

On-line (pre-)selection Requisites for:

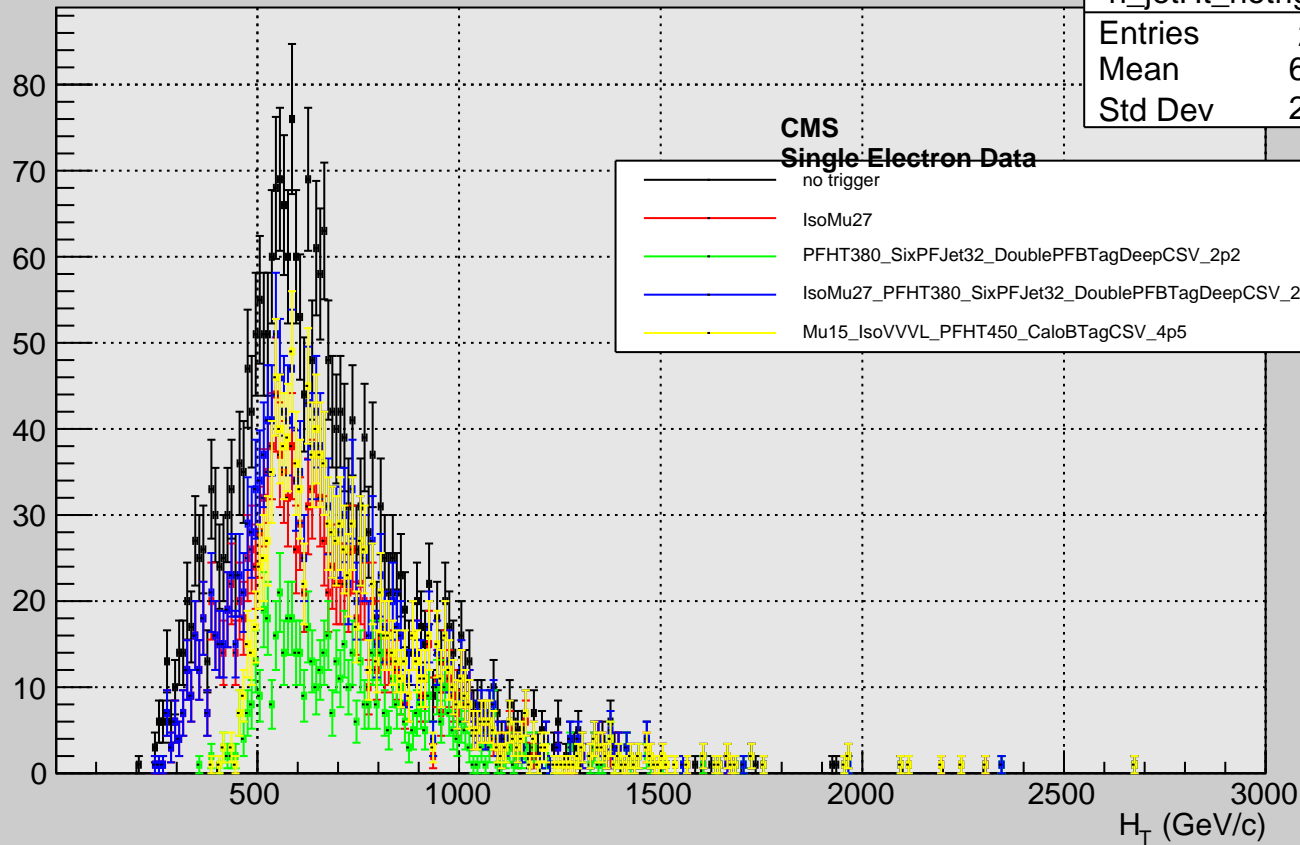
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

Off-line (post-)selection Requisites for:

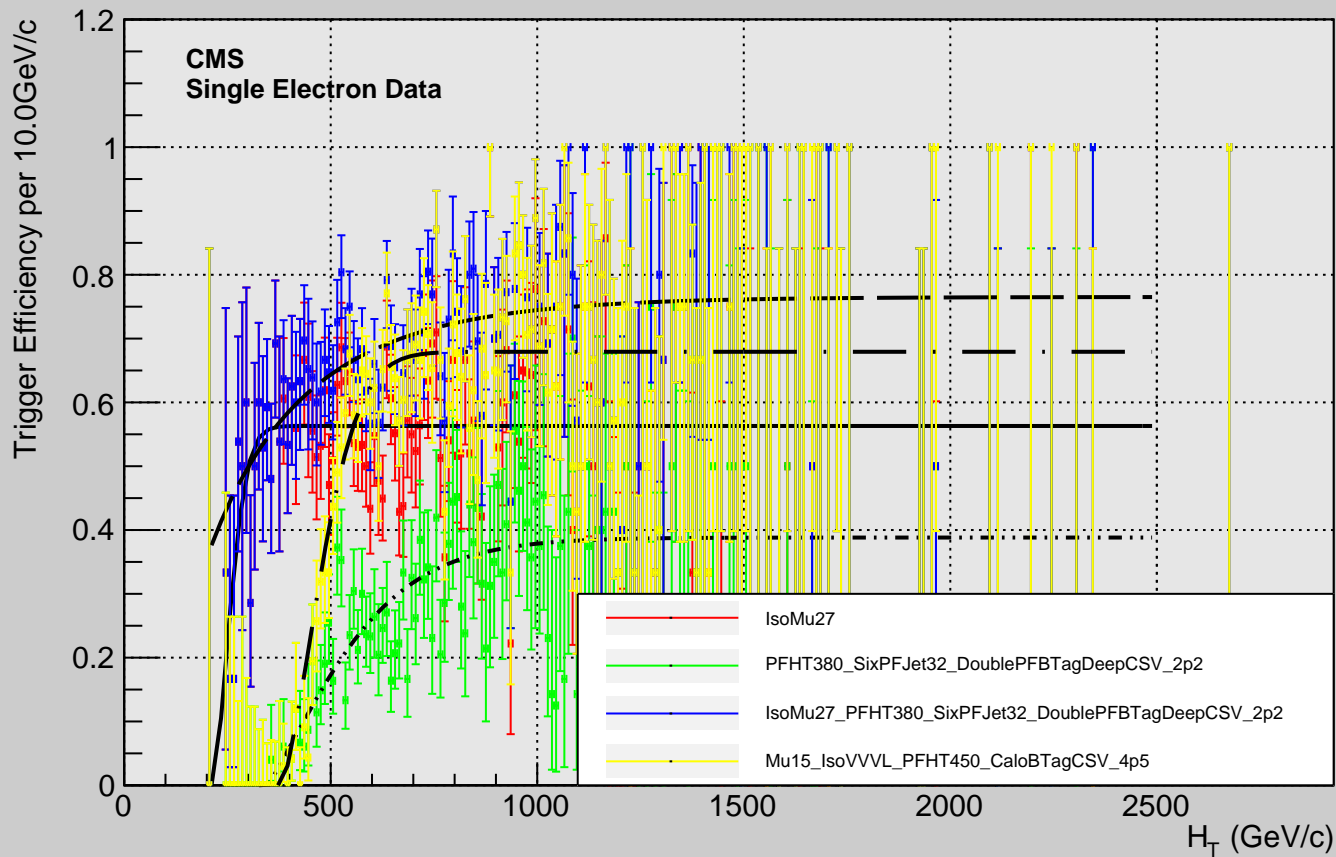
- **Jets:** $\text{jetId} > 2$, $p_T > 30$ and $|\eta| < 2.4$ (for at least 6 jets)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.15$ (for at least 1)

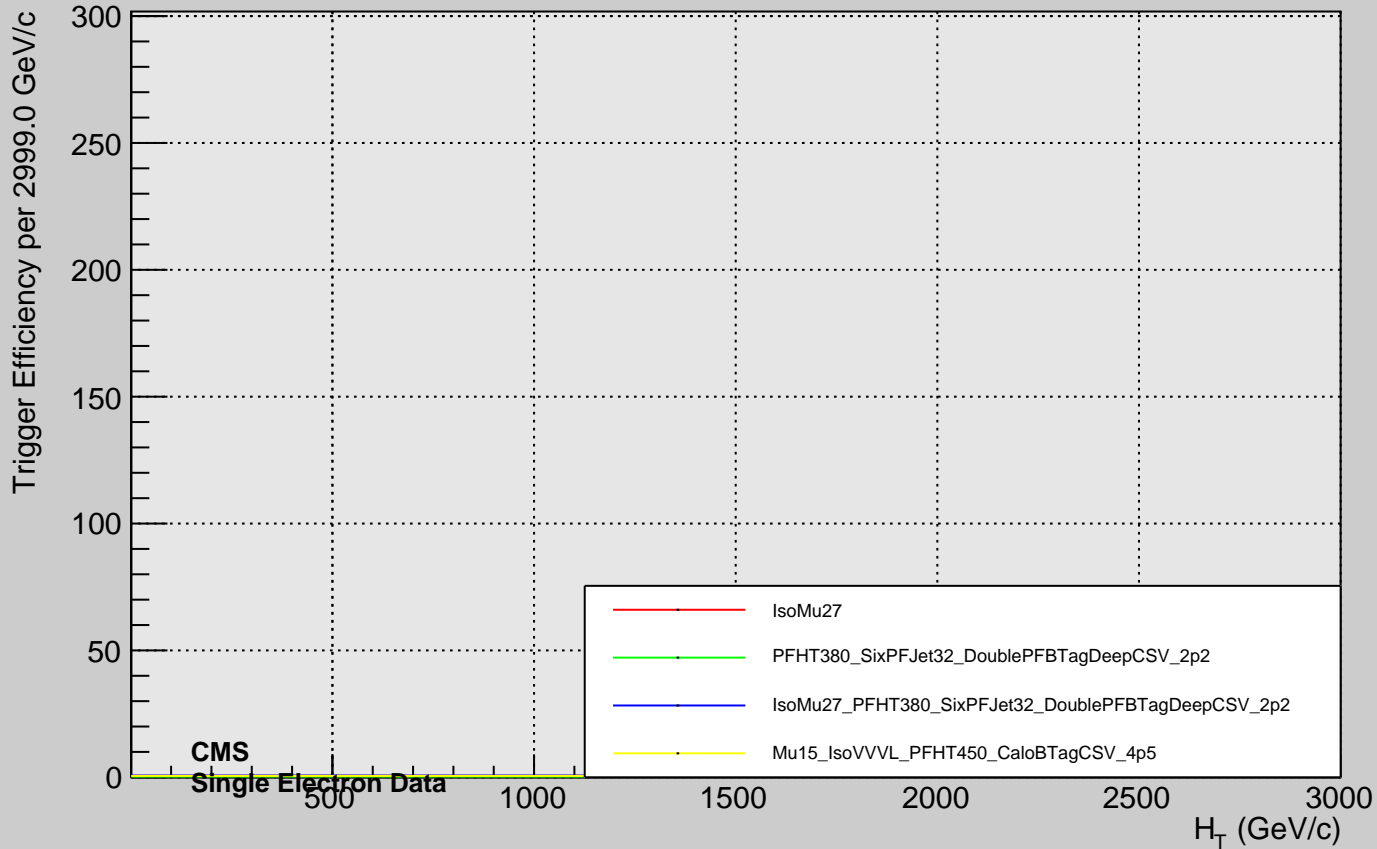
Number of Events per 10 GeV/c



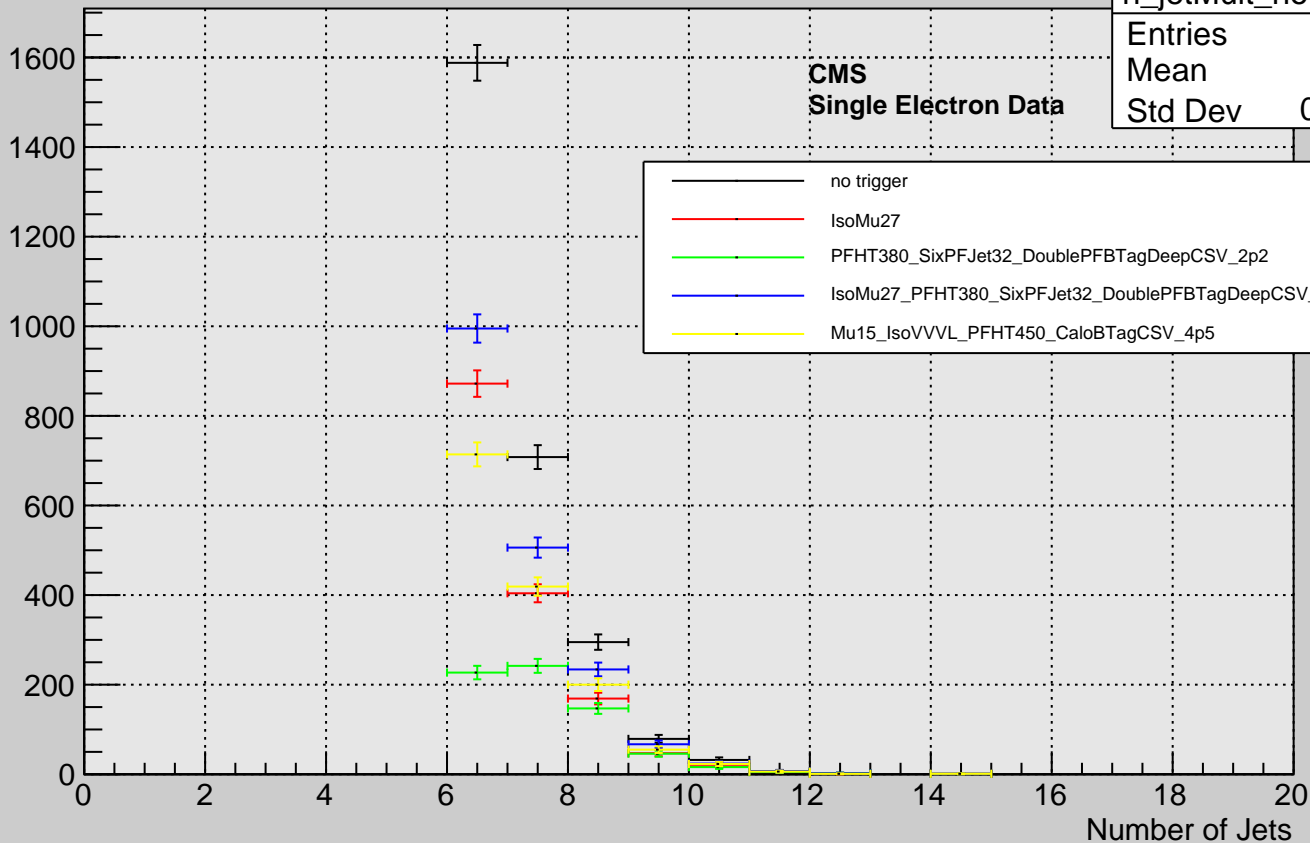
h_jetHt_nottrigger

| | |
|---------|-------|
| Entries | 2712 |
| Mean | 675.4 |
| Std Dev | 259.3 |

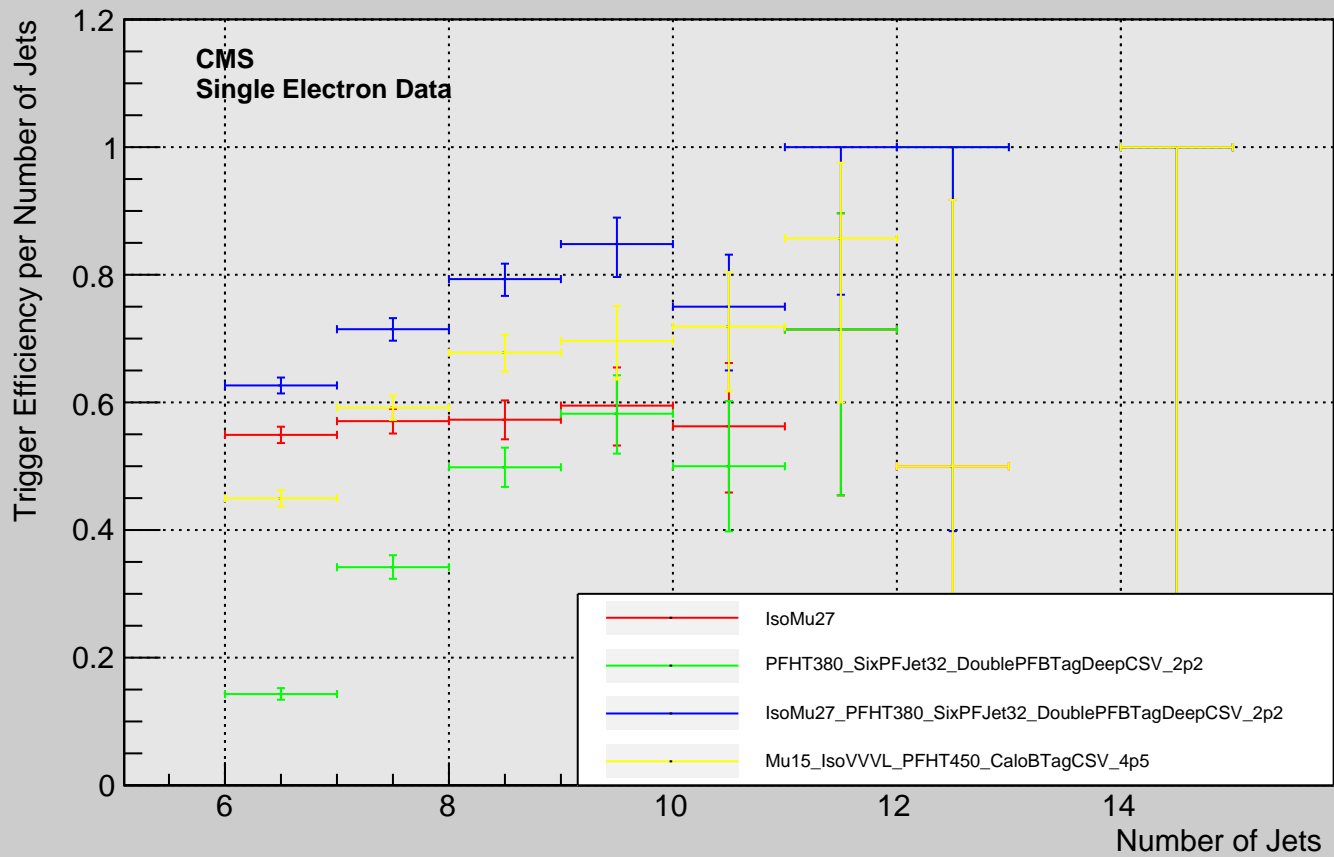




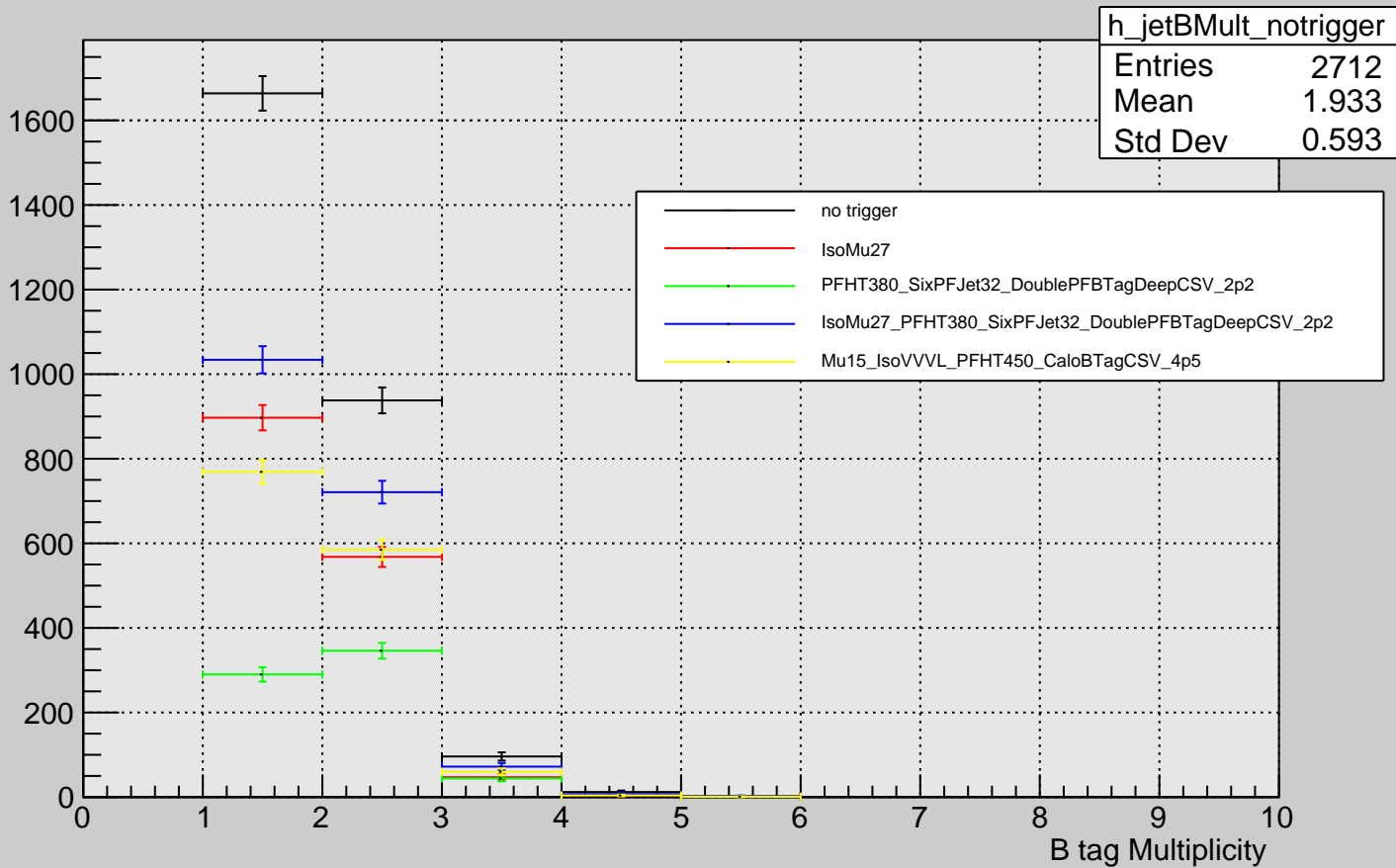
Number of Events per Number of Jets

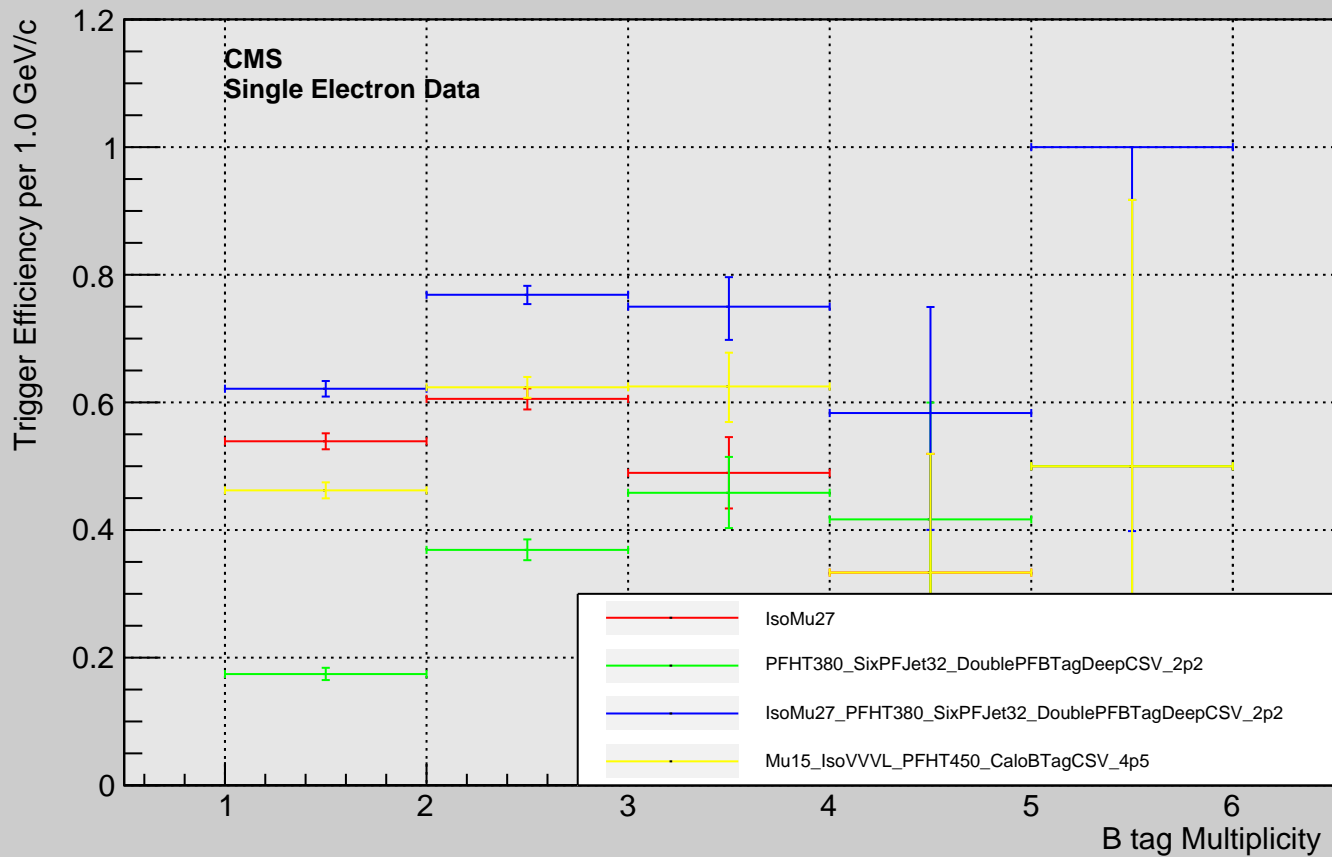


| h_jetMult_notrigger | |
|---------------------|--------|
| Entries | 2712 |
| Mean | 6.633 |
| Std Dev | 0.9276 |

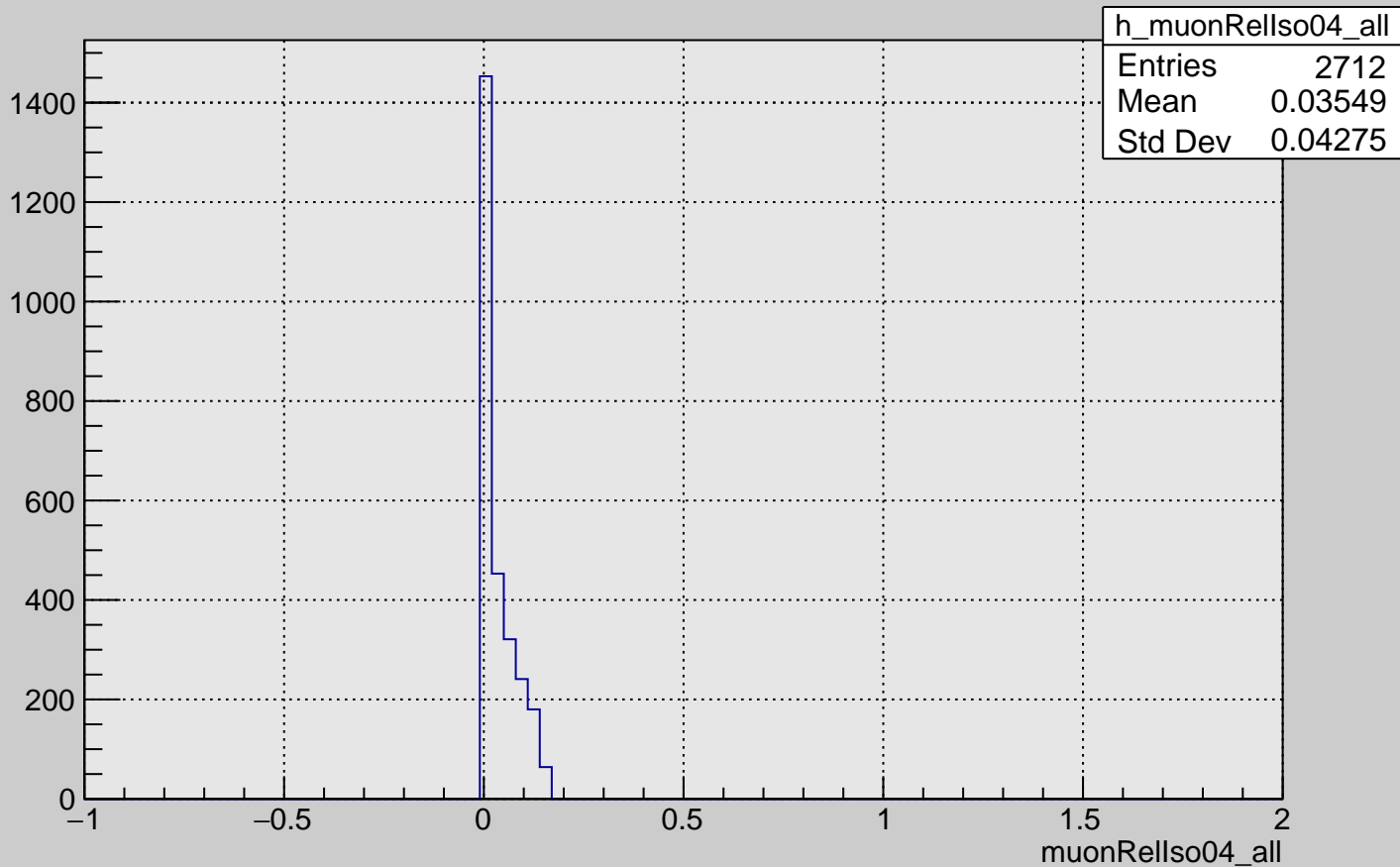


Number of Events per Number of Jets

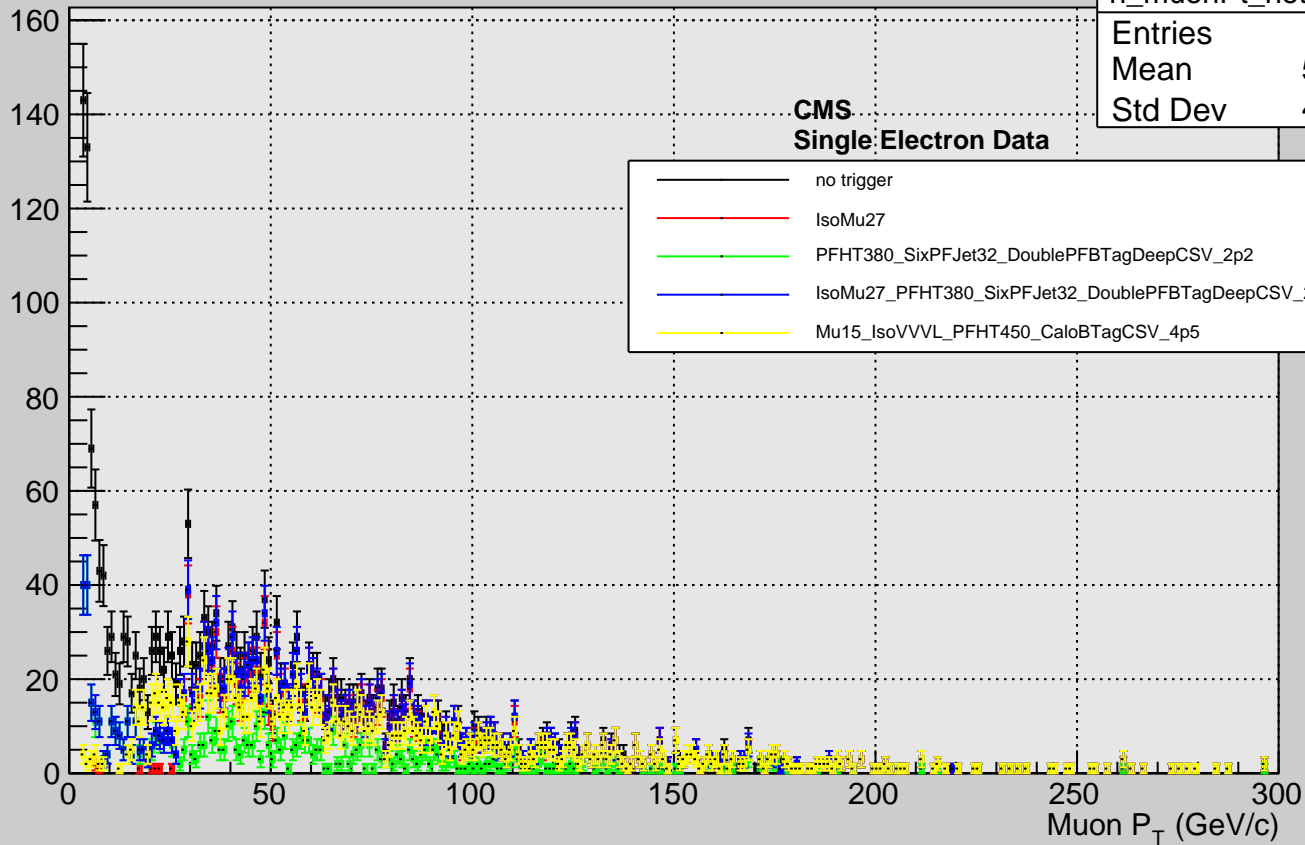




Number of Events



Number of Events per 1 GeV/c



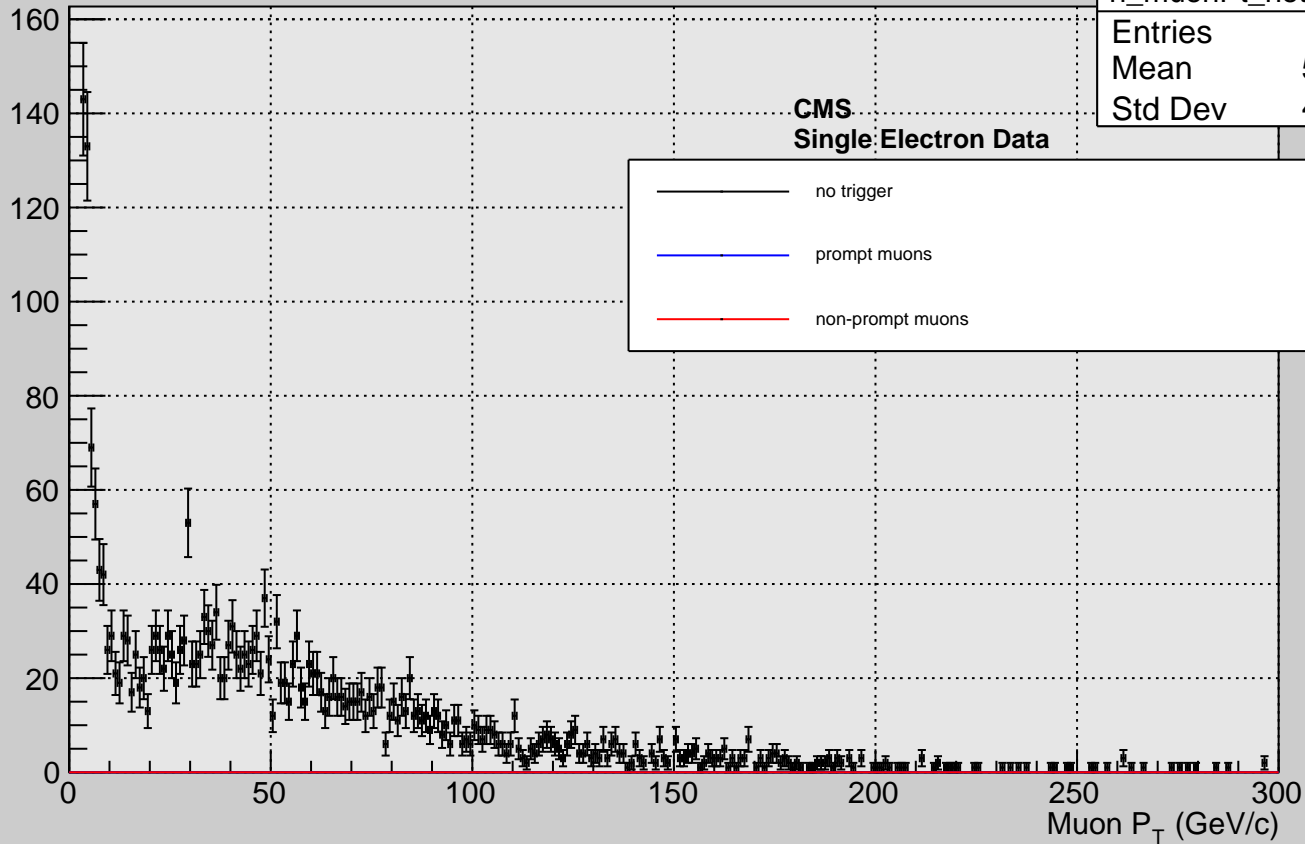
h_muonPt_notrigger

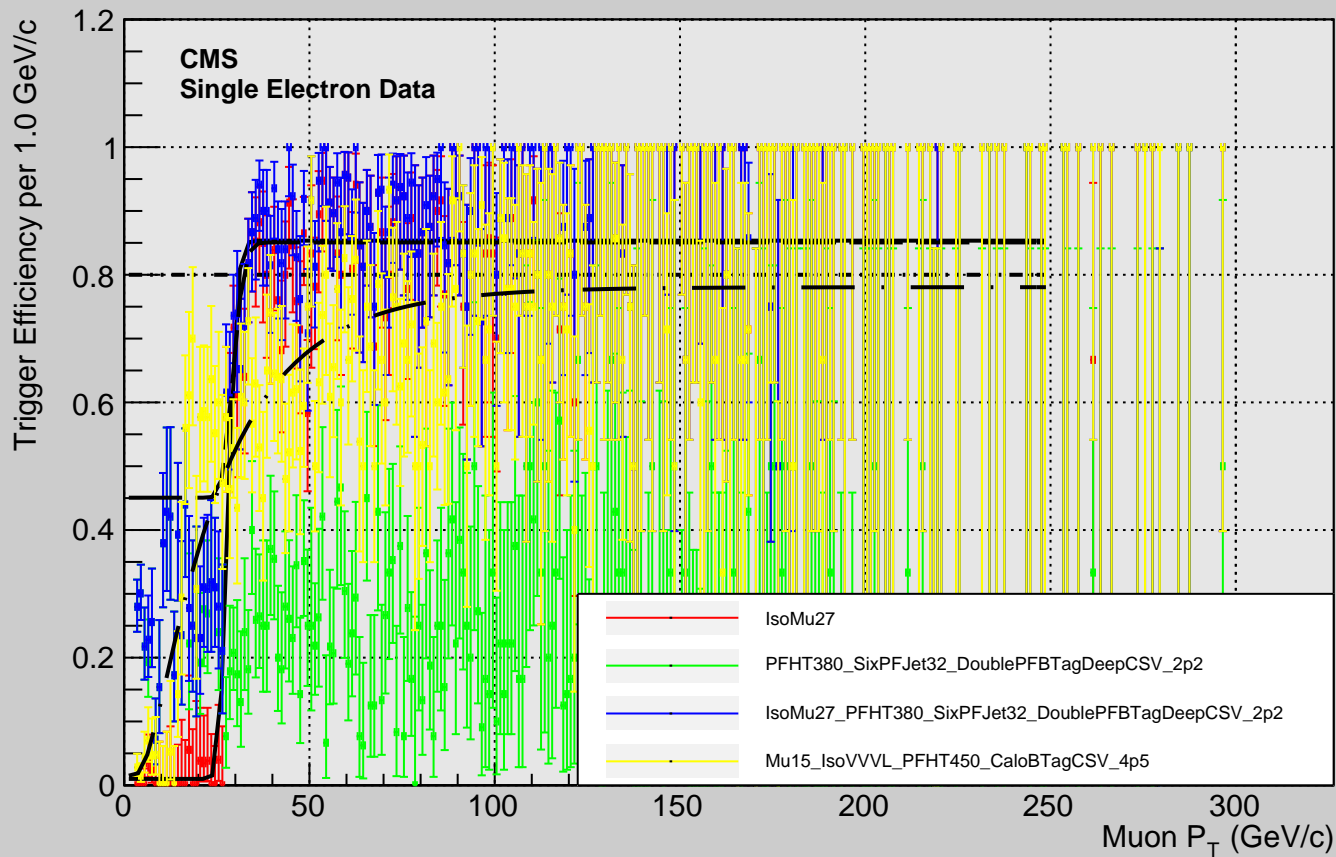
Entries 2712

Mean 54.89

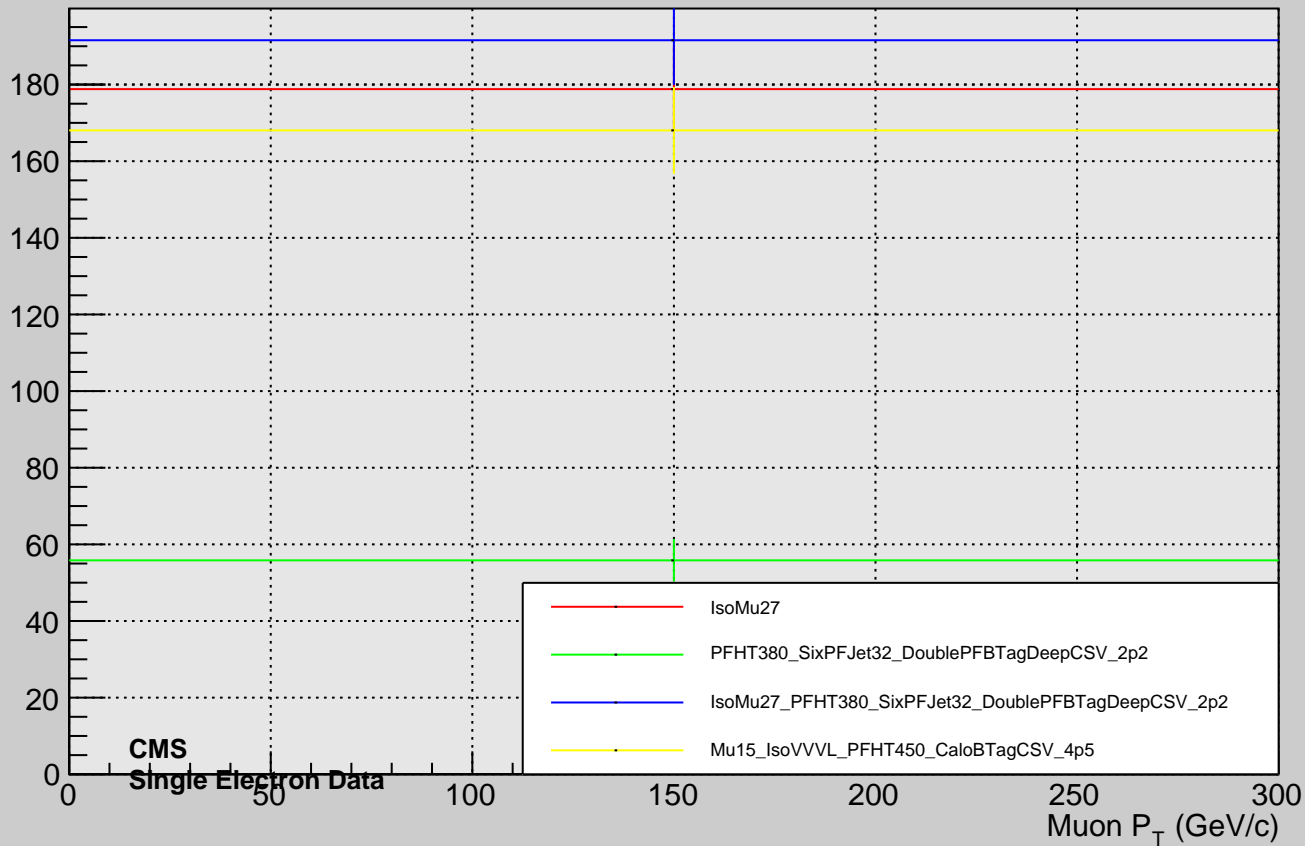
Std Dev 49.38

Number of Events per 1 GeV/c

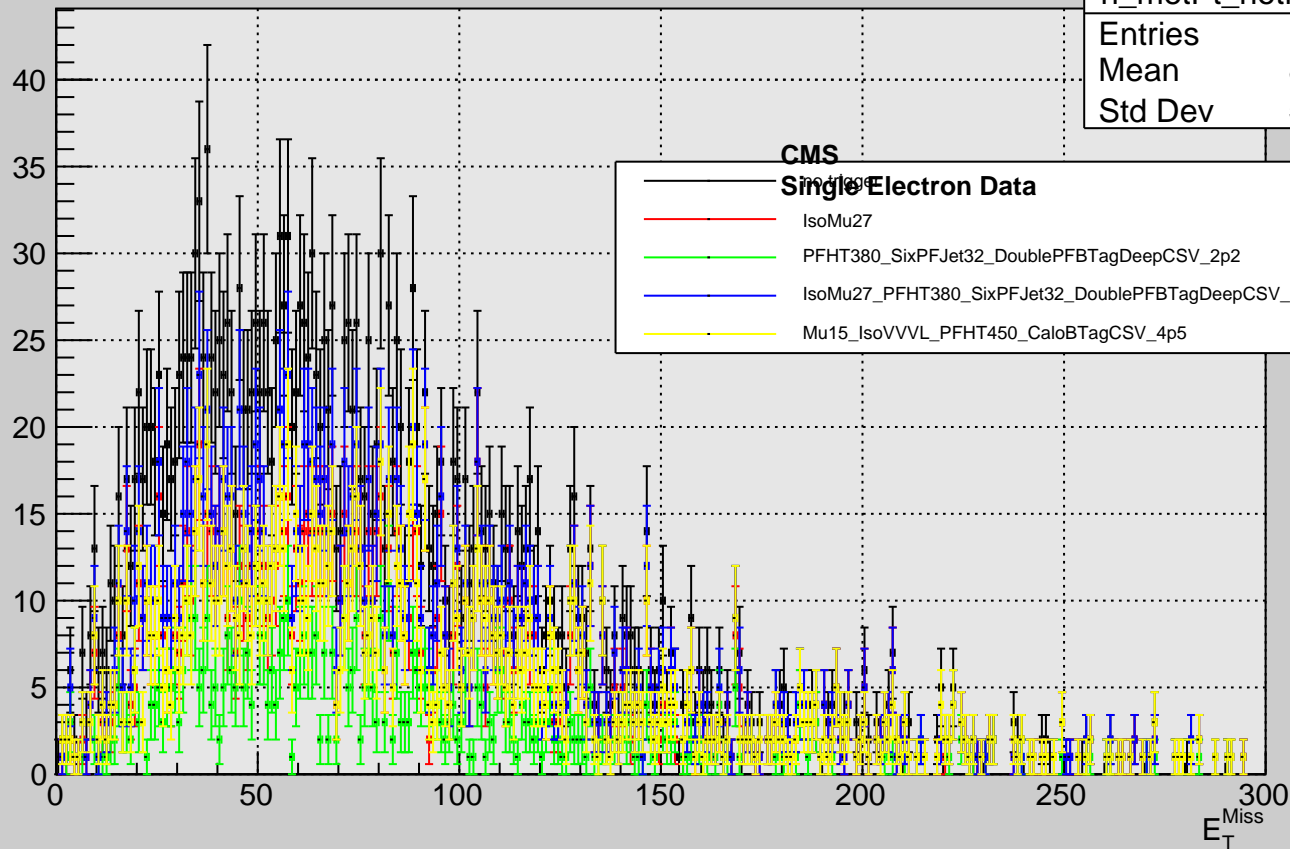




Trigger Efficiency per 1.00 GeV/c



Number of Events per 1 GeV/c

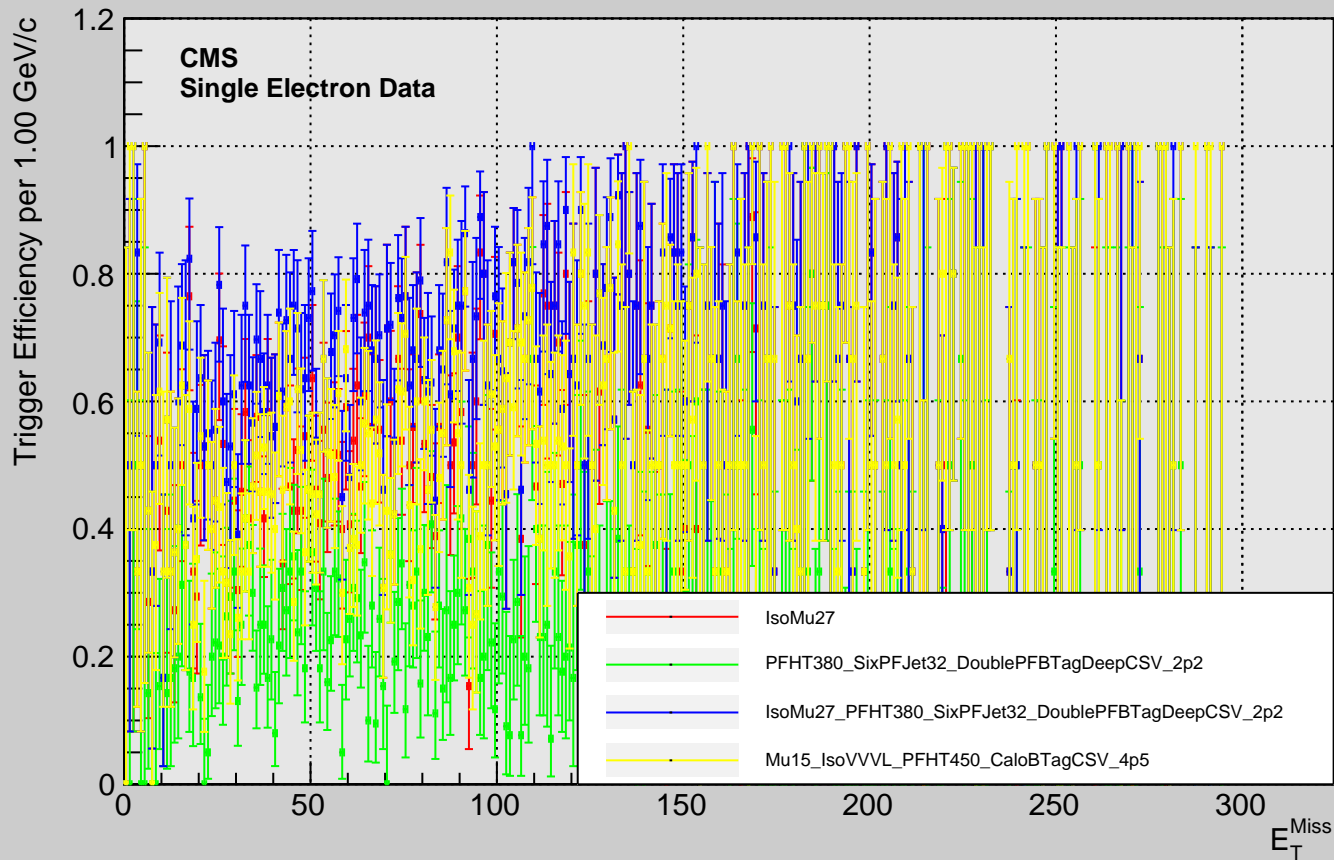


h_metPt_notrigger

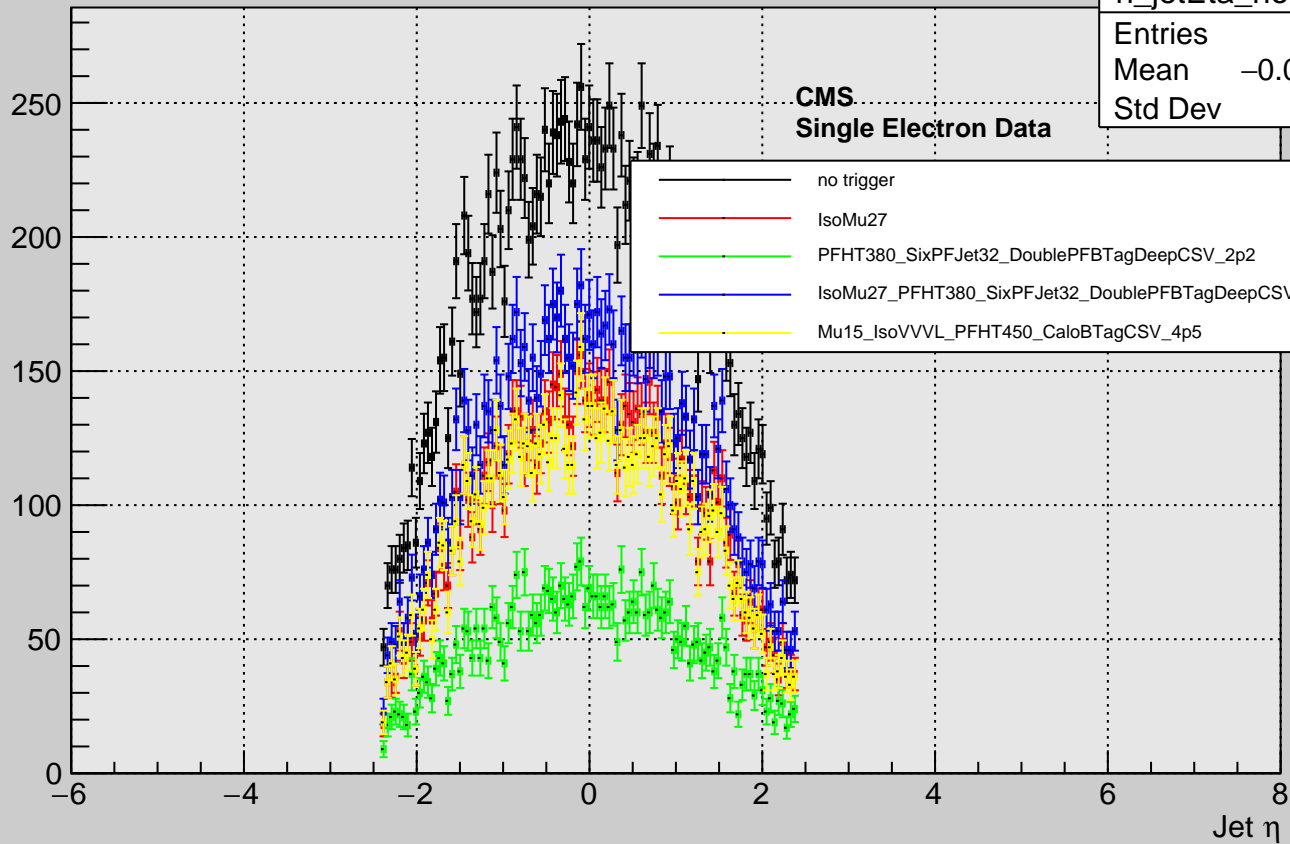
Entries 2712

Mean 83.06

Std Dev 54.28



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



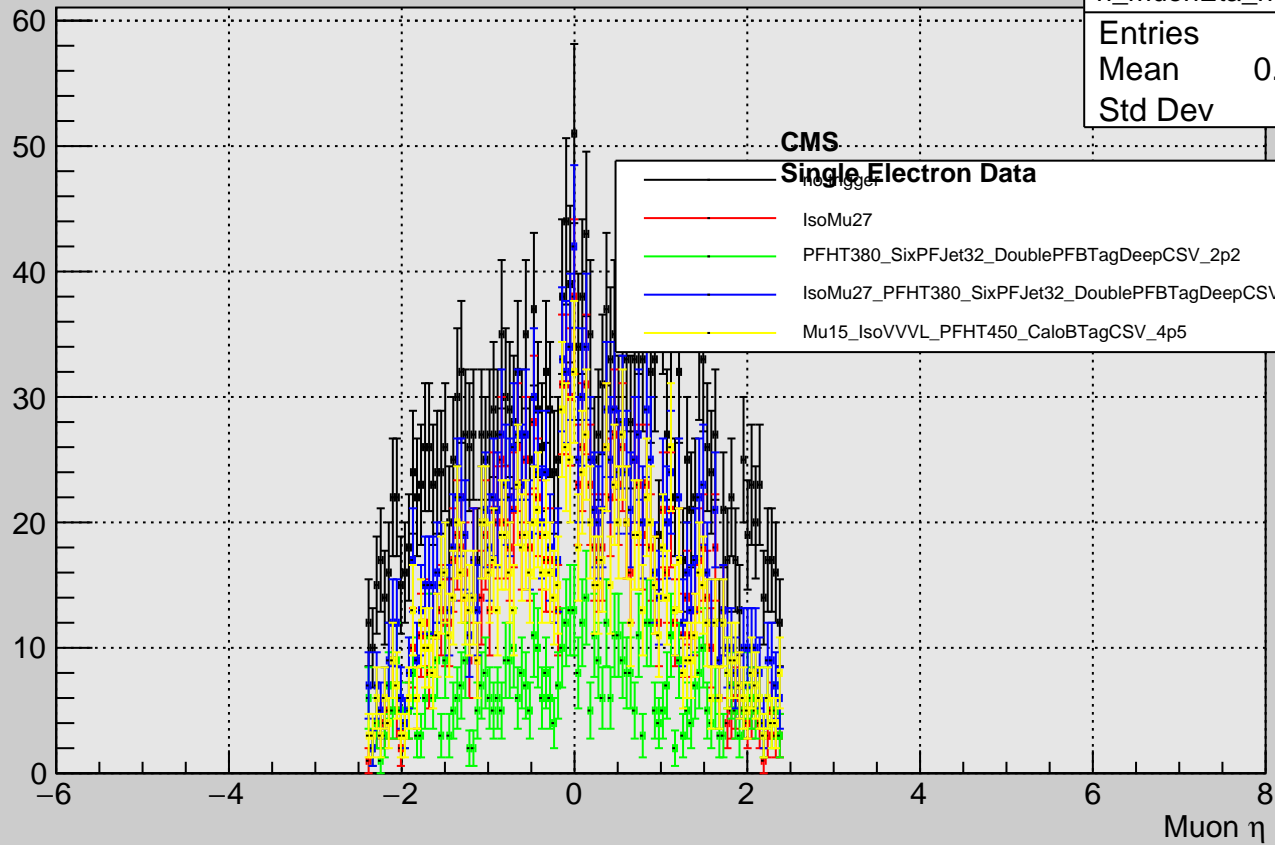
h_jetEta_notrigger

Entries 17990

Mean -0.007032

Std Dev 1.18

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



| h_muonEta_nottrigger | |
|----------------------|---------|
| Entries | 2712 |
| Mean | 0.01742 |
| Std Dev | 1.234 |

