

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

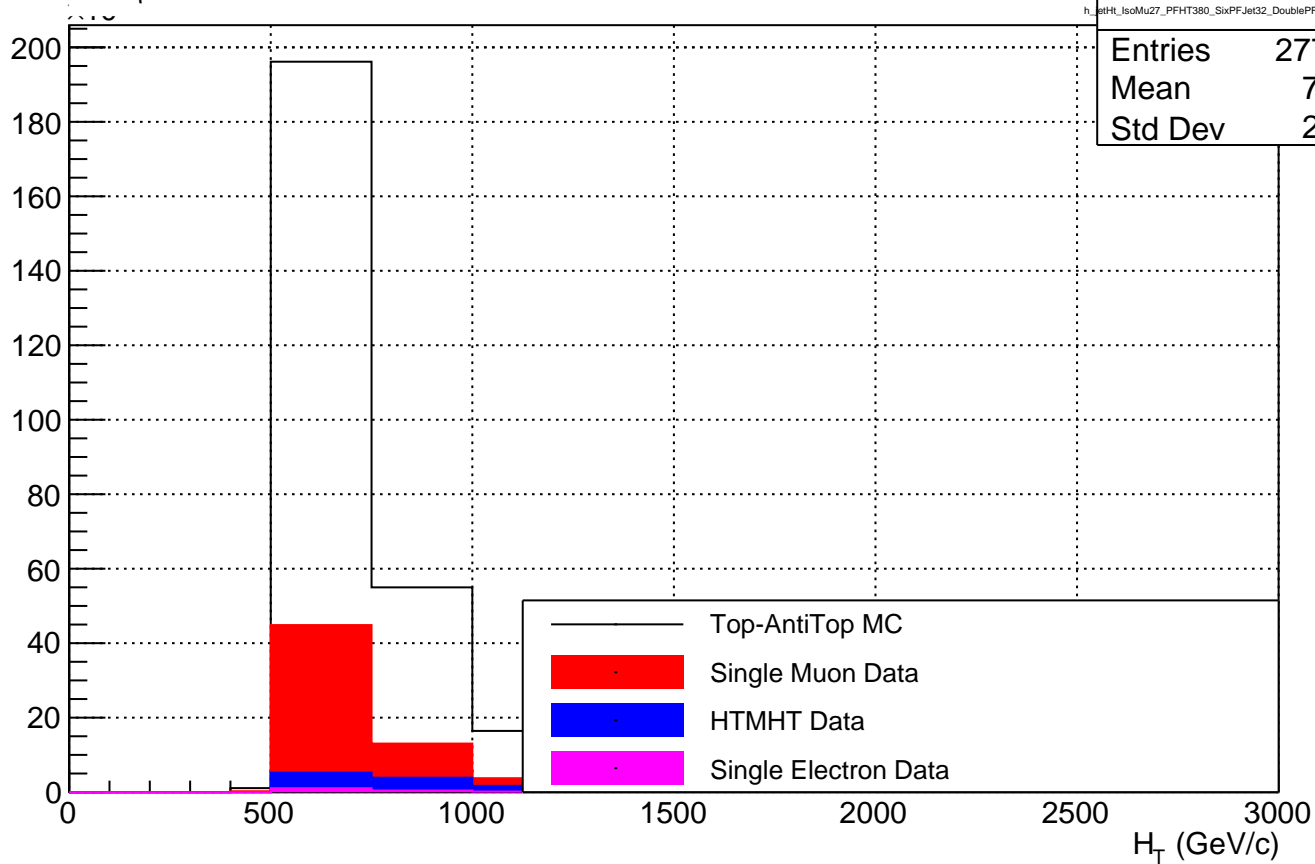
- **Jets:** number > 5
- **Leptons (Muons or Electrons):** number > 0

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

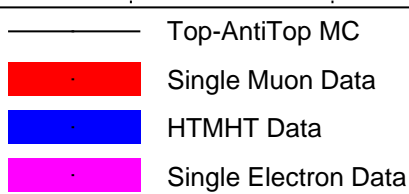
### **Baseline selection Requisites for:**

- **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)
- $\text{HT} > 500 \text{ GeV}$

Number of Events per 10 GeV/c

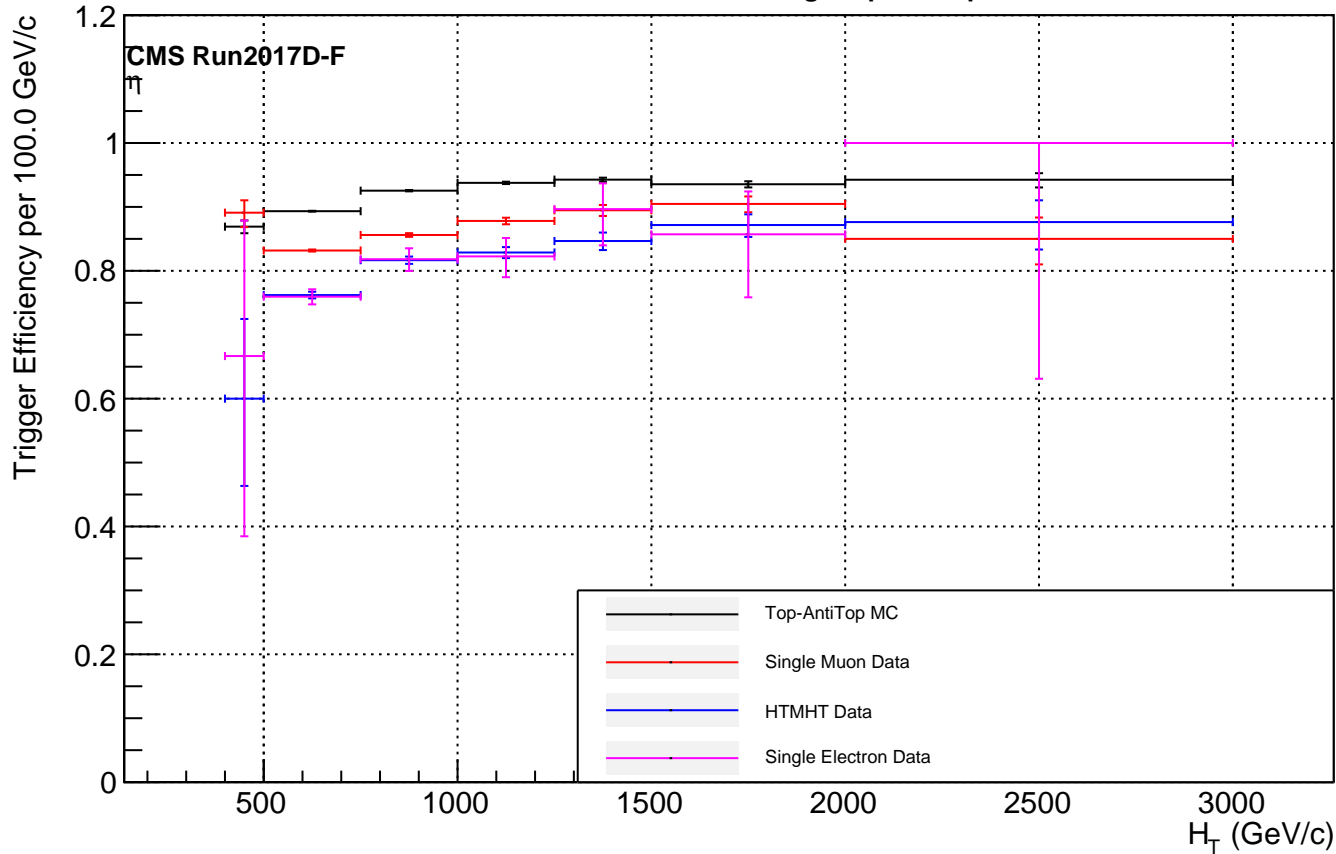


Entries	277132
Mean	707.3
Std Dev	218.4

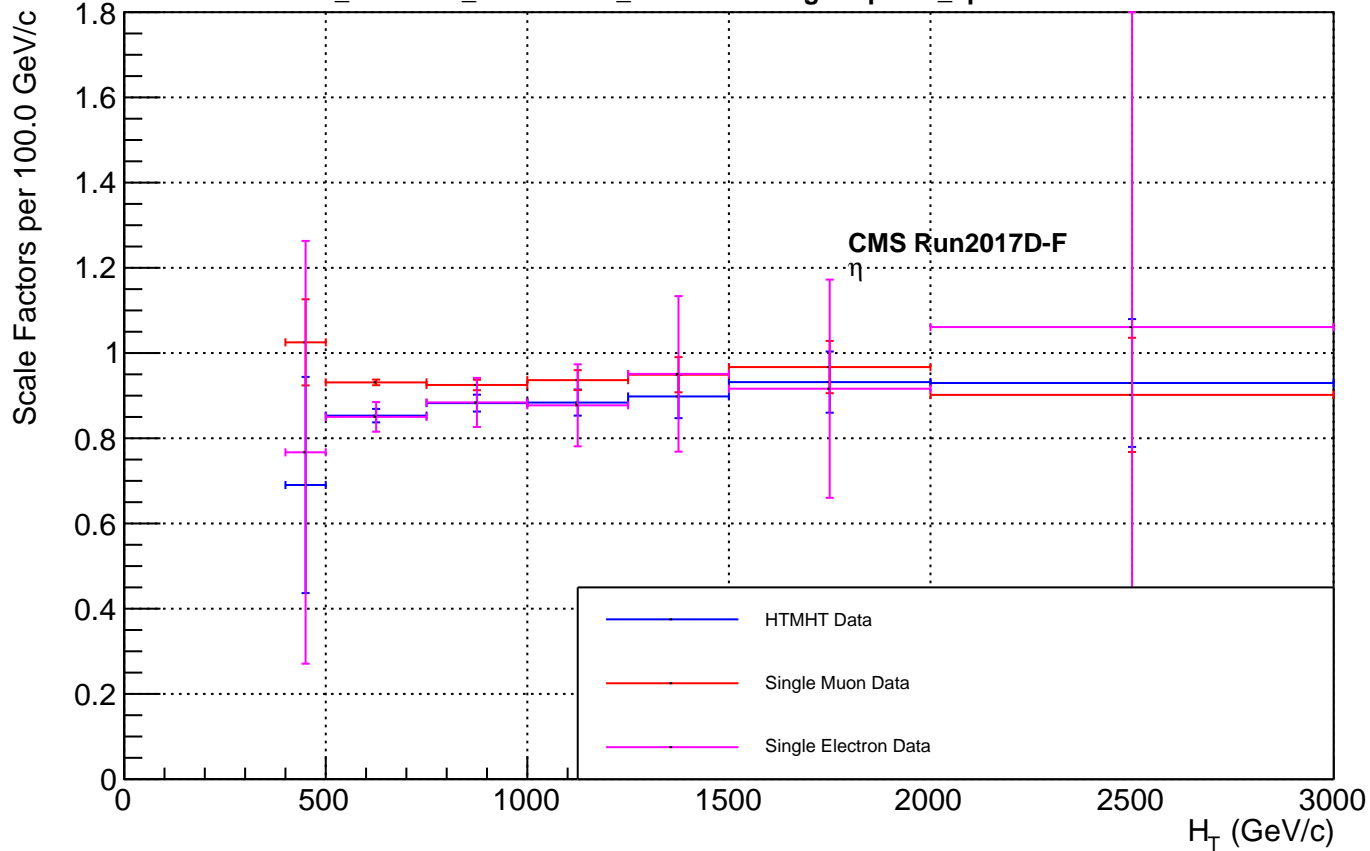


IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

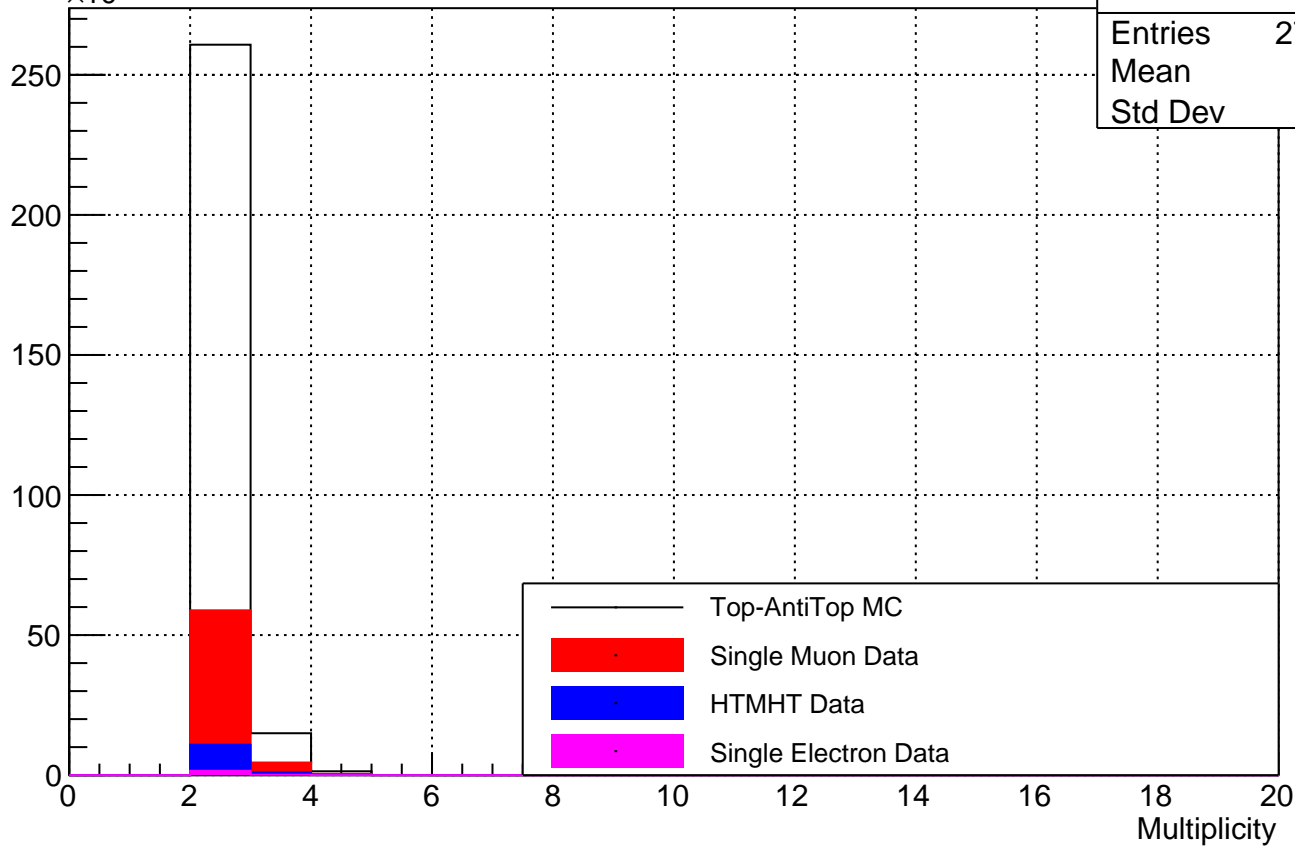
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



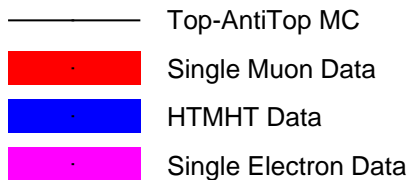
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2  
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2  
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



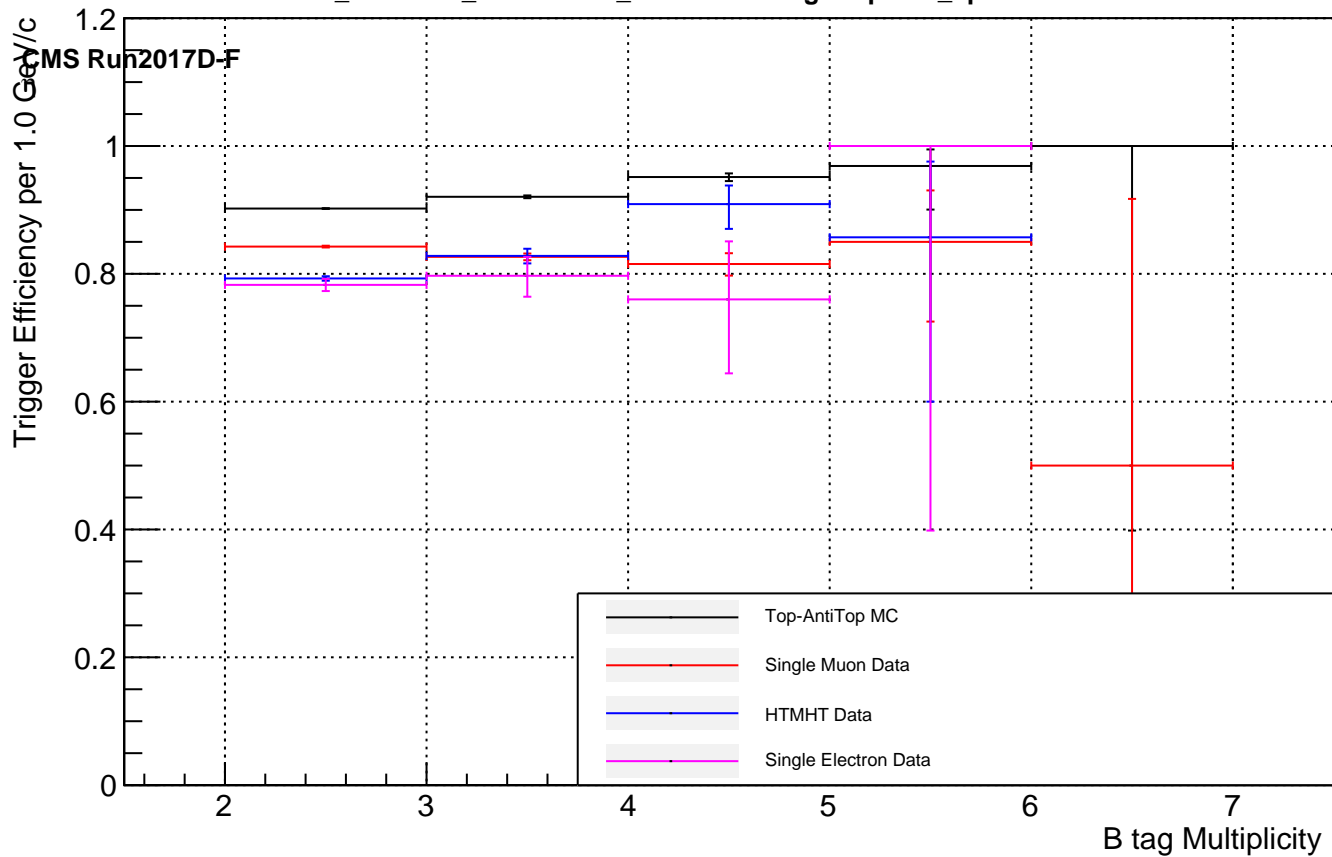
Number of Events /Number of Jets



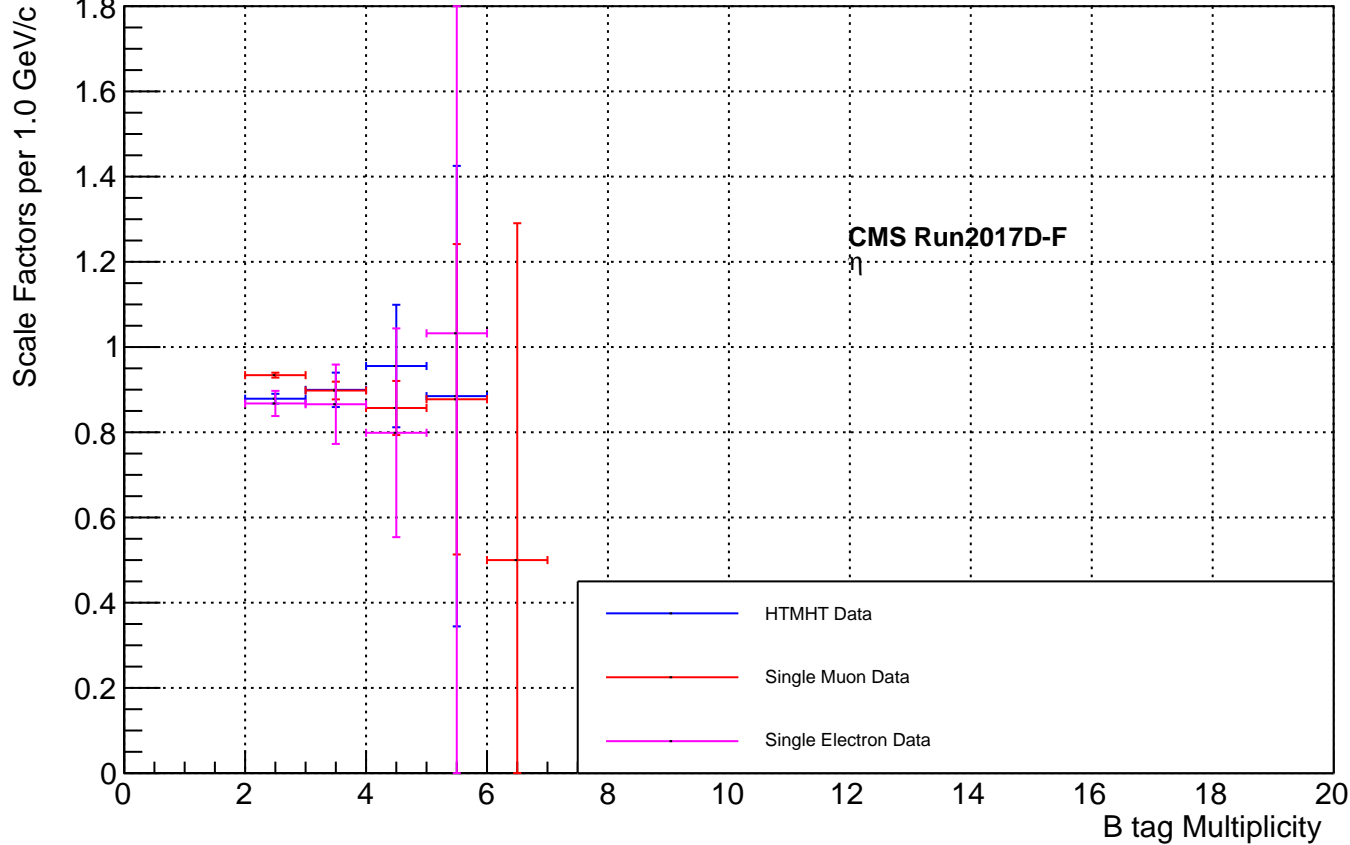
Entries	277132
Mean	2.064
Std Dev	0.266



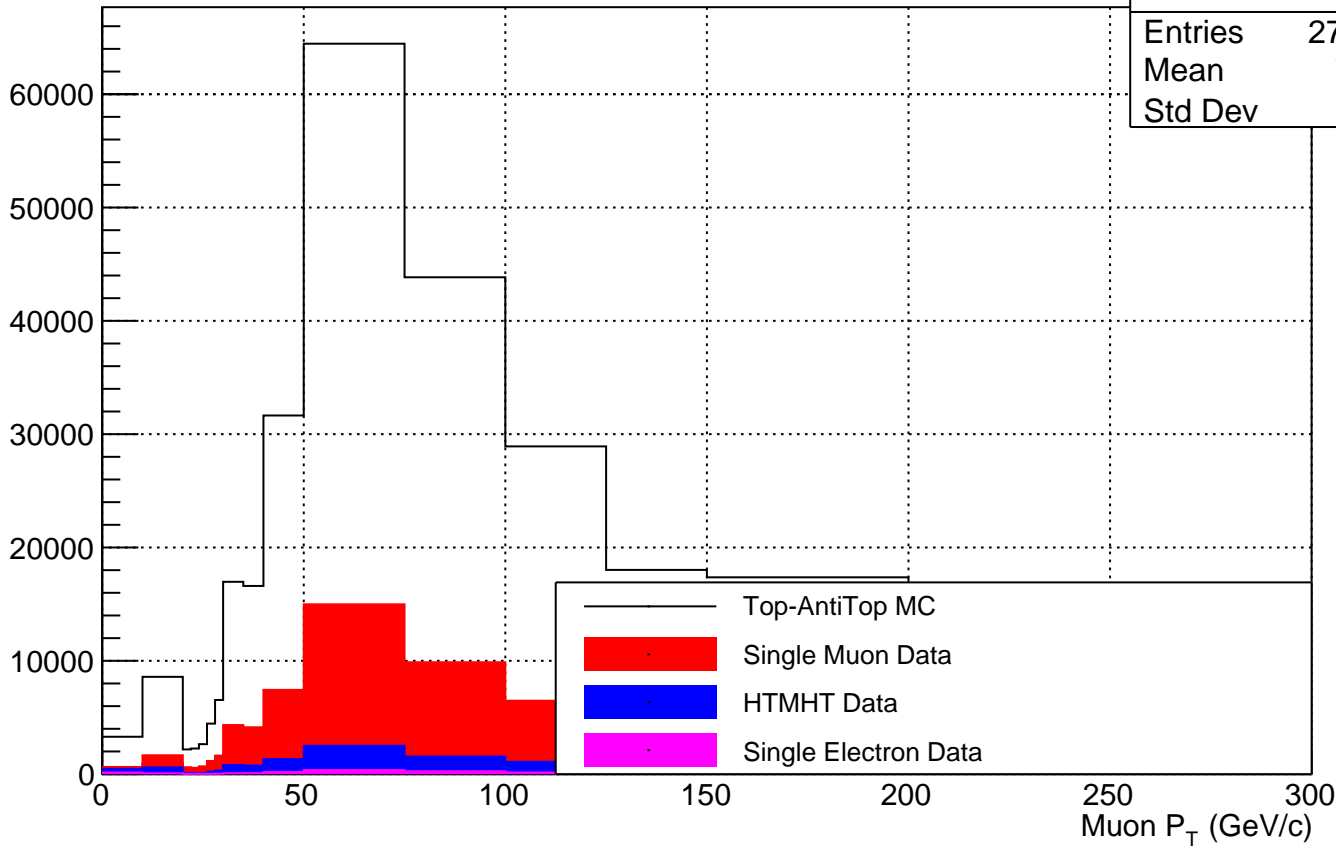
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2  
 IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2  
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2  
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



Number of Events per 1 GeV/c



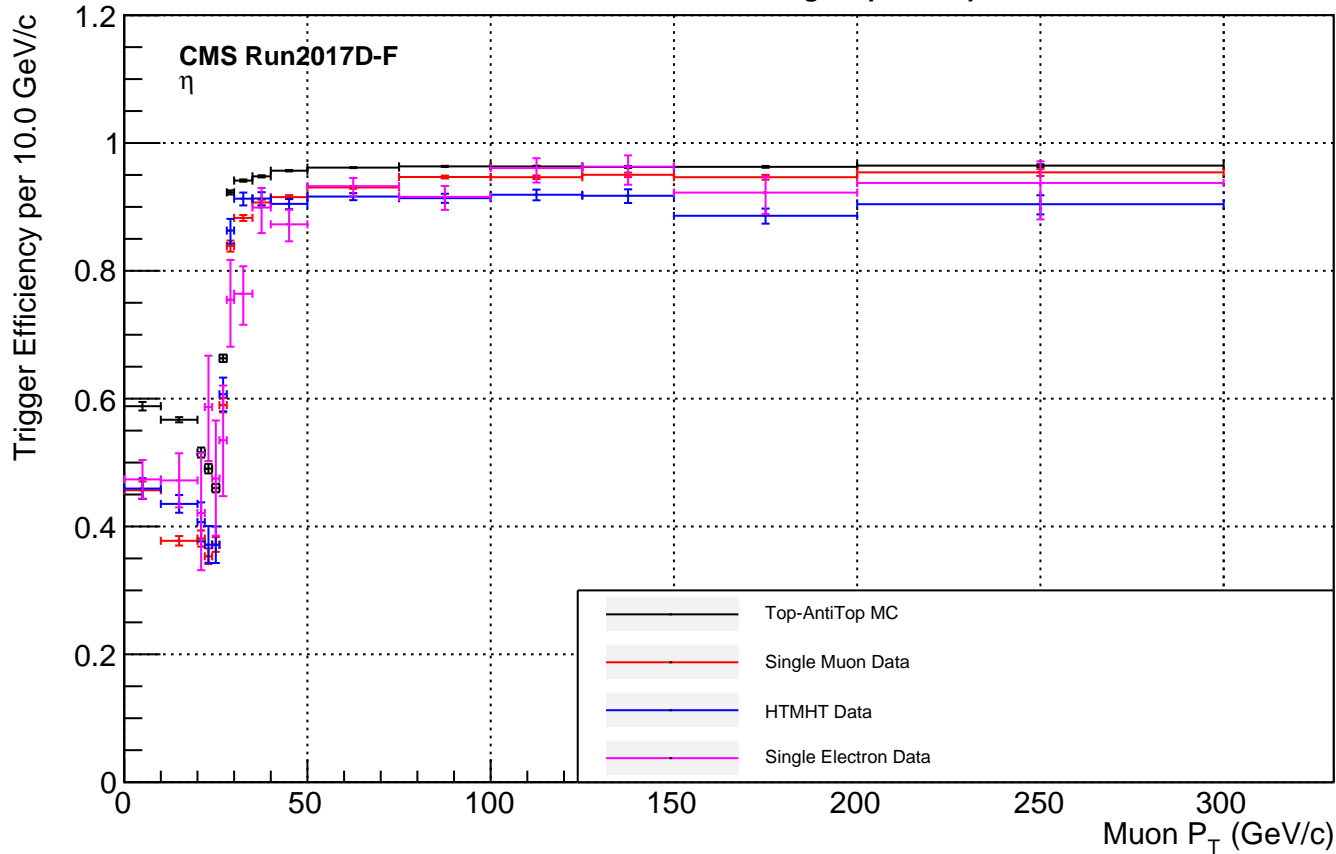
Entries	277132
Mean	78.03
Std Dev	49.3

Top-AntiTop MC  
Single Muon Data  
HTMHT Data  
Single Electron Data

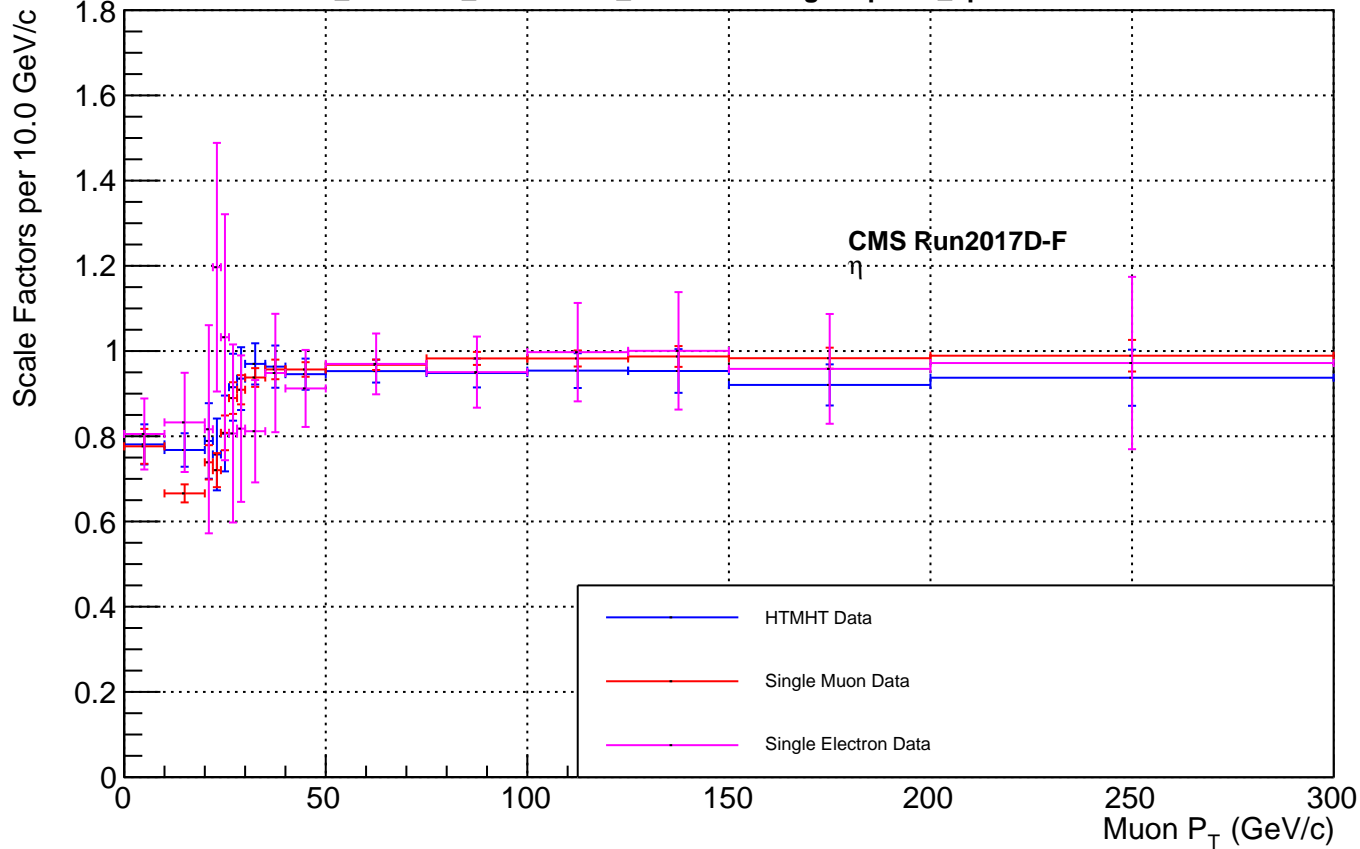


IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2

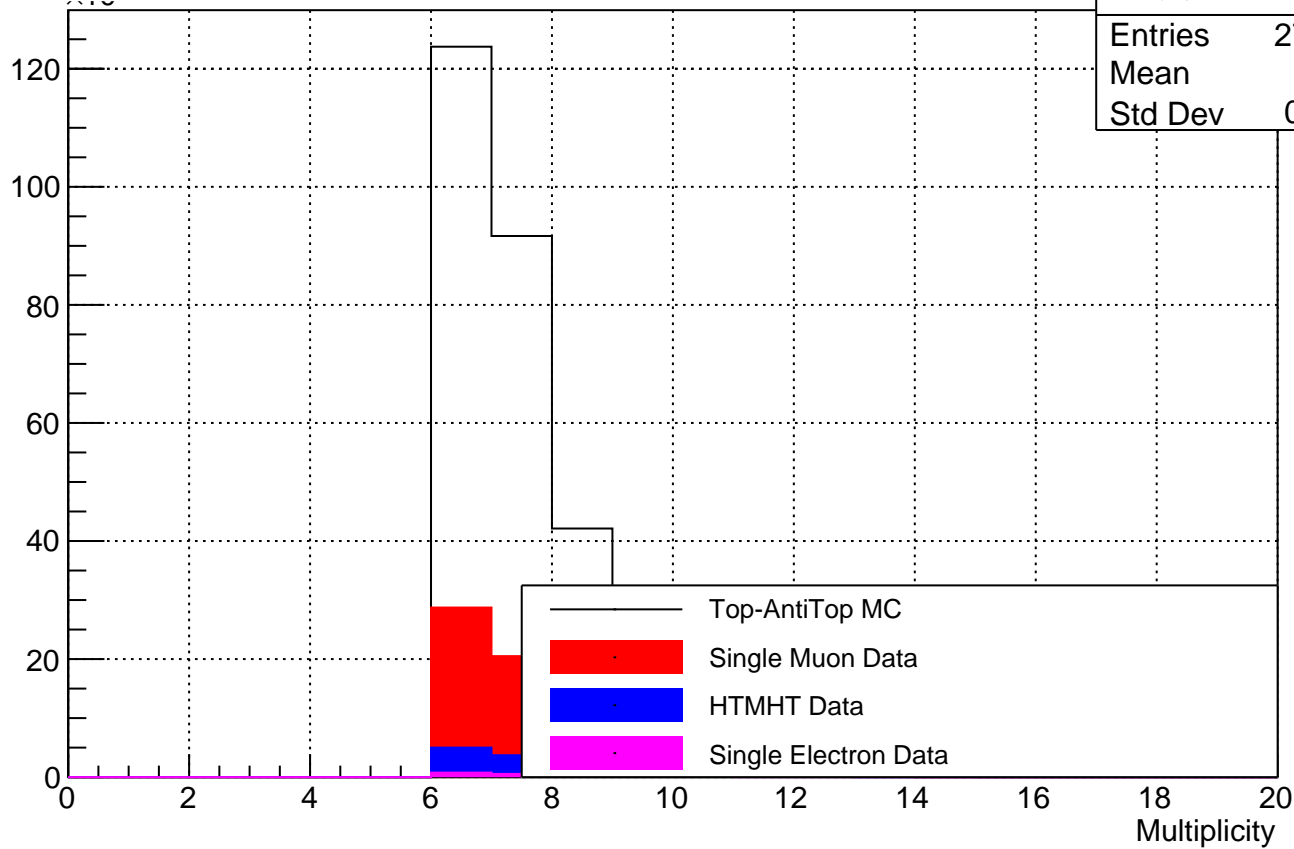
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2  
IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2  
IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2

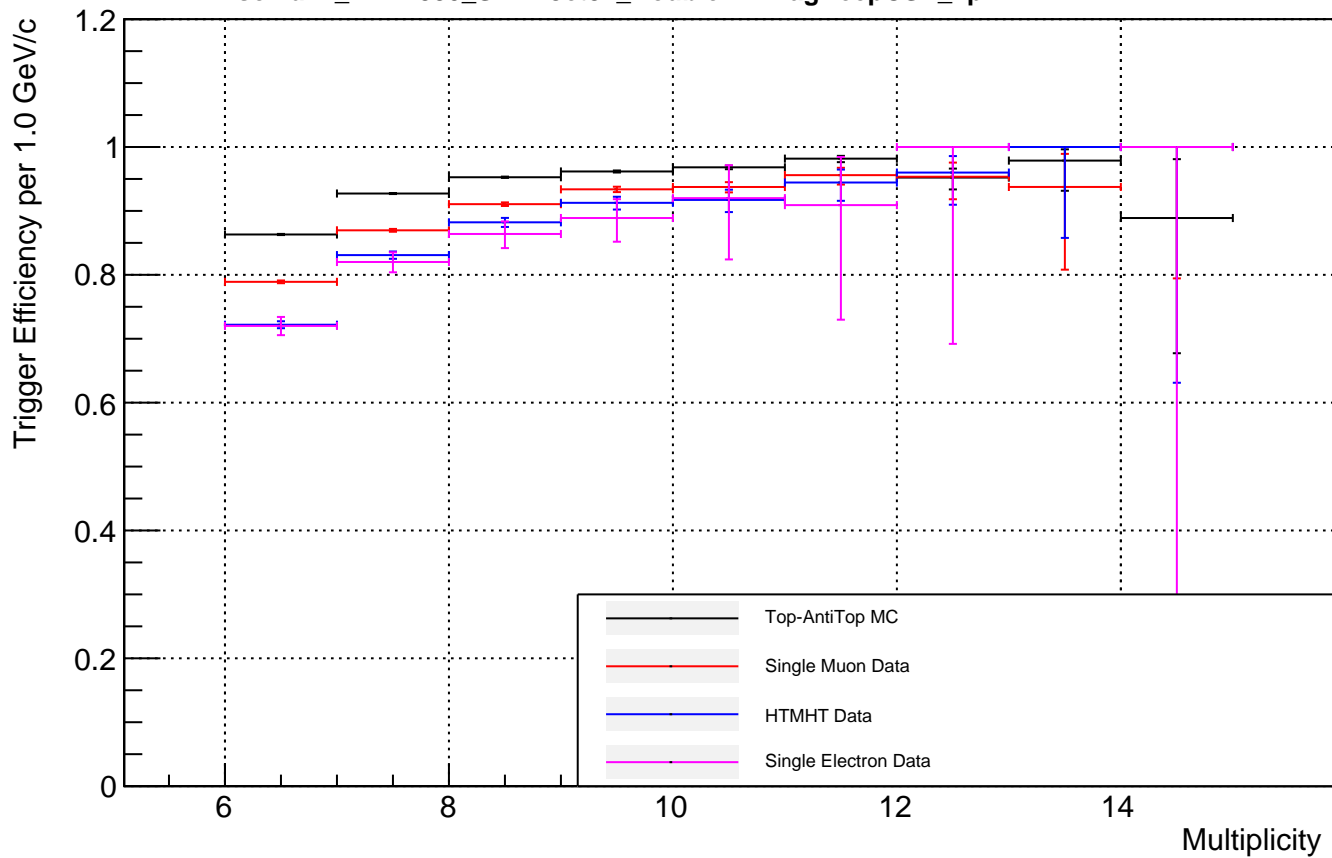


Number of Events per Number of Jets



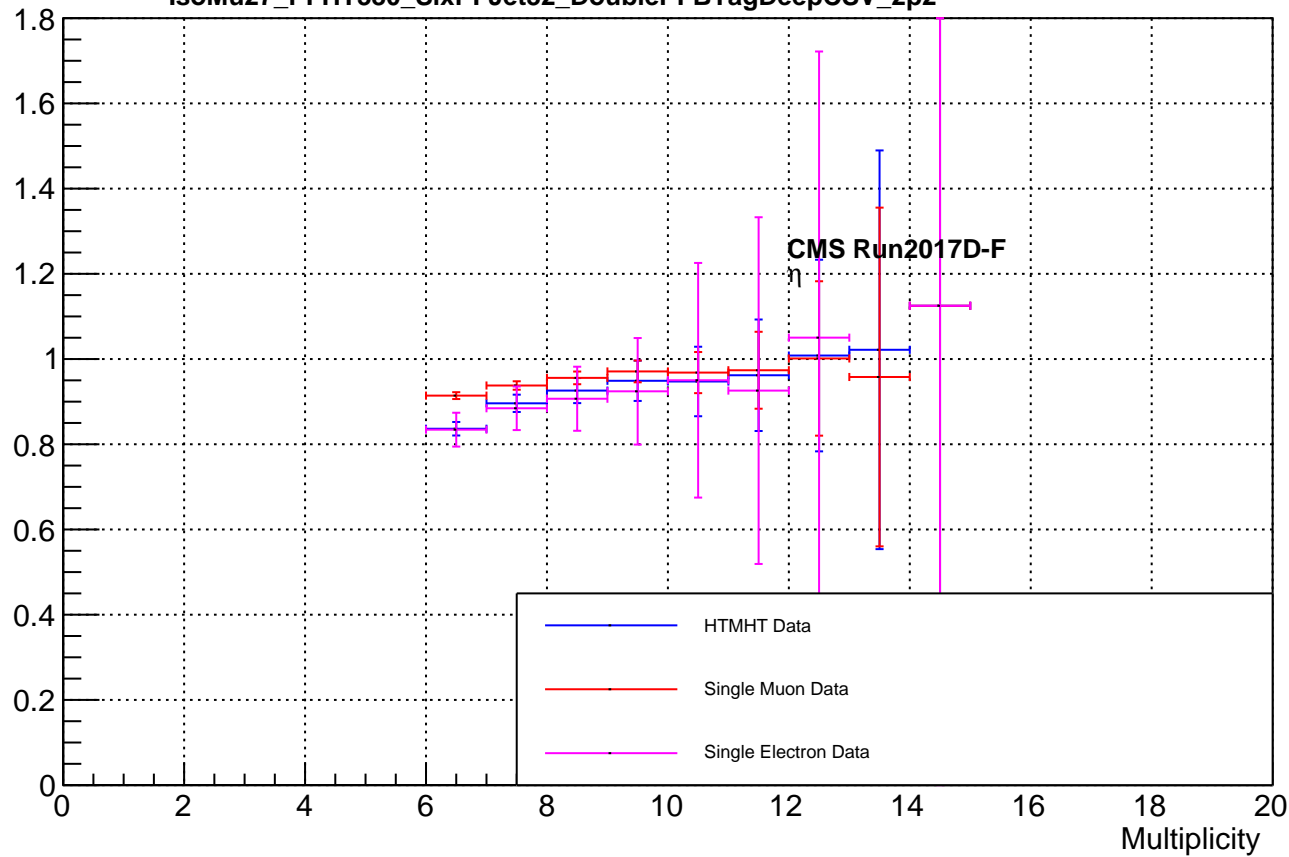
Entries	277132
Mean	6.871
Std Dev	0.9999

IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2  
IsoMu27\_PFHT380\_SixPFJet32\_DoublePFBTagDeepCSV\_2p2



IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2  
IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2  
IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2

Scale Factors per 1.0 GeV/c



IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2  
IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2  
IsoMu27 PFHT380 SixPFJet32 DoublePFBTagDeepCSV 2p2

Scale Factors per 1.0 GeV/c

