

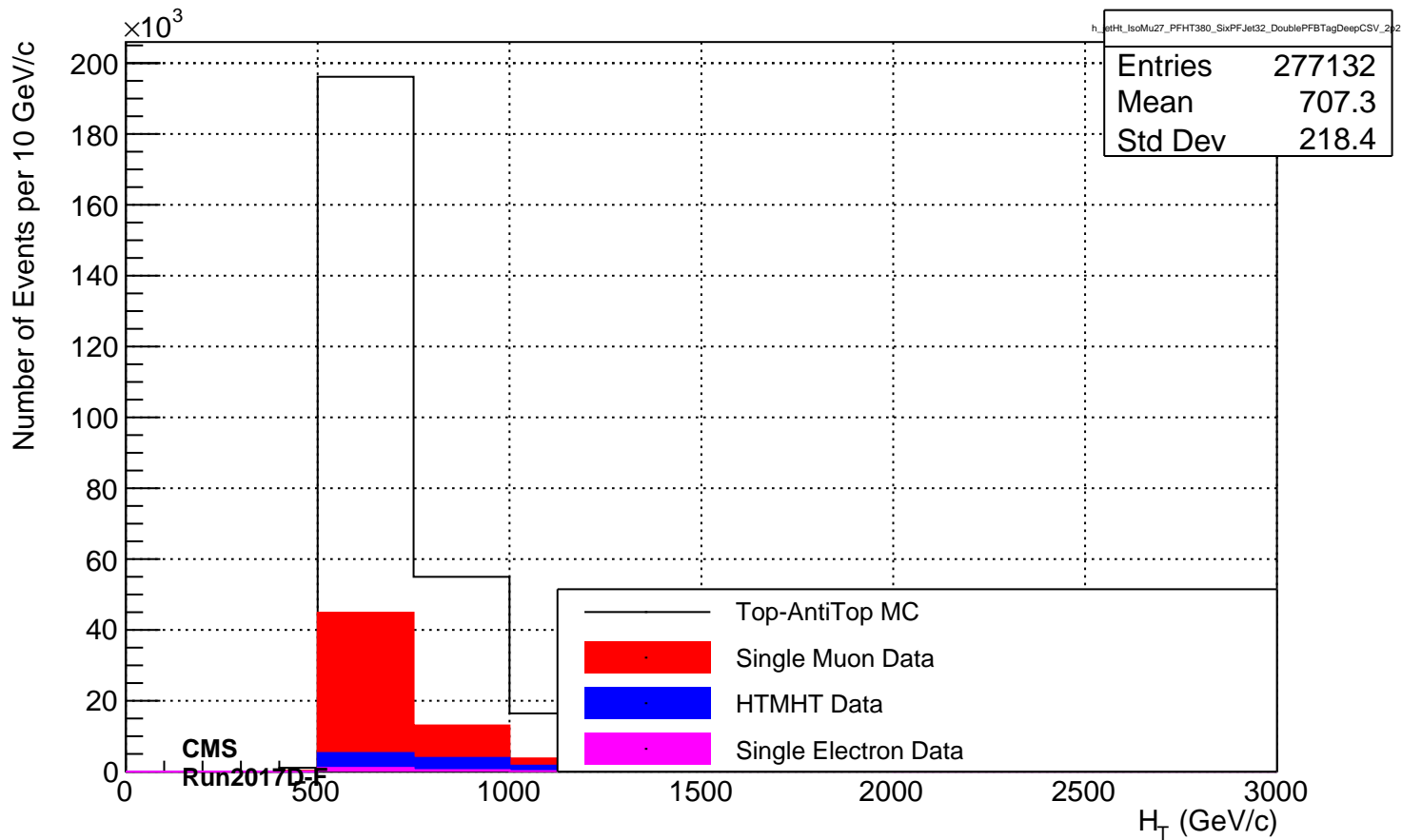
### **Pre-selection Requisites for:**

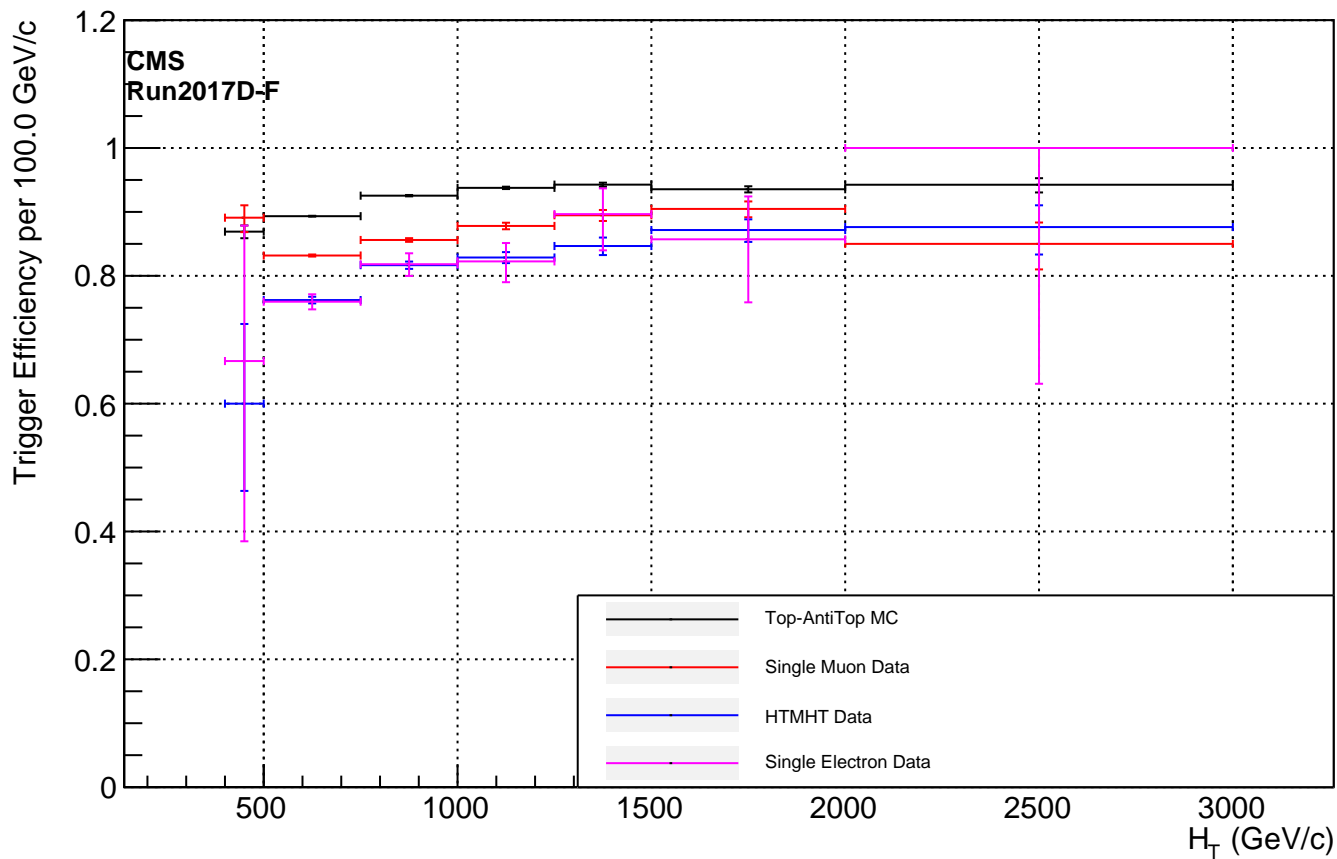
- **number of Jets:** number > 5
- **number of leptons (Muons or Electrons):** number > 0

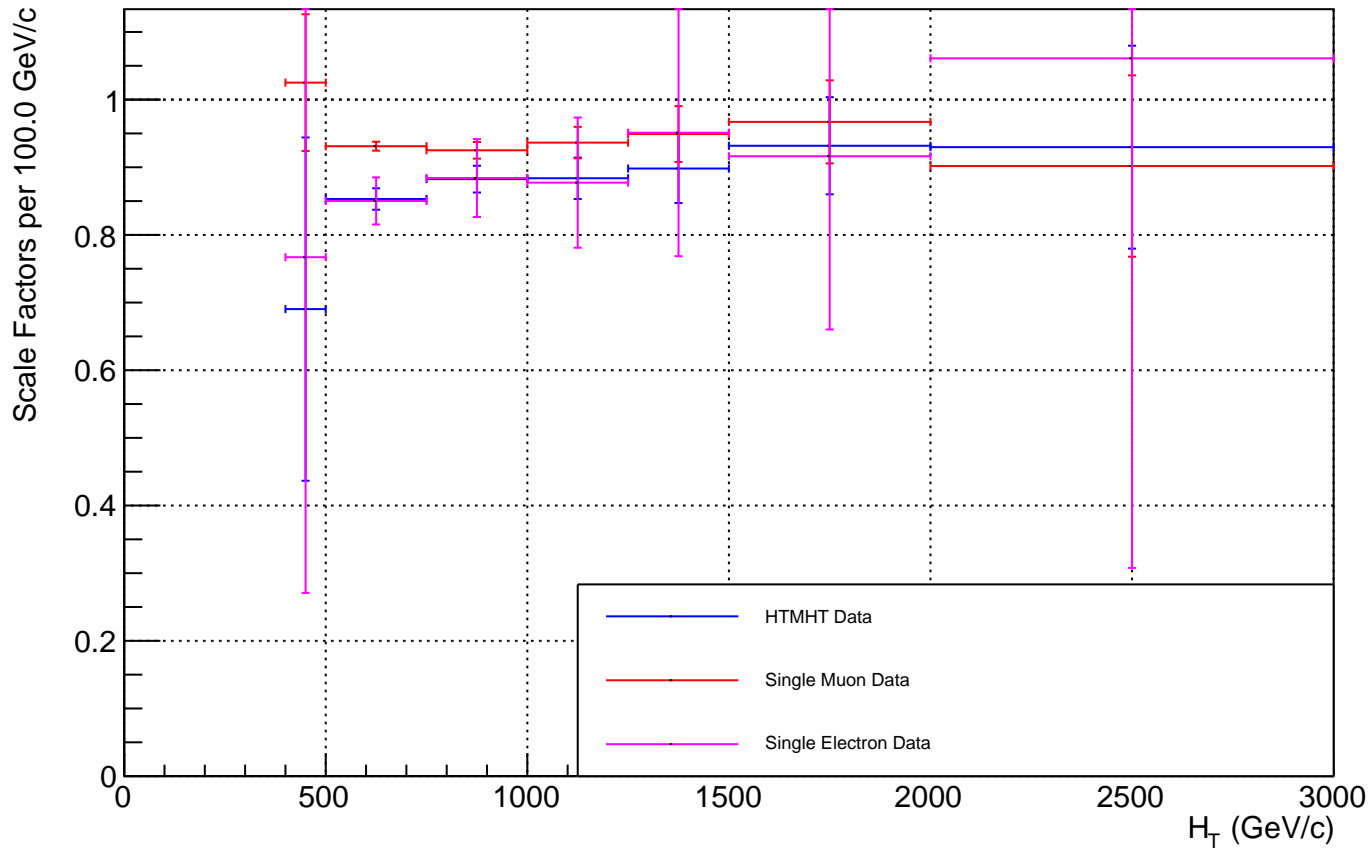
**Event Limit:** None (see last page)

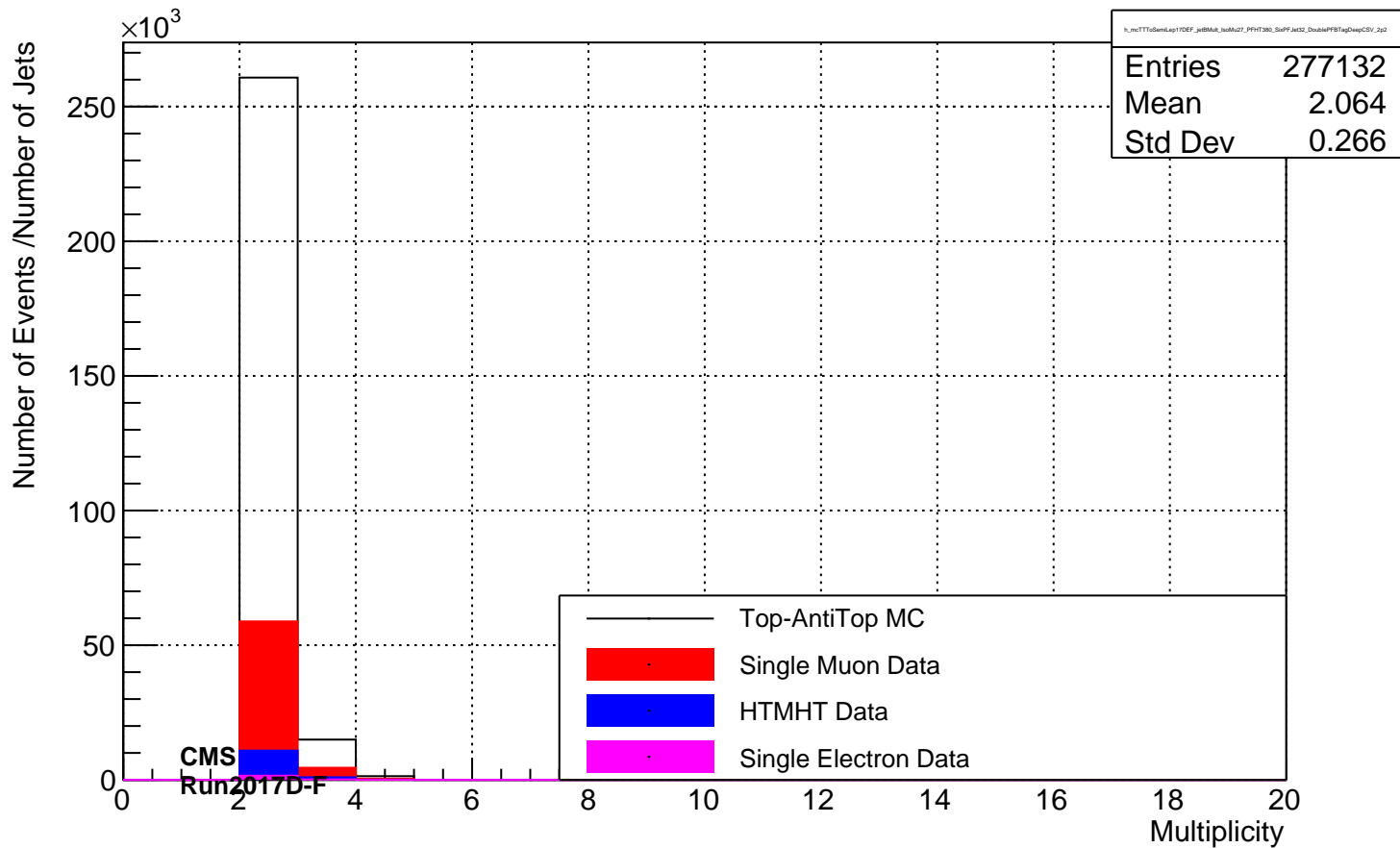
### **Baseline selection Requisites for:**

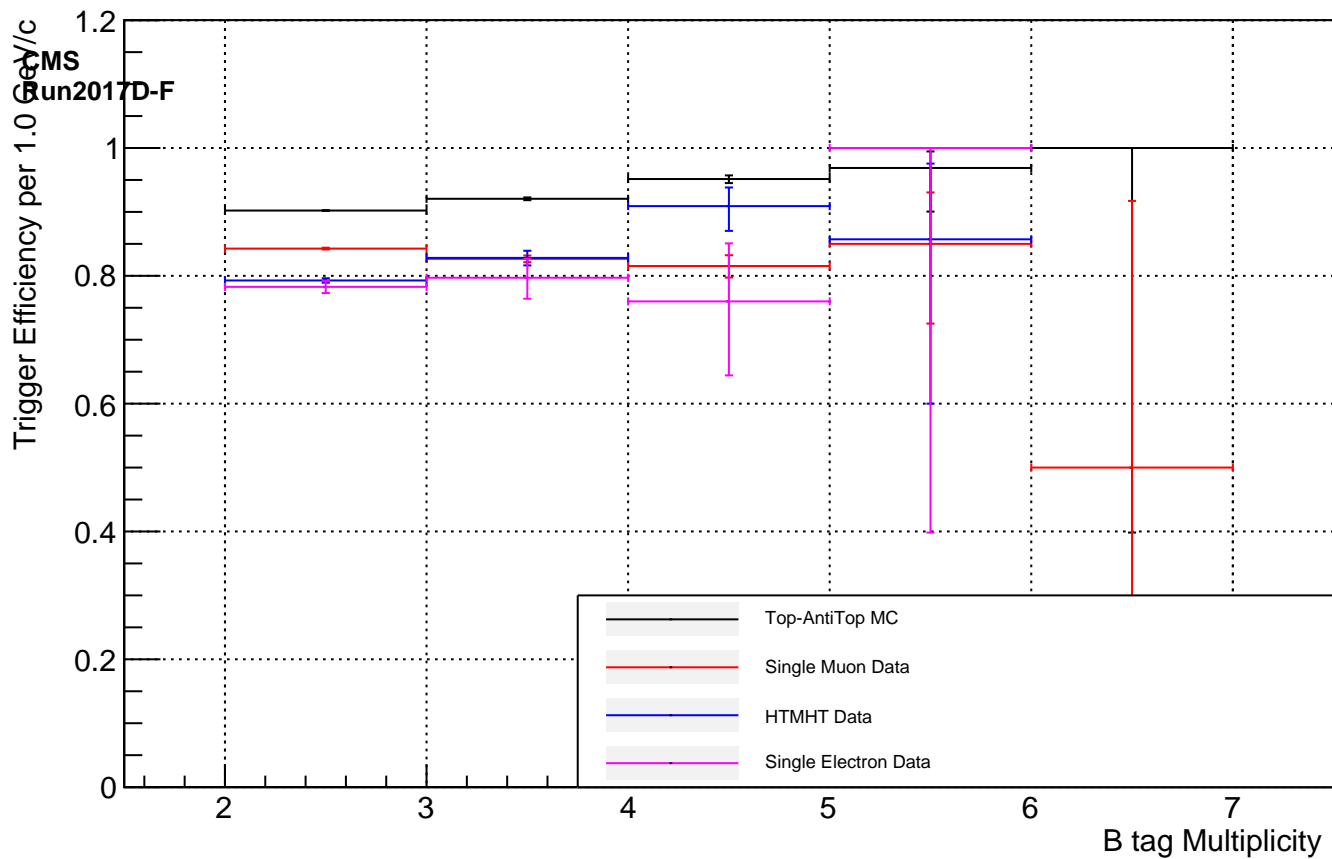
- **Jets:**  $\text{jetId} > 2$  ,  $p_T > 30$  and  $|\eta| < 2.4$  (for at least 6 jets)  
 $\text{btagDeepFlavB} > 0.7489$  (for at least one jet)
  - **Muons:** has tightId,  $|\eta| < 2.4$  and  $\text{PFRelIso\_all} < 0.15$  (for at least 1)
- HT > 500 GeV**











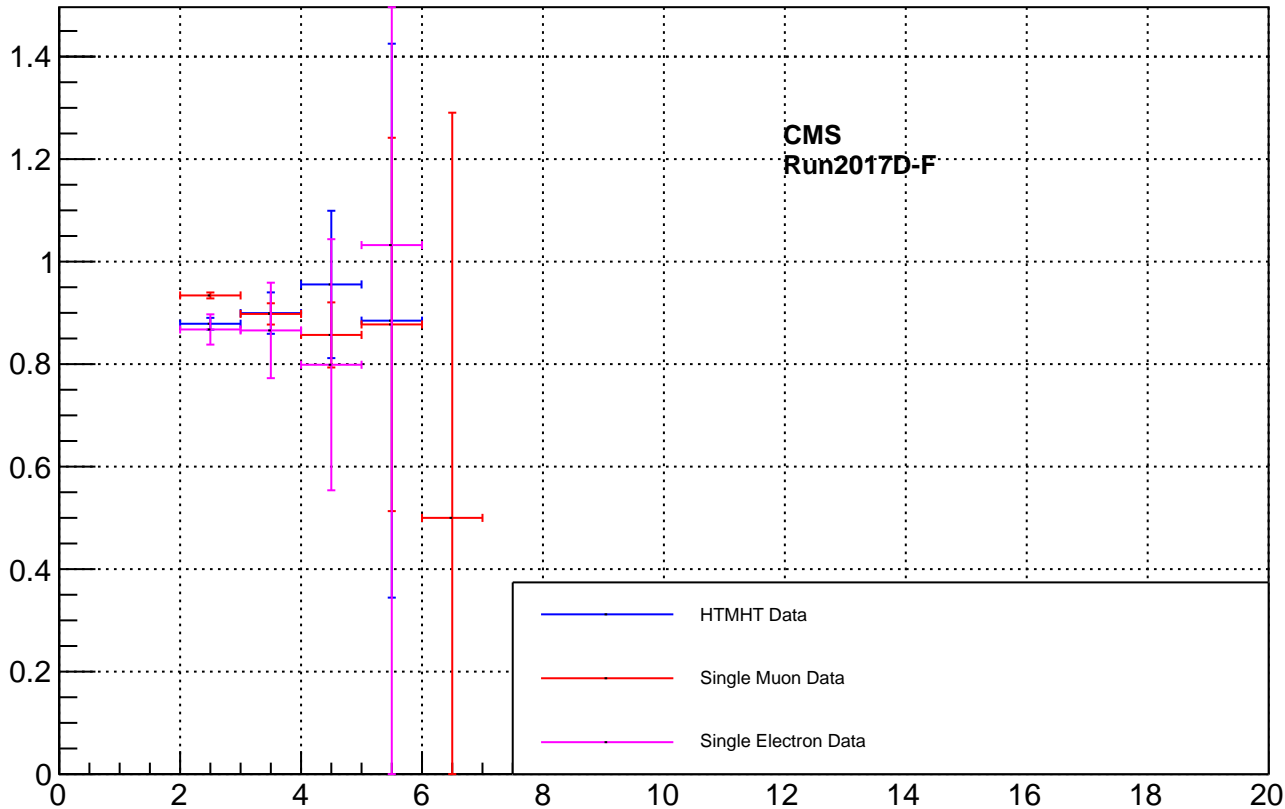
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

Scale Factors per 1.0 GeV/c

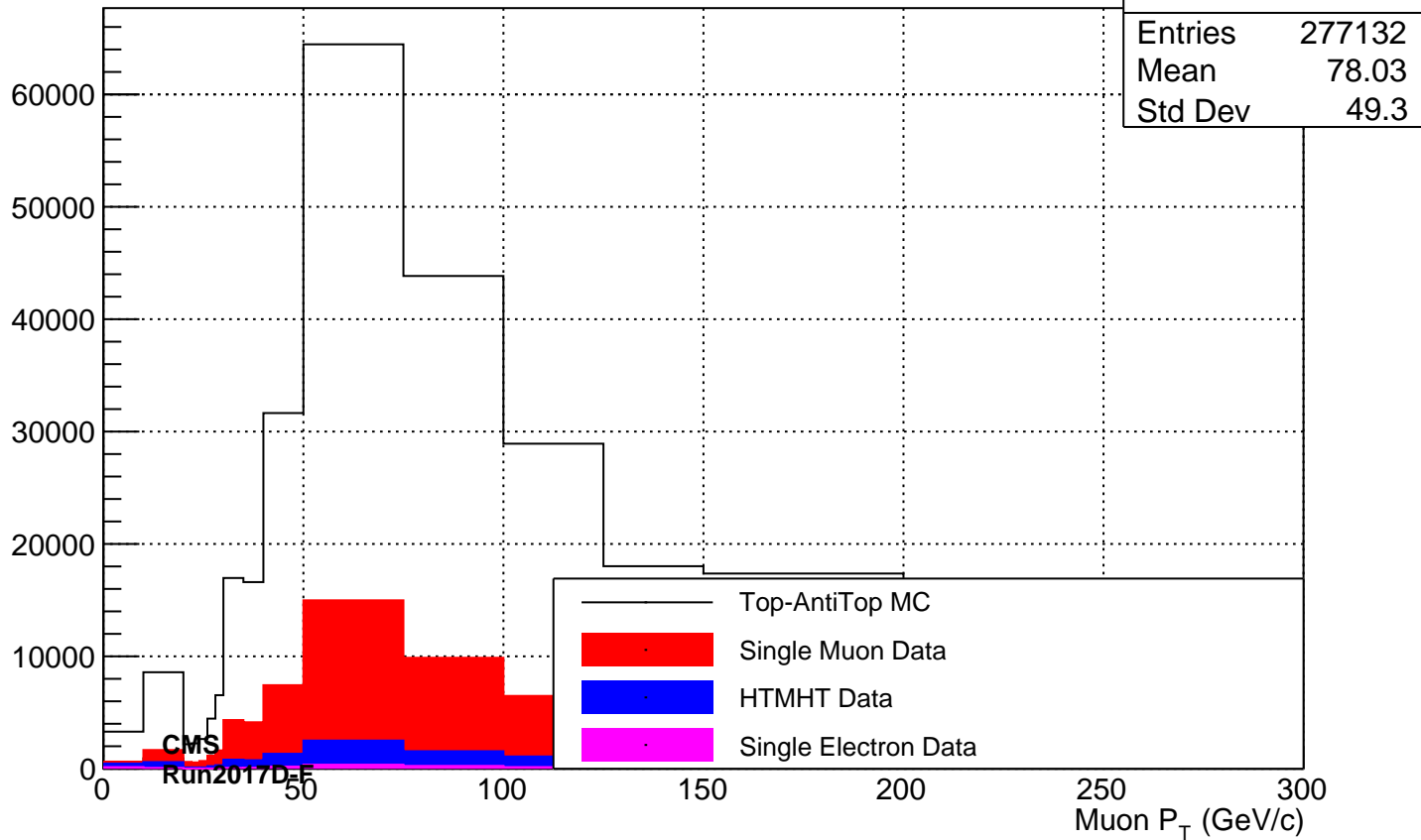
CMS  
Run2017D-F

HTMHT Data  
Single Muon Data  
Single Electron Data

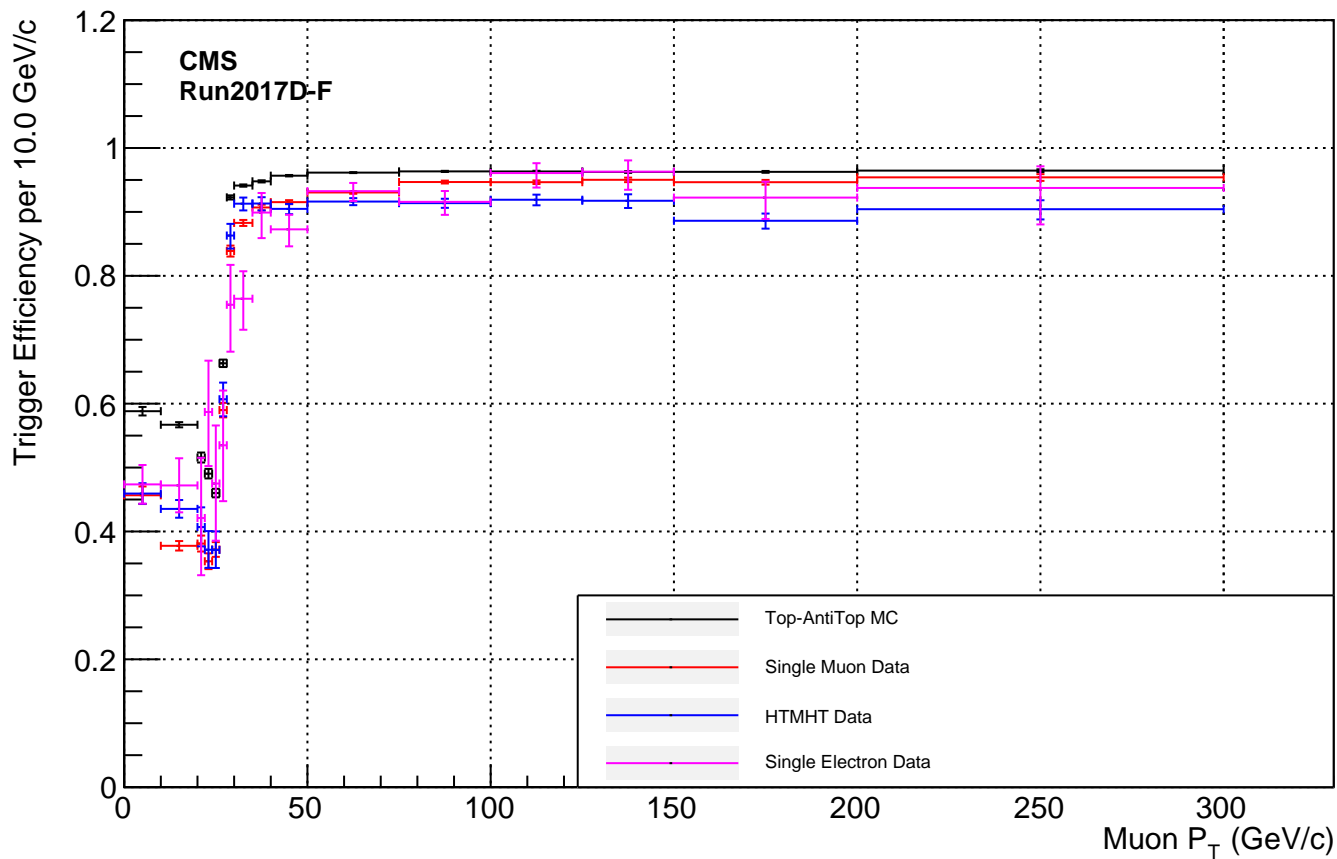
B tag Multiplicity



Number of Events per 1 GeV/c

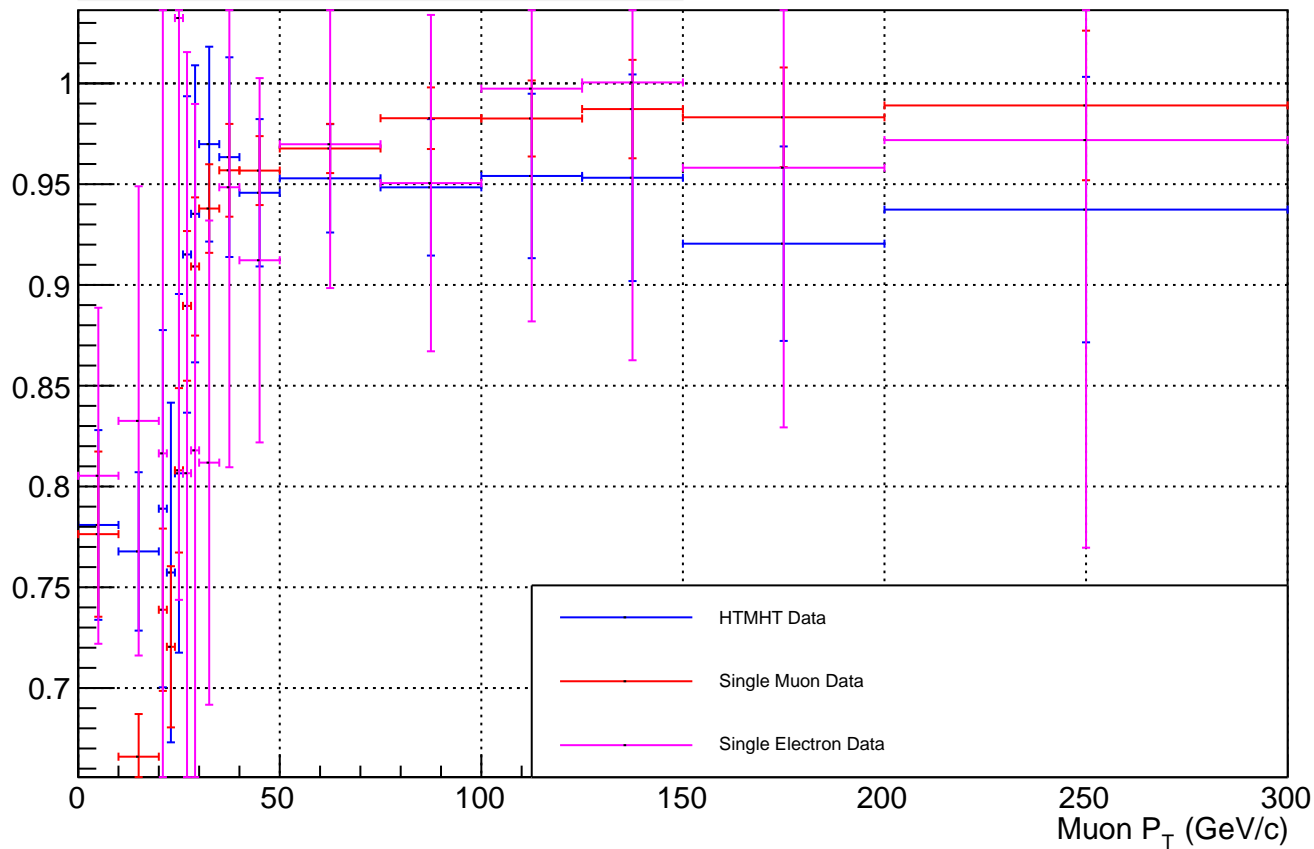


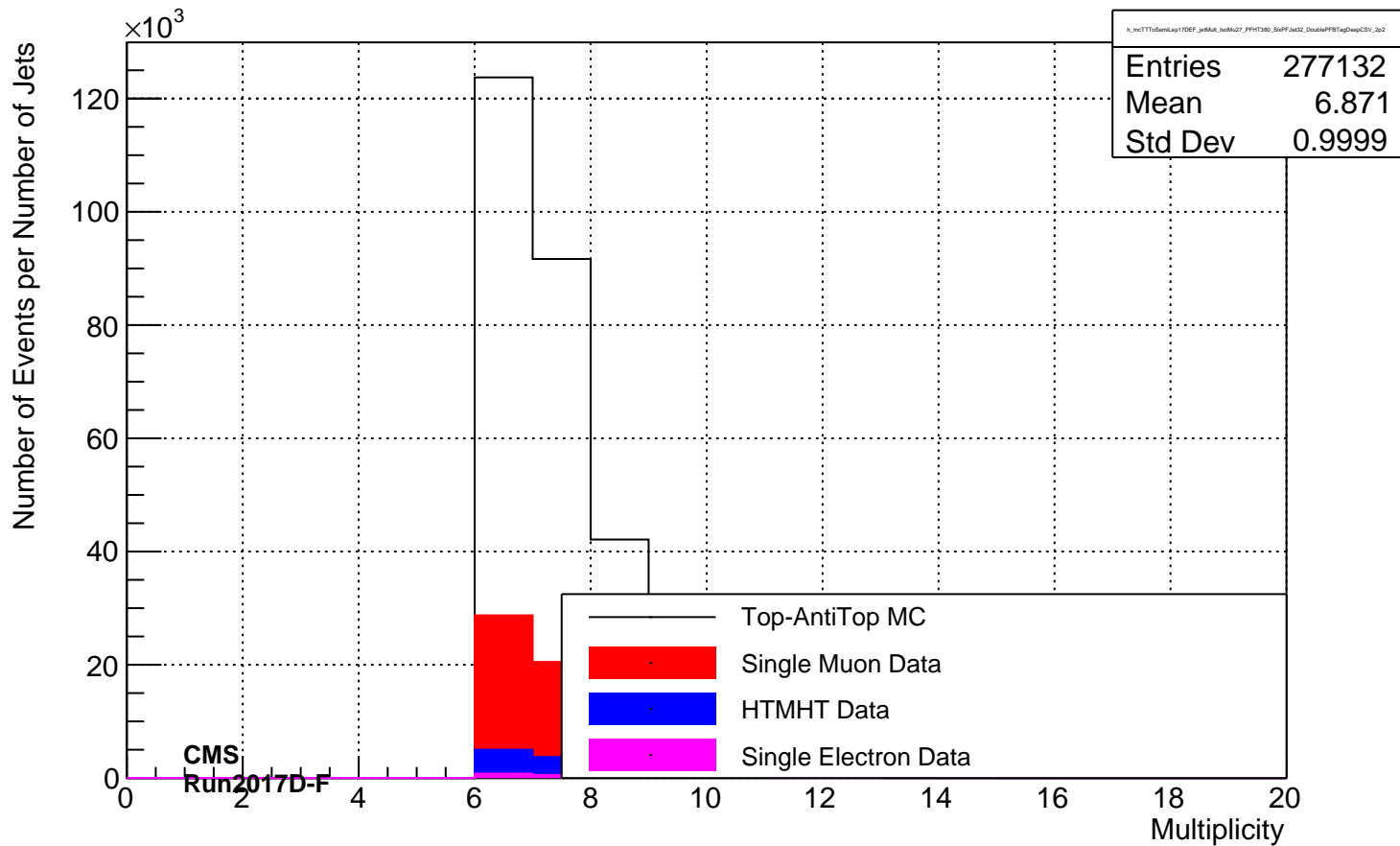


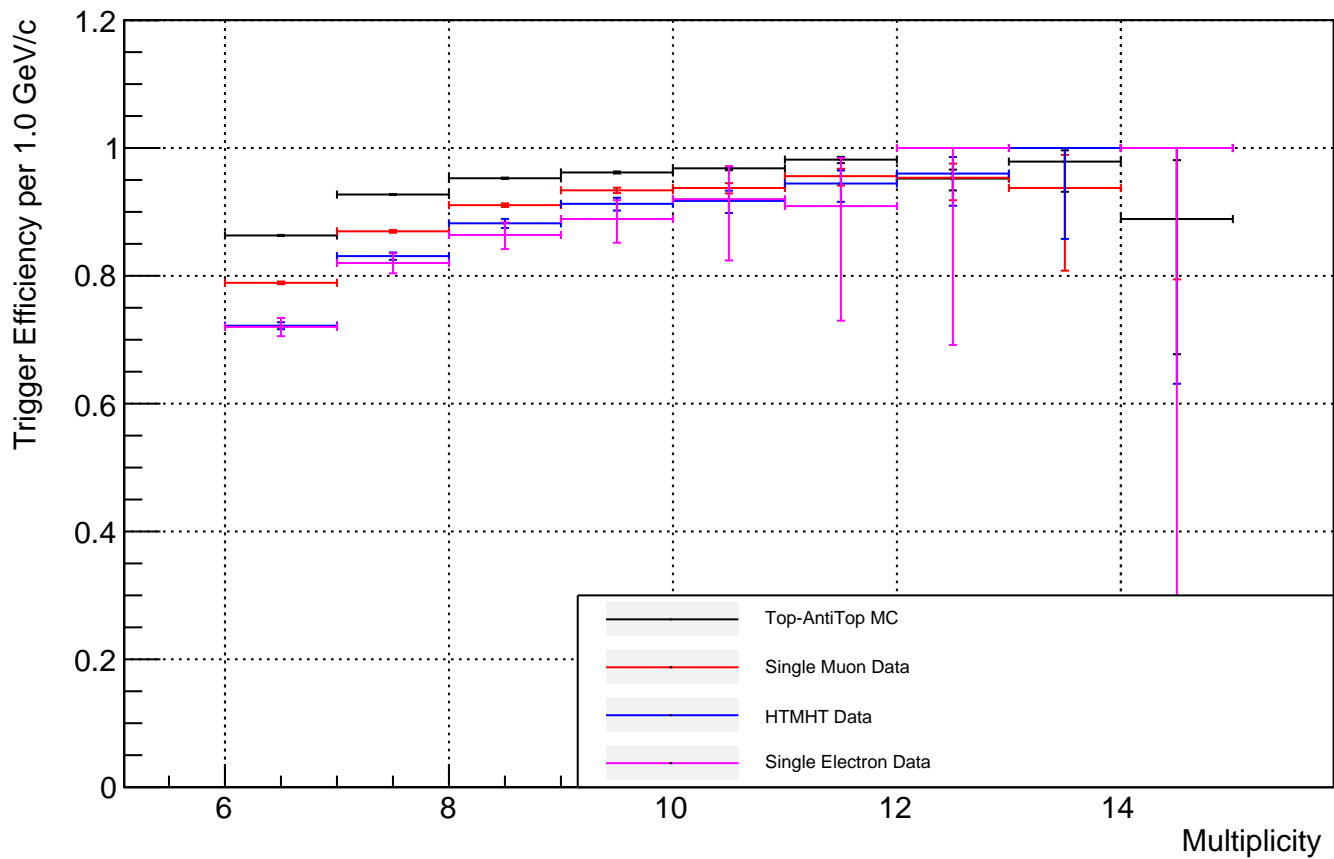


IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

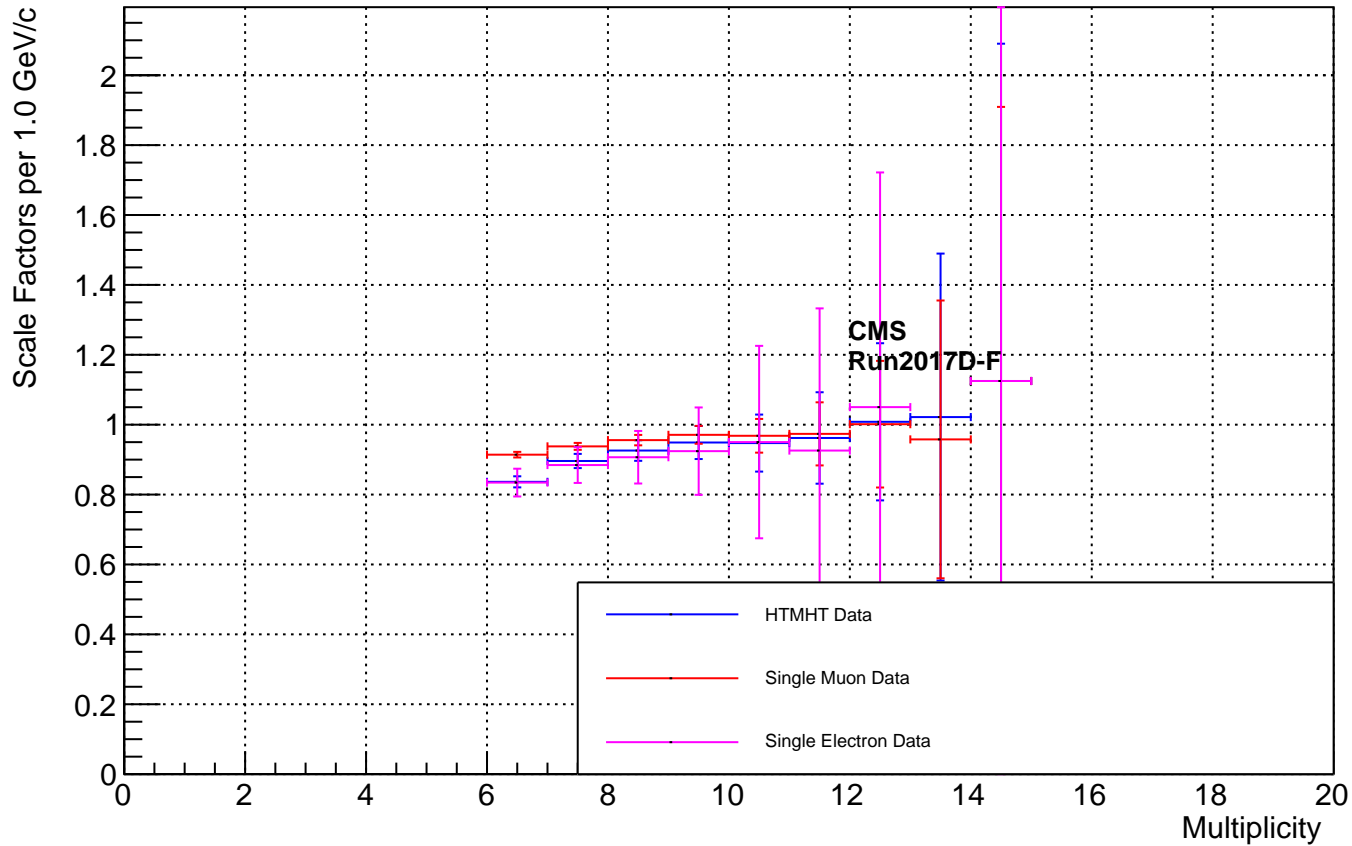
Scale Factors per 10.0 GeV/c







IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

