

**On-line (pre-)selection Requisites for:**

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

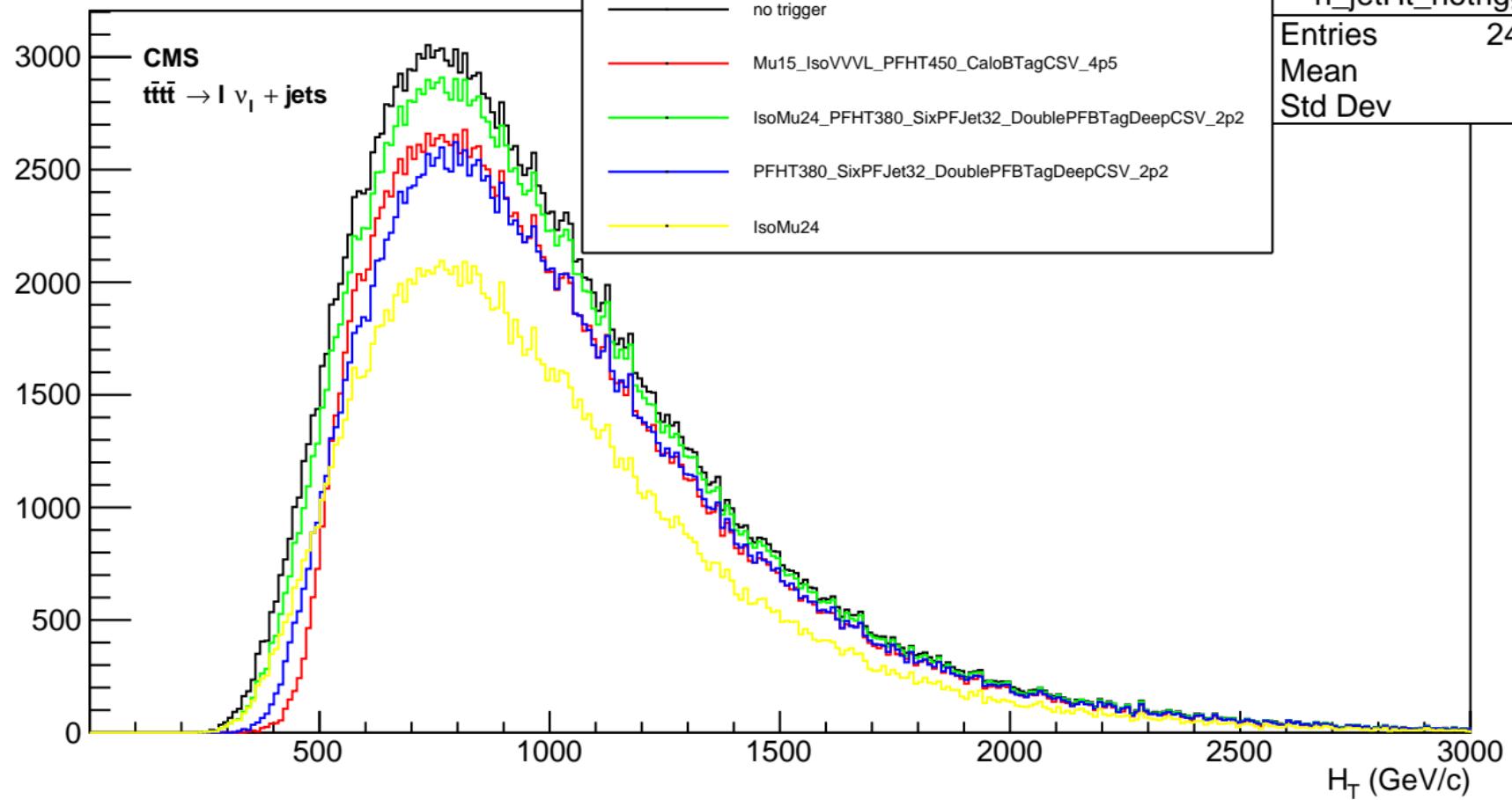
**Event Limit:** None (see last page)

**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)

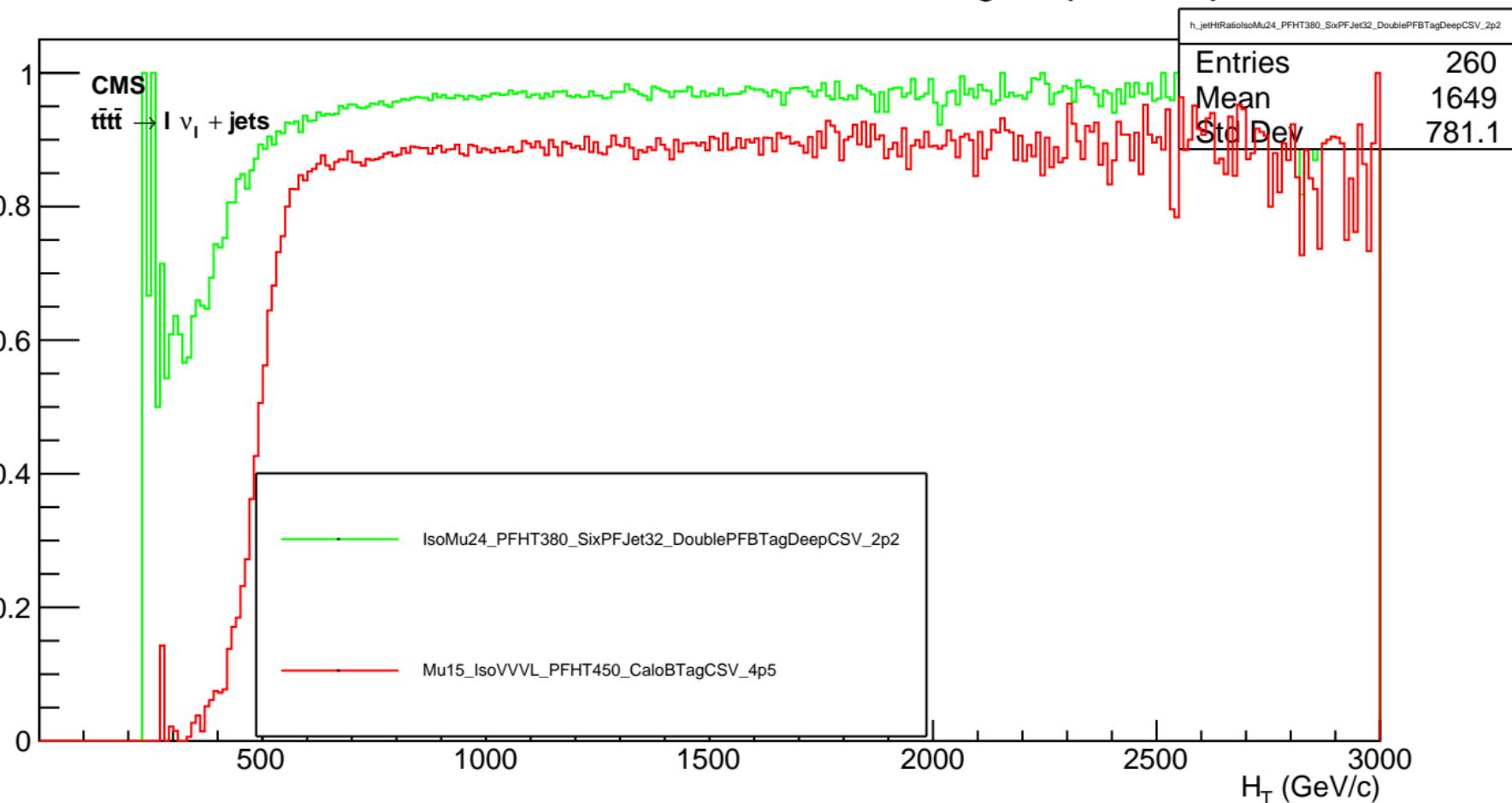
# no trigger

Number of Events per 10 GeV/c



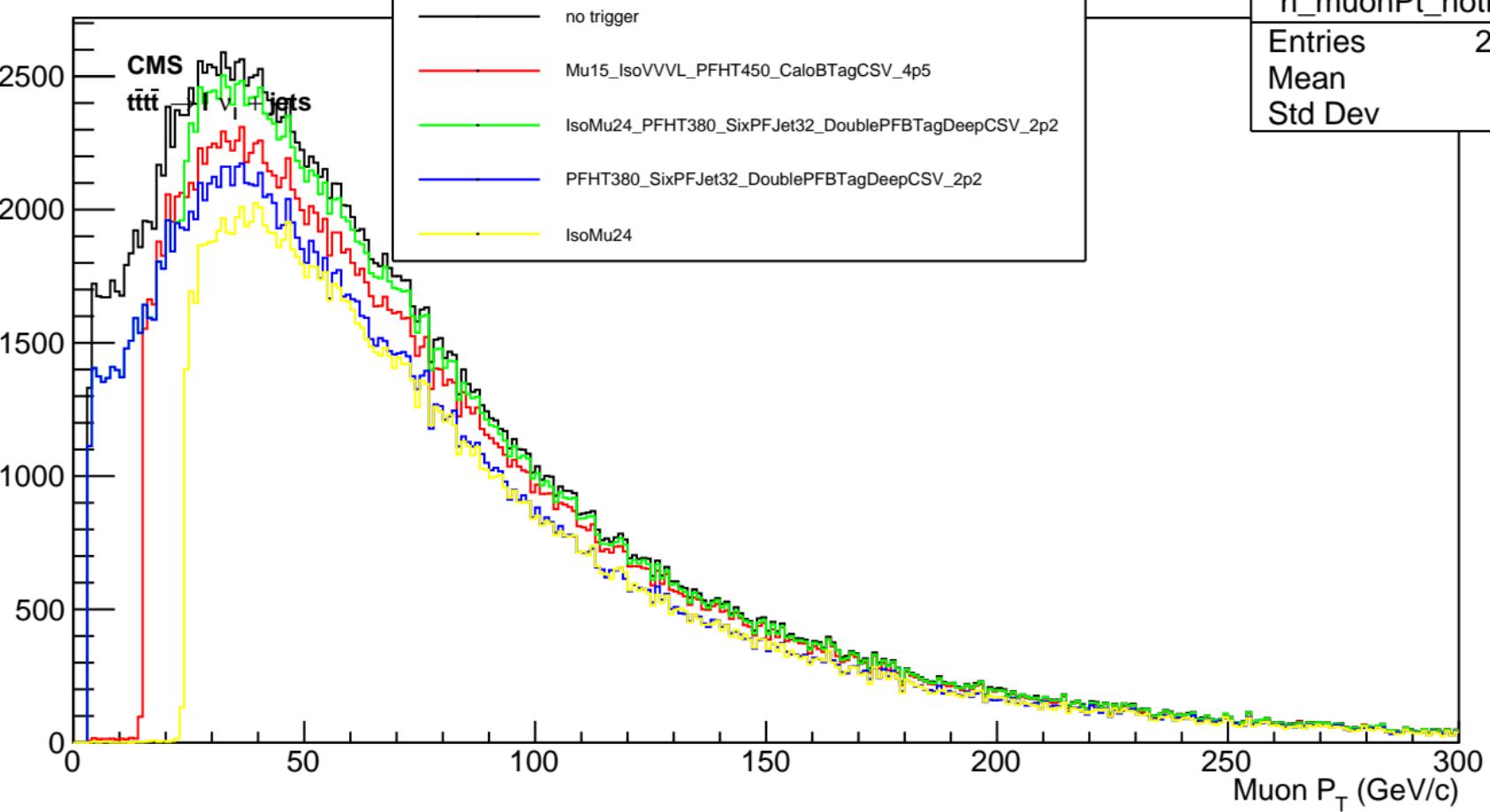
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

Number of Events per 10 GeV/c



# no trigger

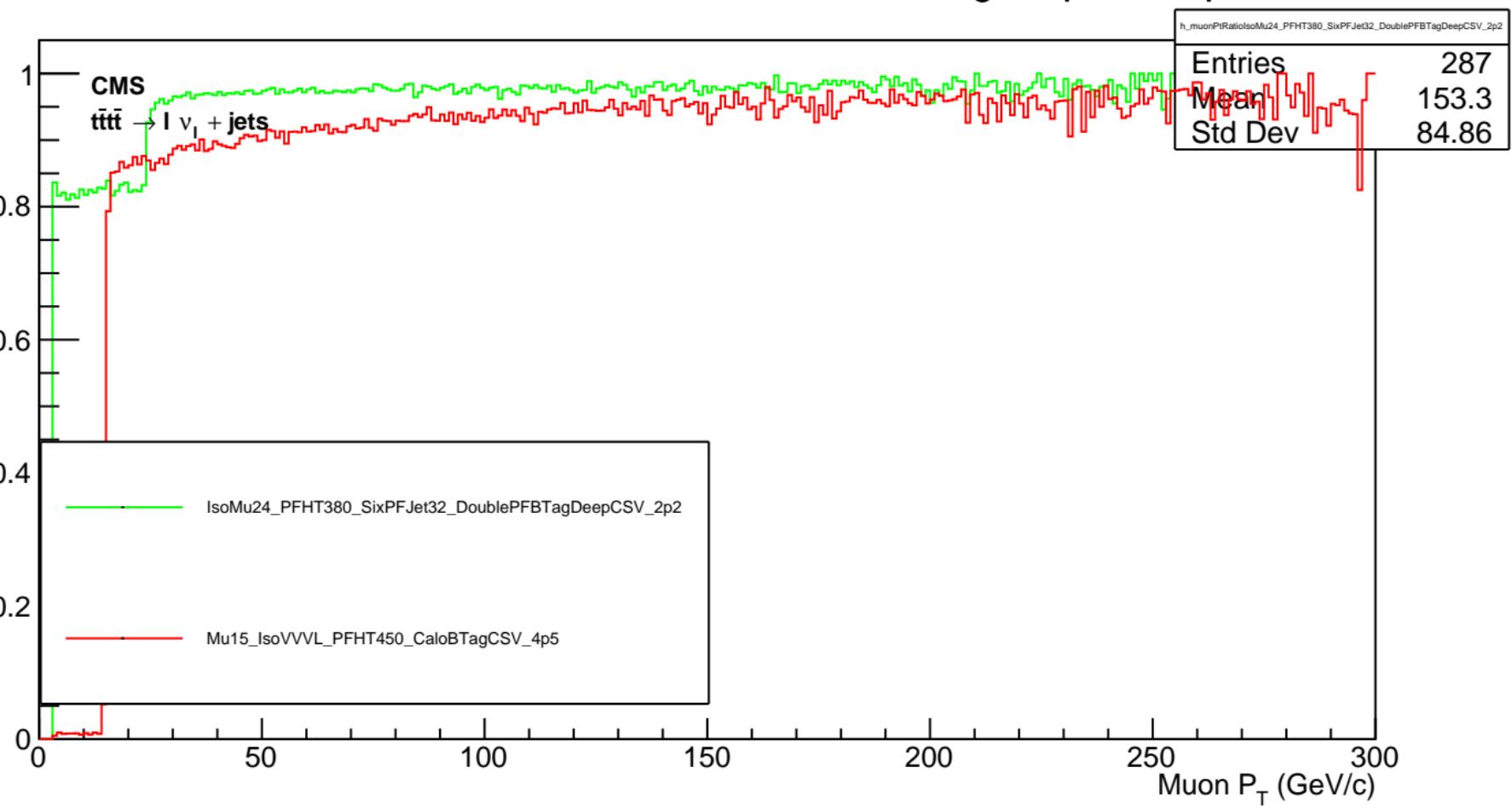
Number of Events per 1 GeV/c



h_muonPt_notrigger	
Entries	247736
Mean	73.34
Std Dev	55.88

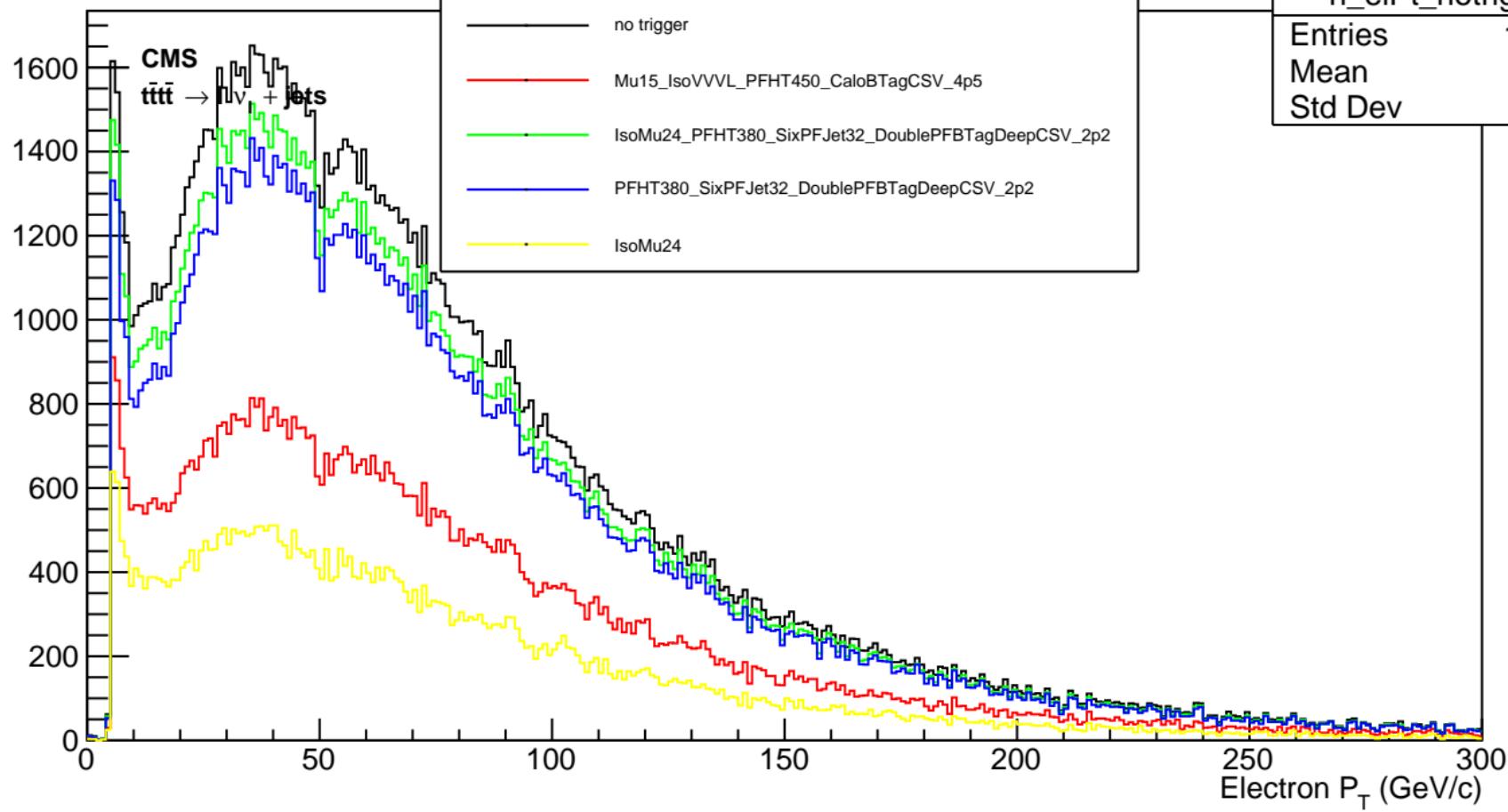
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

Number of Events per 1 GeV/c



# no trigger

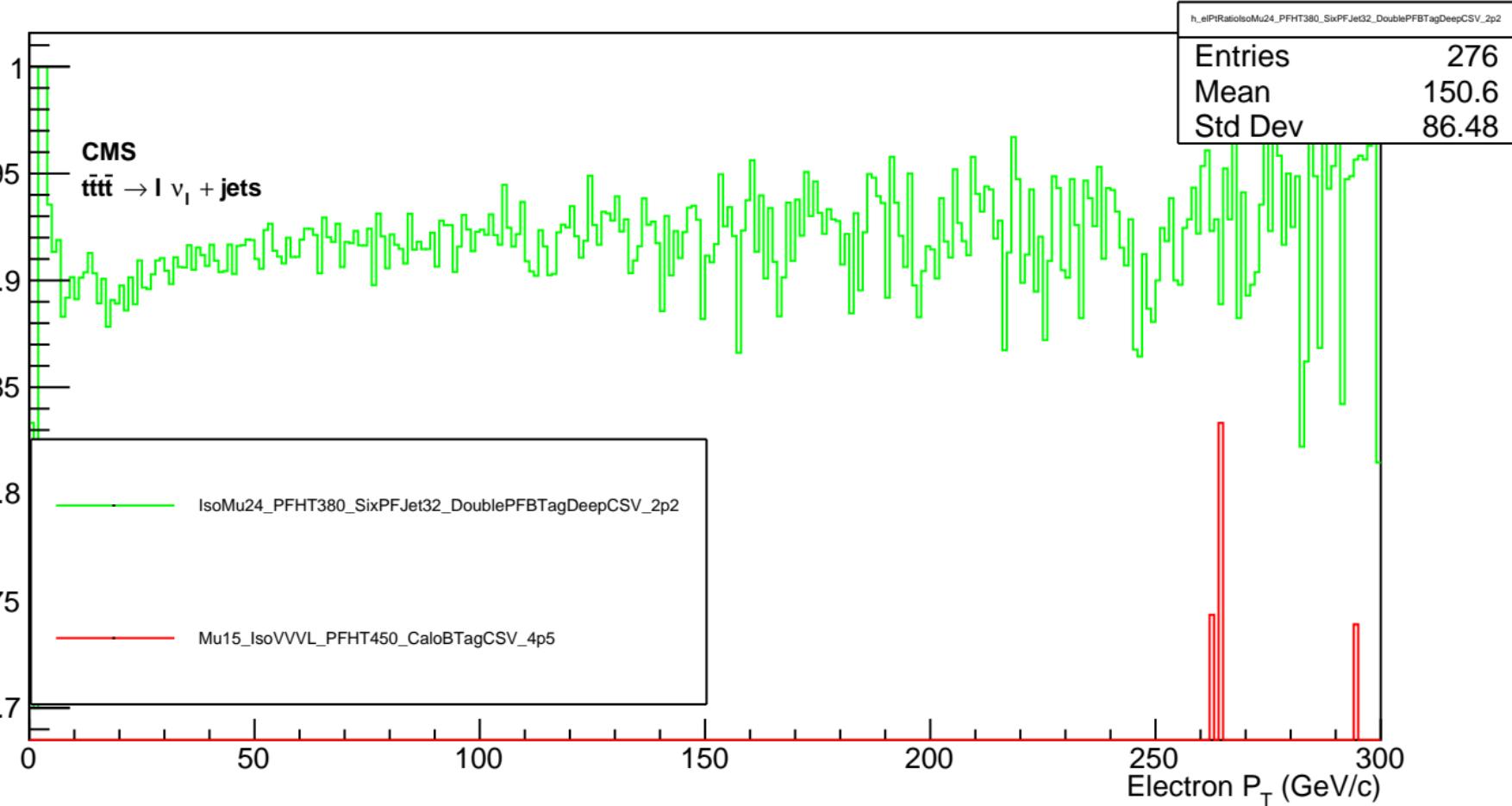
Number of Events per 1 GeV/c



h_elPt_notrigger	
Entries	159861
Mean	75.07
Std Dev	54.78

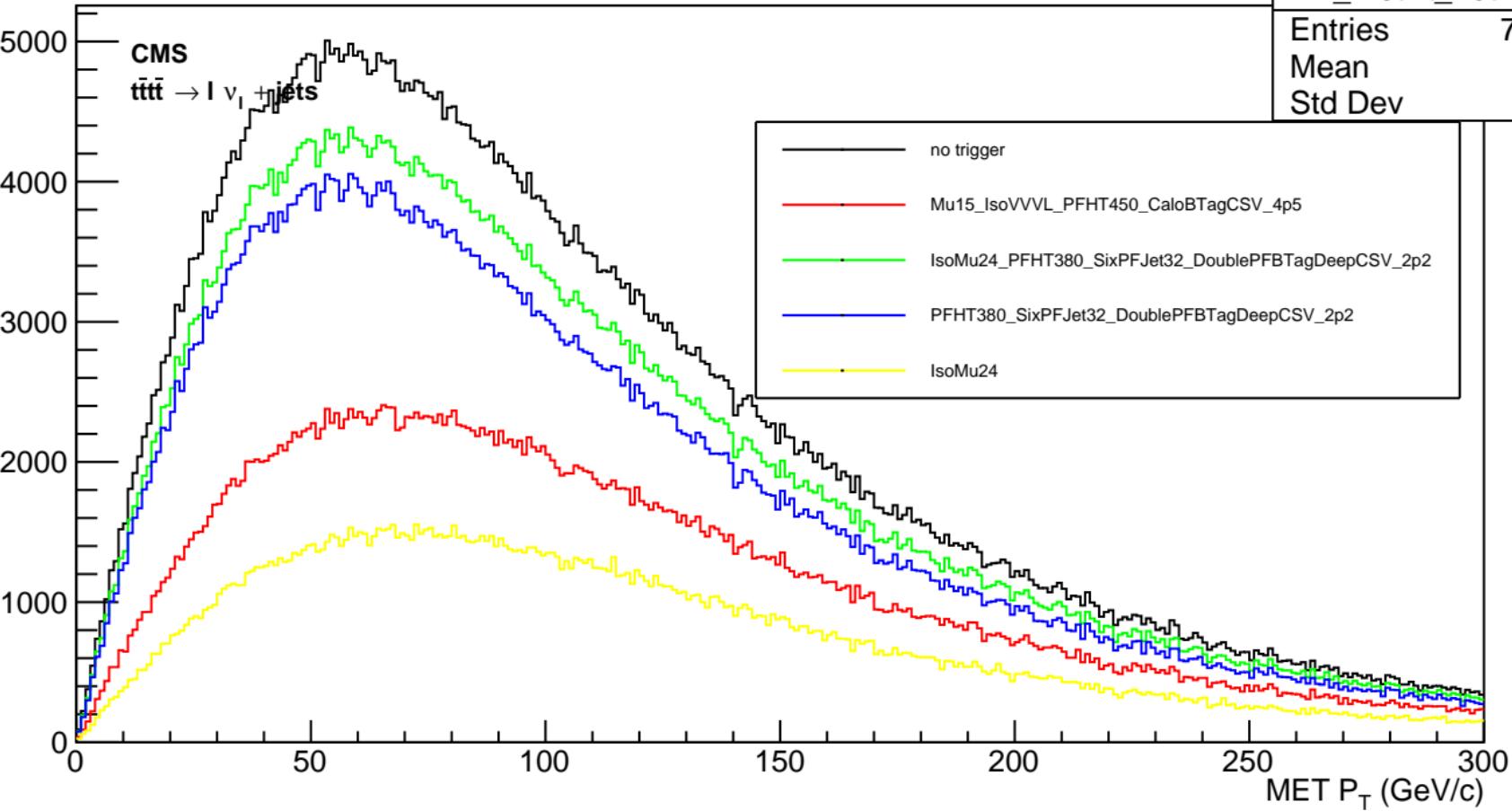
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

Number of Events per 1 GeV/c



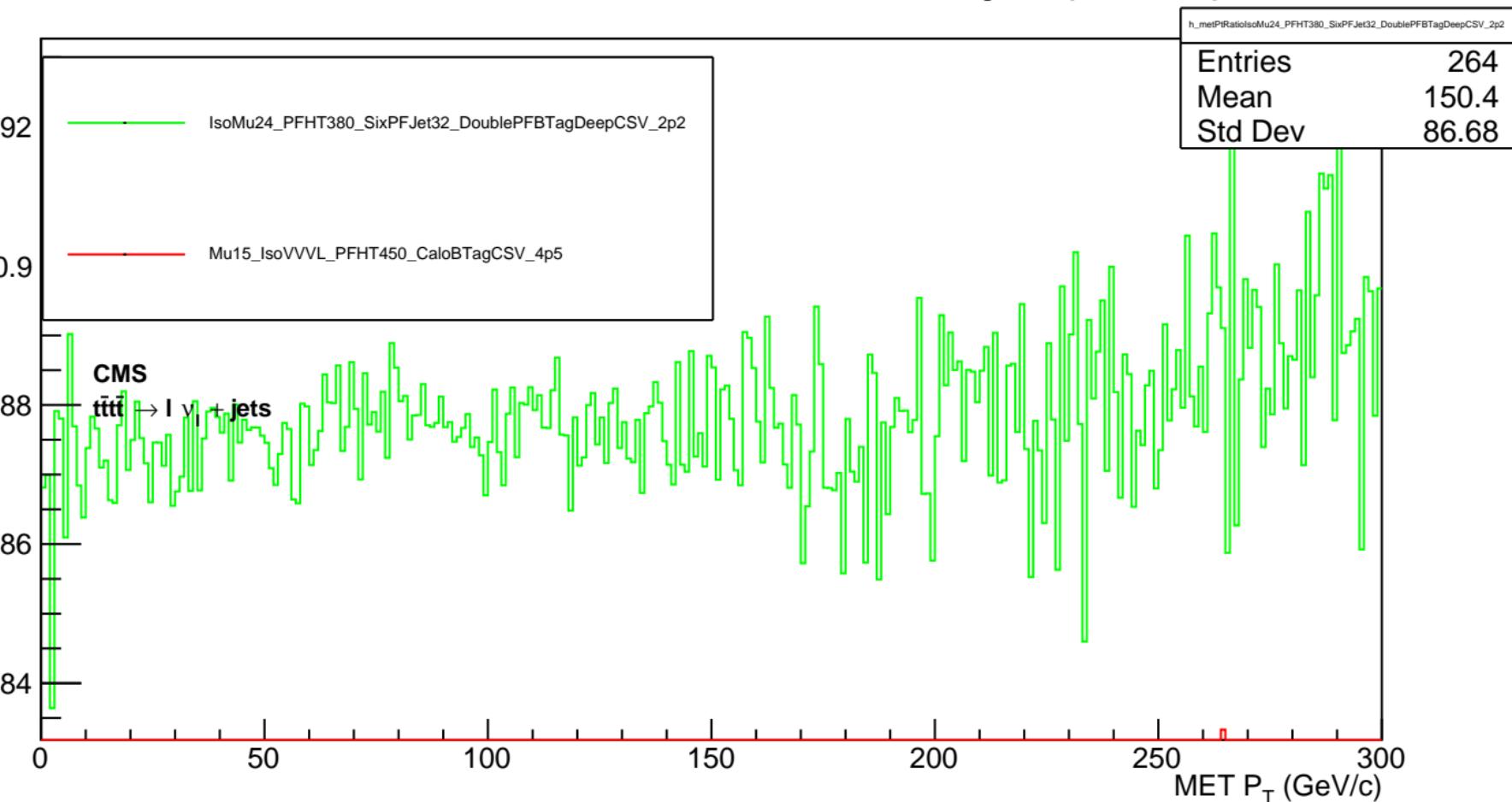
# no trigger

Number of Events per 1 GeV/c



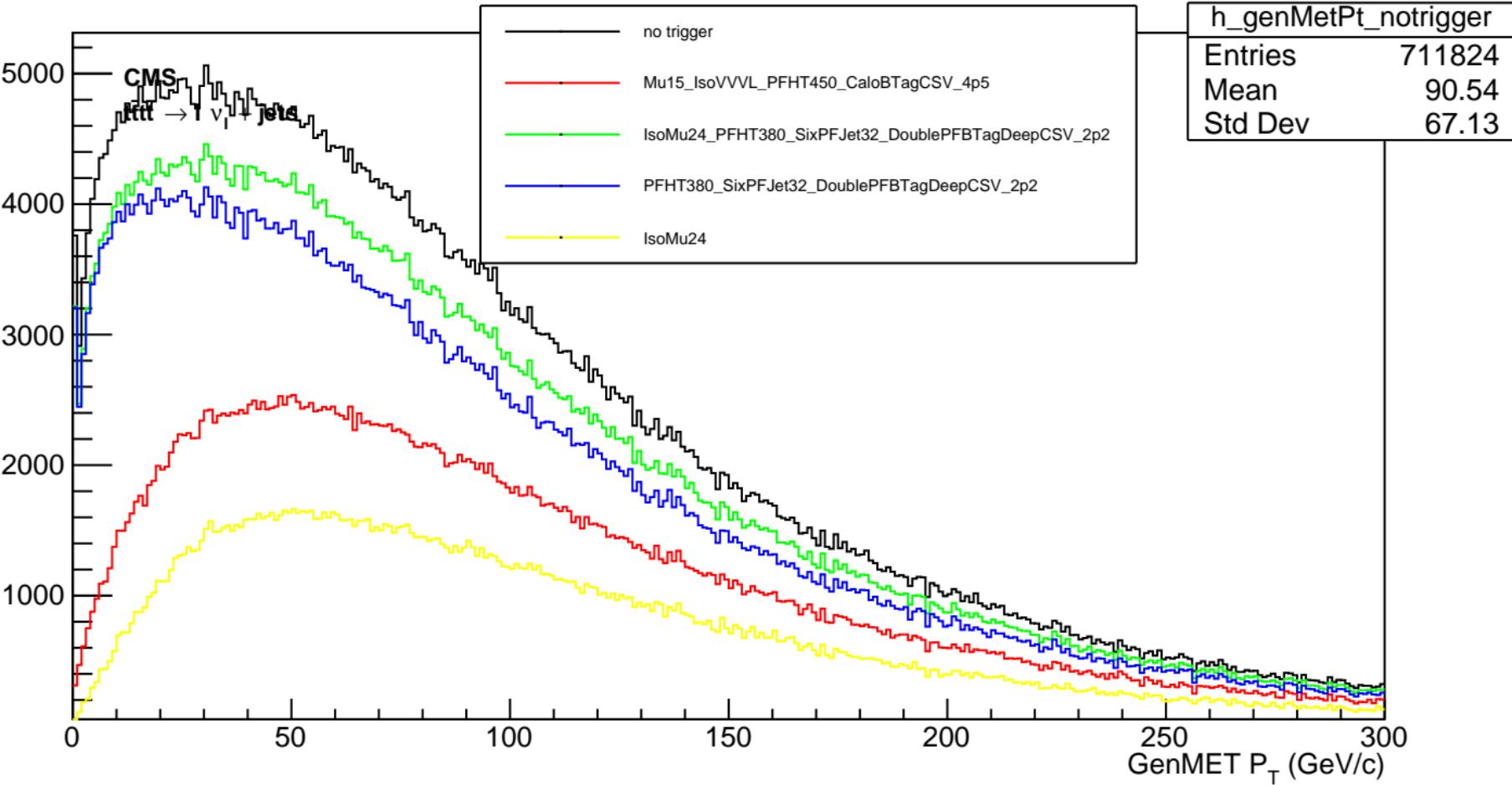
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

Number of Events per 1 GeV/c



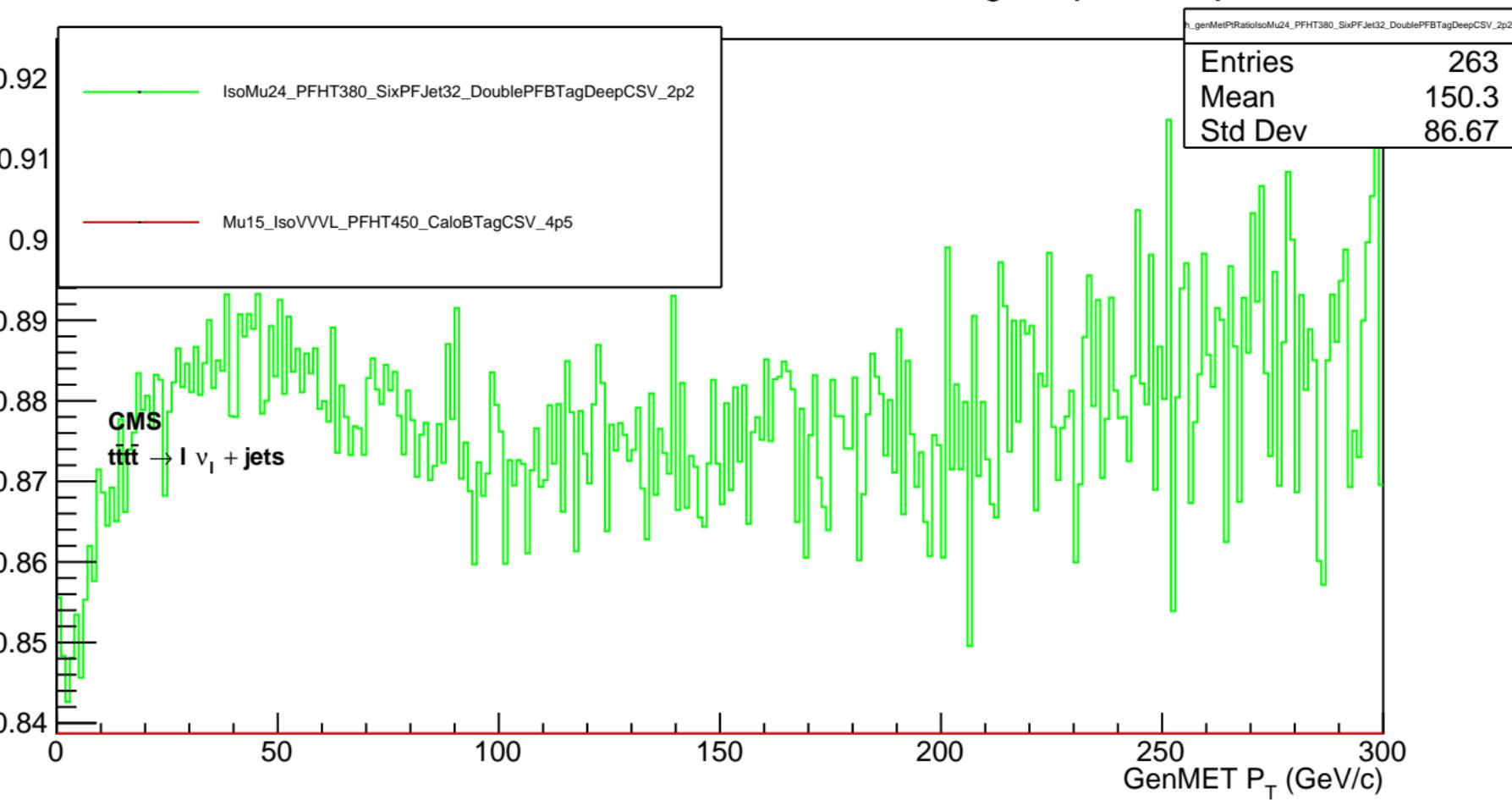
# no trigger

Number of Events per 1GeV/c

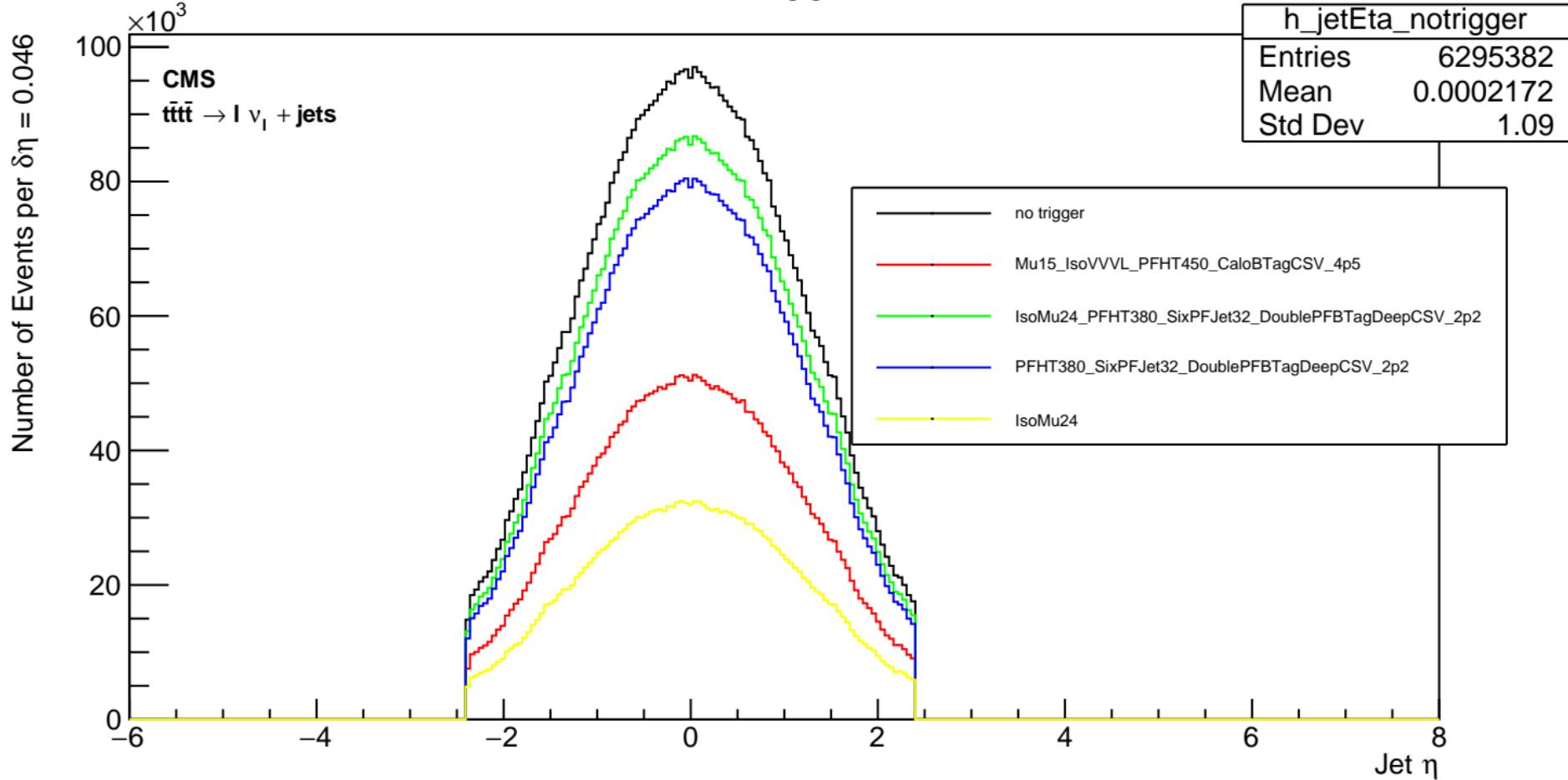


# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

Number of Events per 1 GeV/c



# no trigger



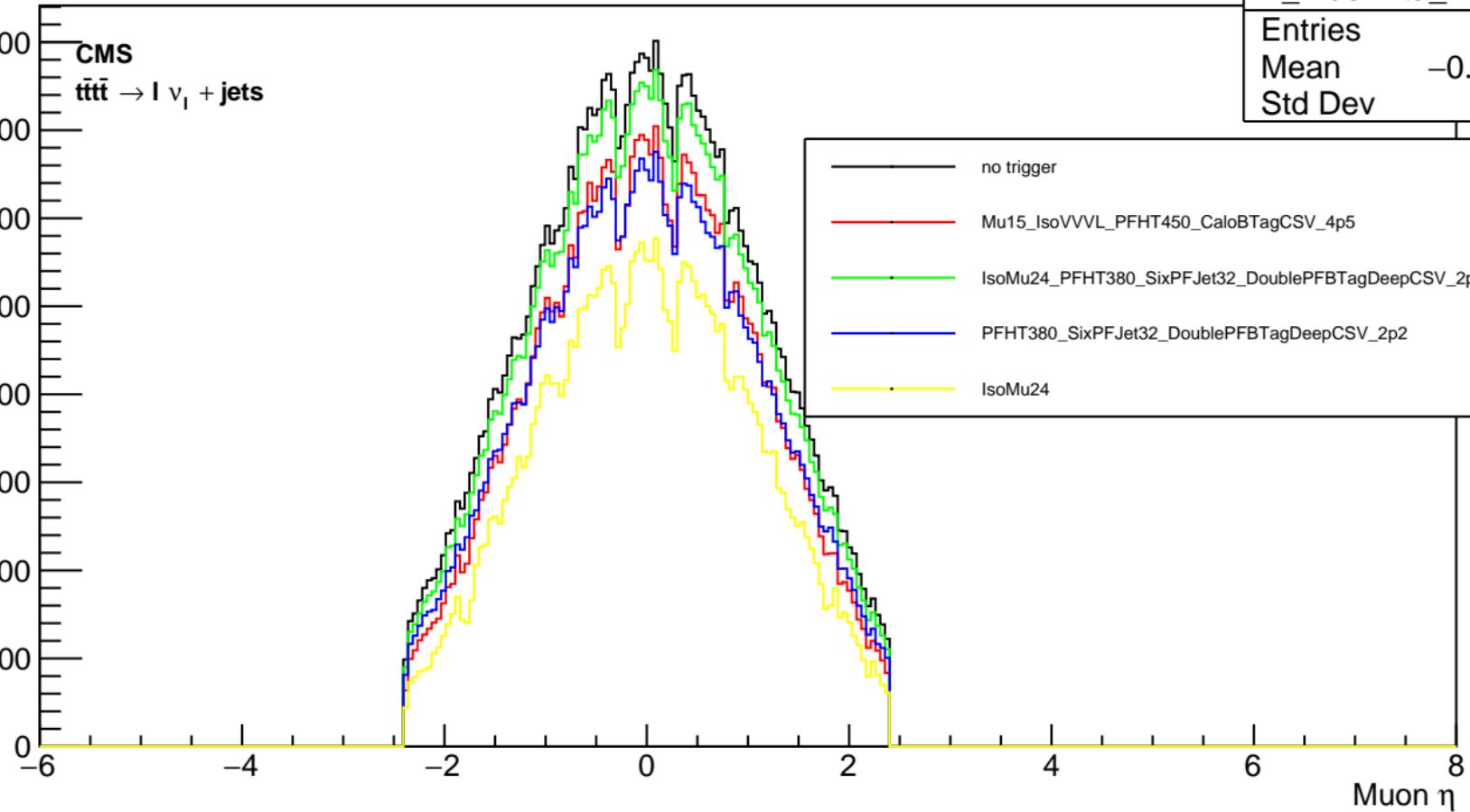
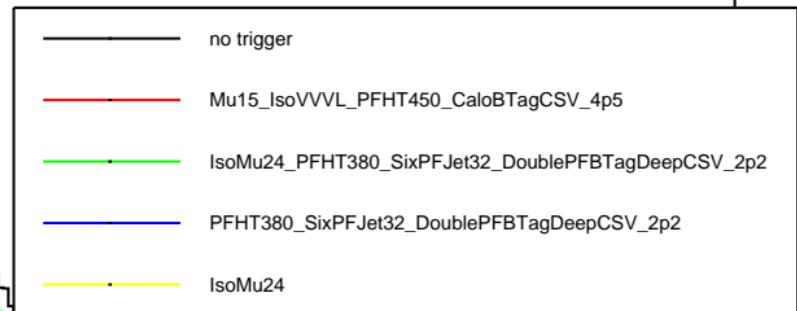
# no trigger

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

CMS

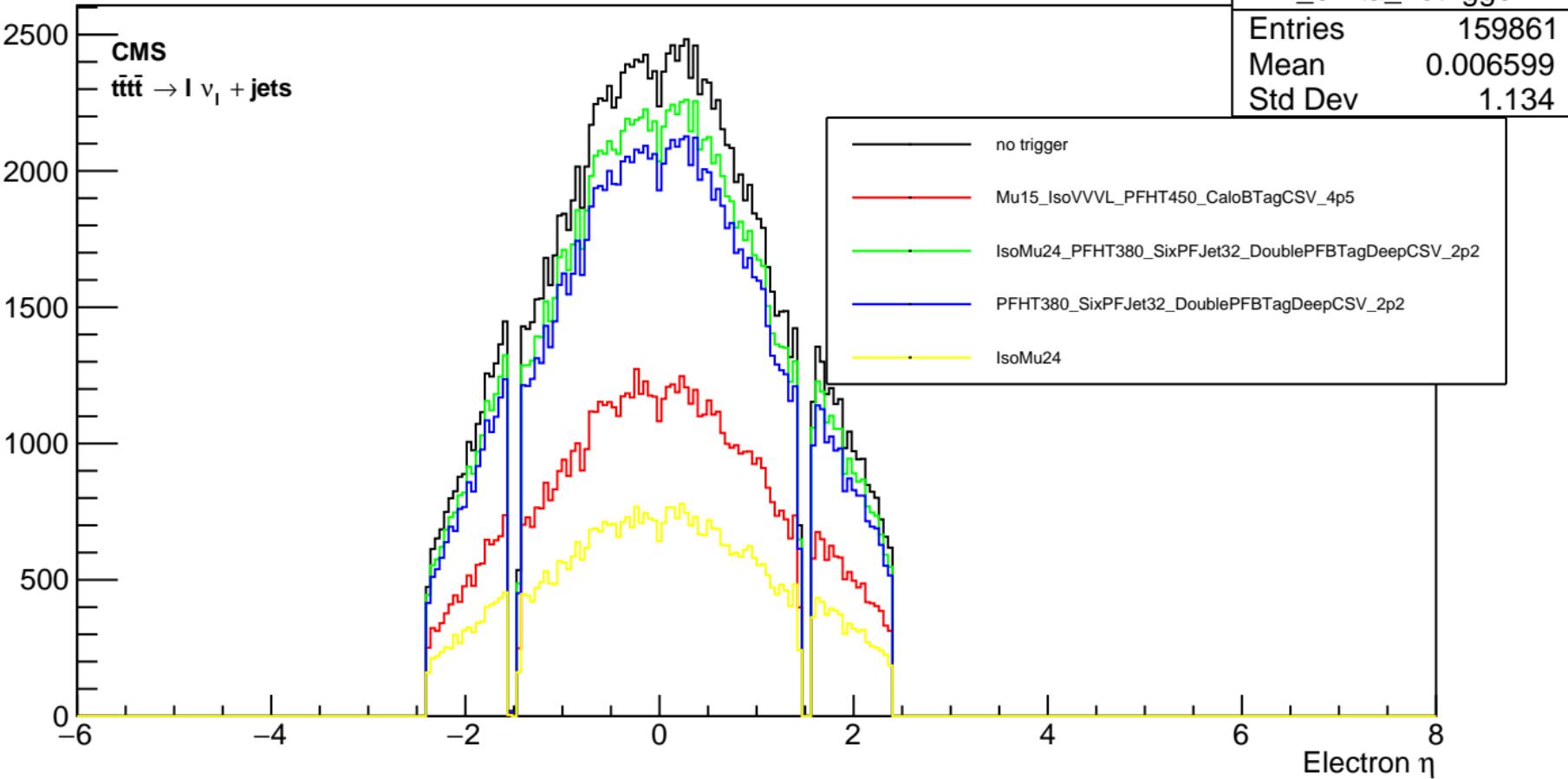
$t\bar{t}t \rightarrow l\nu_l + jets$

h_muonEta_notrigger	
Entries	247736
Mean	-0.000262
Std Dev	1.089

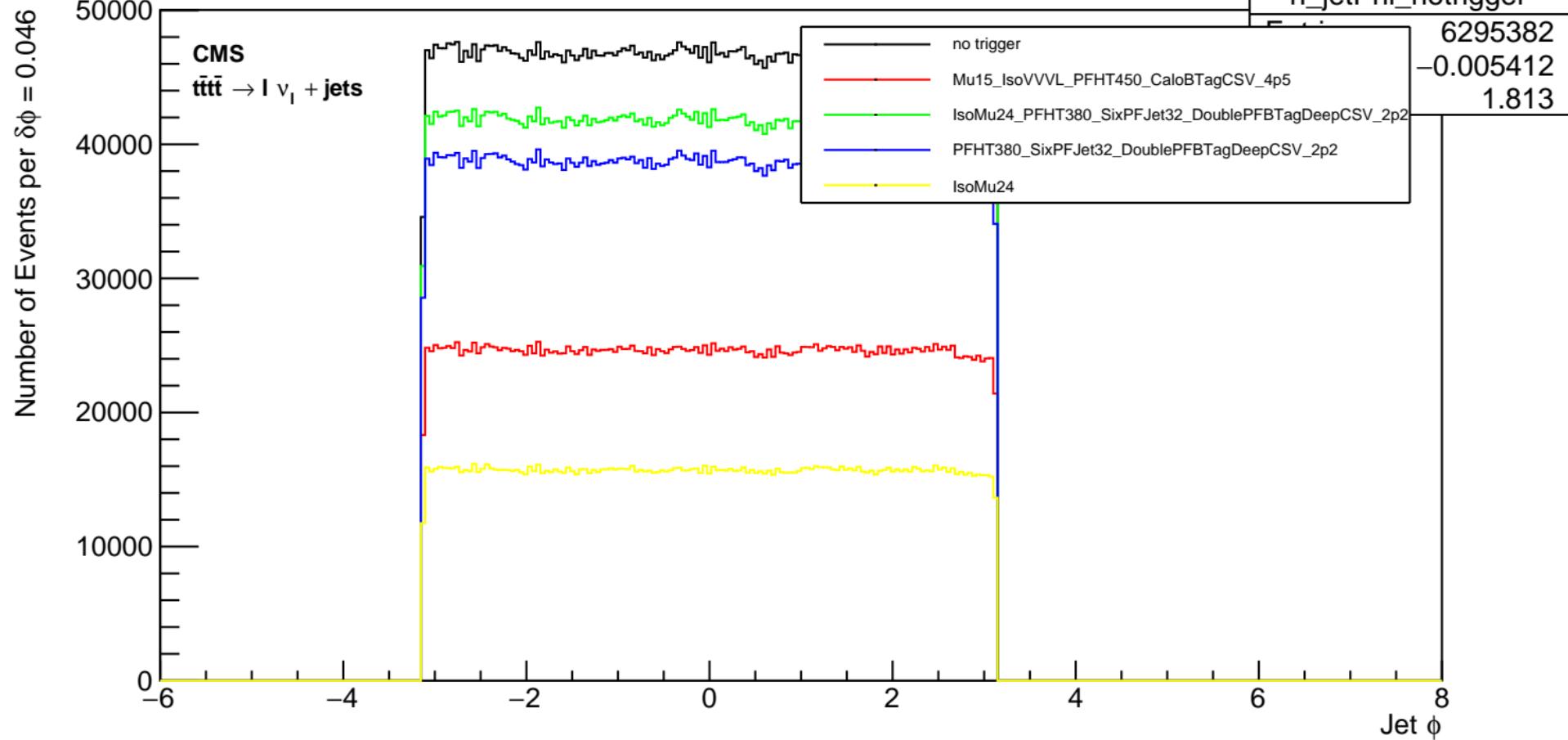


# no trigger

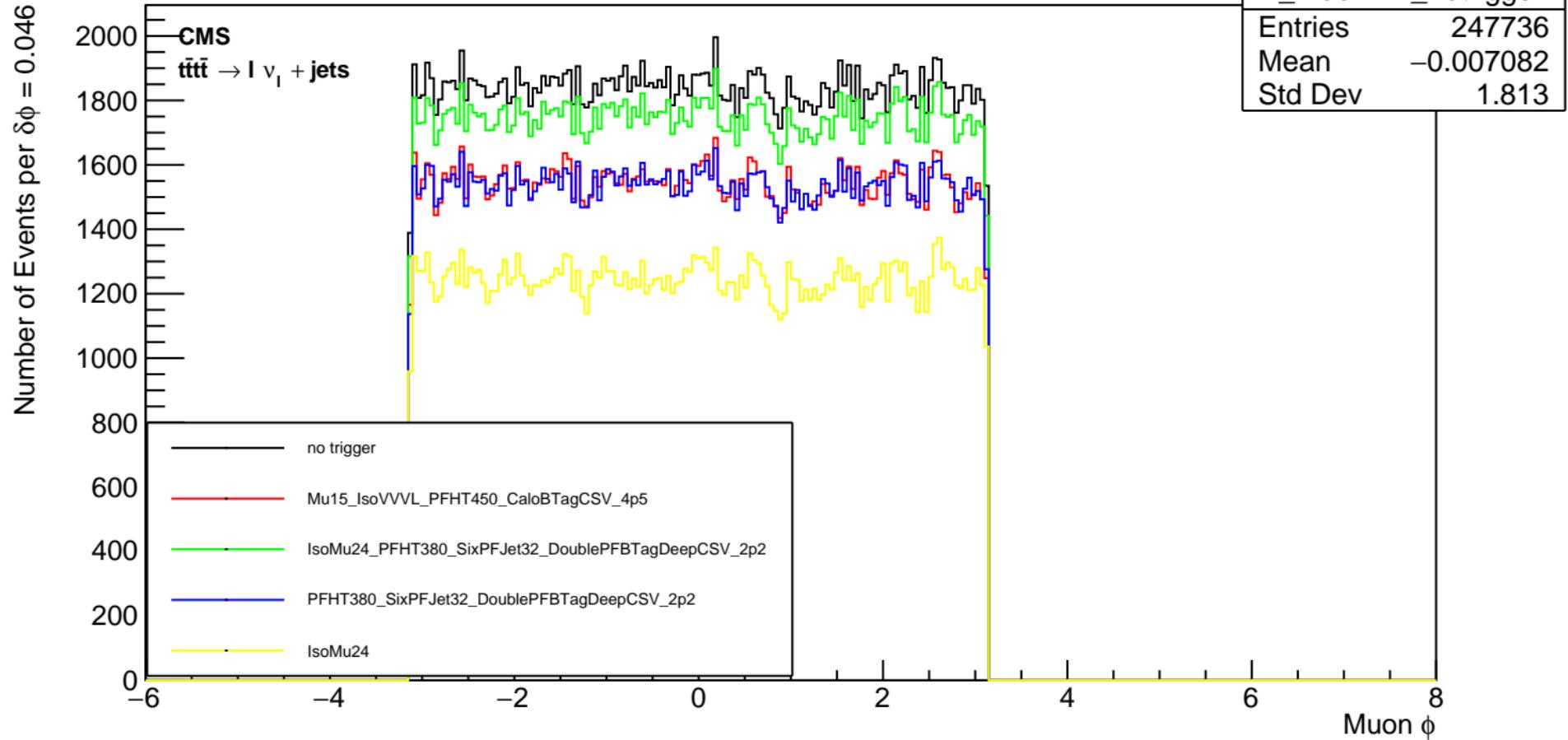
Number of Events per  $\delta\eta = 0.046$



# no trigger

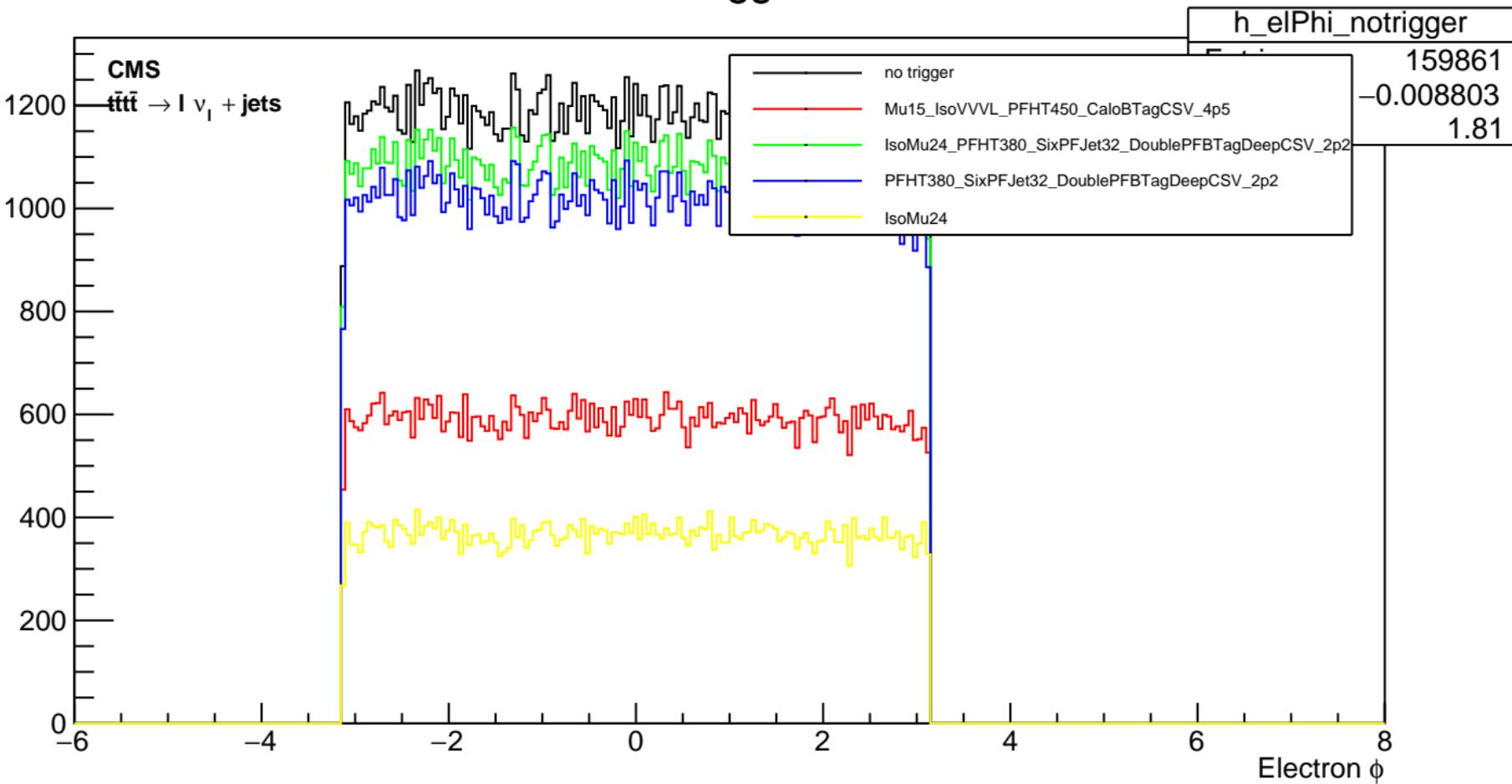


# no trigger

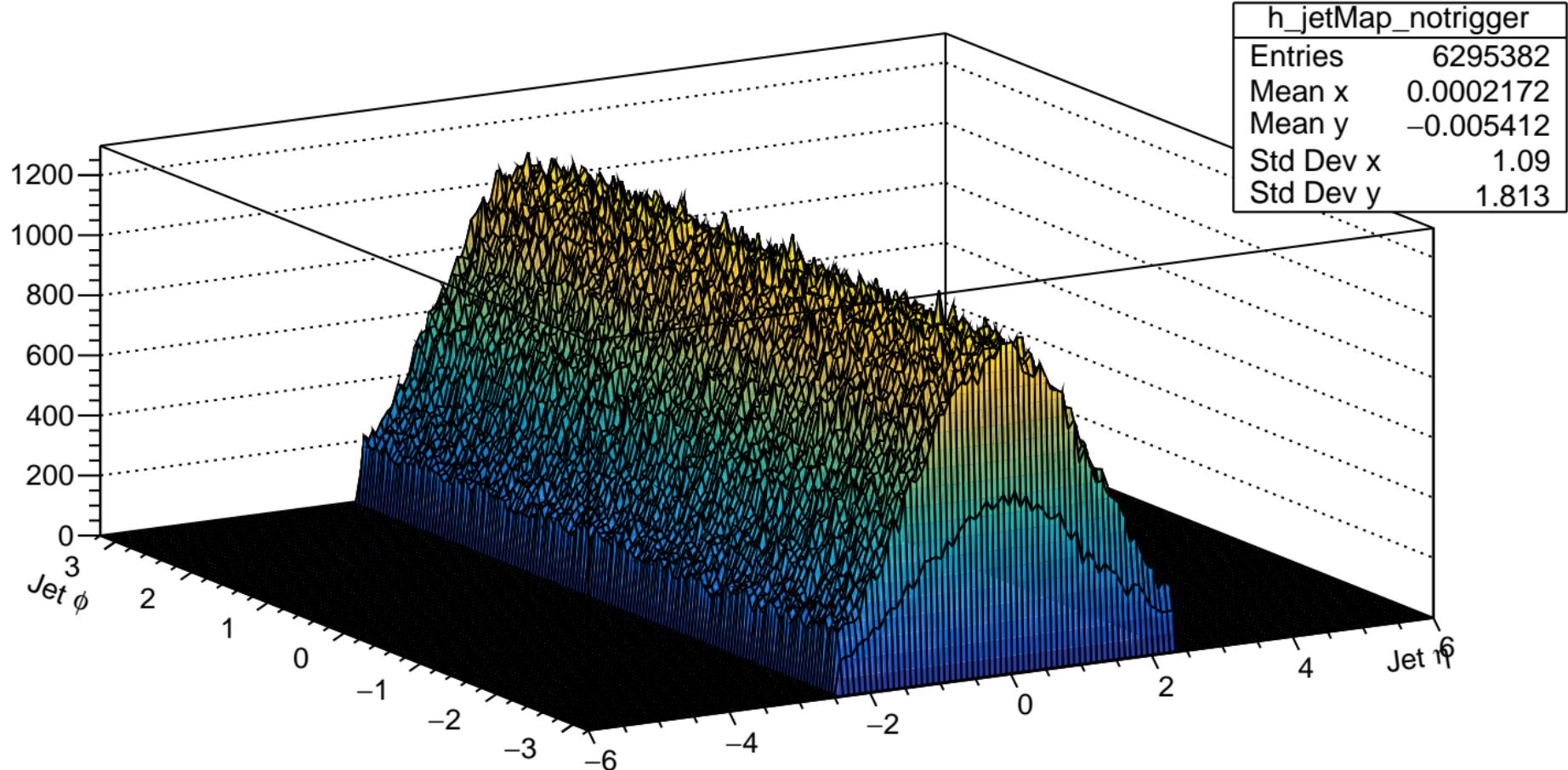


# no trigger

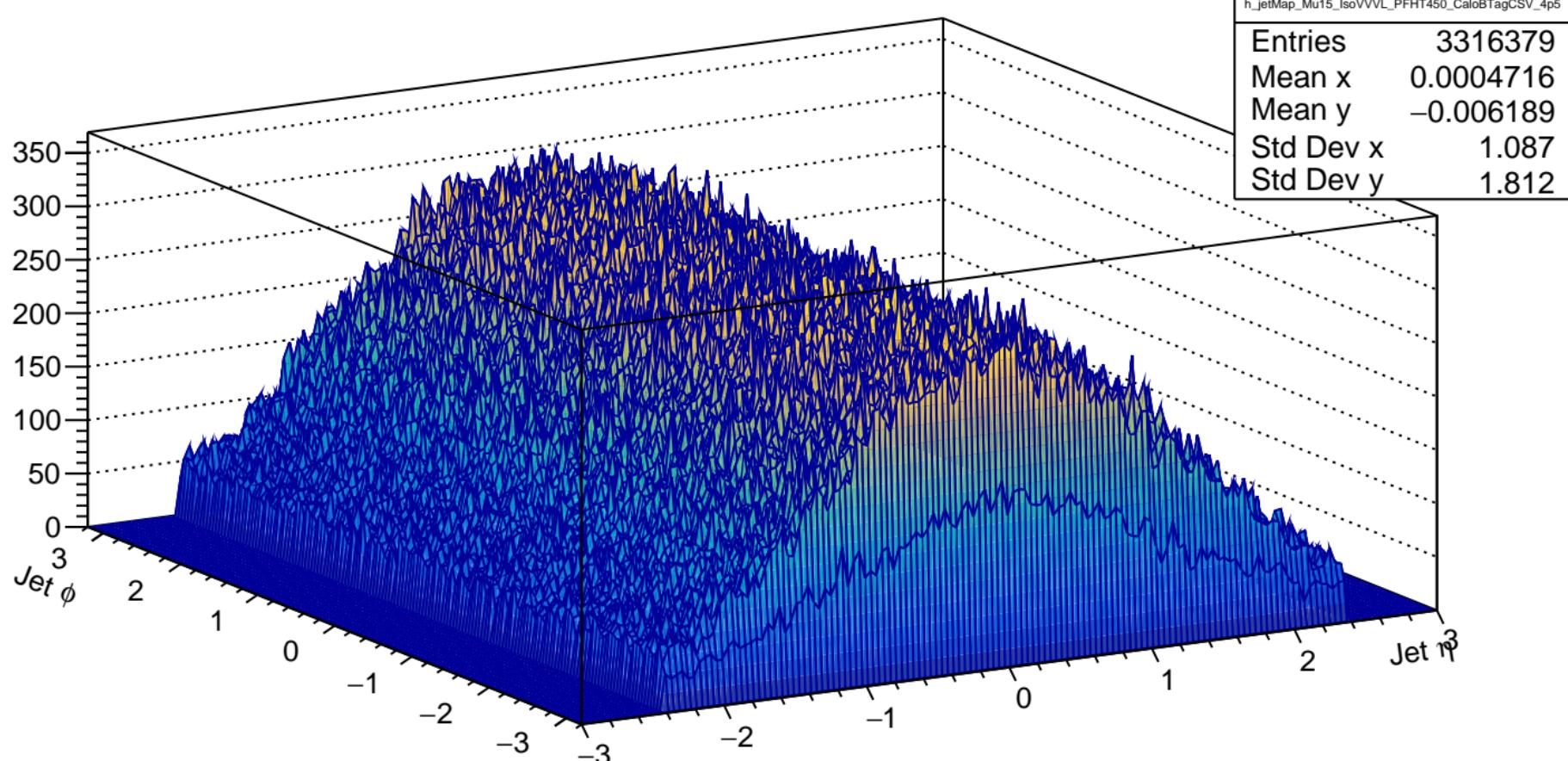
Number of Events per  $\delta\phi = 0.046$



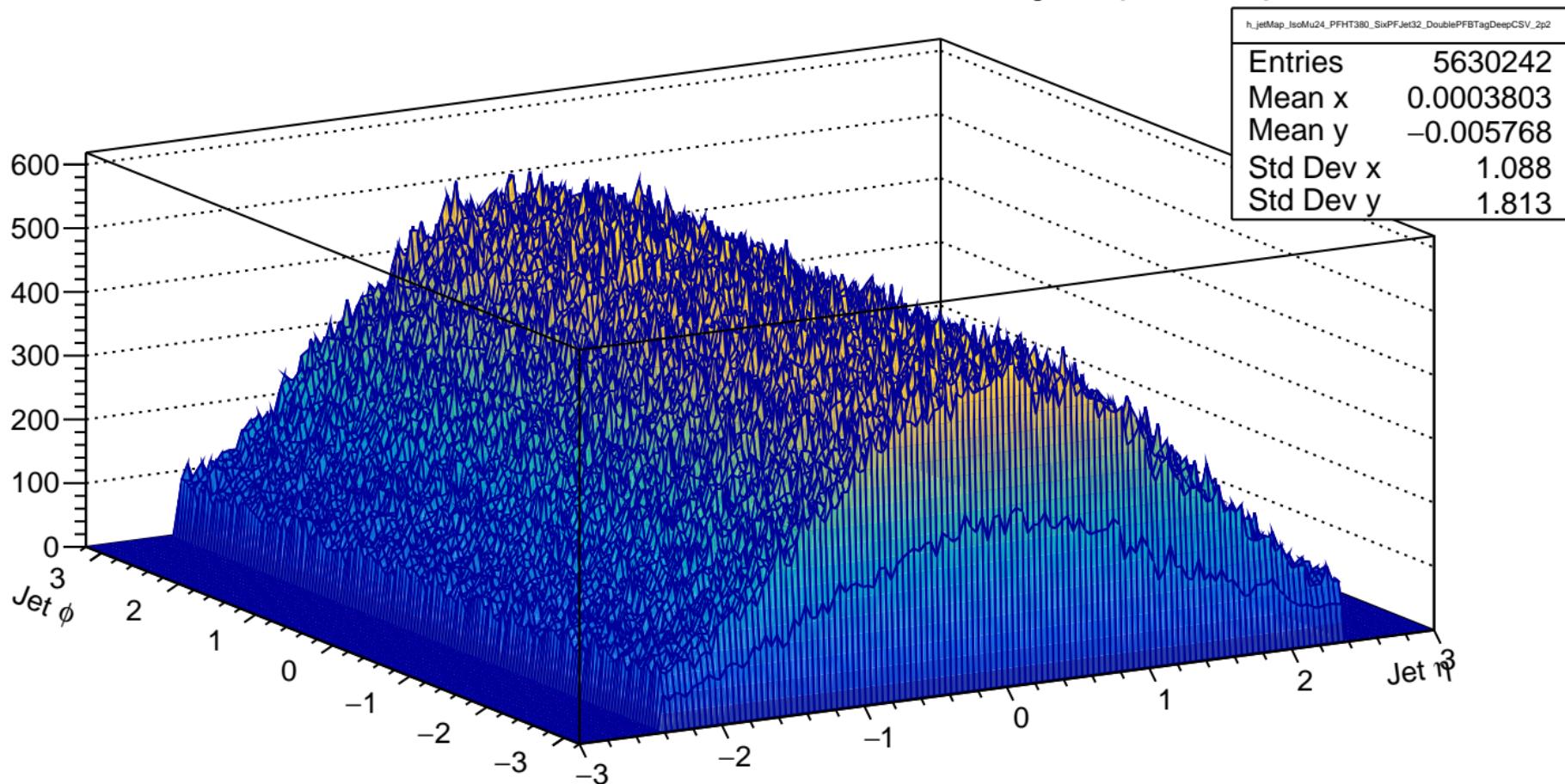
no trigger



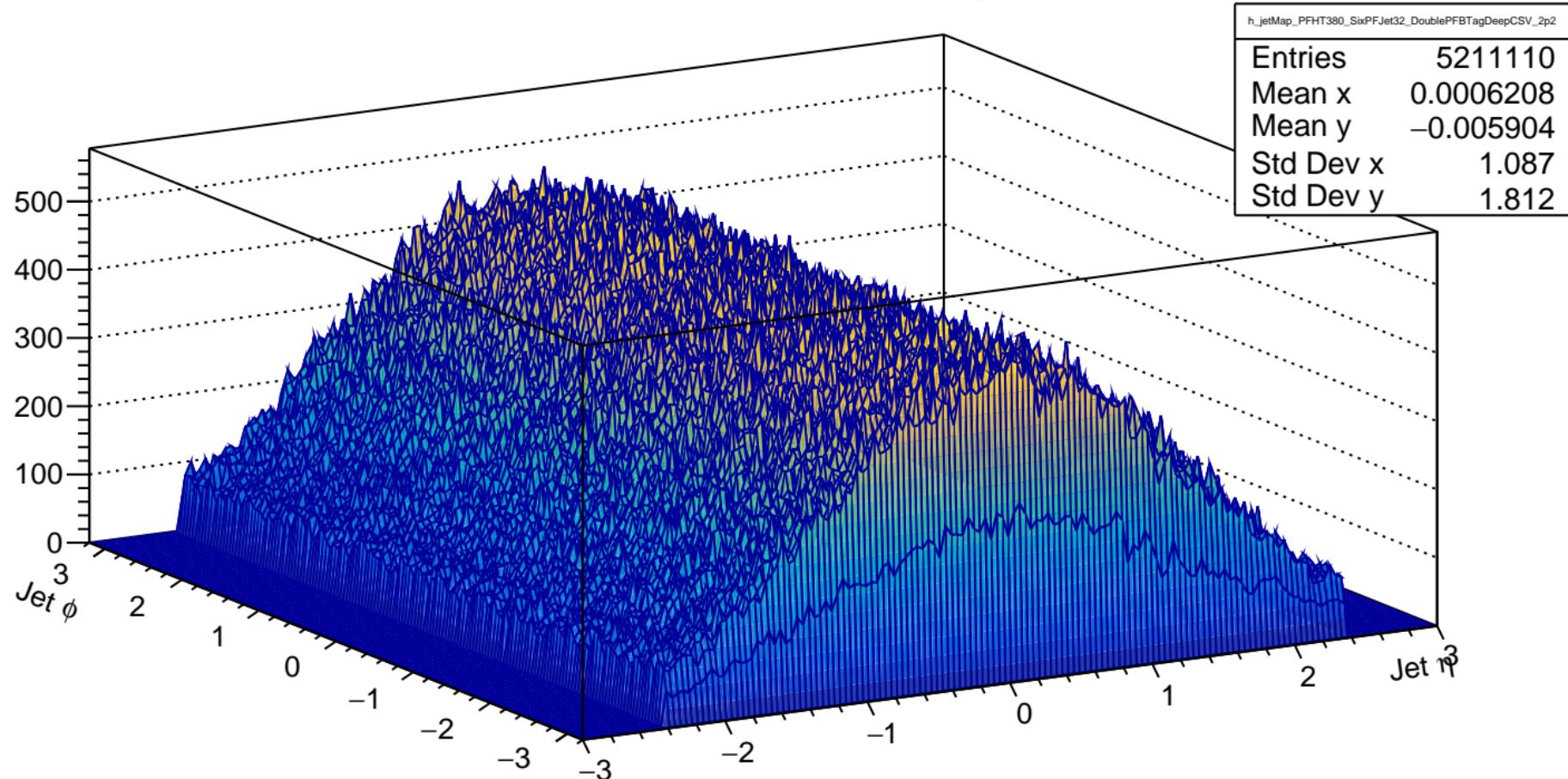
# Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5



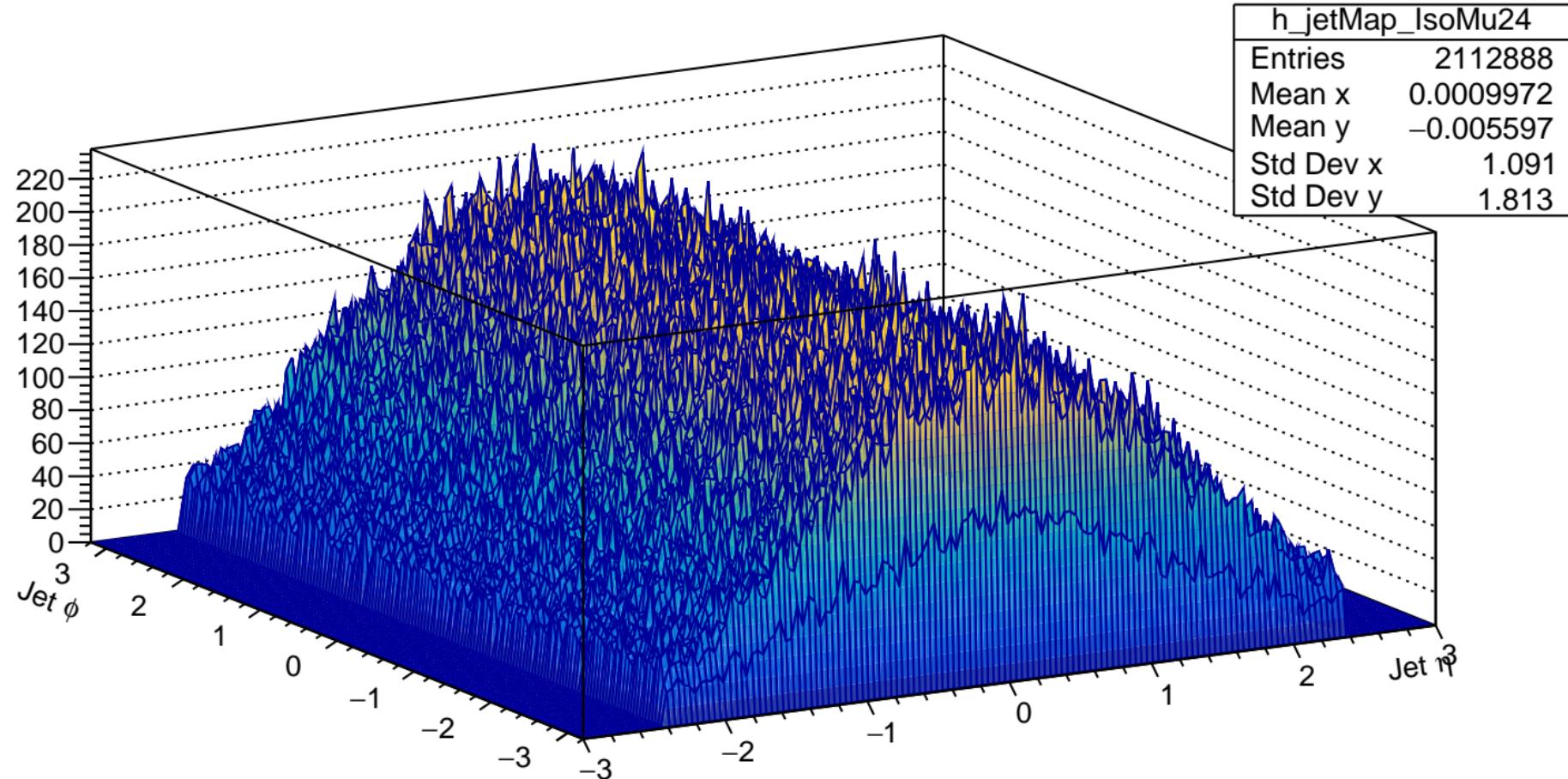
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



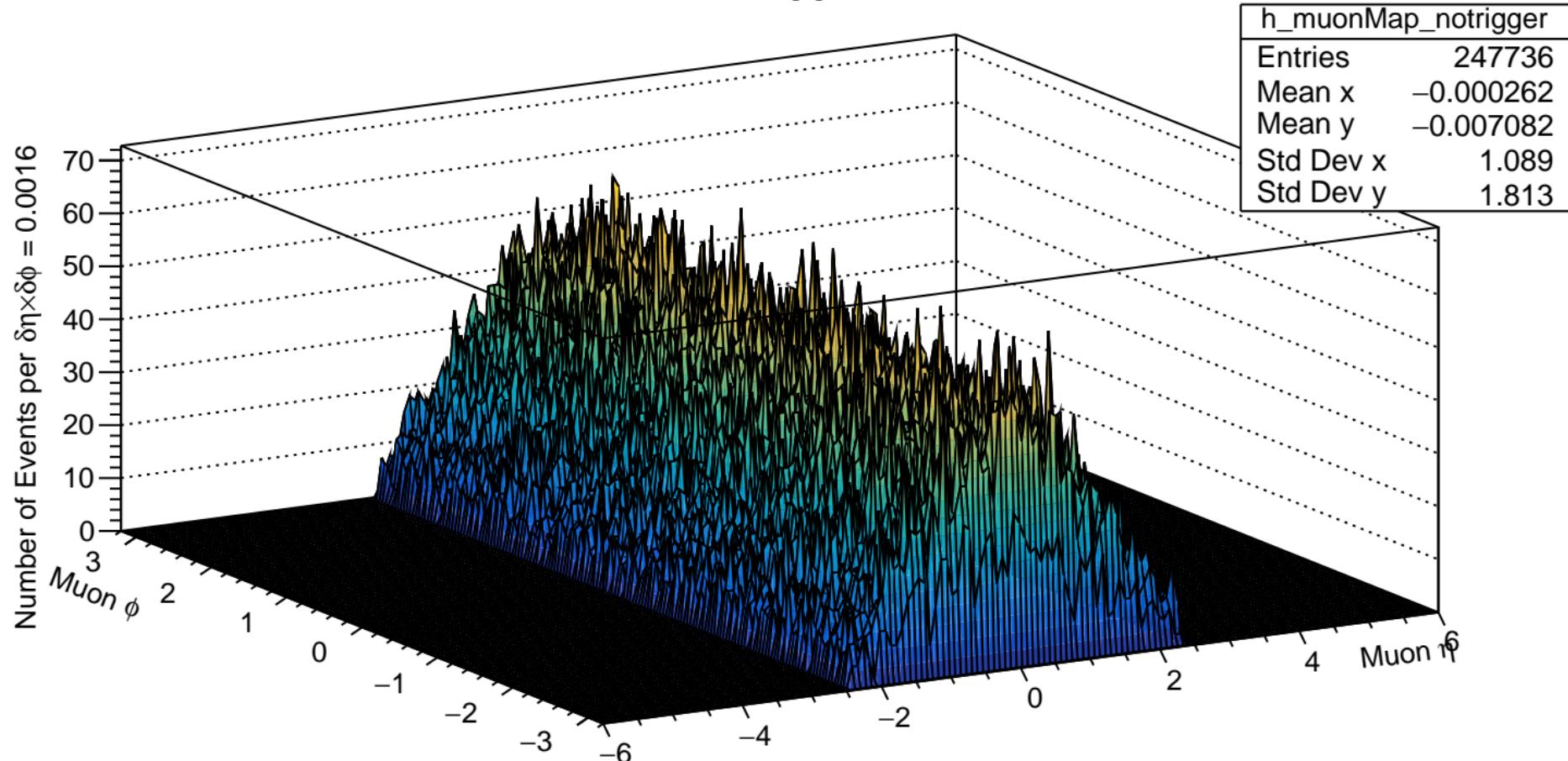
# PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



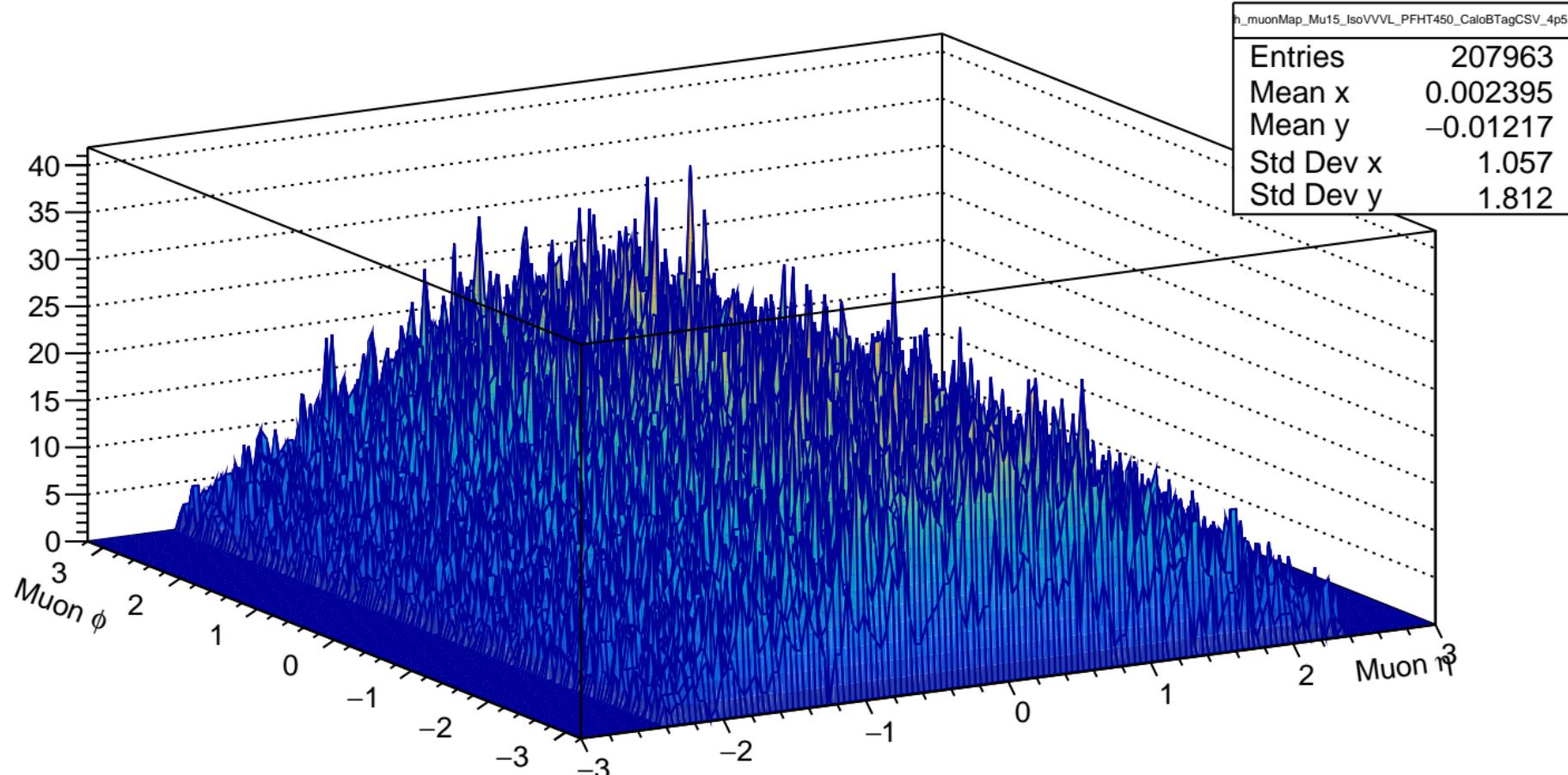
# IsoMu24



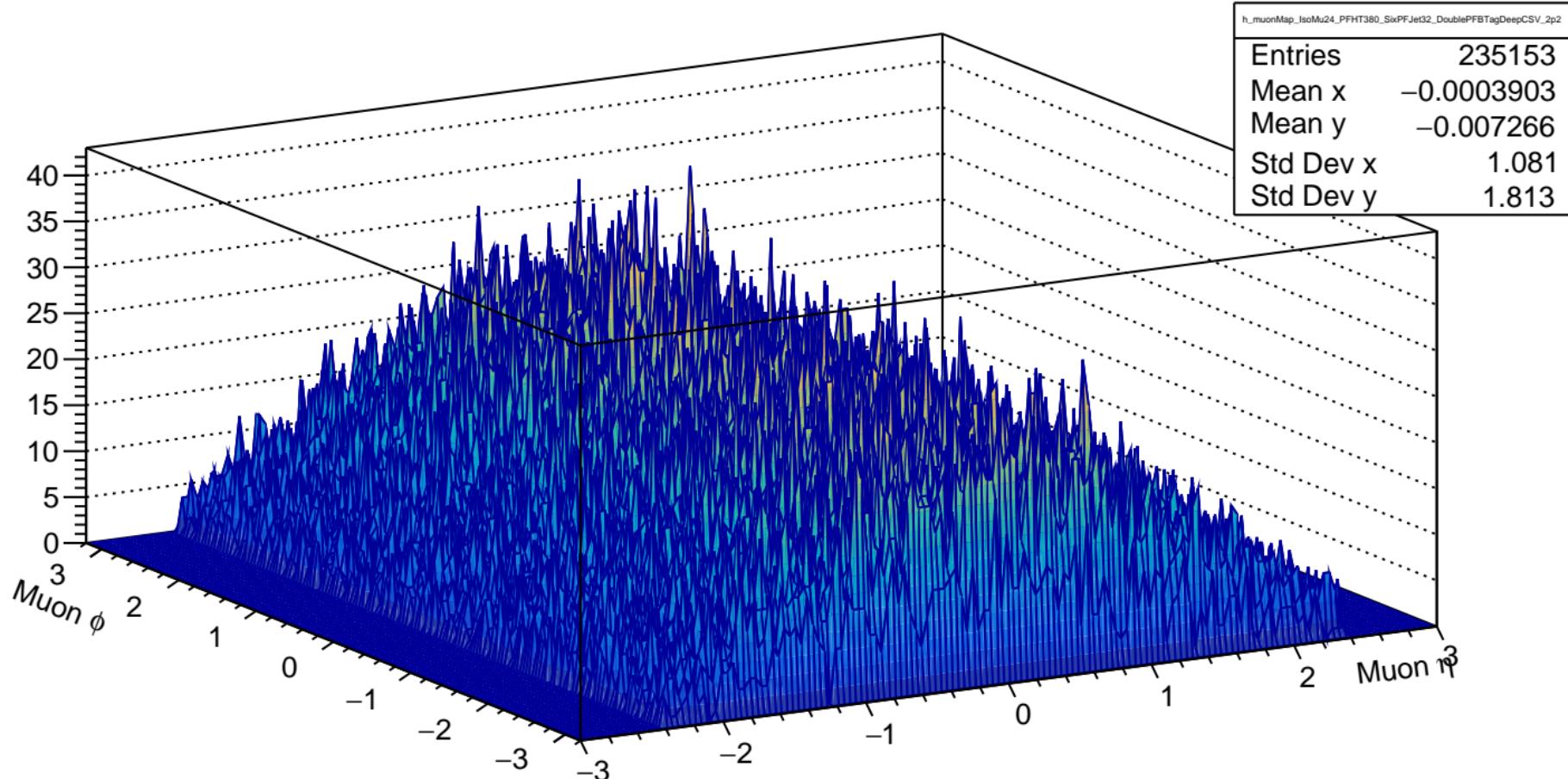
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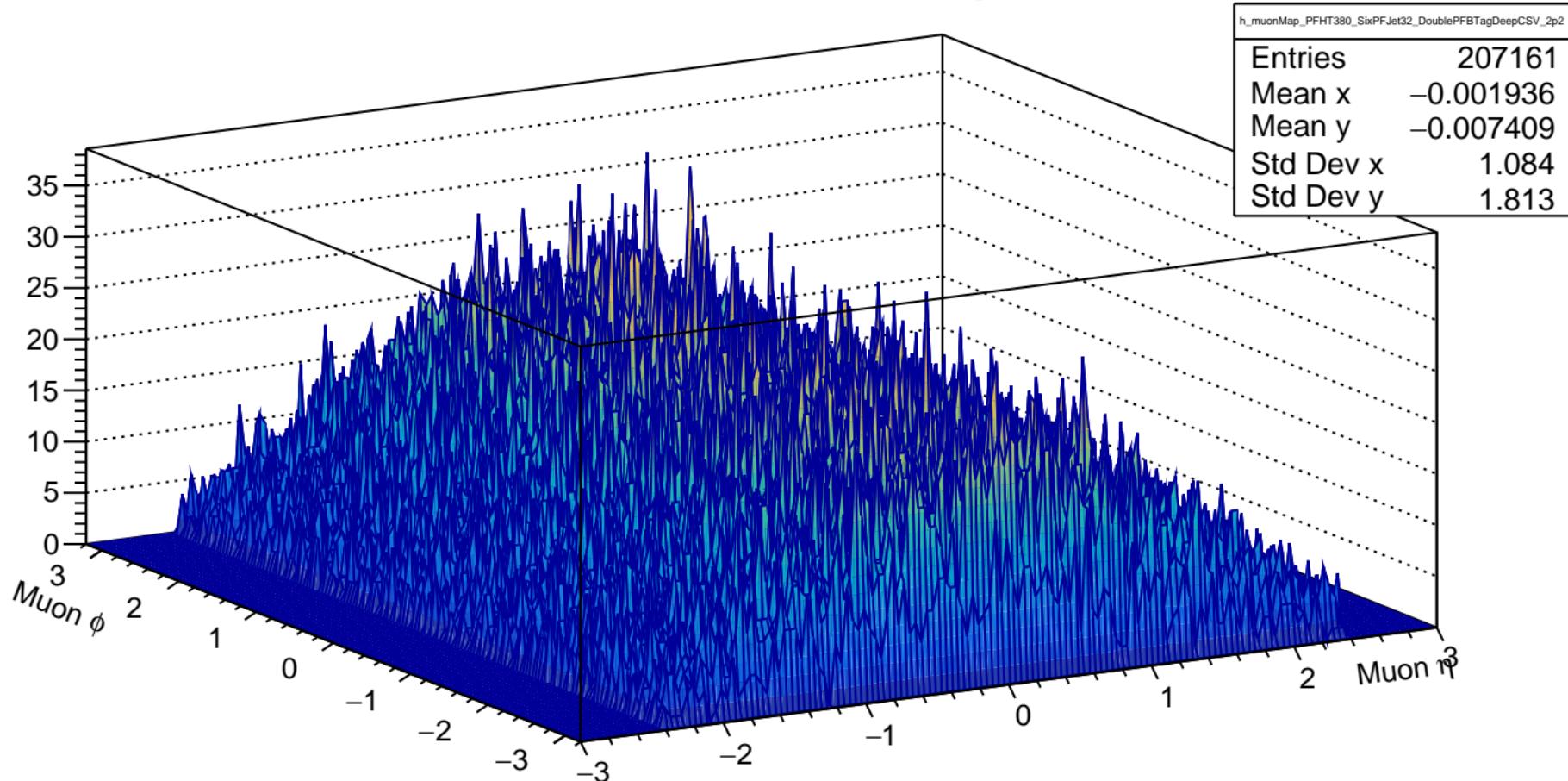
# Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5



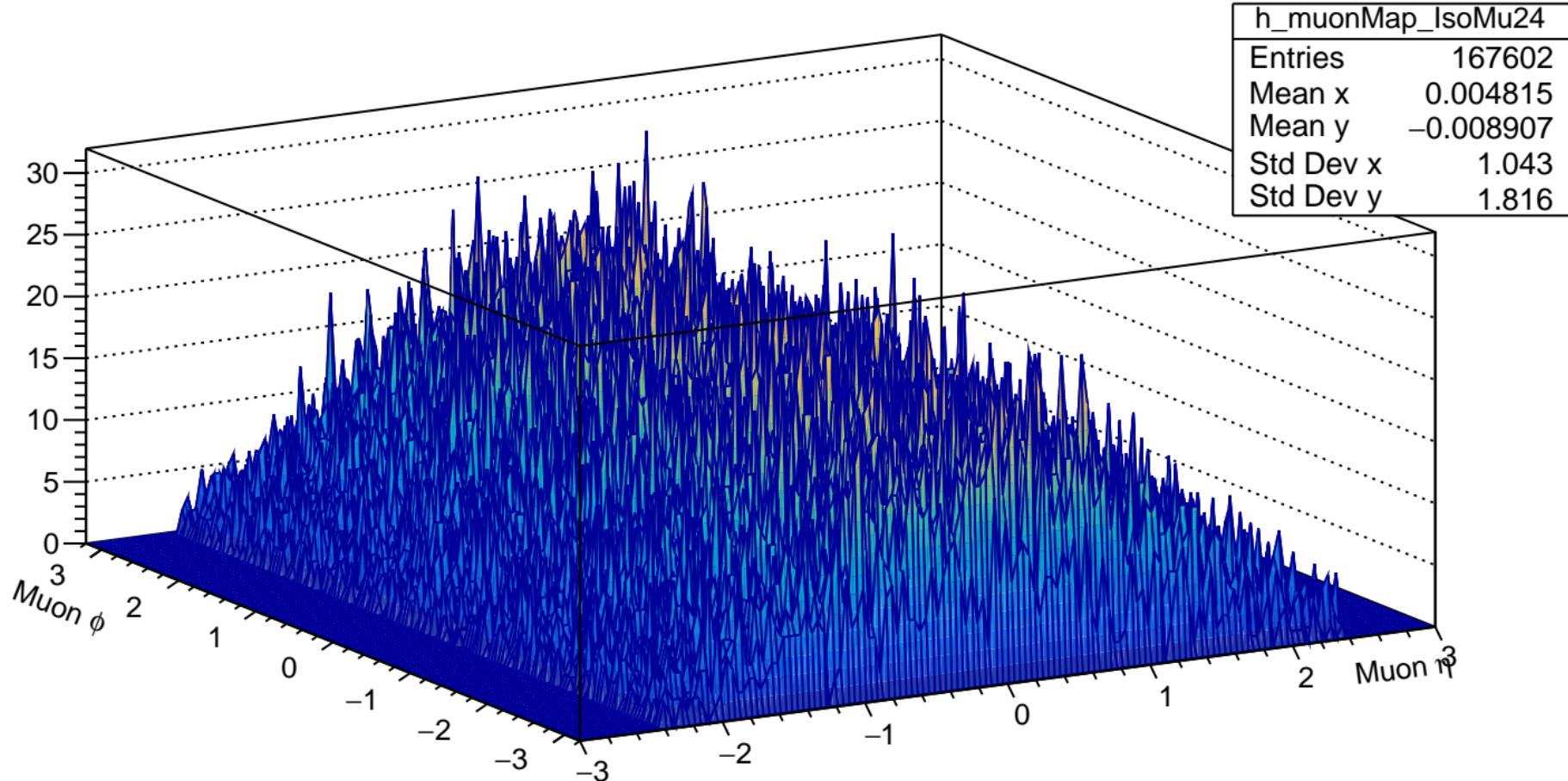
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



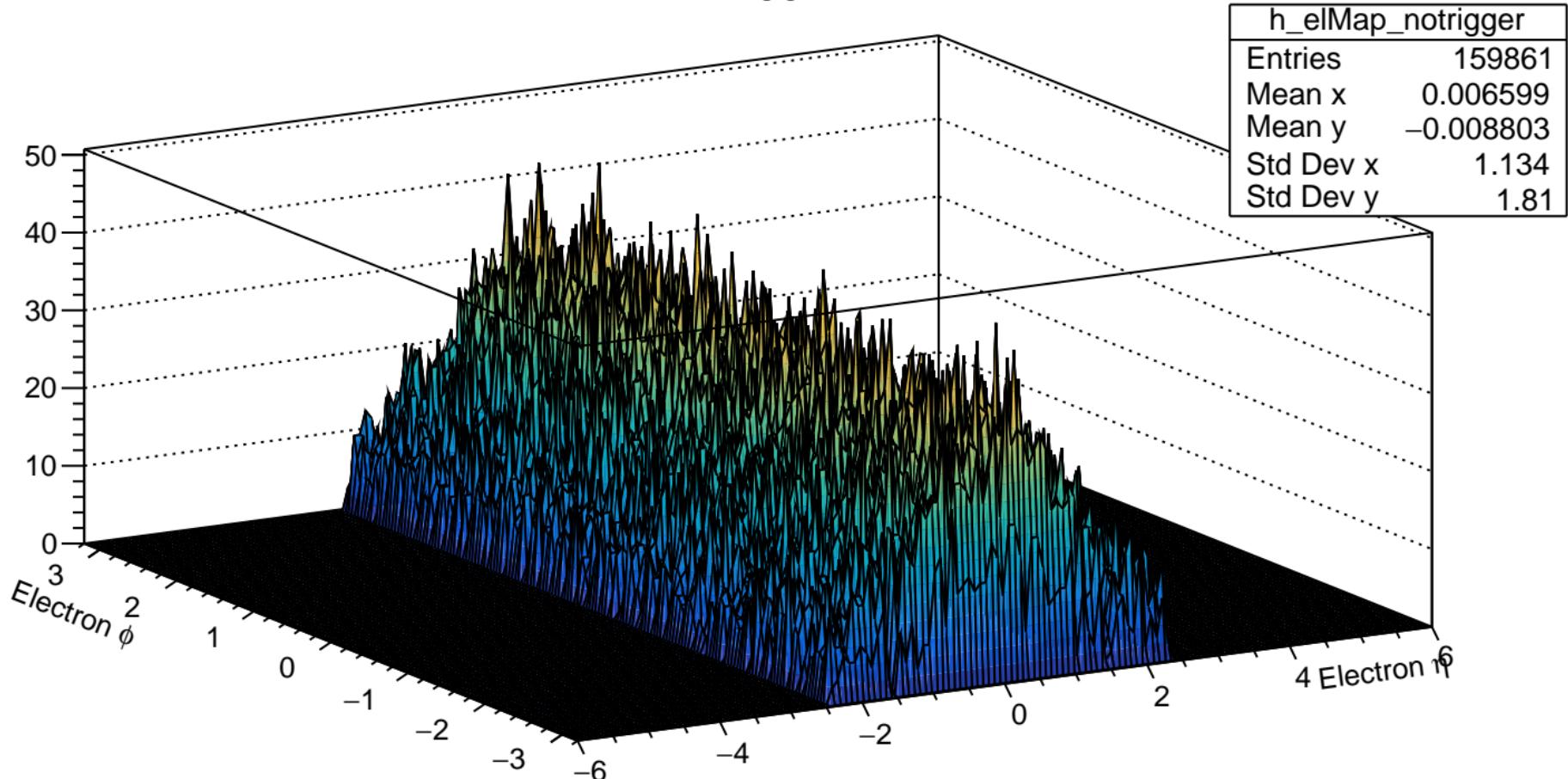
# PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



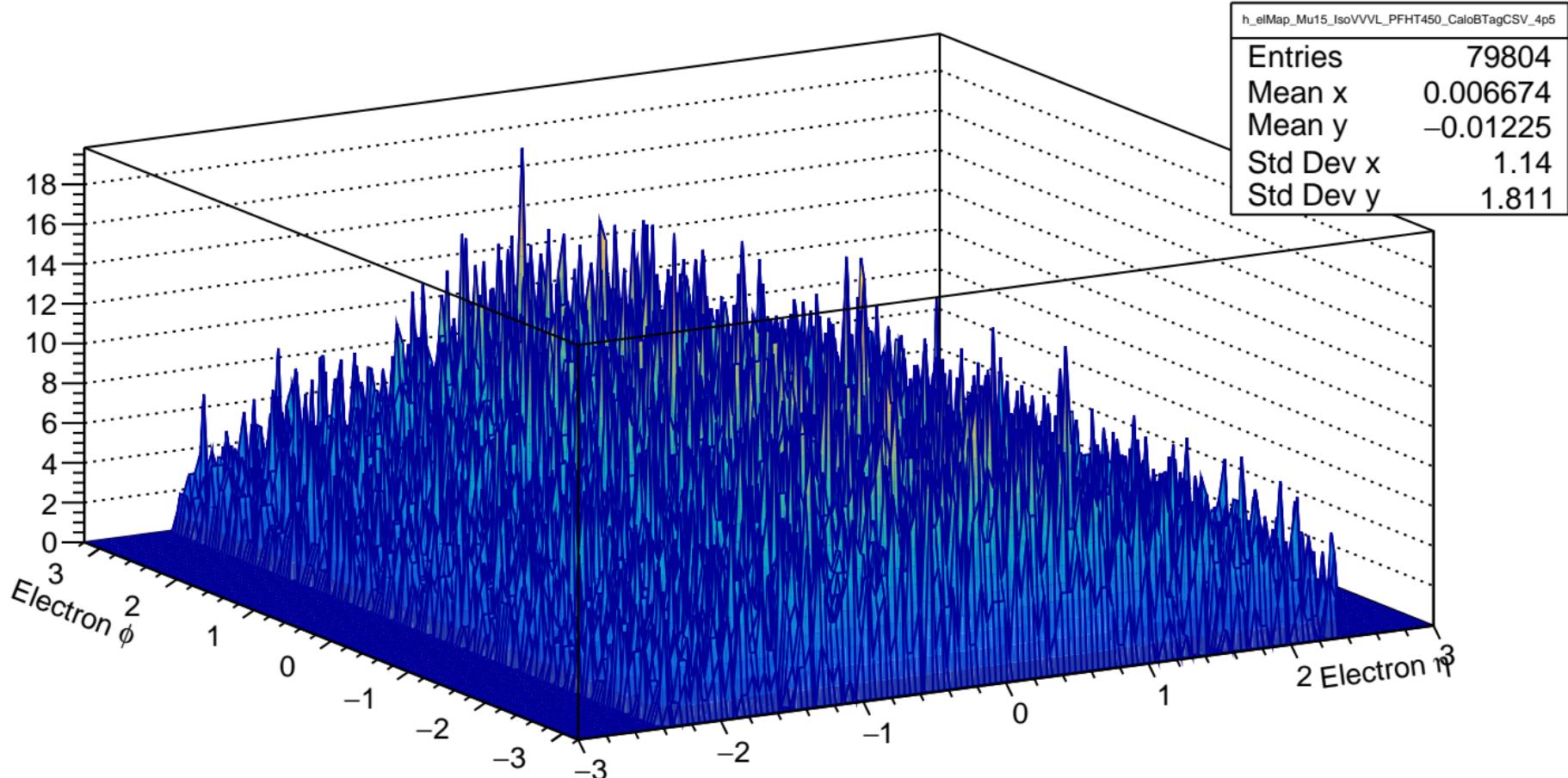
# IsoMu24



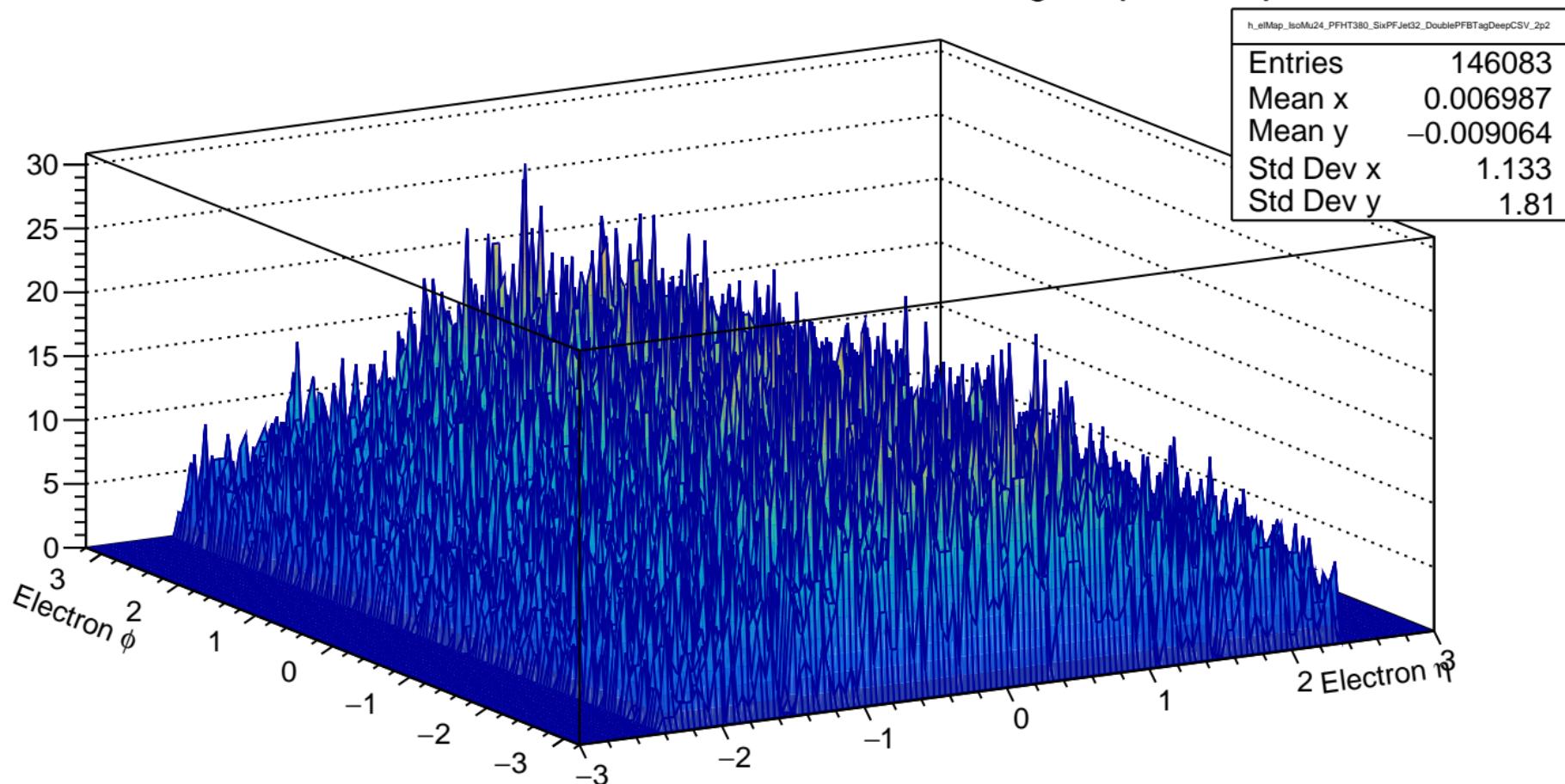
no trigger



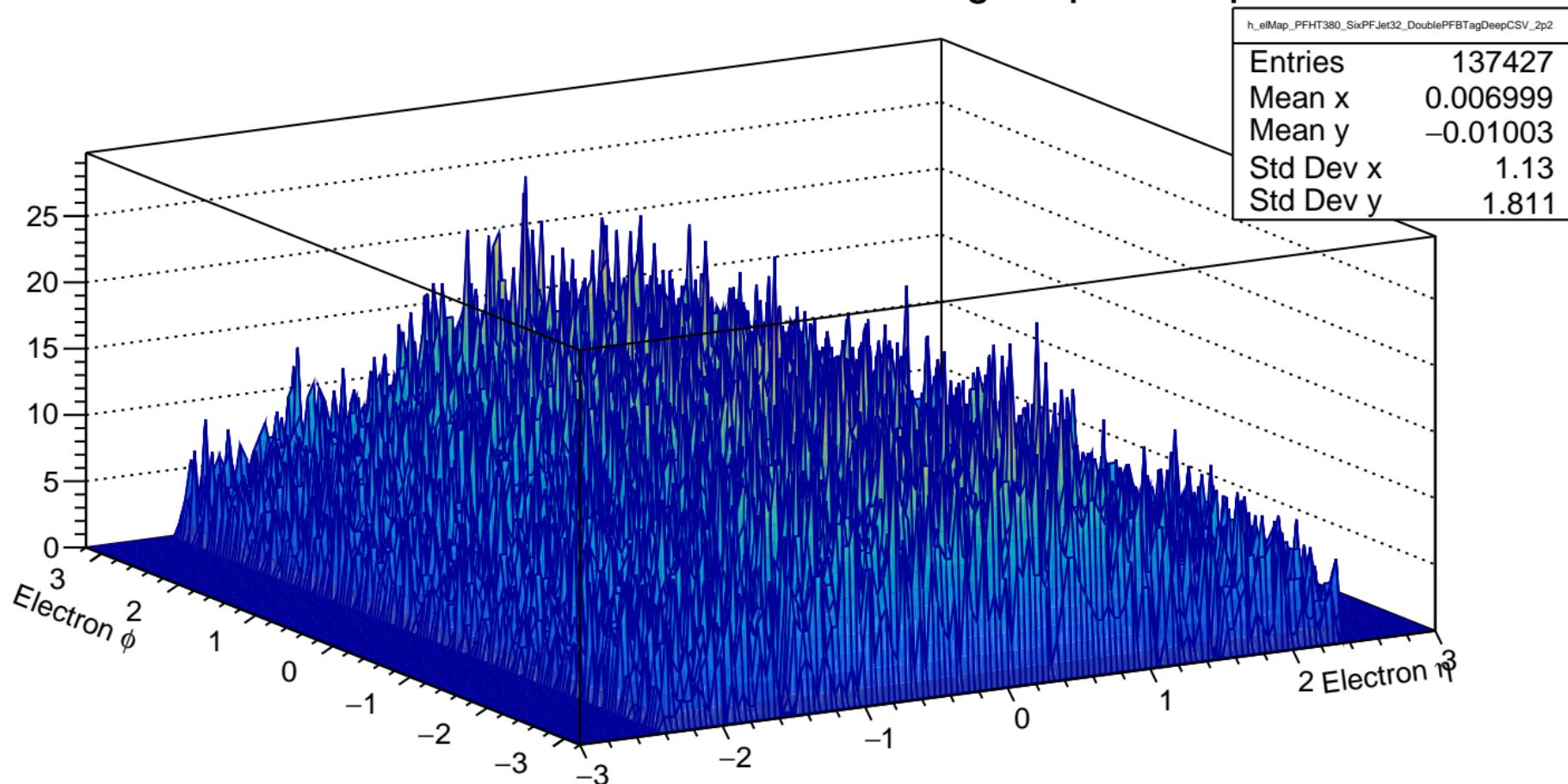
# Mu15\_IsoVVVL\_PFHT450\_CaloBTagCSV\_4p5



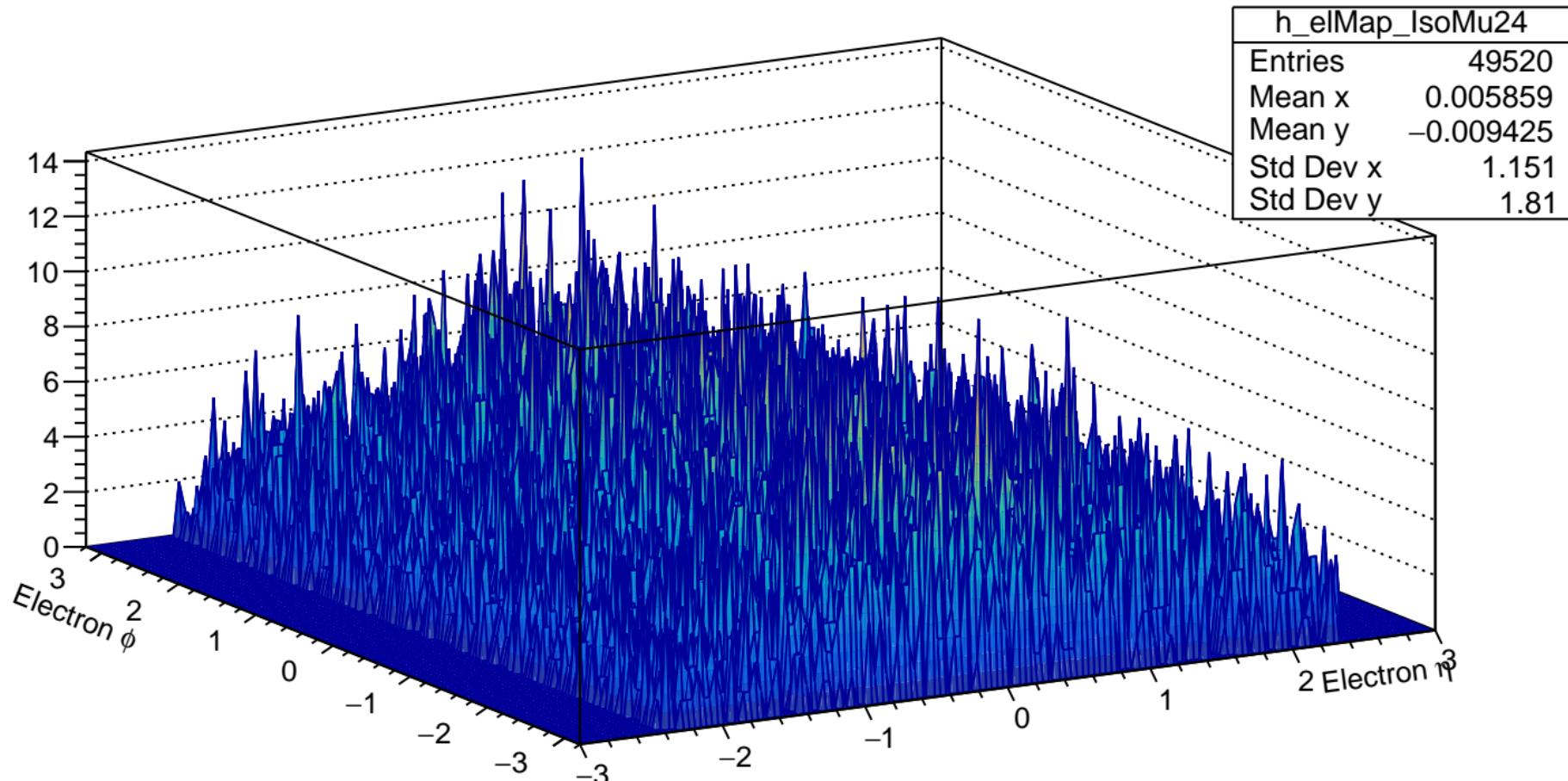
# IsoMu24\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



# PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



# IsoMu24



entries

