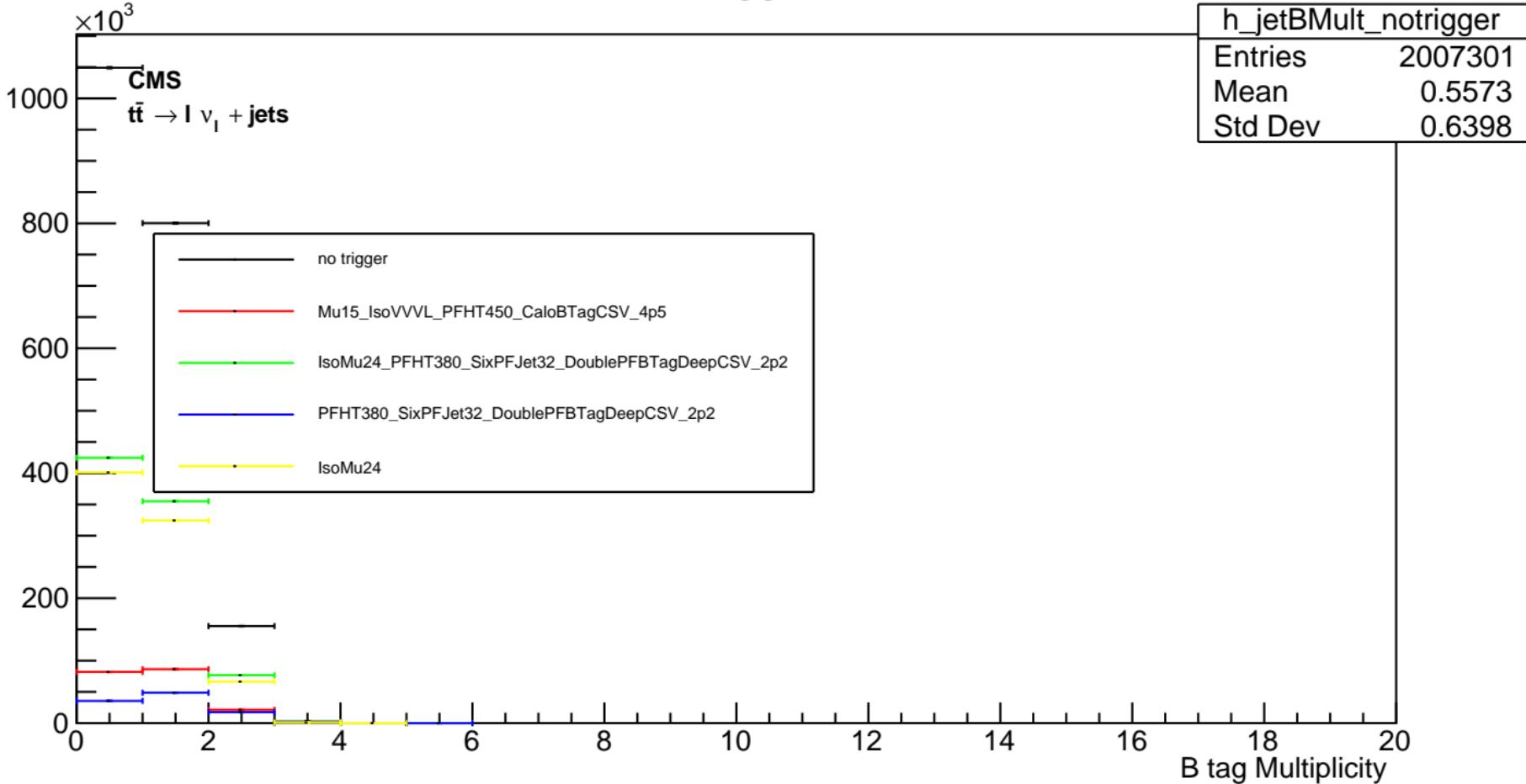
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

Number of Events per Number of Jets

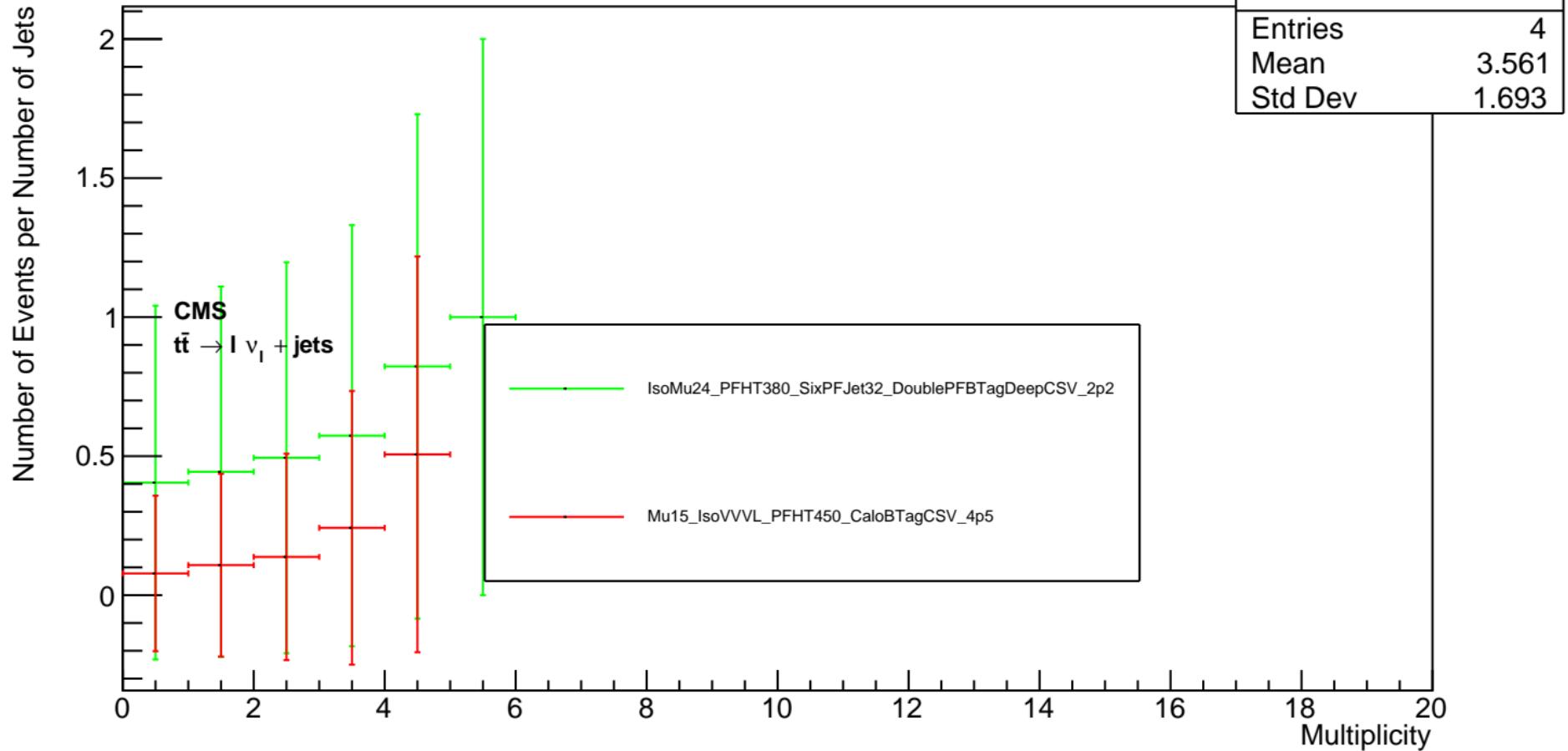


no trigger

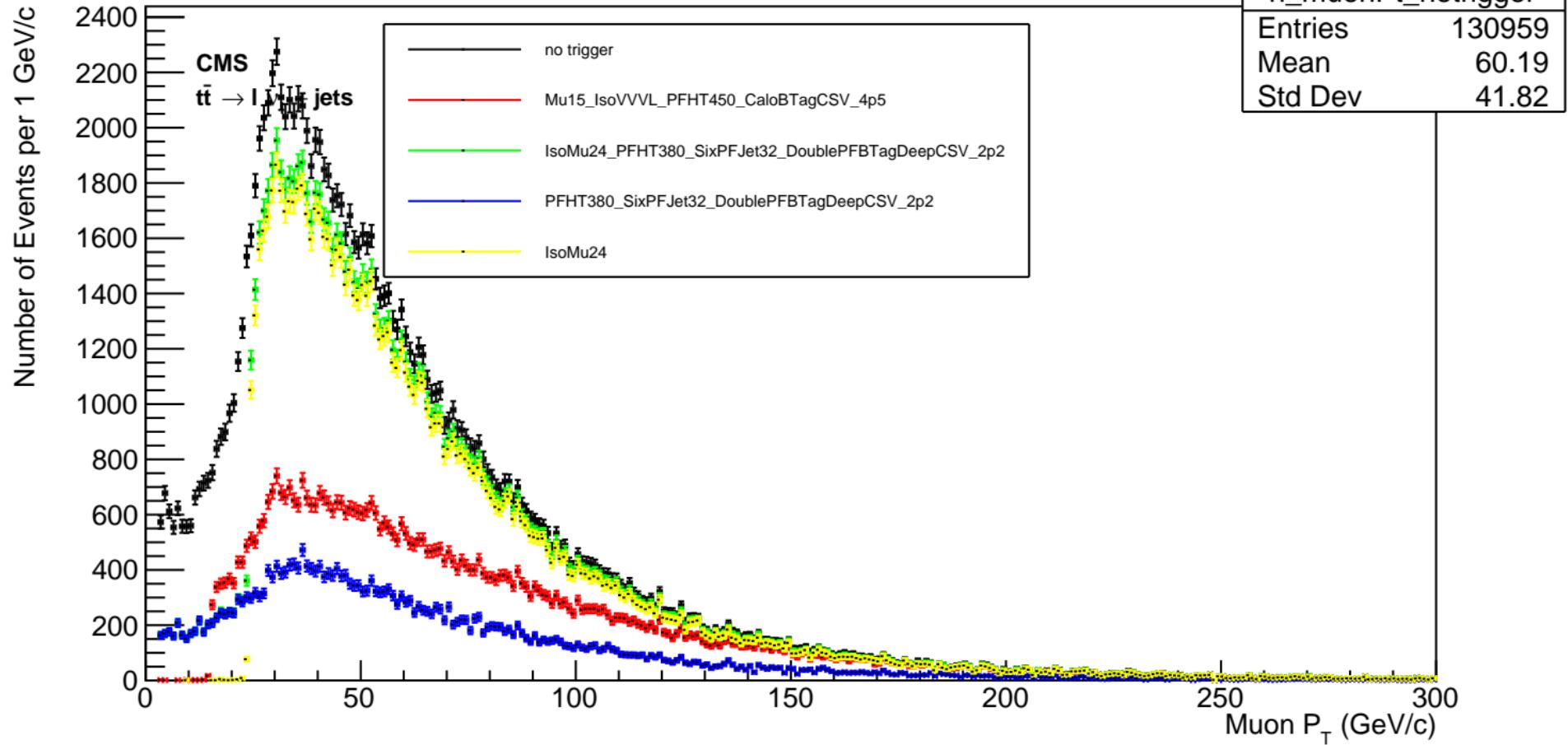
Number of Events per Number of Jets



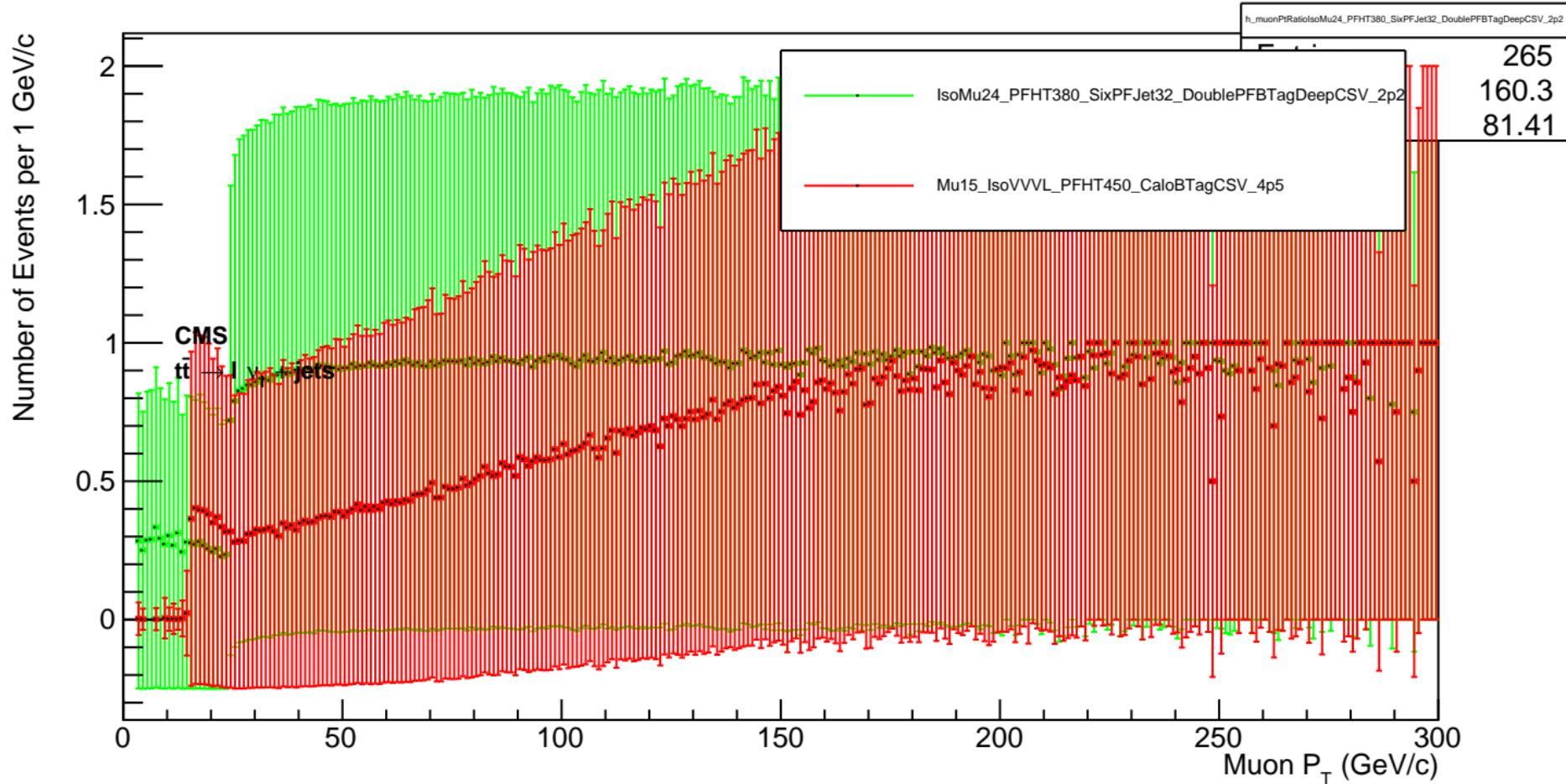
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



no trigger

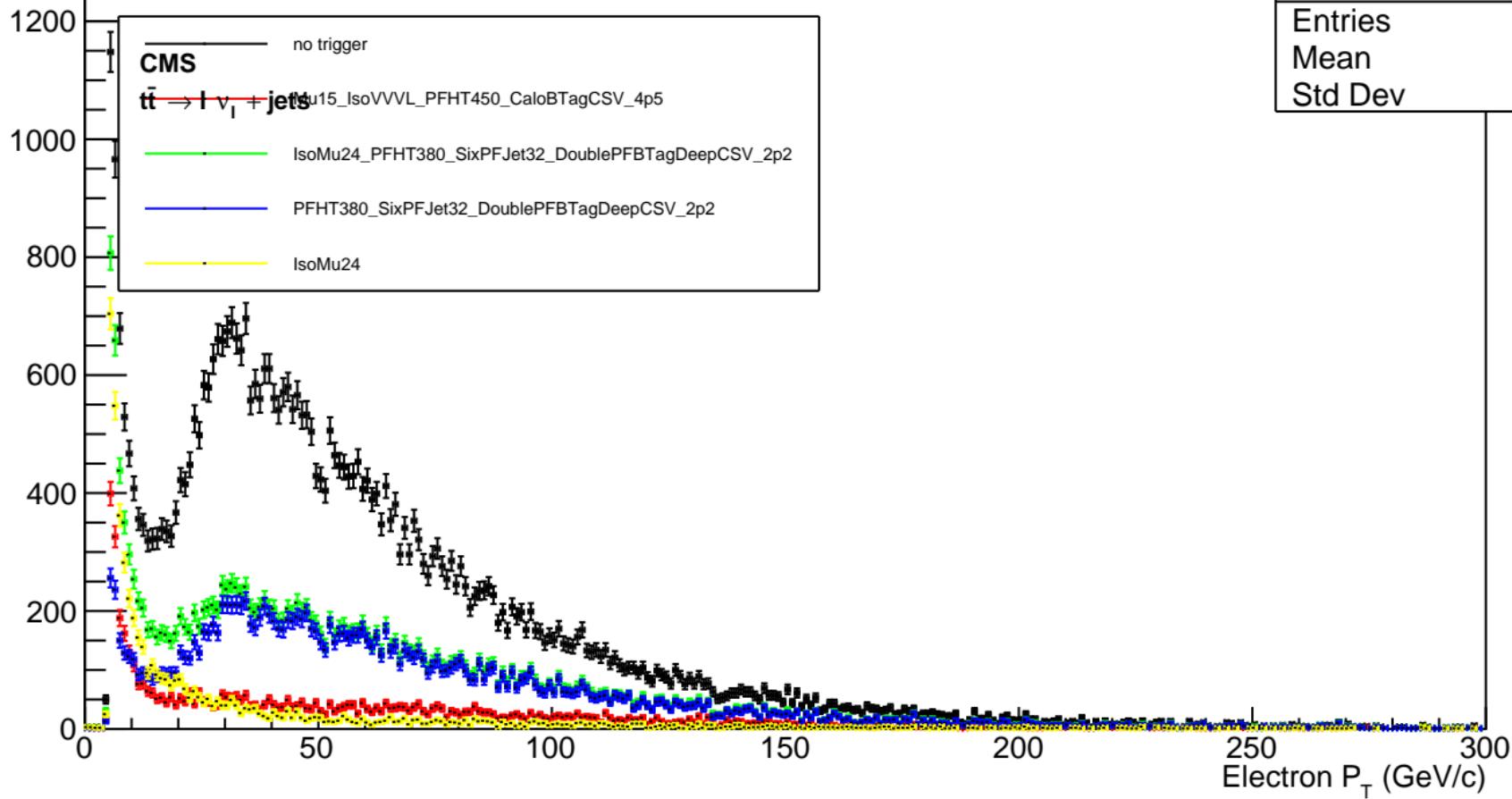


IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



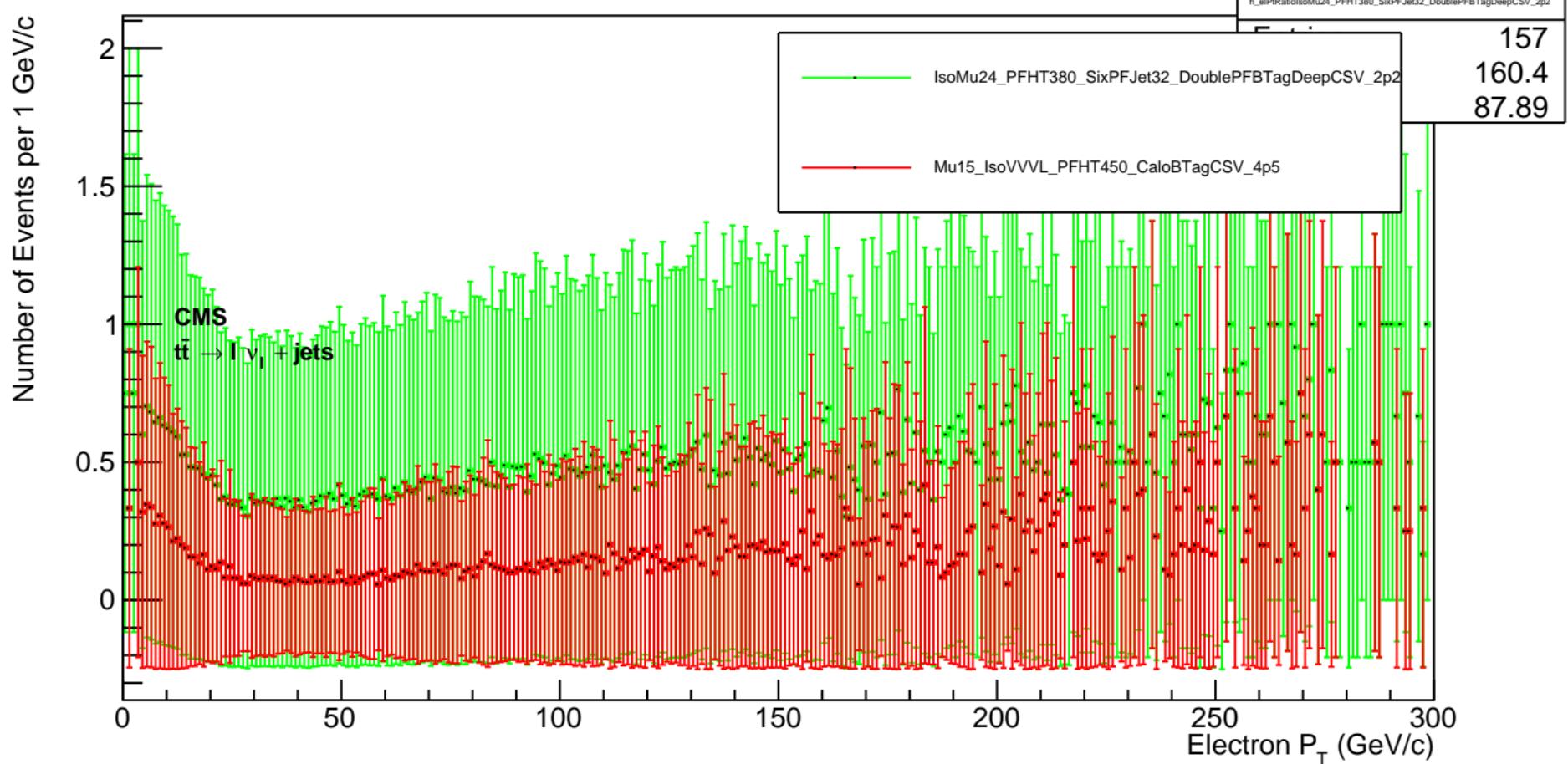
no trigger

Number of Events per 1 GeV/c

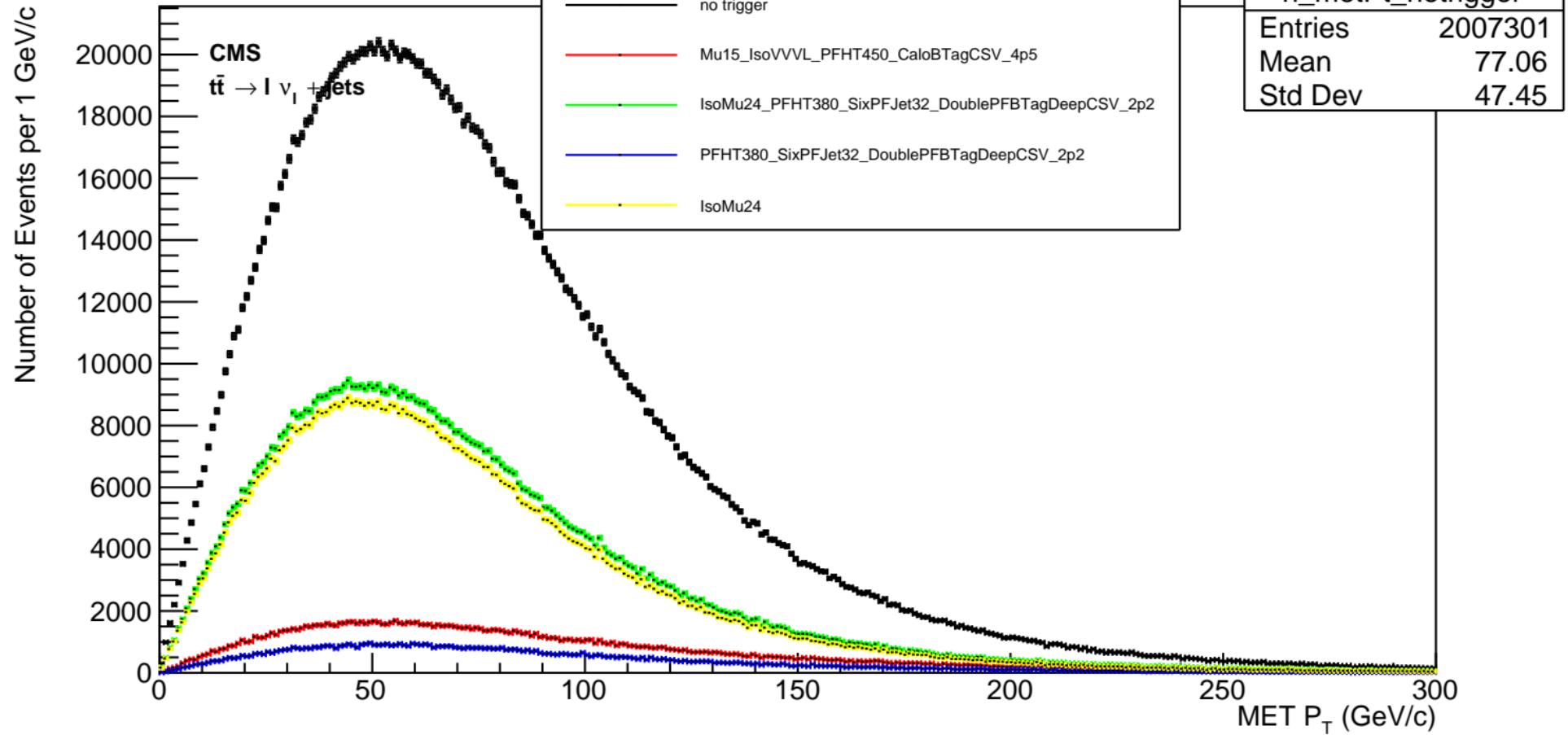


h_elPt_notrigger	
Entries	46431
Mean	58.81
Std Dev	44.96

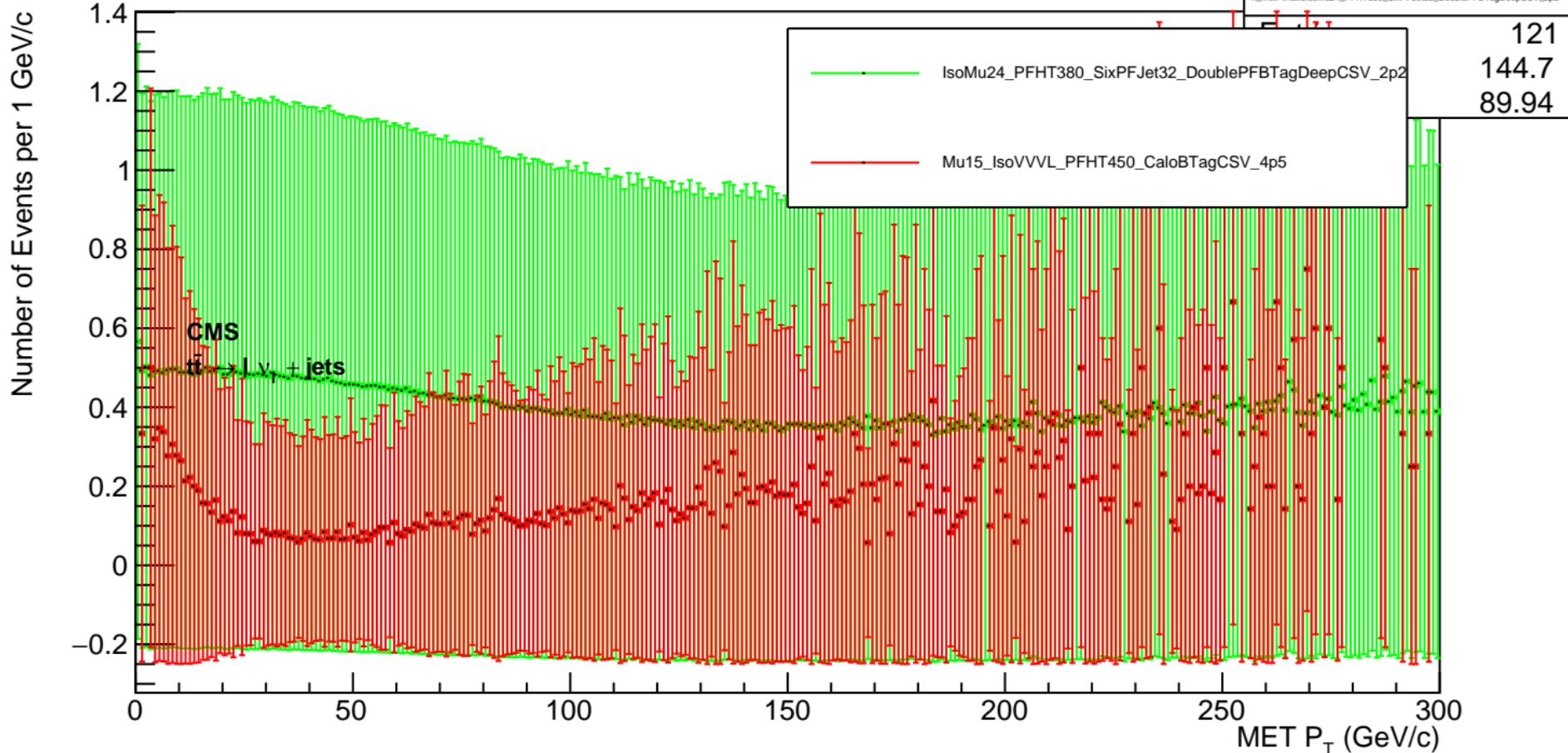
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



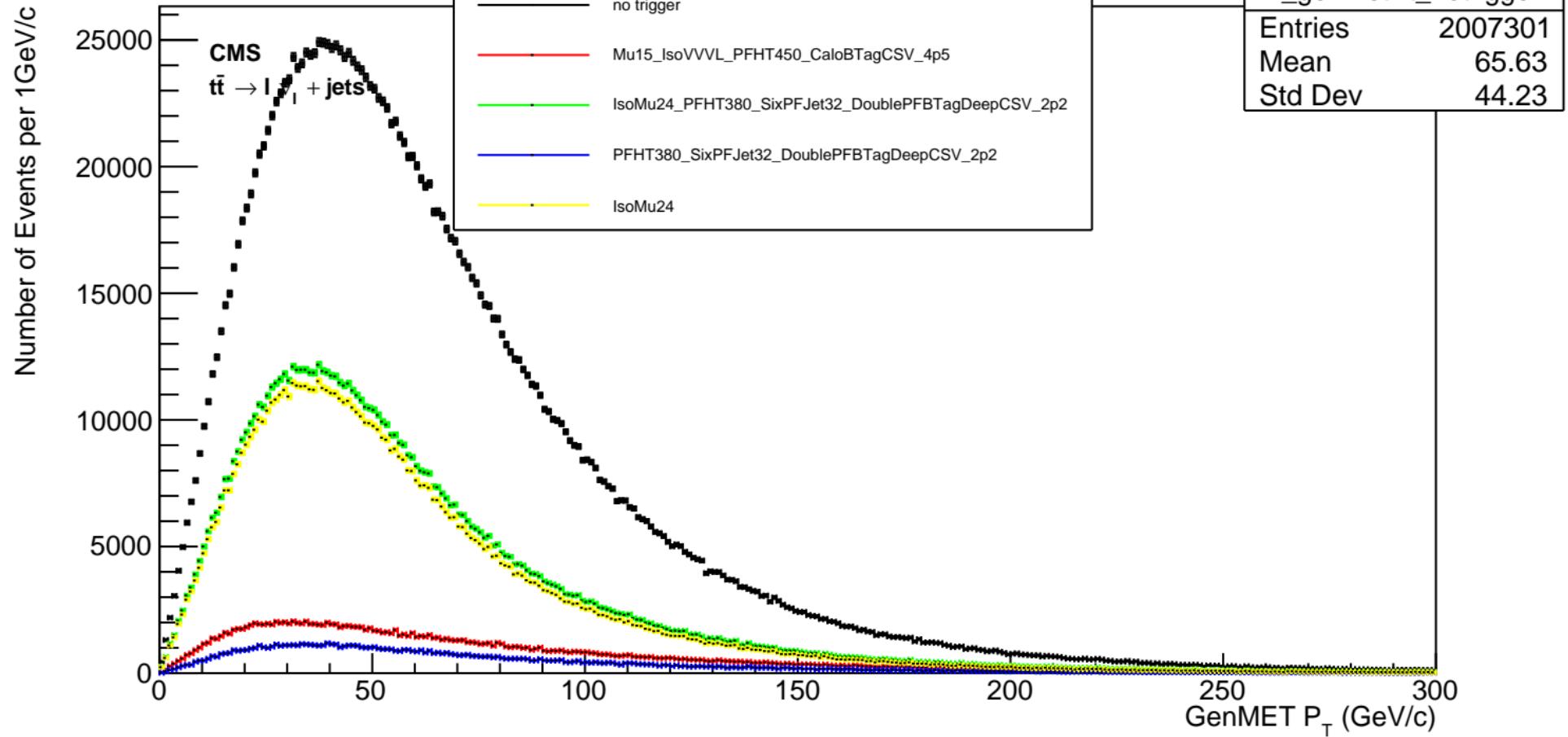
no trigger



IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

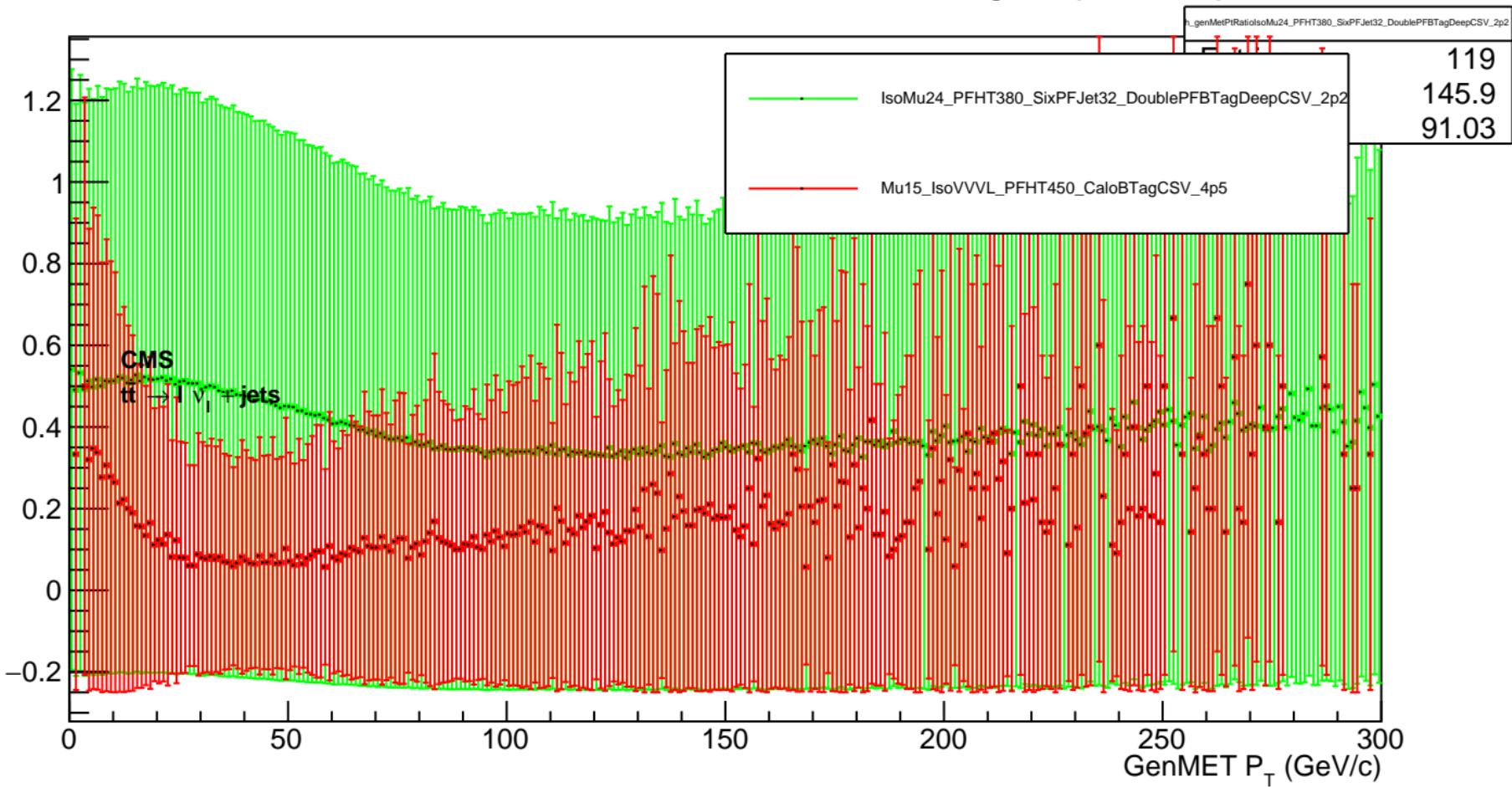


no trigger

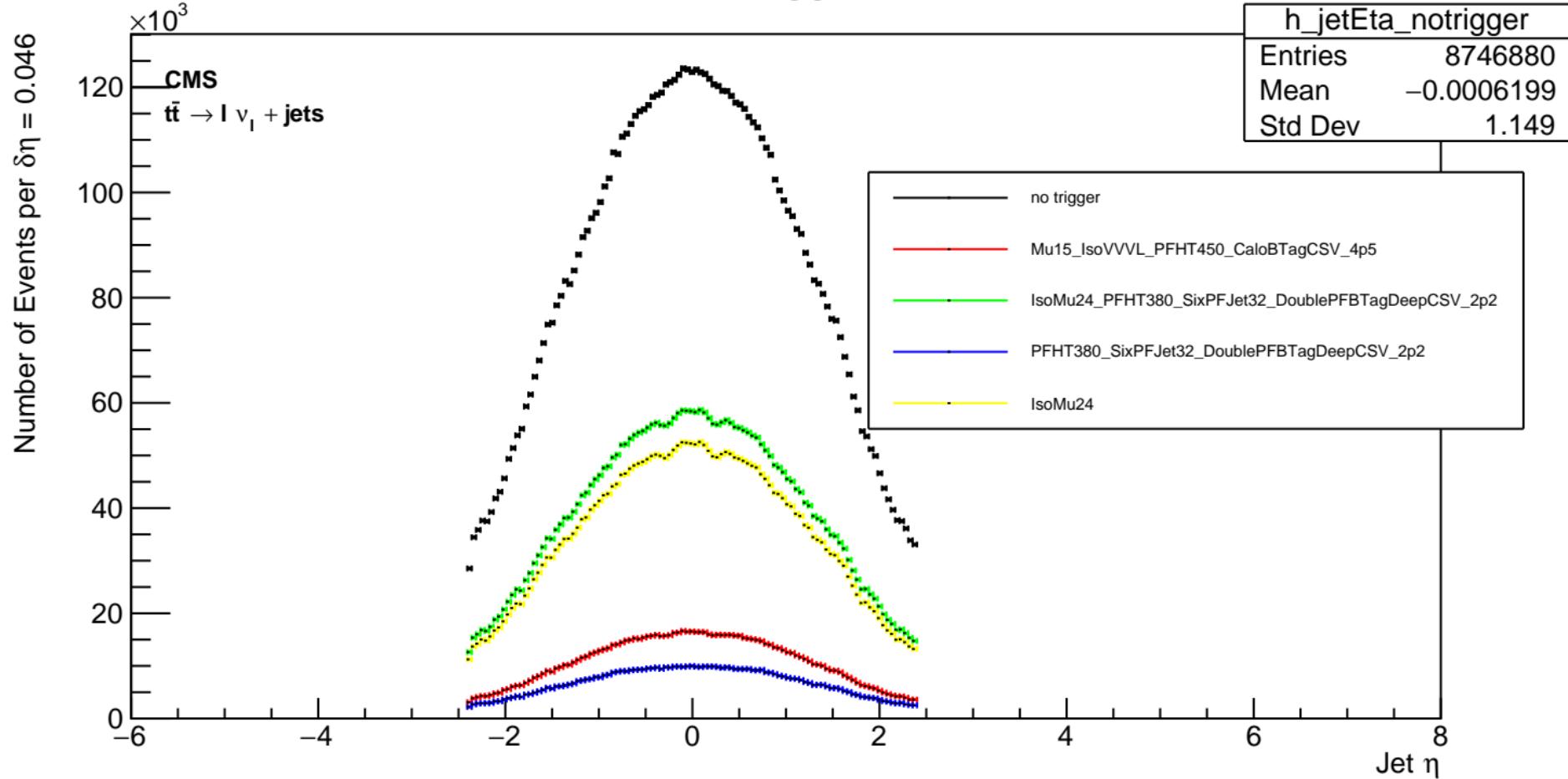


IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

Number of Events per 1 GeV/c

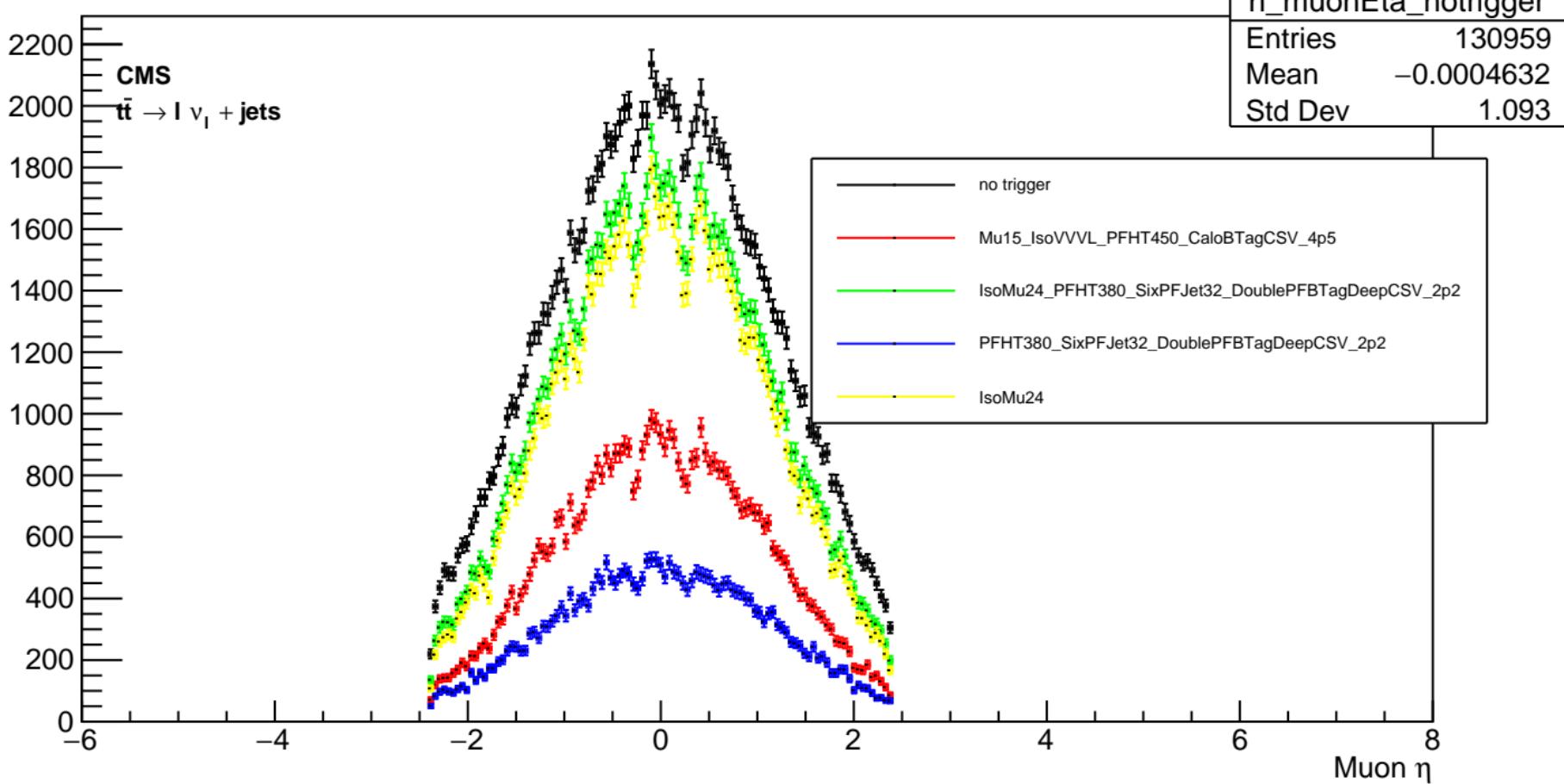


no trigger



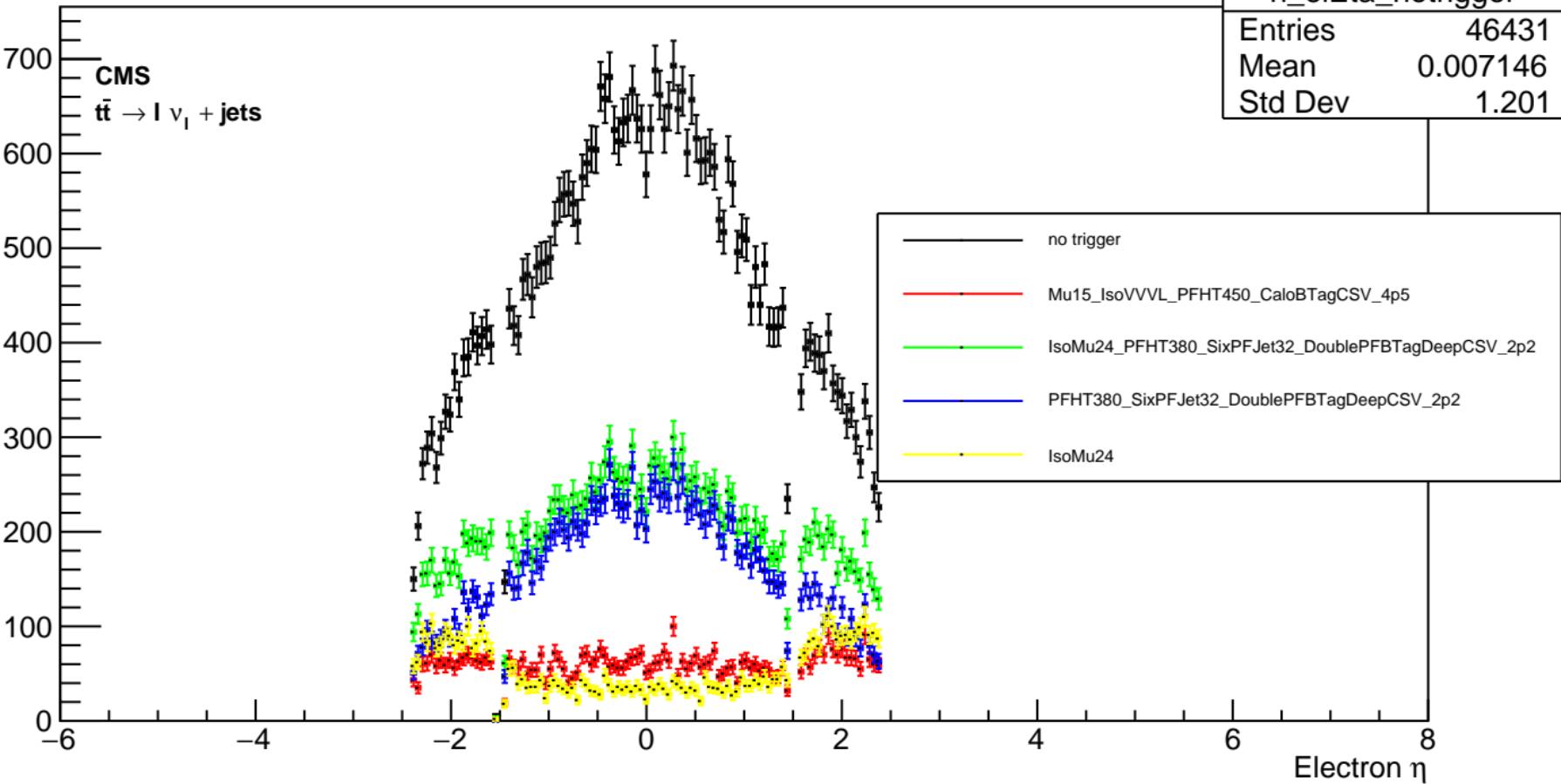
no trigger

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

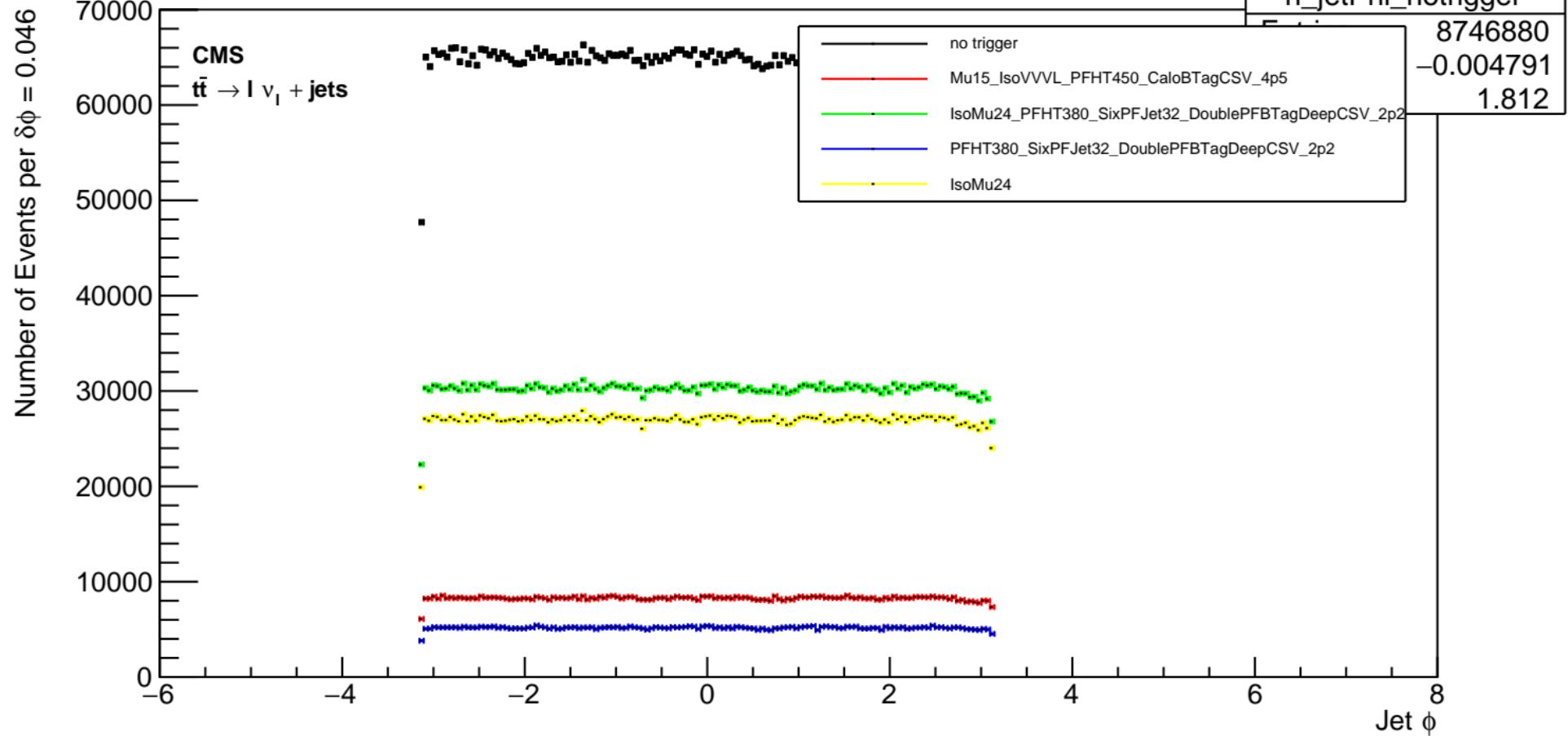


no trigger

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

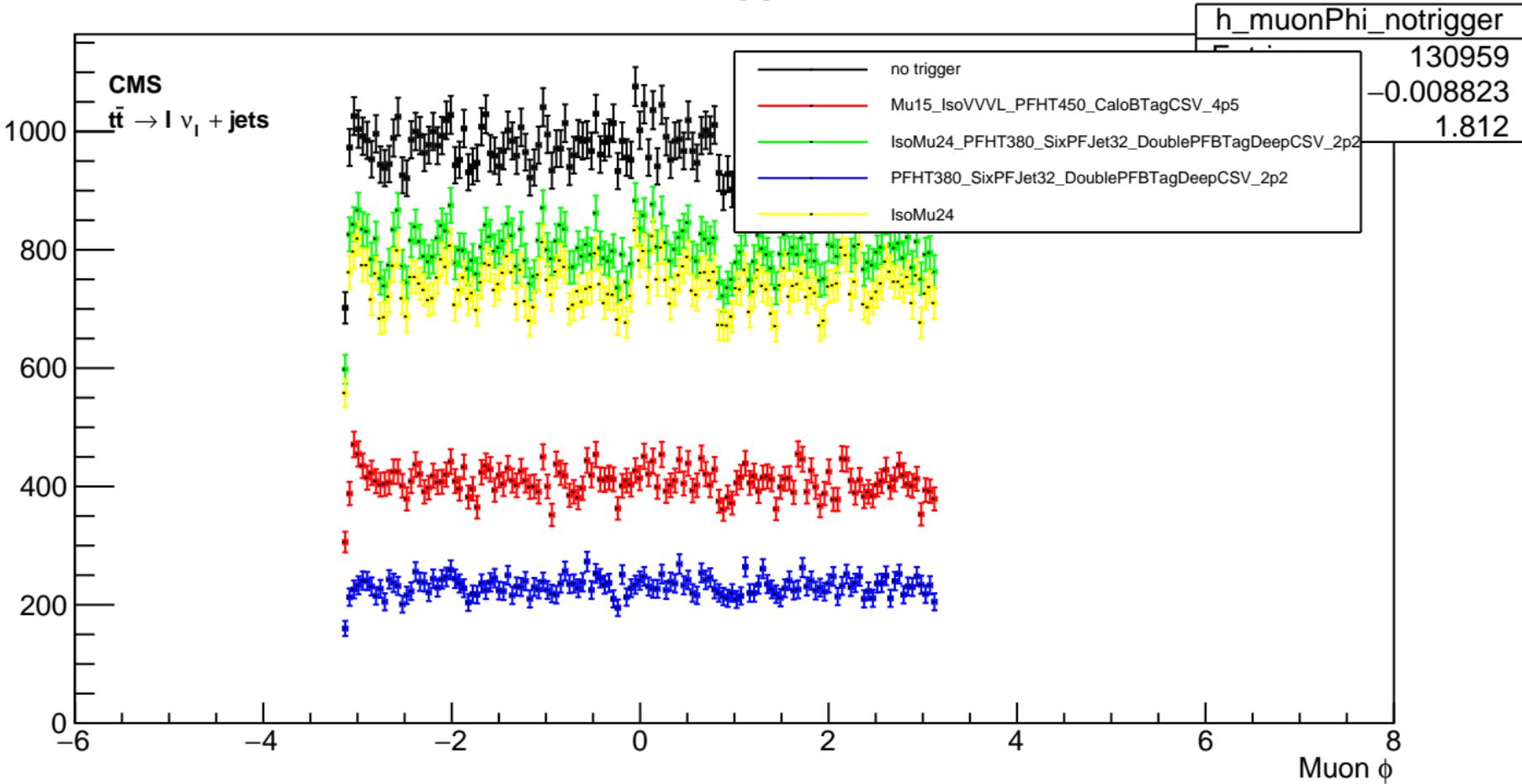


no trigger



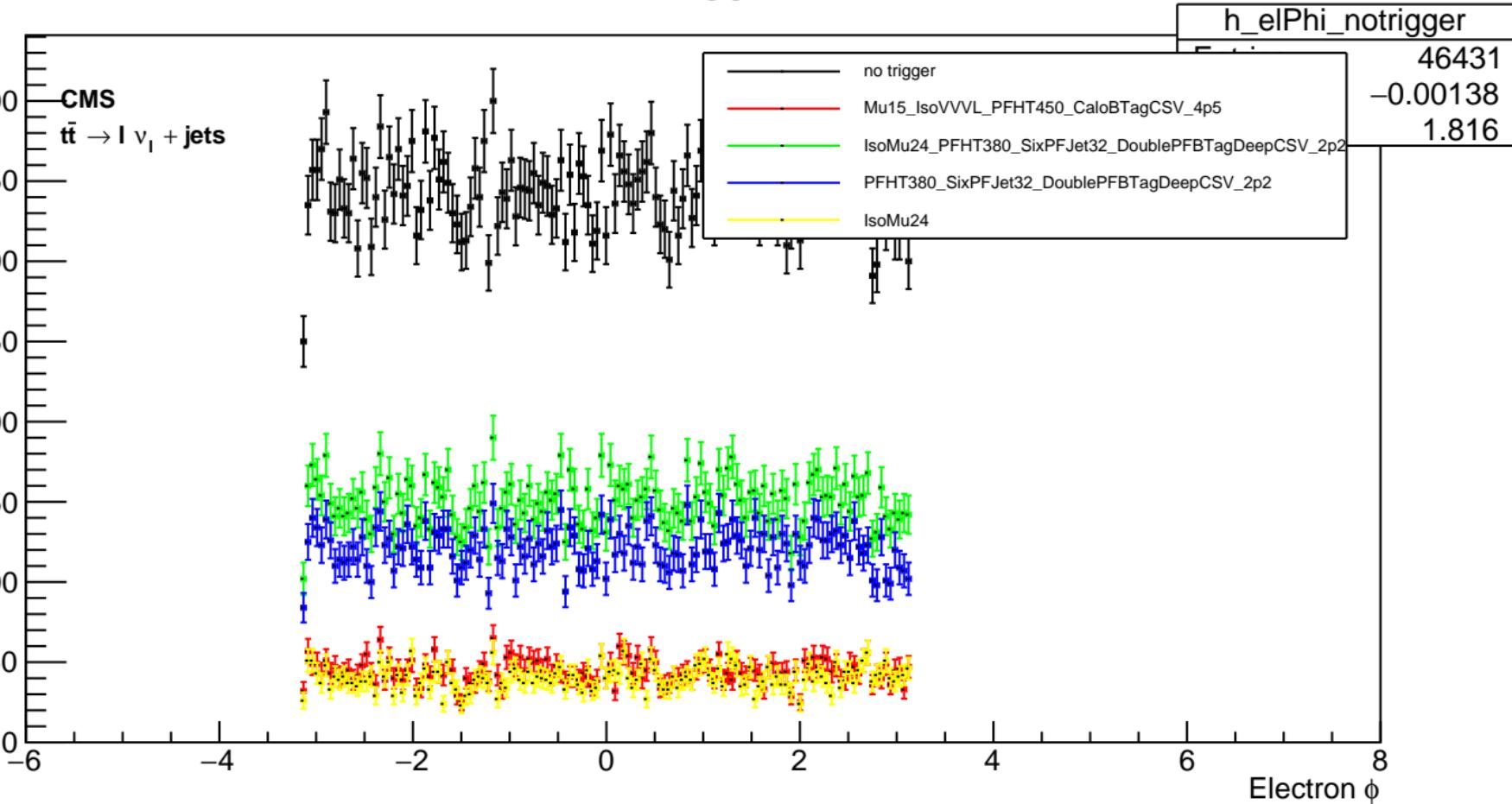
no trigger

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

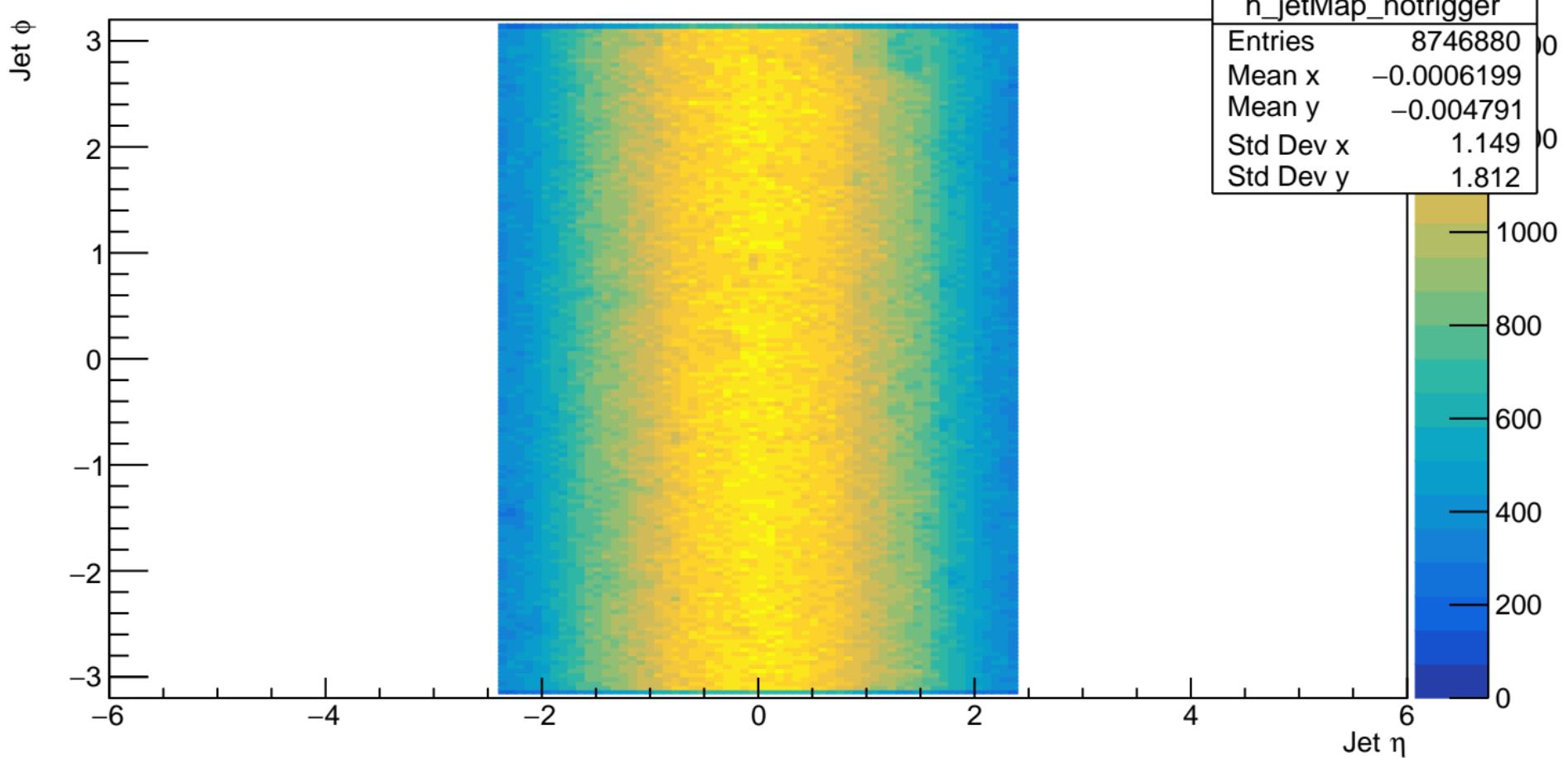


no trigger

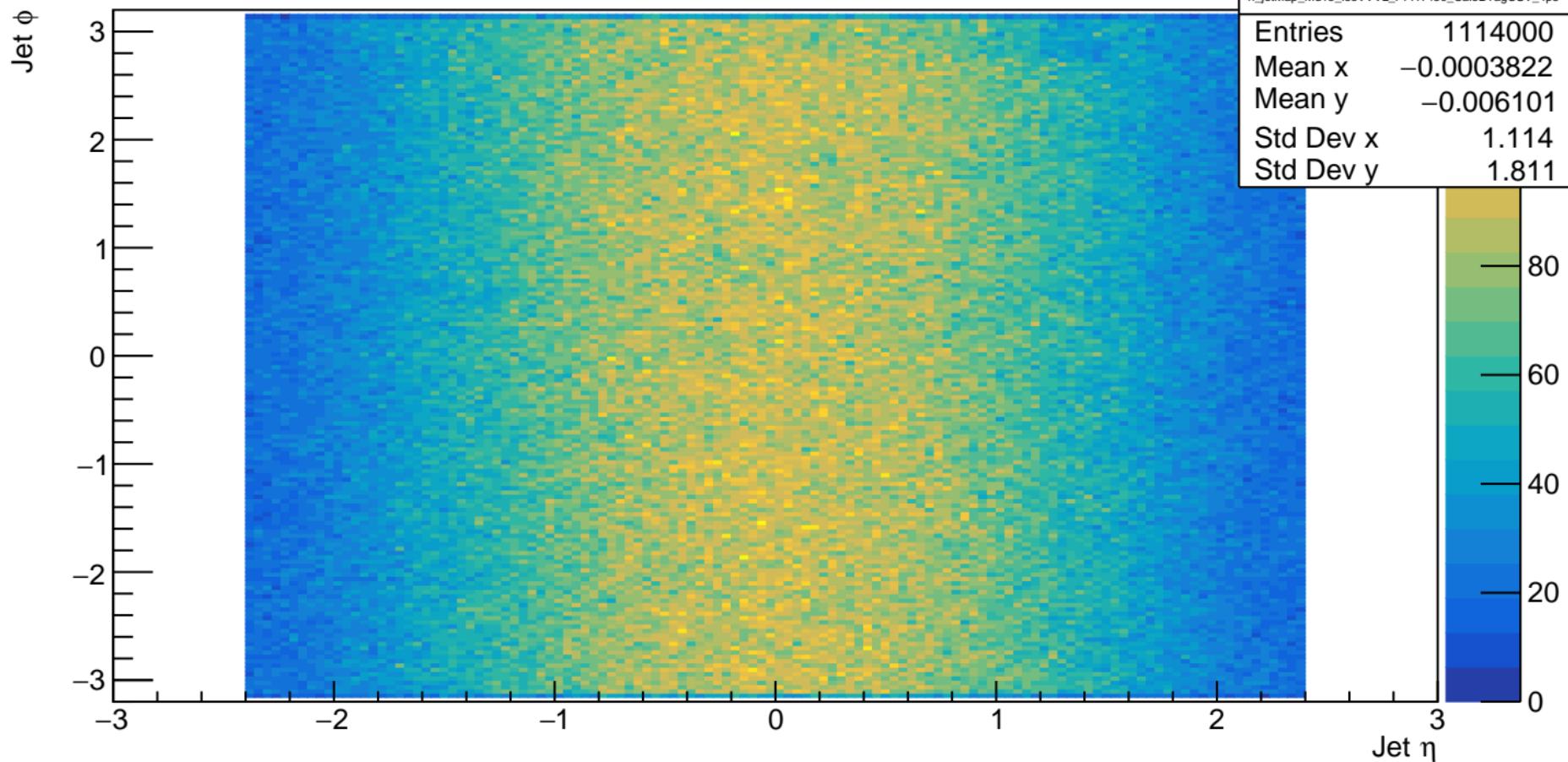
Number of Events per $\delta\phi = 0.046$



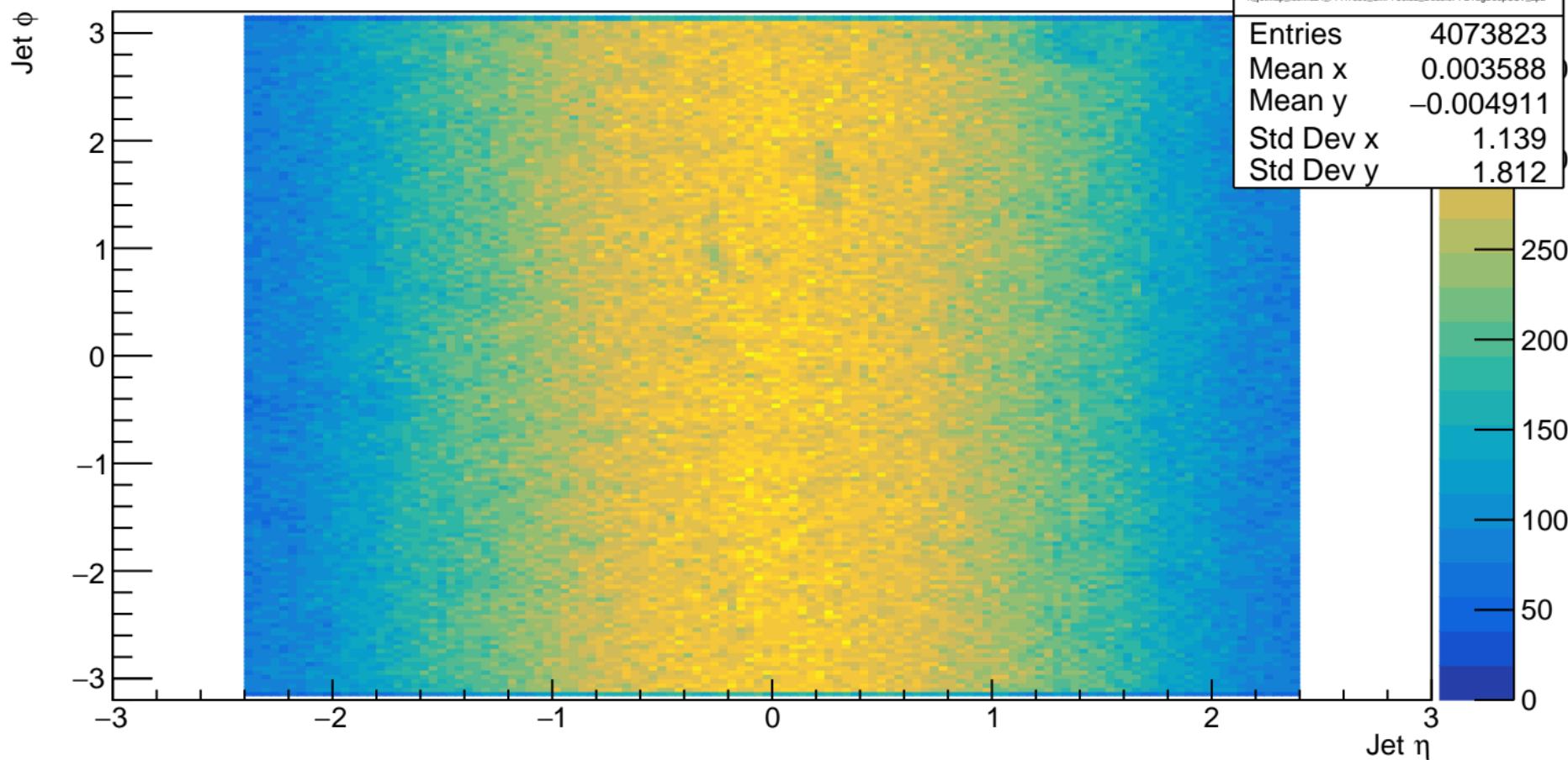
no trigger



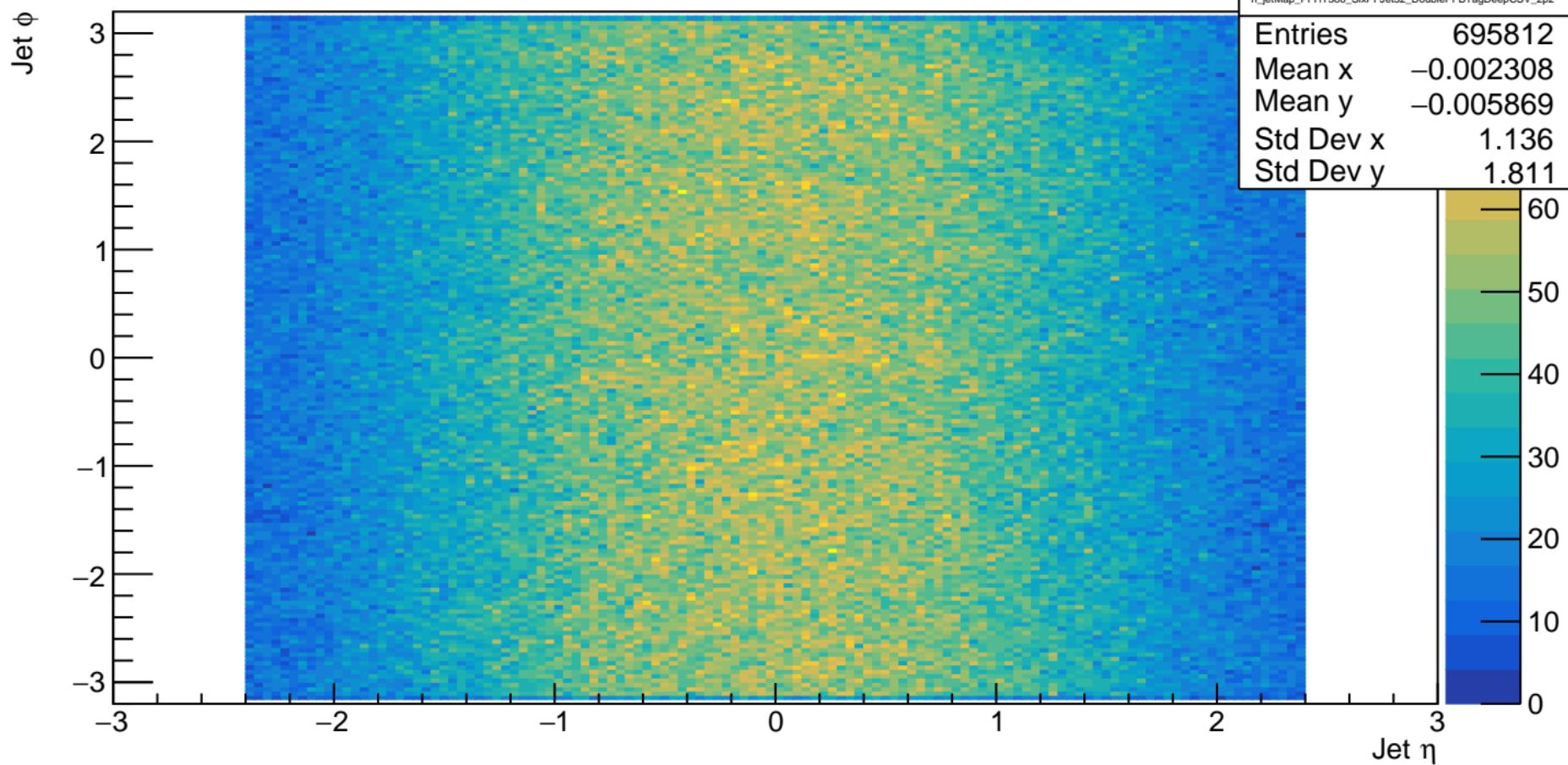
Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5



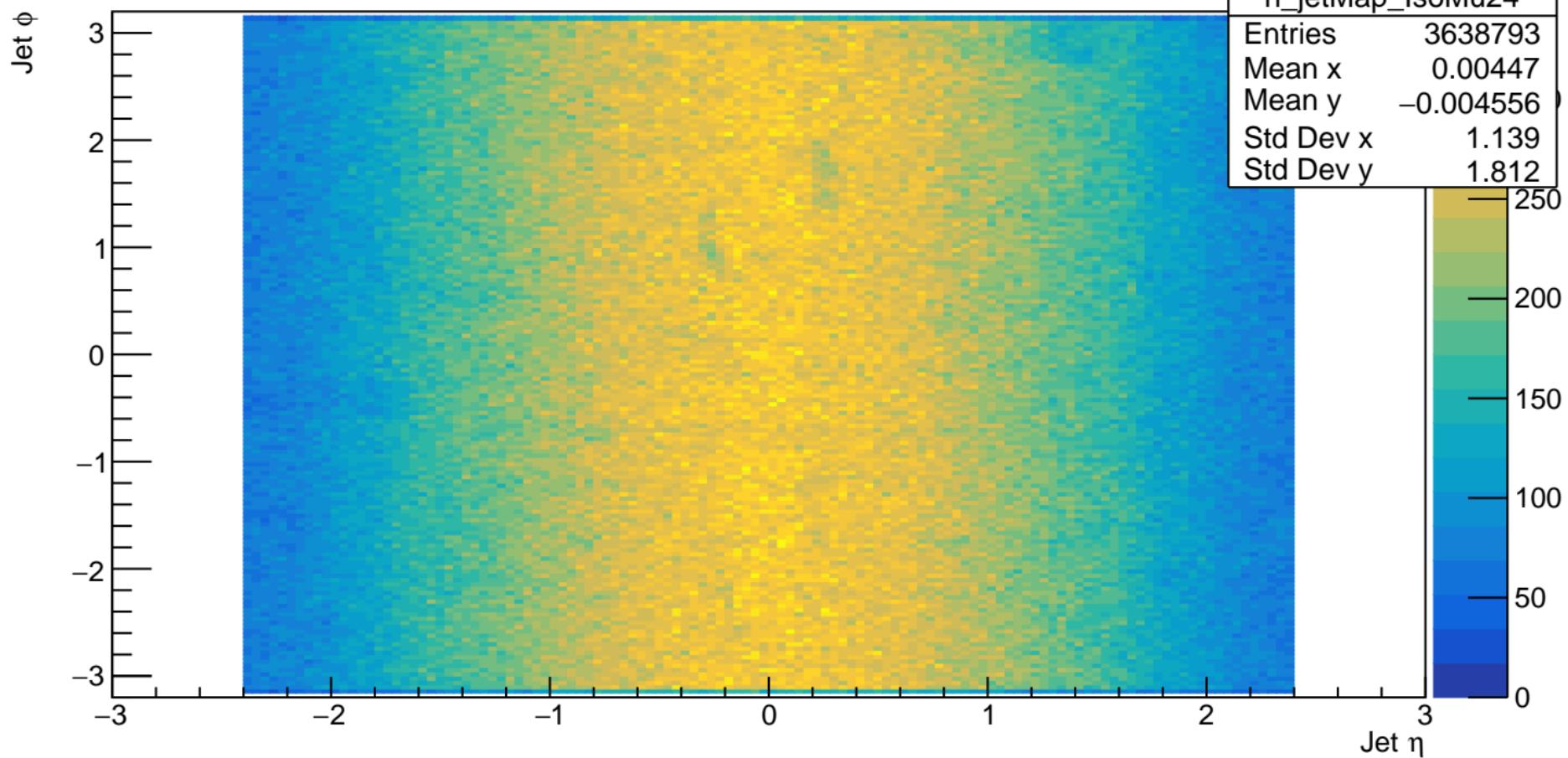
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



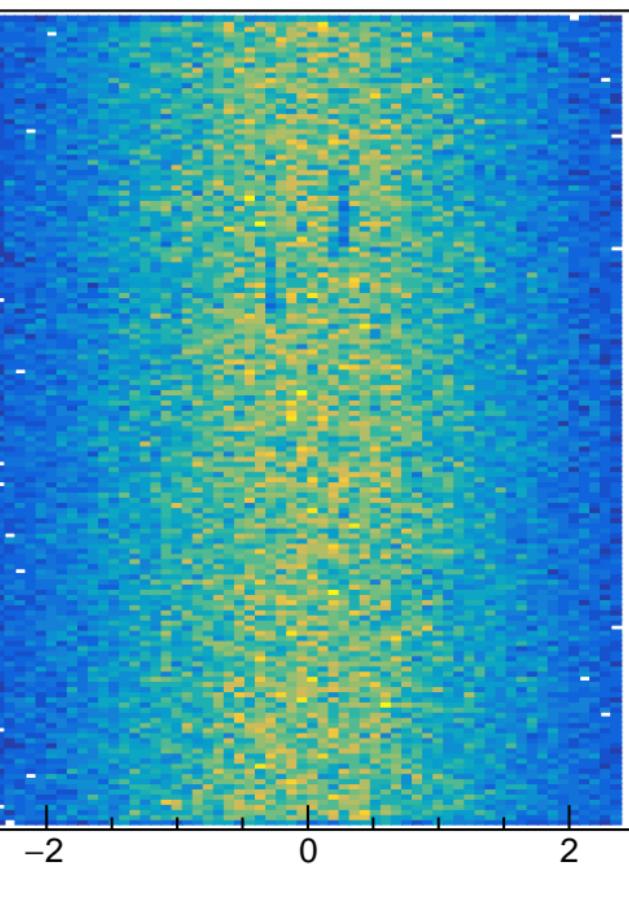
IsoMu24



no trigger

Muon ϕ

3
2
1
0
-1
-2
-3

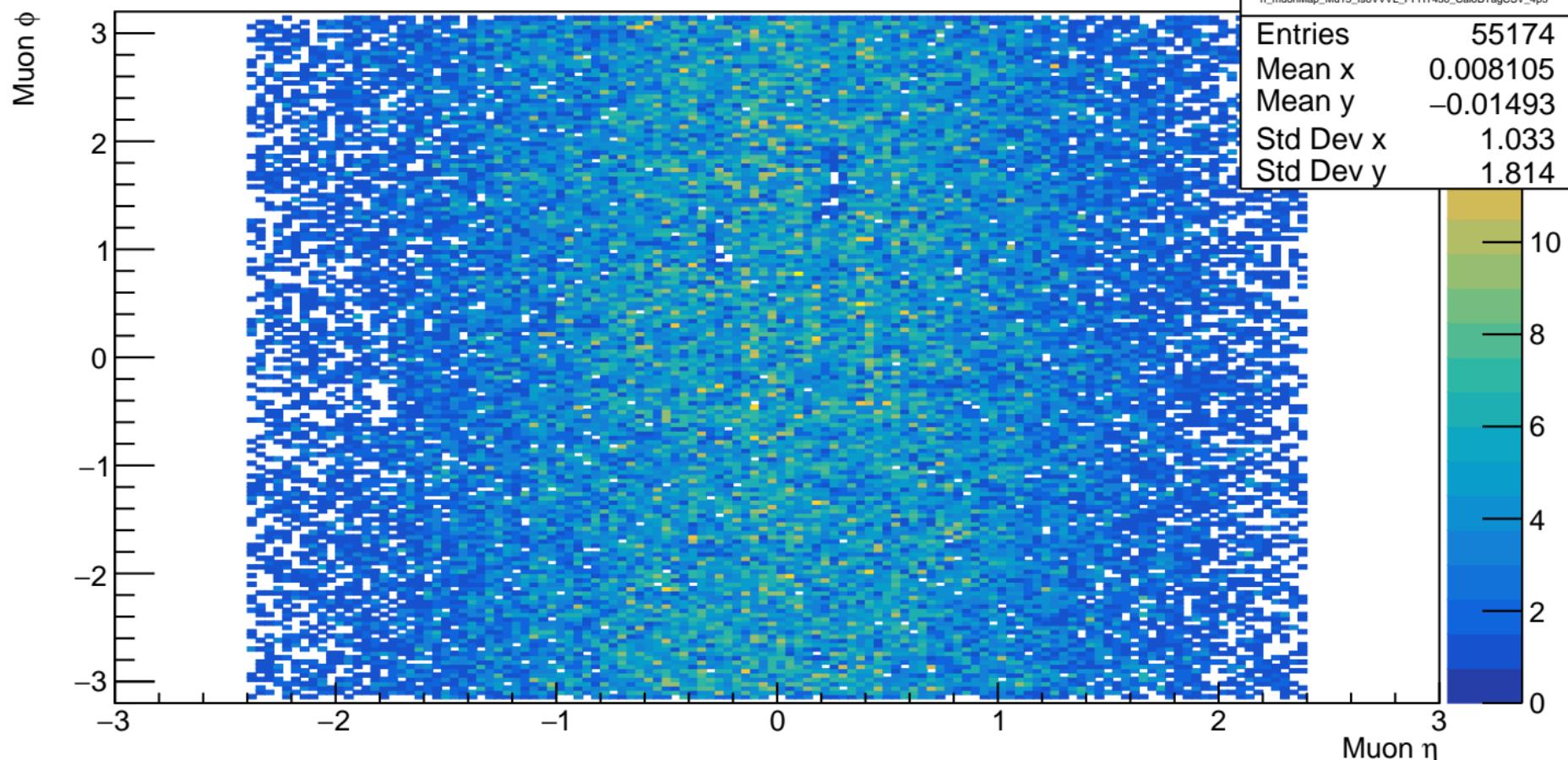


h_muonMap_notrigger	
Entries	130959
Mean x	-0.0004632
Mean y	-0.008823
Std Dev x	1.093
Std Dev y	1.812

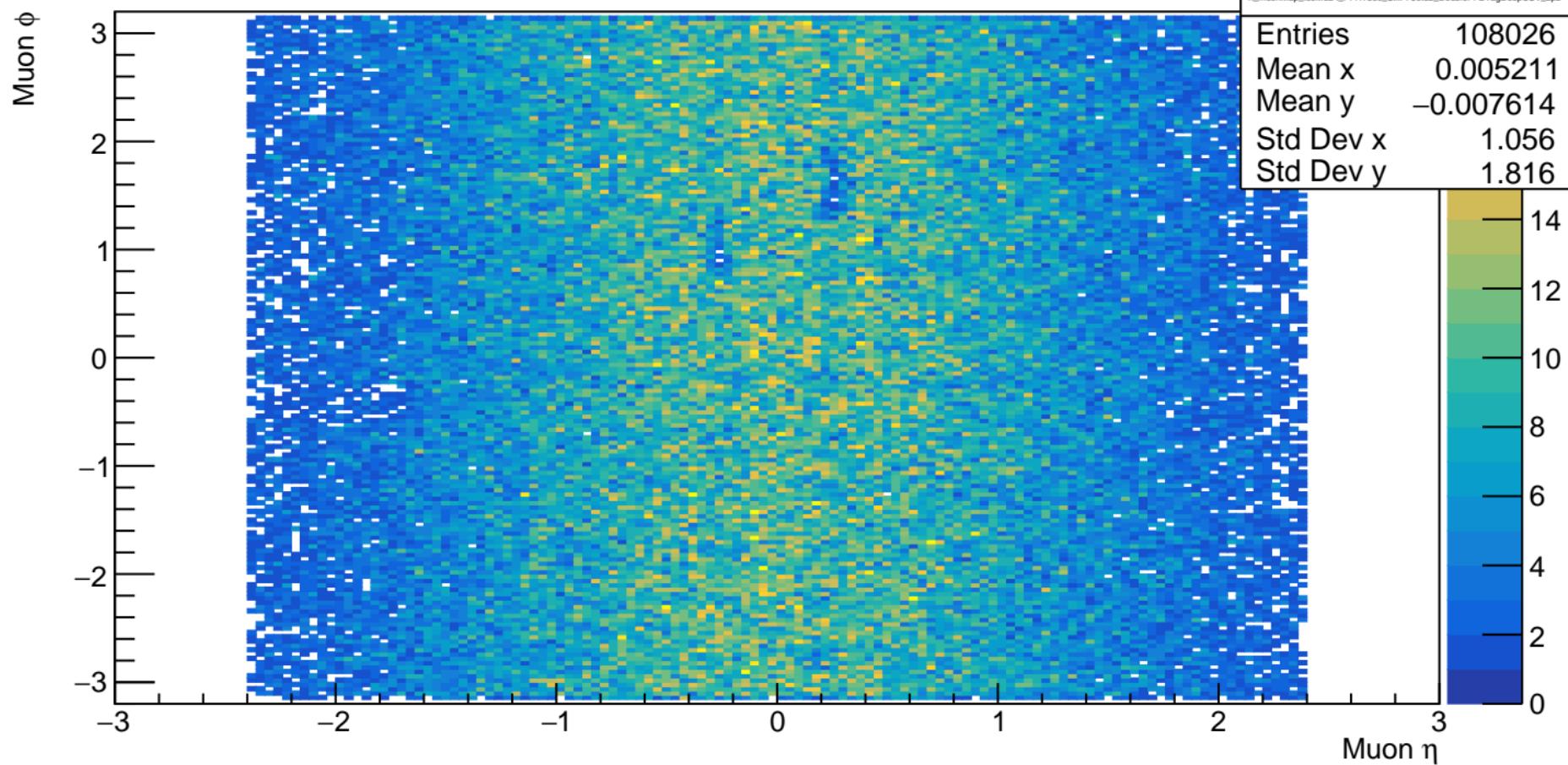
Muon η

25
20
15
10
5
0

Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5



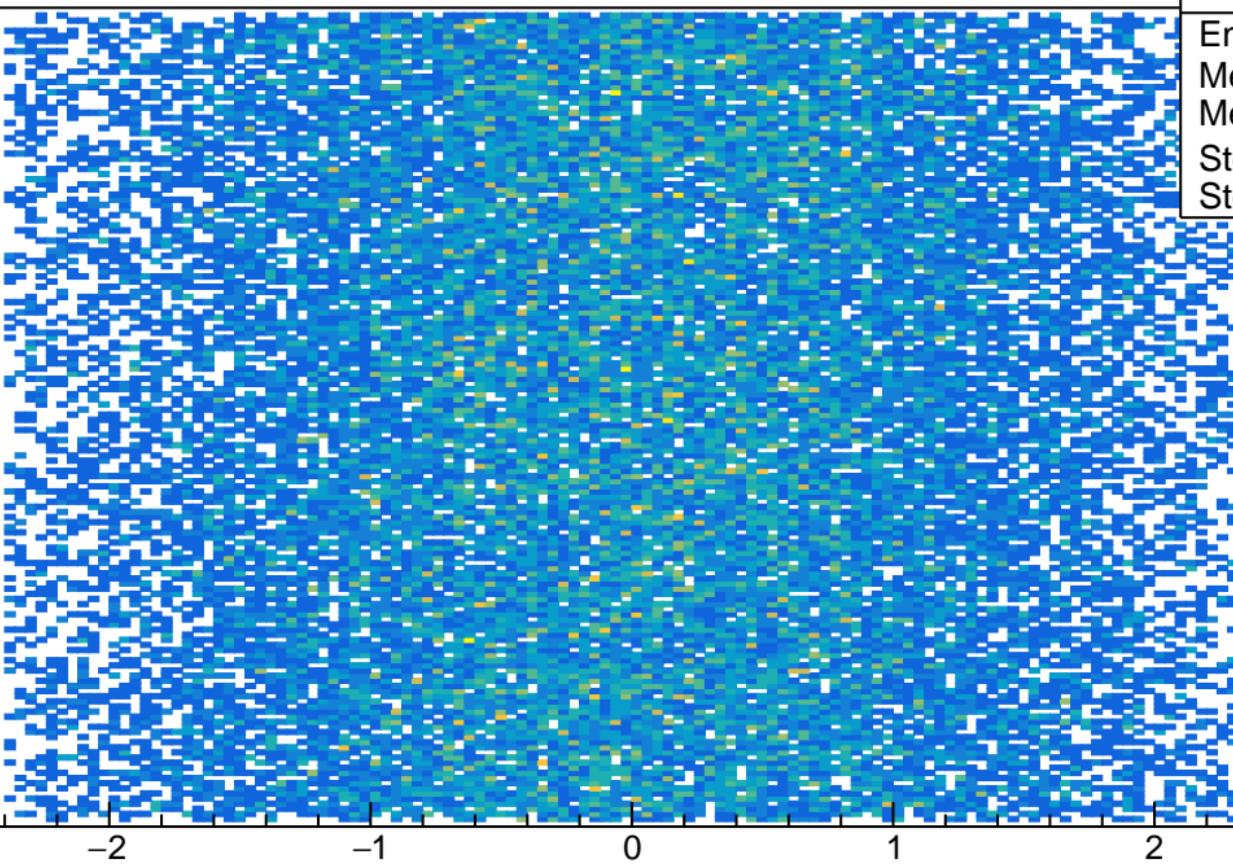
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

Muon ϕ

3
2
1
0
-1
-2
-3



h_muonMap_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

Entries	31182
Mean x	0.001611
Mean y	0.004582
Std Dev x	1.061
Std Dev y	1.81

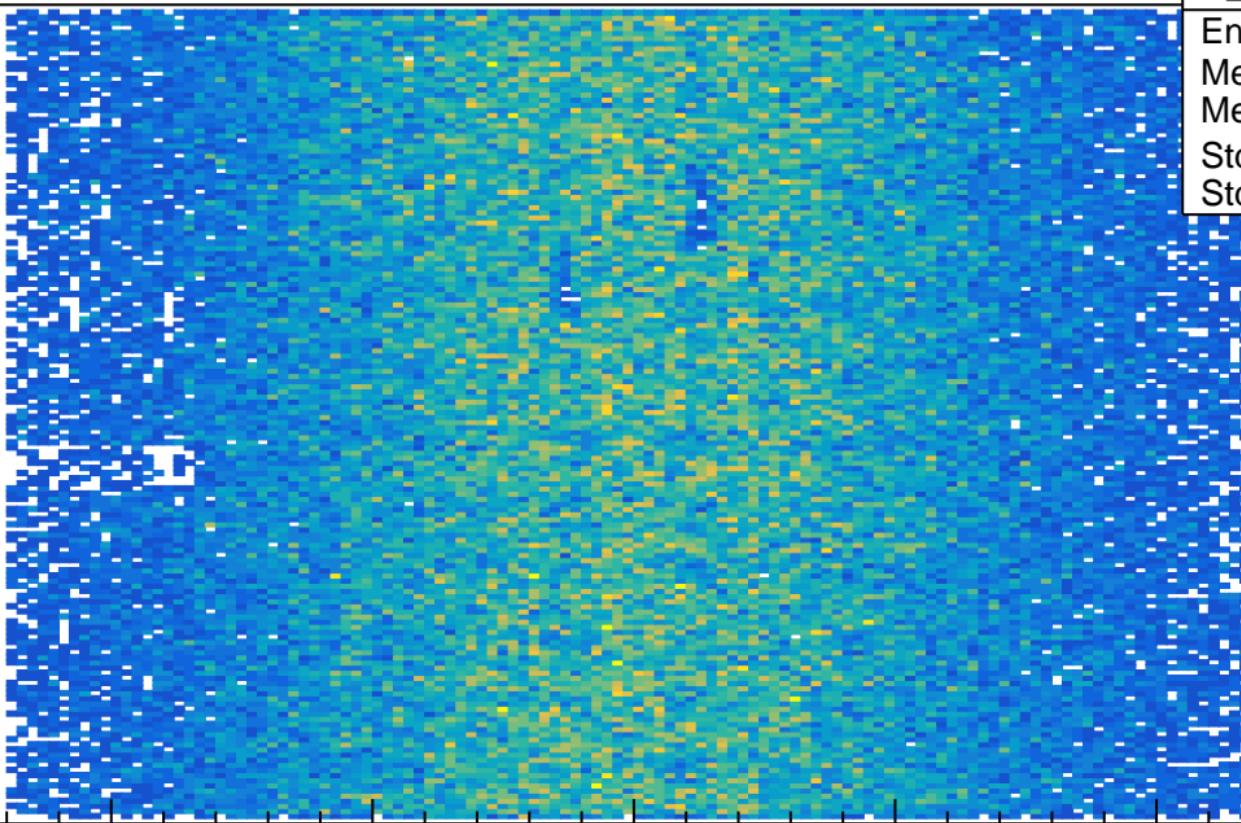
7
6
5
4
3
2
1
0

Muon η

IsoMu24

Muon ϕ

3
2
1
0
-1
-2
-3



h_muonMap_IsoMu24

Entries 99750
Mean x 0.007093
Mean y -0.009219
Std Dev x 1.044
Std Dev y 1.816

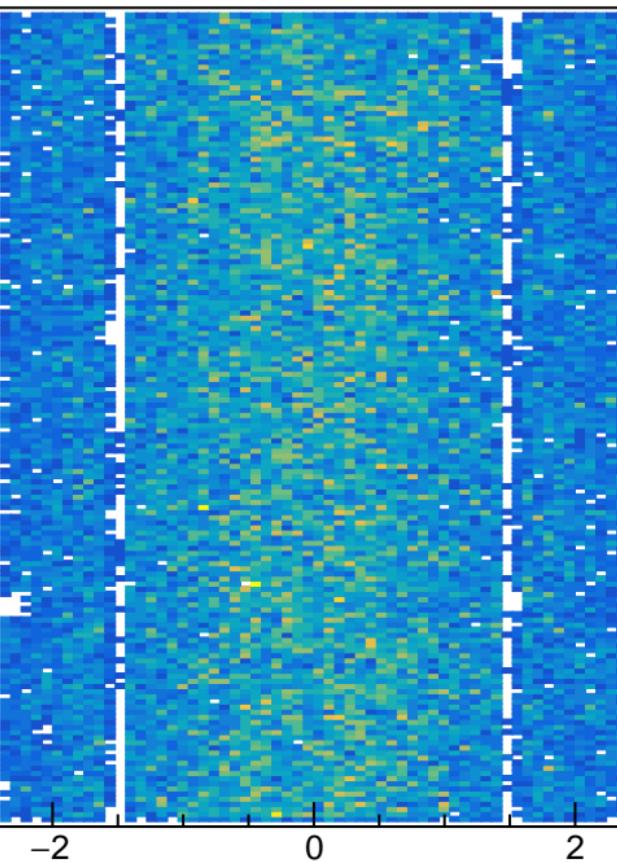
14
12
10
8
6
4
2
0

Muon η

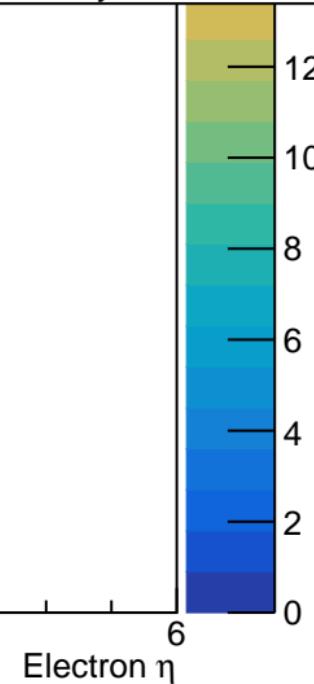
no trigger

Electron ϕ

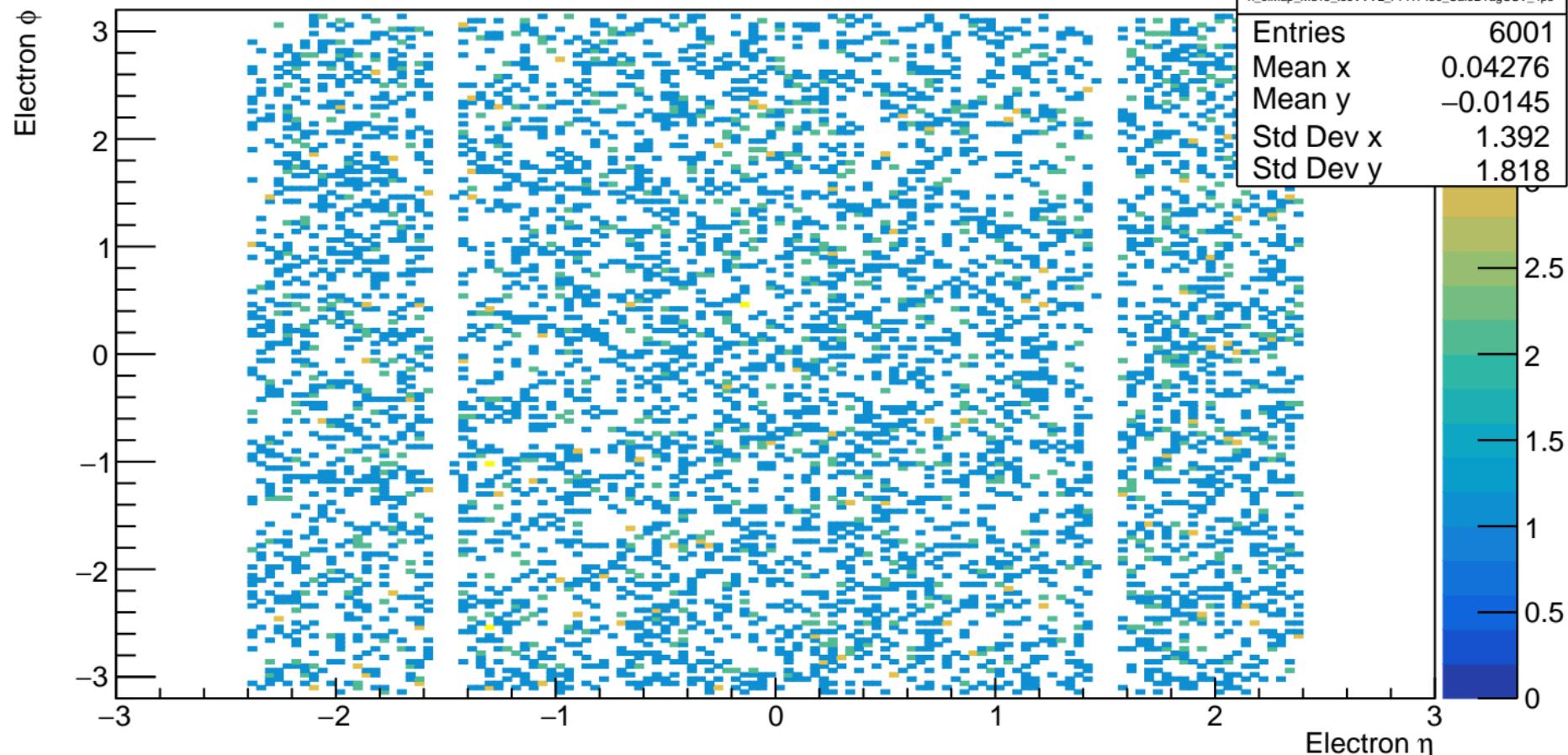
3
2
1
0
-1
-2
-3



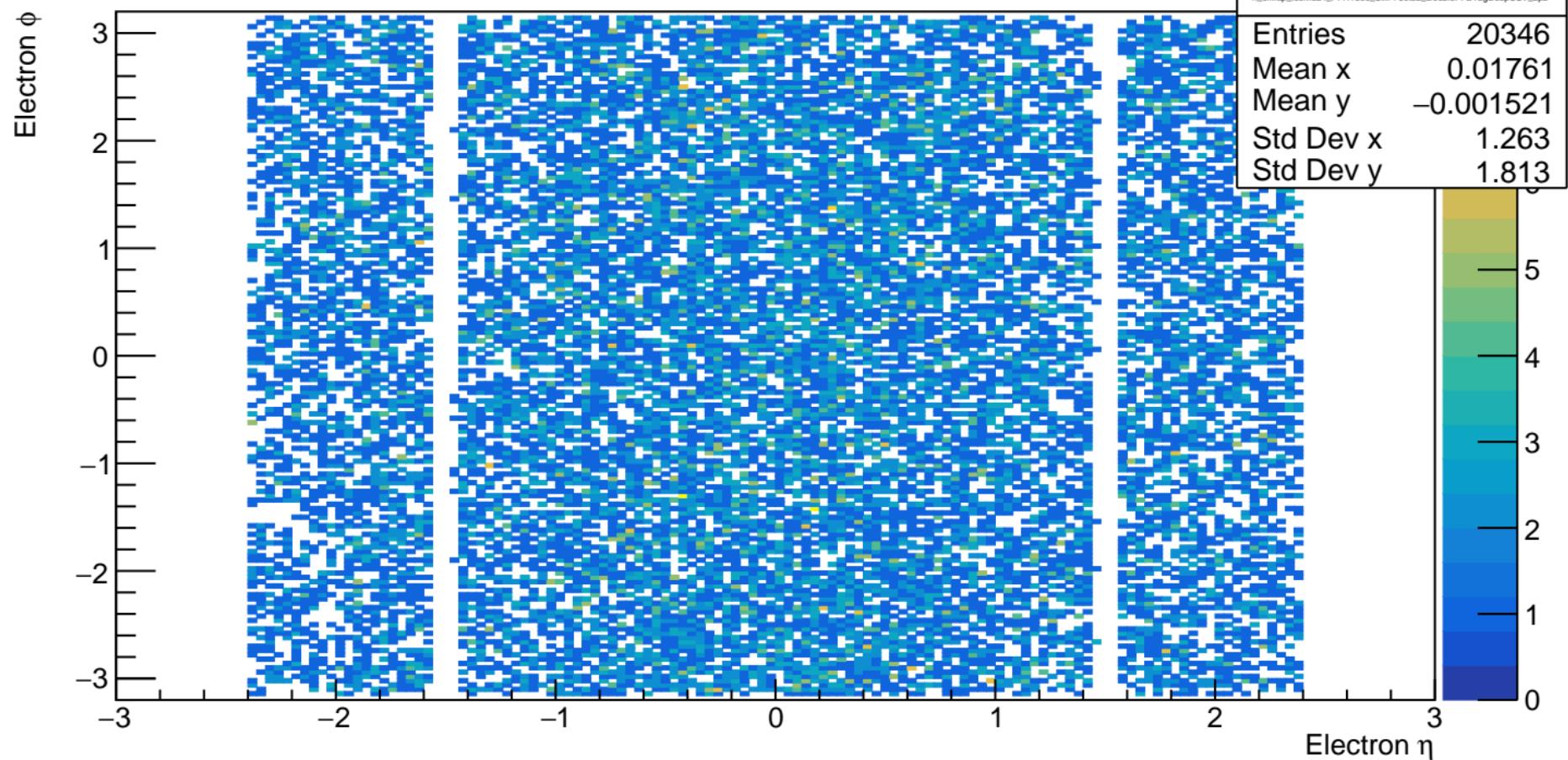
h_elMap_notrigger	
Entries	46431
Mean x	0.007146
Mean y	-0.00138
Std Dev x	1.201
Std Dev y	1.816



Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5



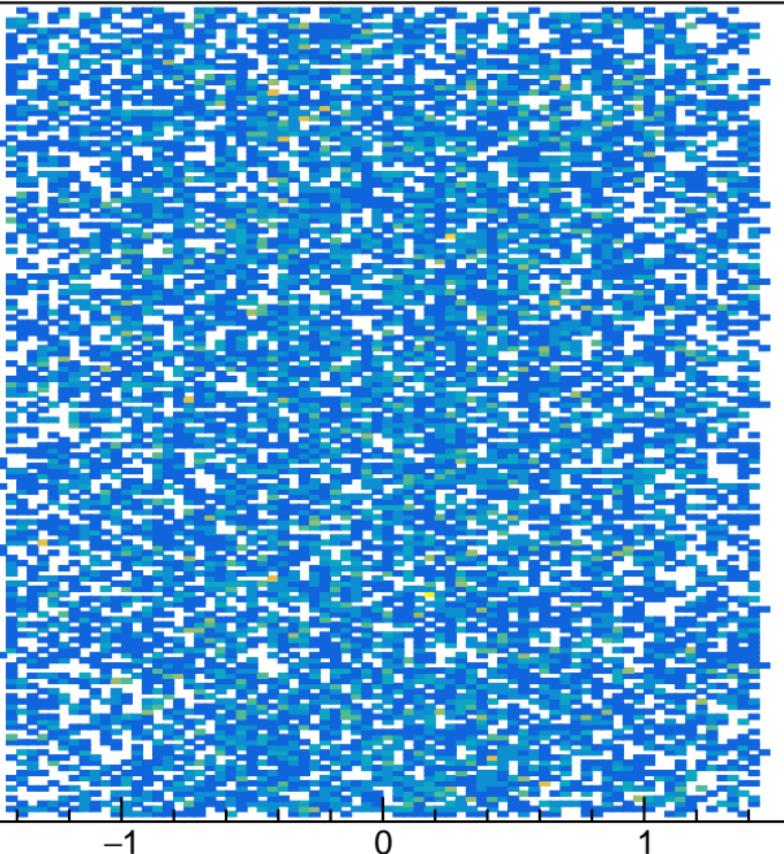
IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2



PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2

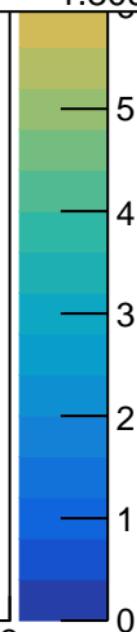
Electron ϕ

3
2
1
0
-1
-2
-3



Electron η

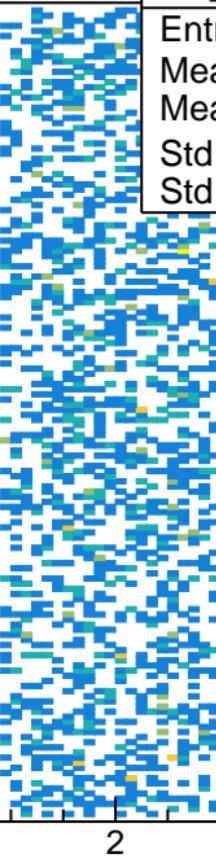
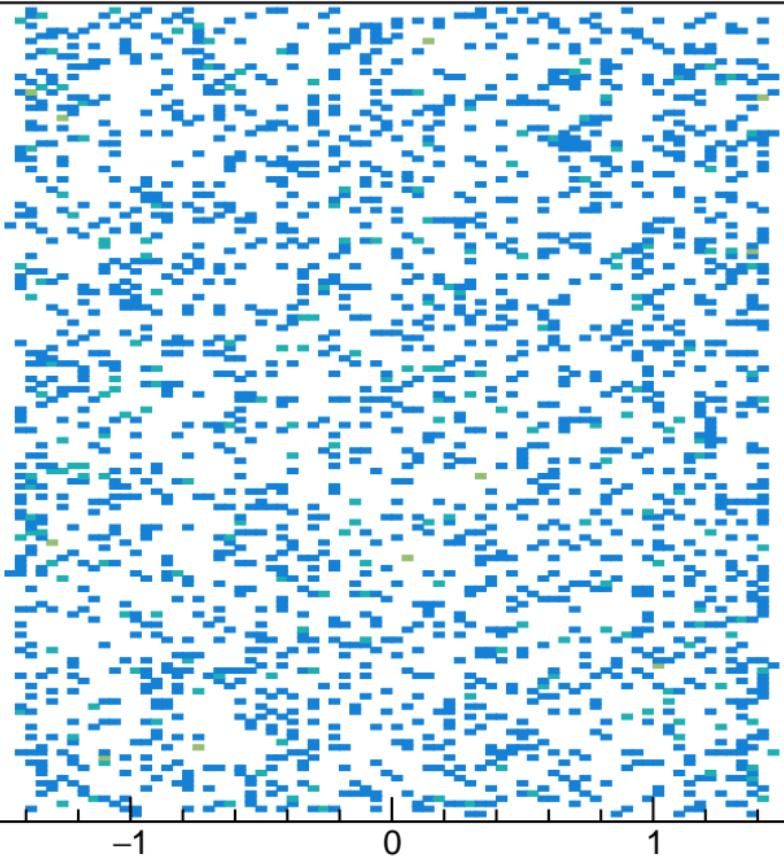
h_elMap_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2	
Entries	16307
Mean x	0.01212
Mean y	-0.01117
Std Dev x	1.155
Std Dev y	1.809



IsoMu24

Electron ϕ

3
2
1
0
-1
-2
-3



h_elMap_IsoMu24	
Entries	5427
Mean x	0.05773
Mean y	0.03903
Std Dev x	1.623
Std Dev y	1.826

Electron η

3.5
3
2.5
2
1.5
1
0.5
0

Total Number of Accepted Events

