

On-line (pre-)selection Requisites for:

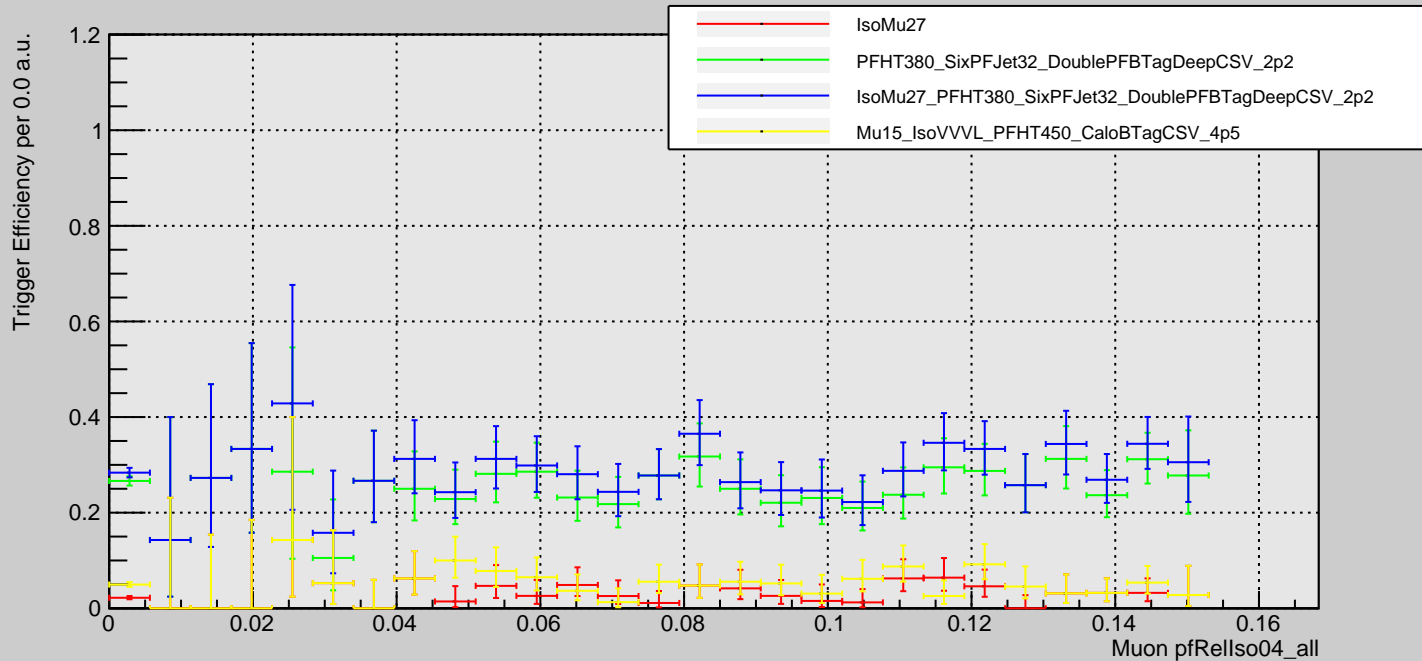
- **Jets:** number > 5
- **Muons plus Electrons:** number > 0

Event Limit: None (see last page)

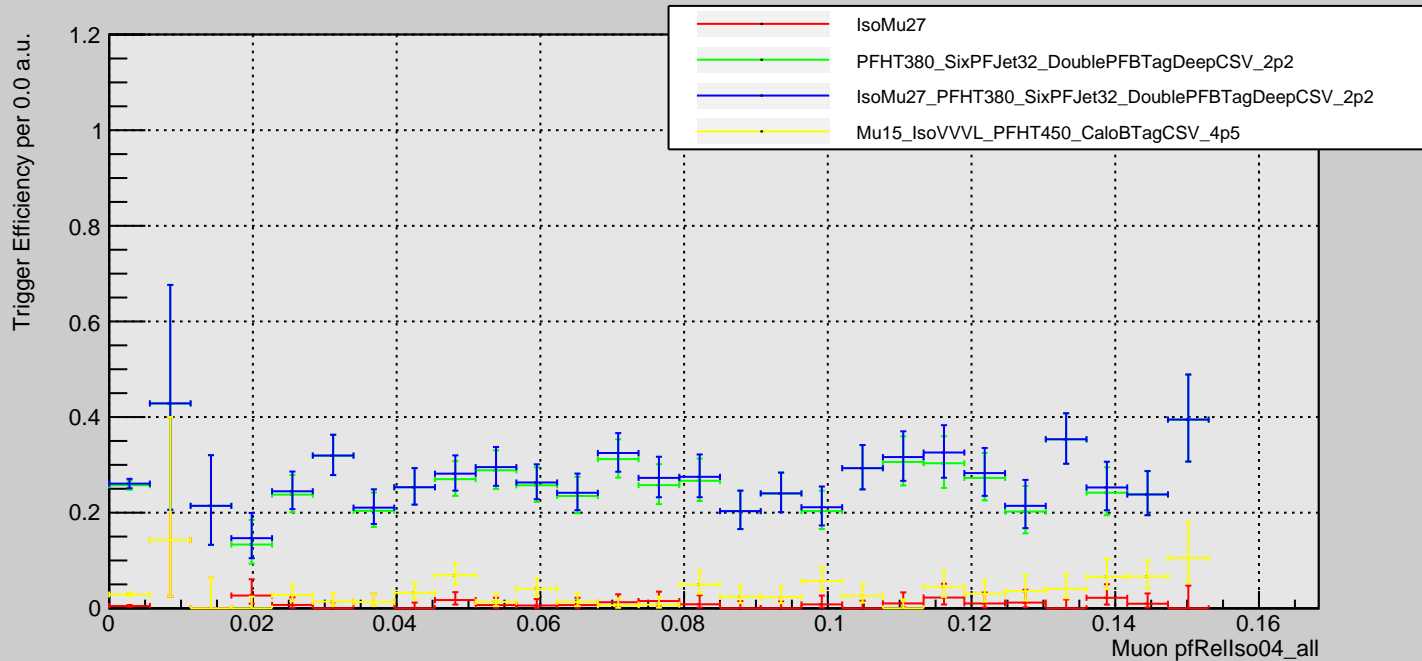
Off-line (post-)selection Requisites for:

- **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)

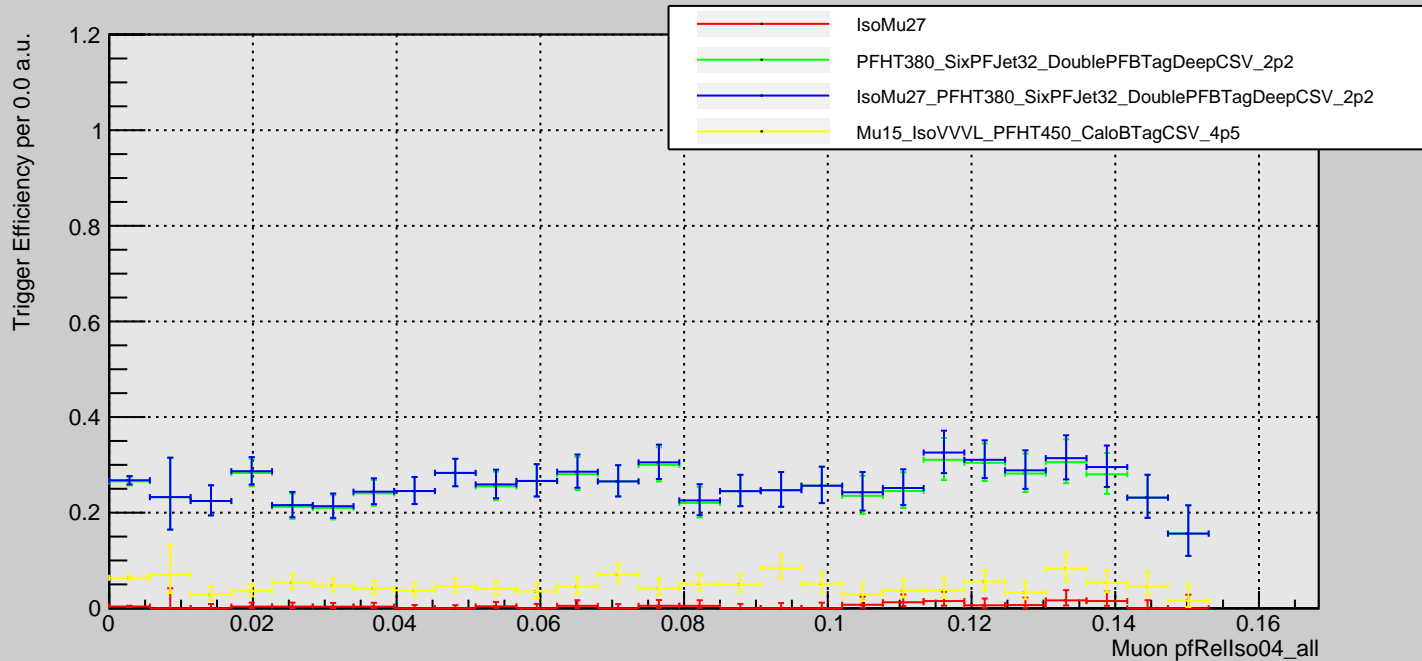
Muon Pt = 5



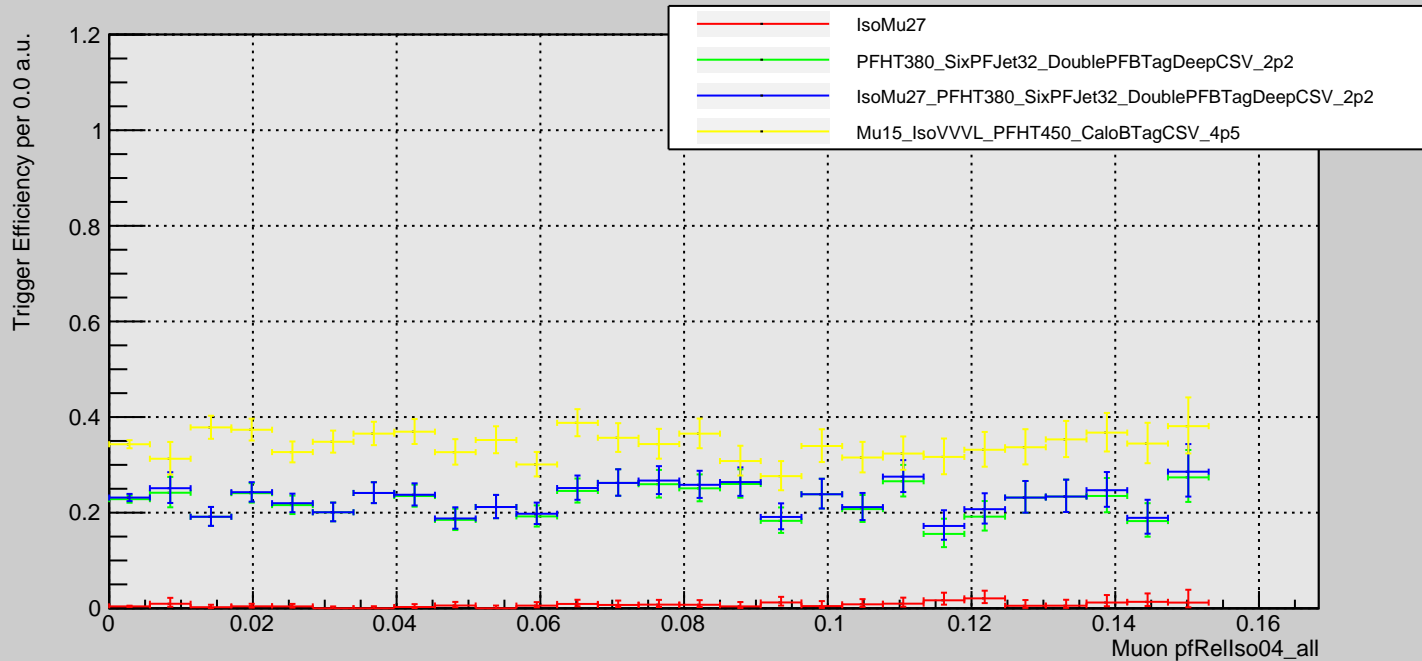
Muon Pt = 10



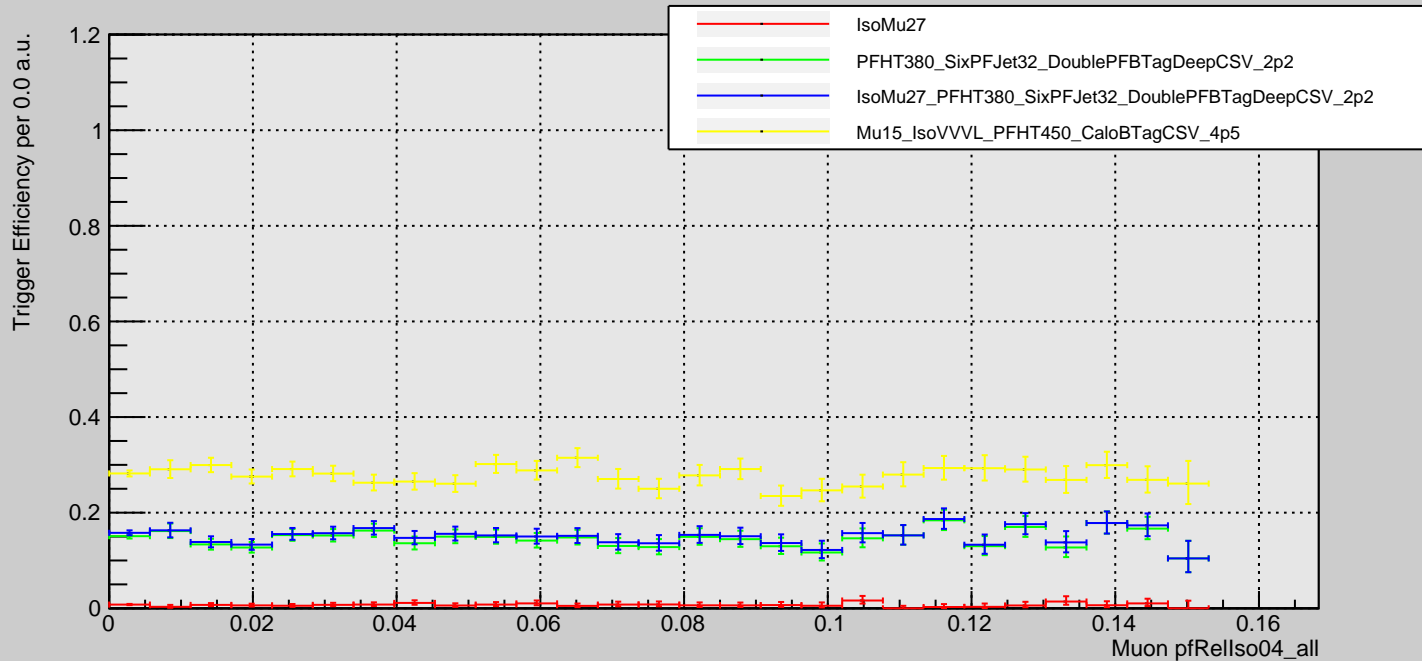
Muon Pt = 15



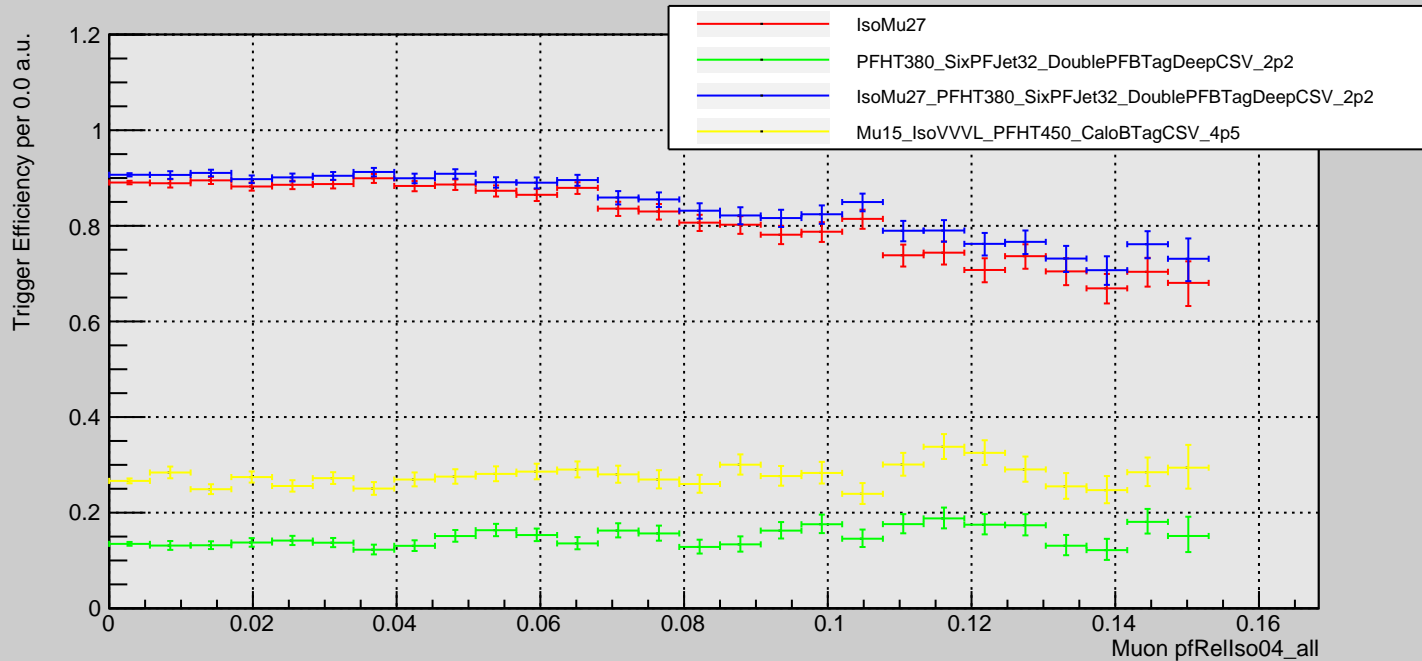
Muon Pt = 20



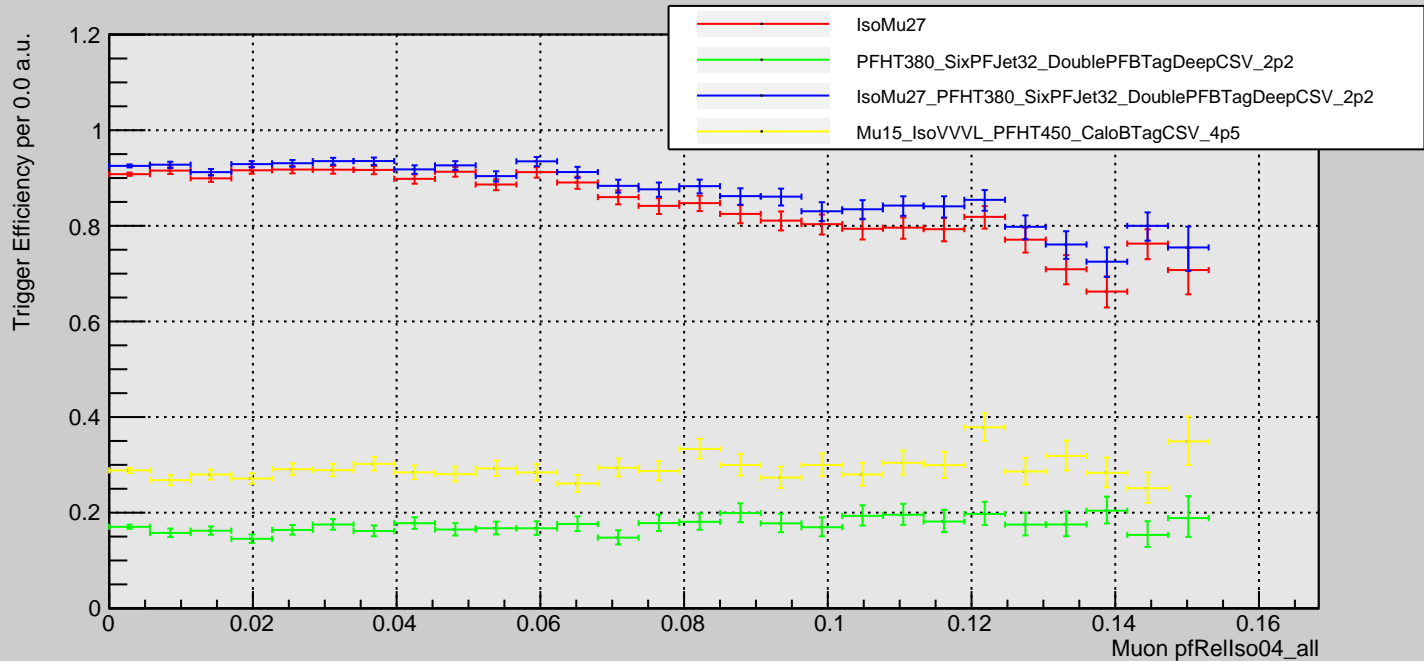
Muon Pt = 25



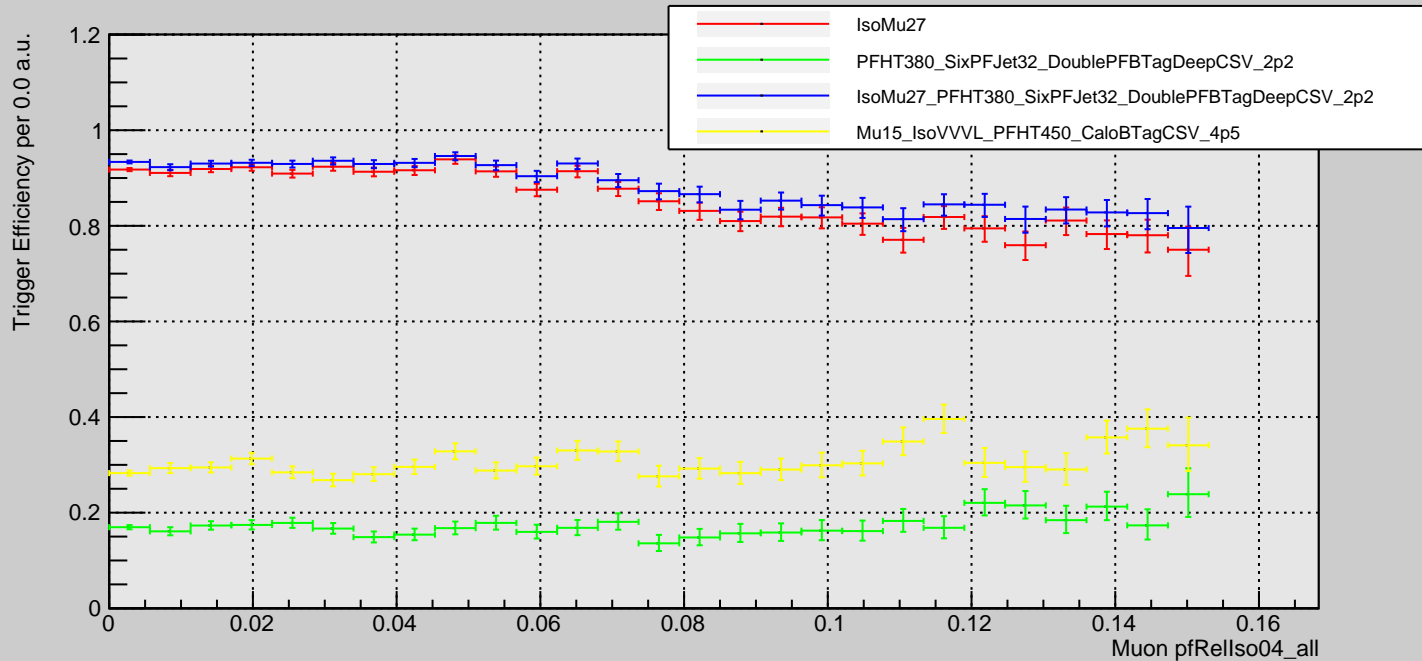
Muon Pt = 30



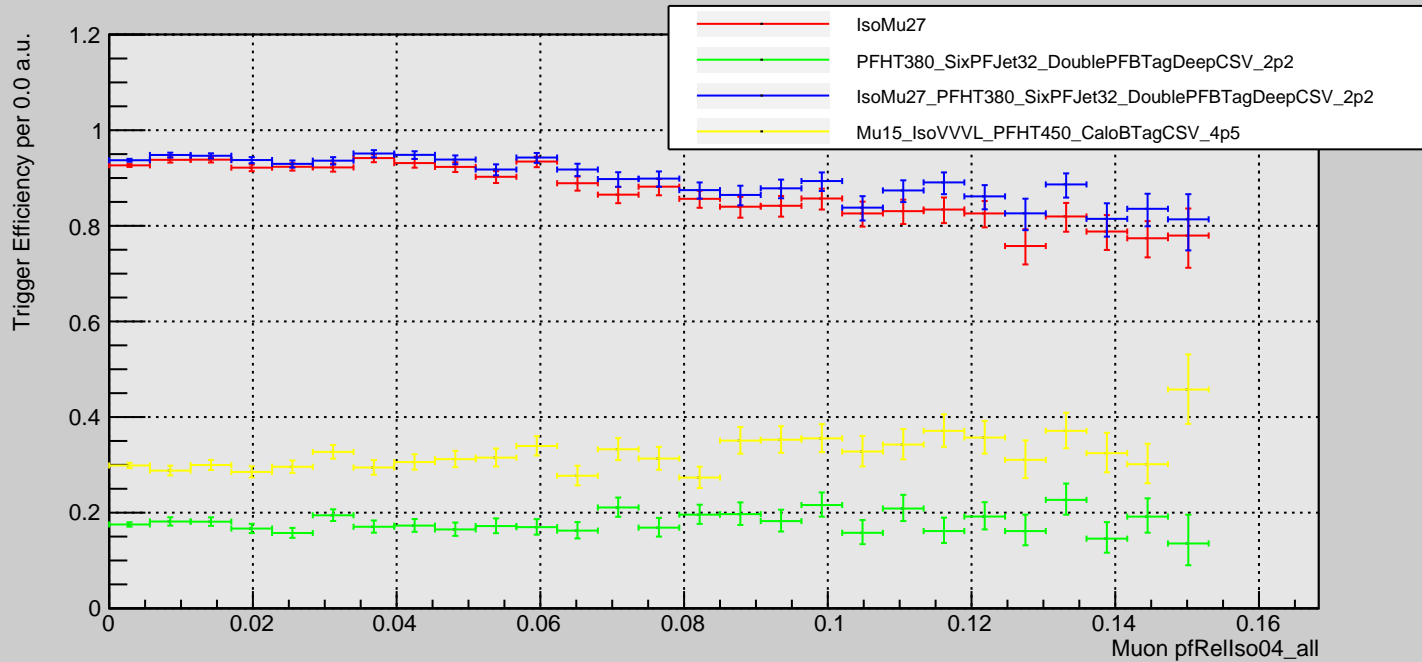
Muon Pt = 35



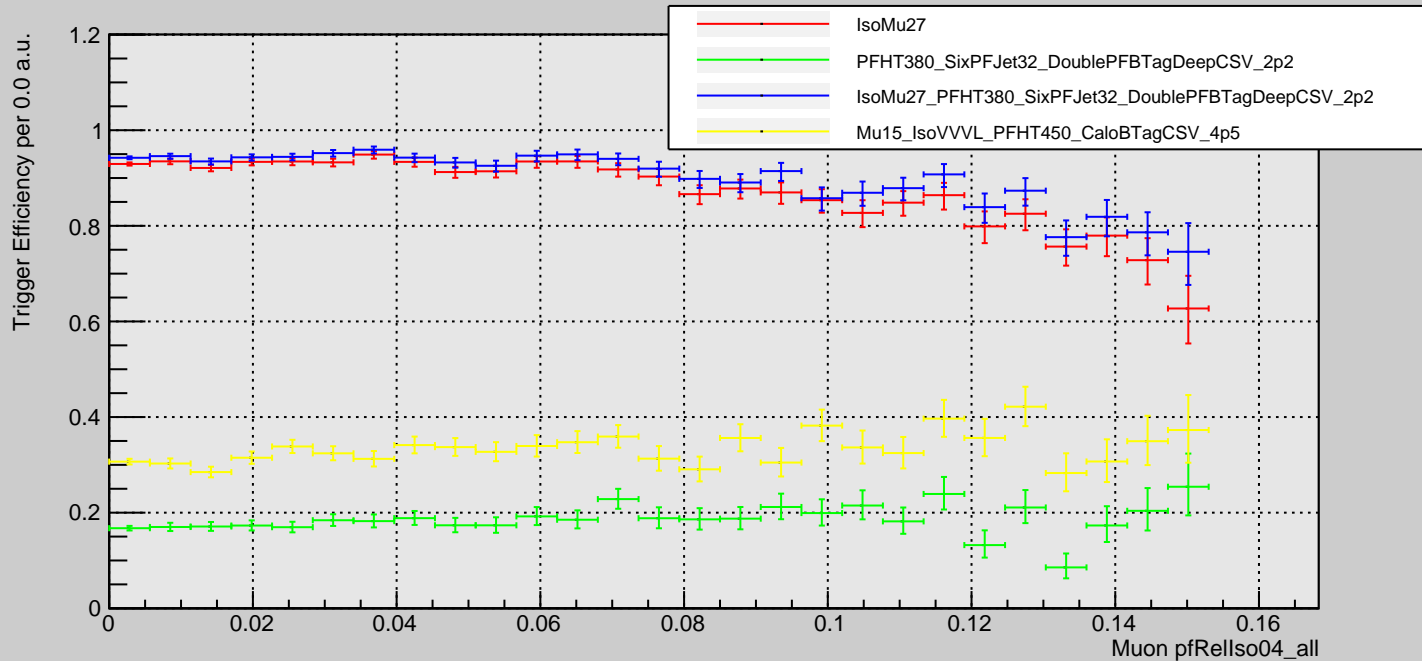
Muon Pt = 40



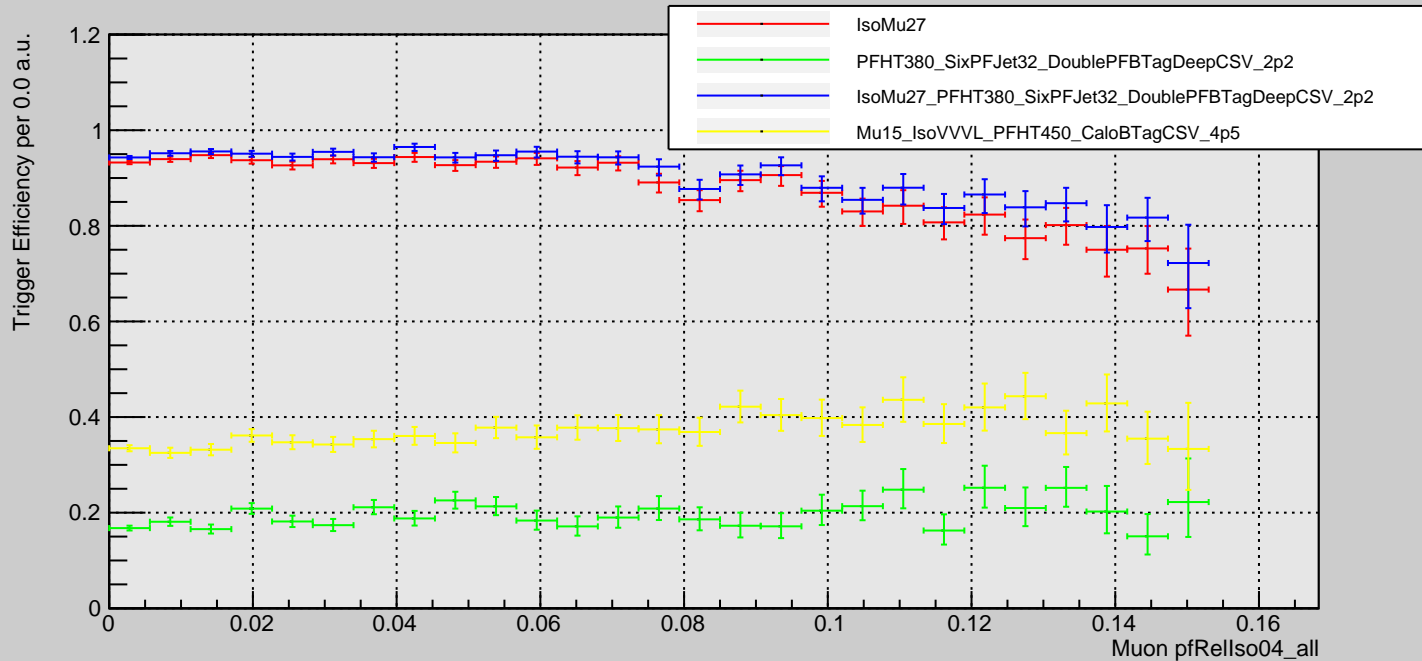
Muon Pt = 45



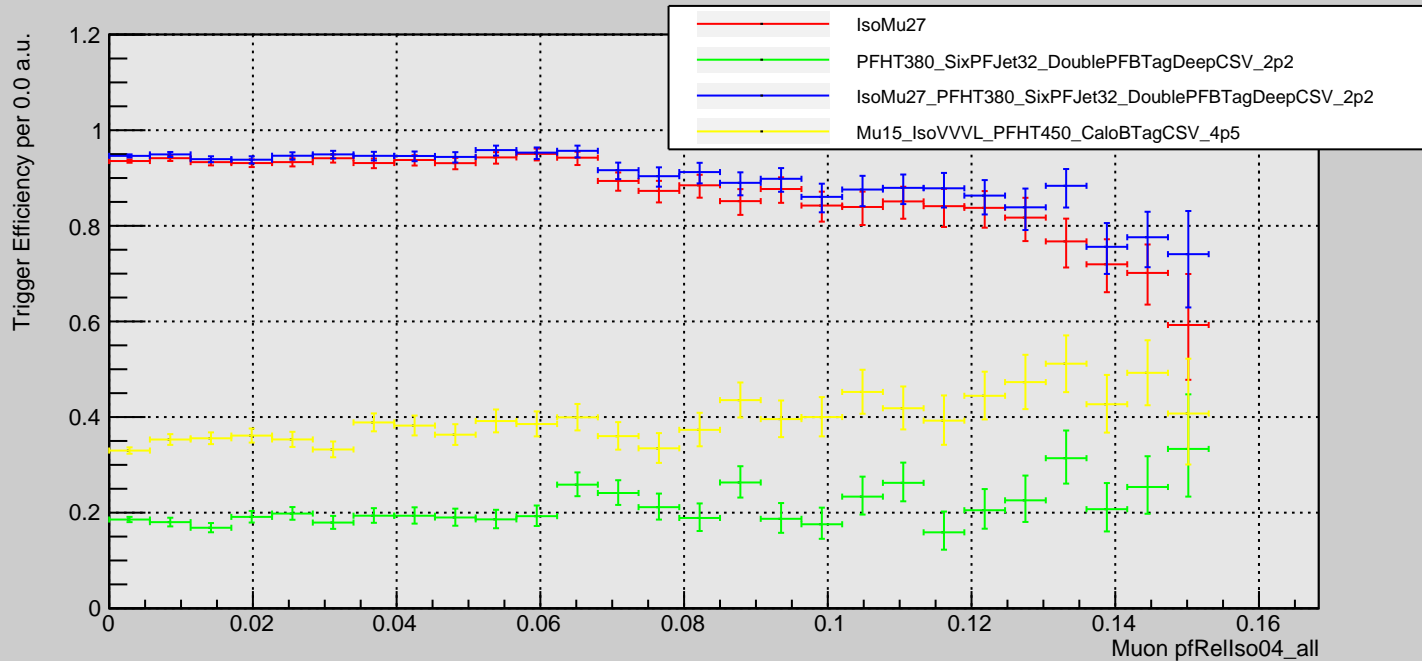
Muon Pt = 50



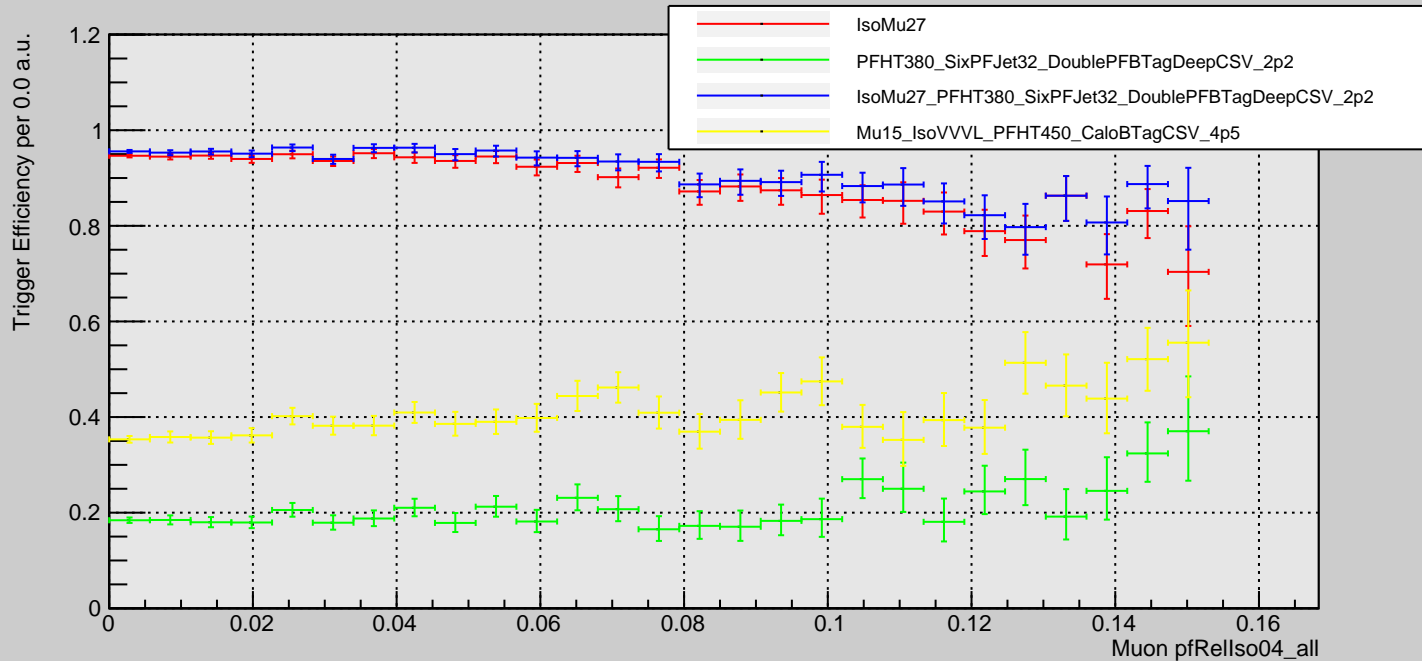
Muon Pt = 55



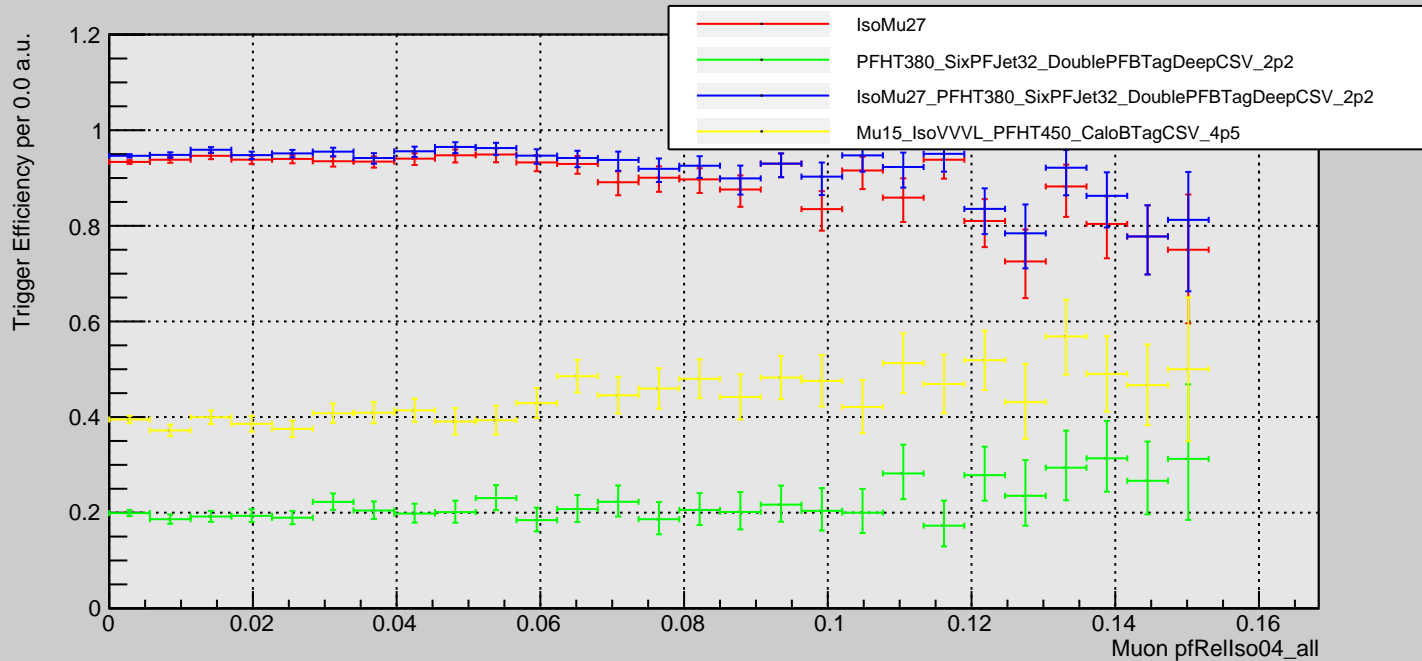
Muon Pt = 60



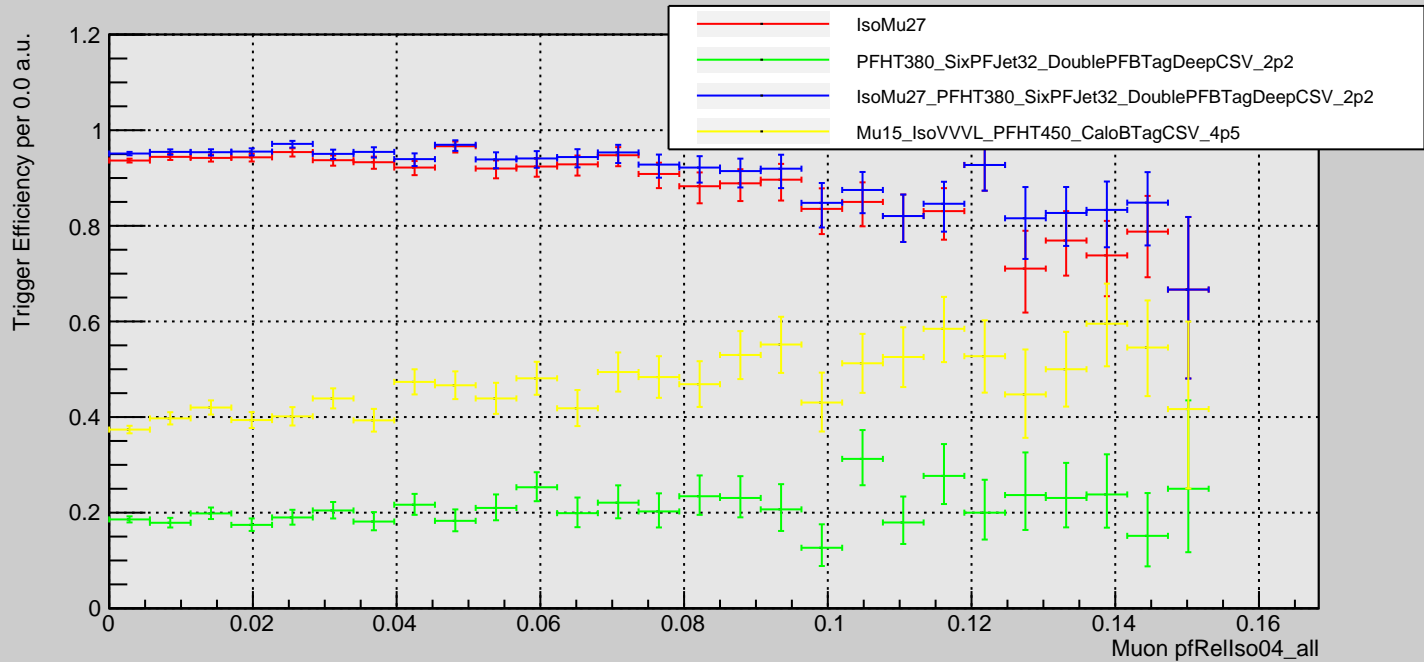
Muon Pt = 65



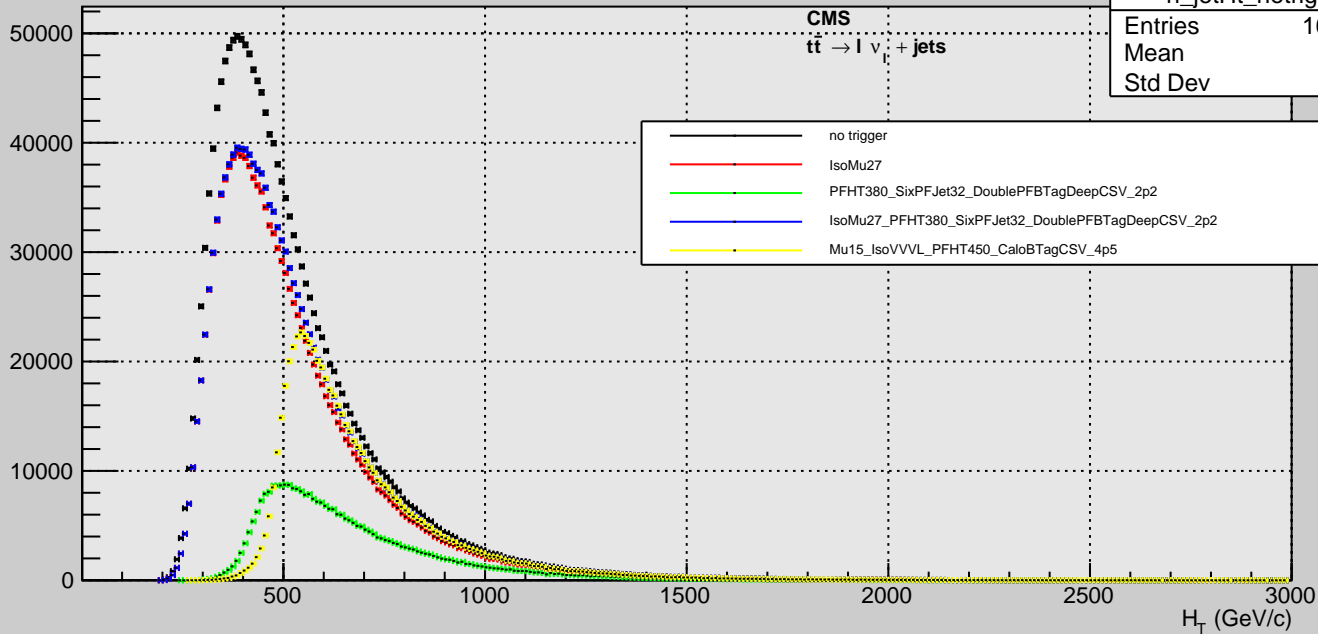
Muon Pt = 70

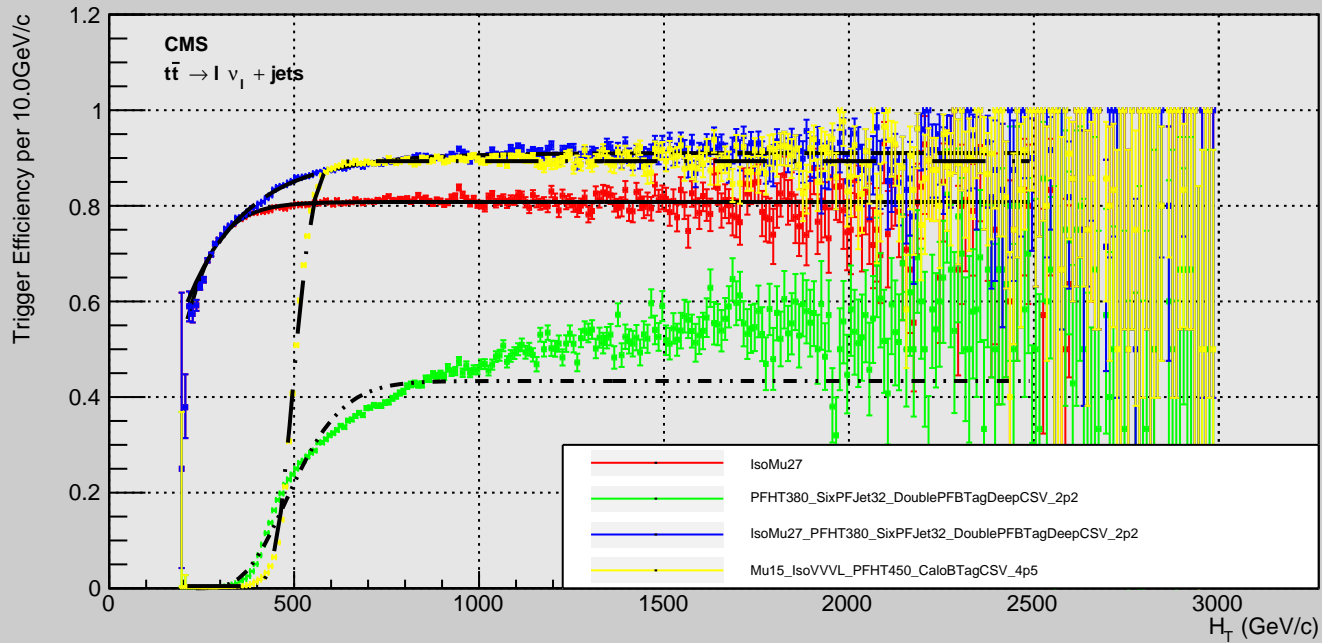


Muon Pt = 75

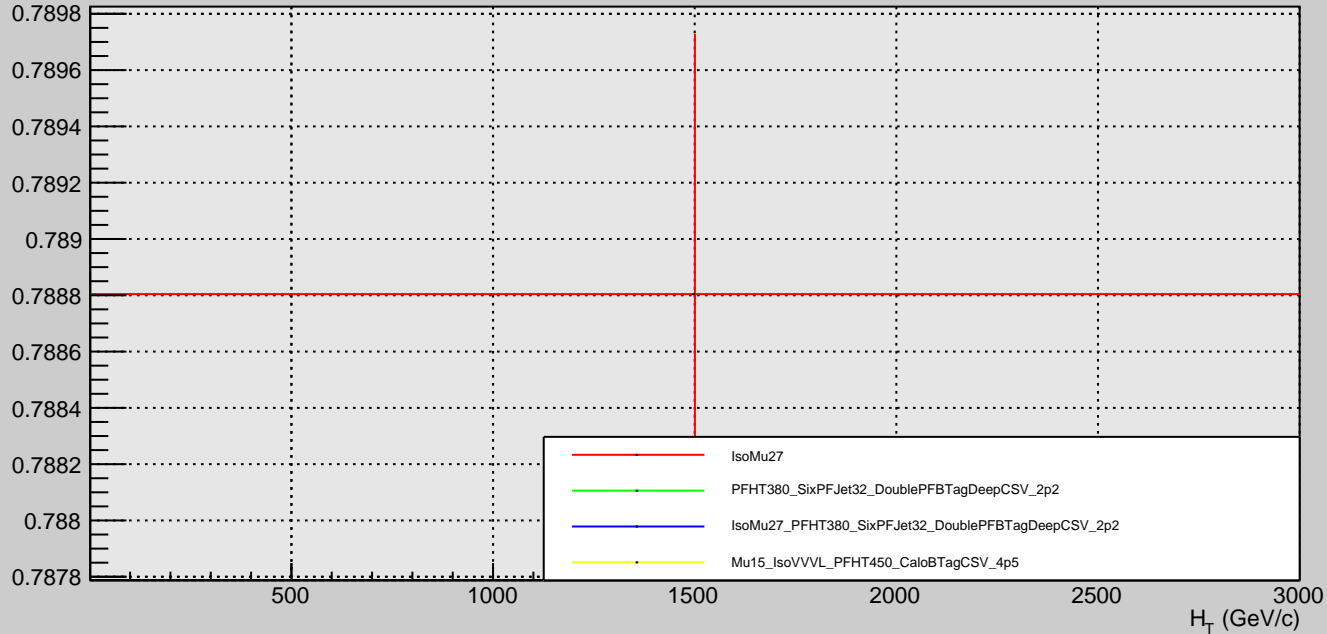


Number of Events per 10 GeV/c

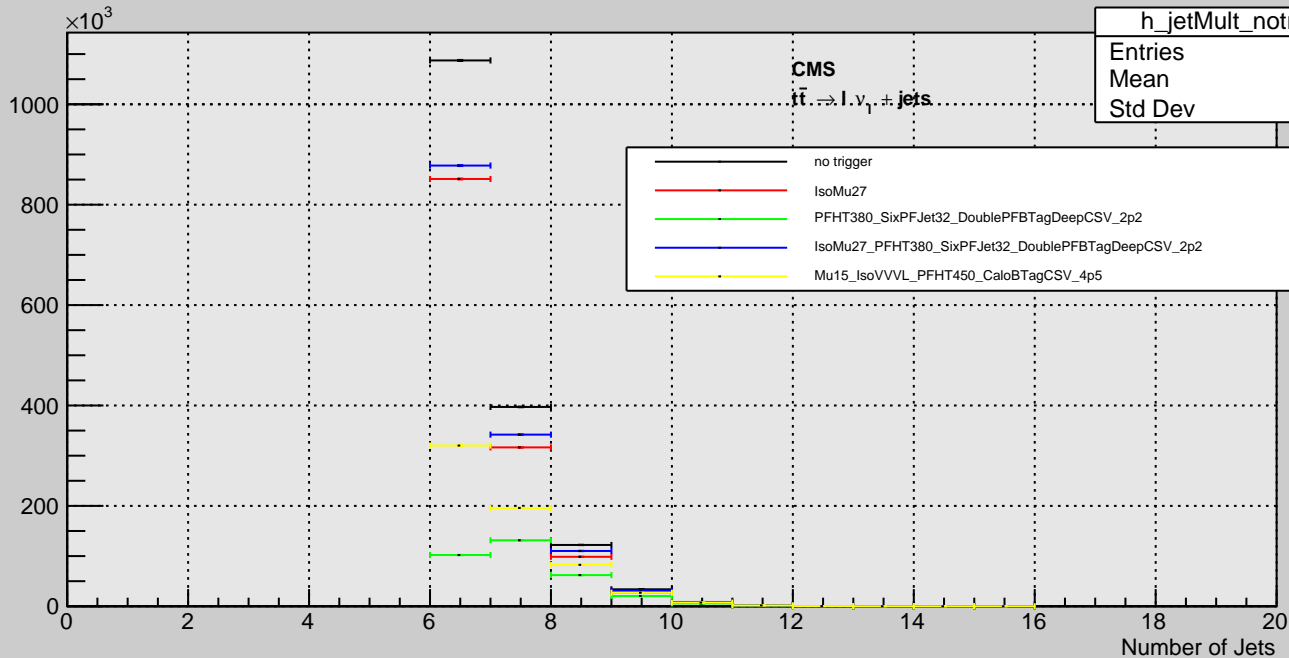


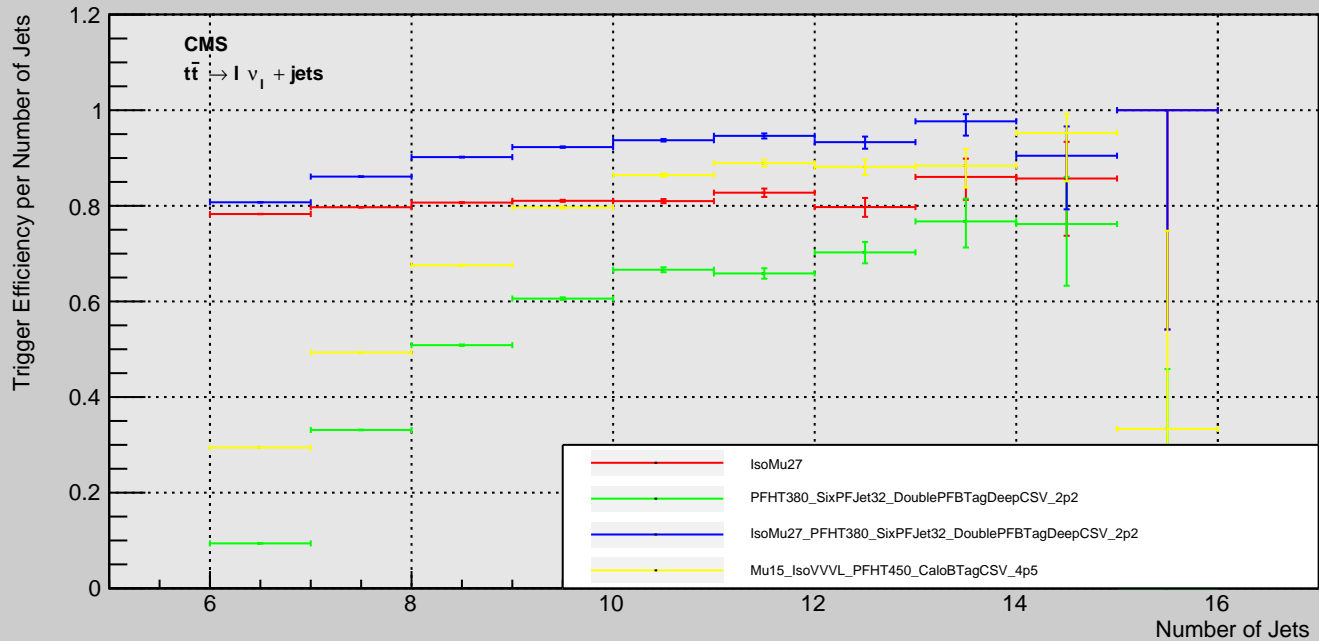


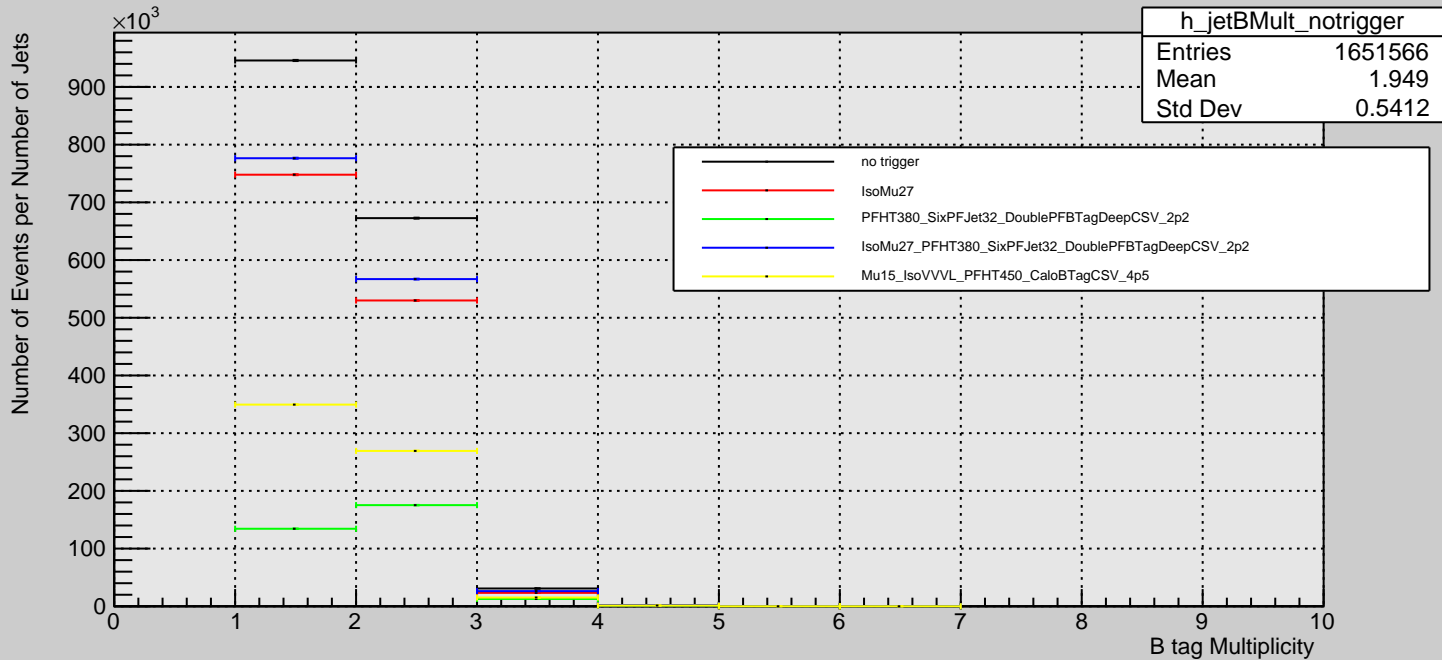
Trigger Efficiency per 2999.0 GeV/c

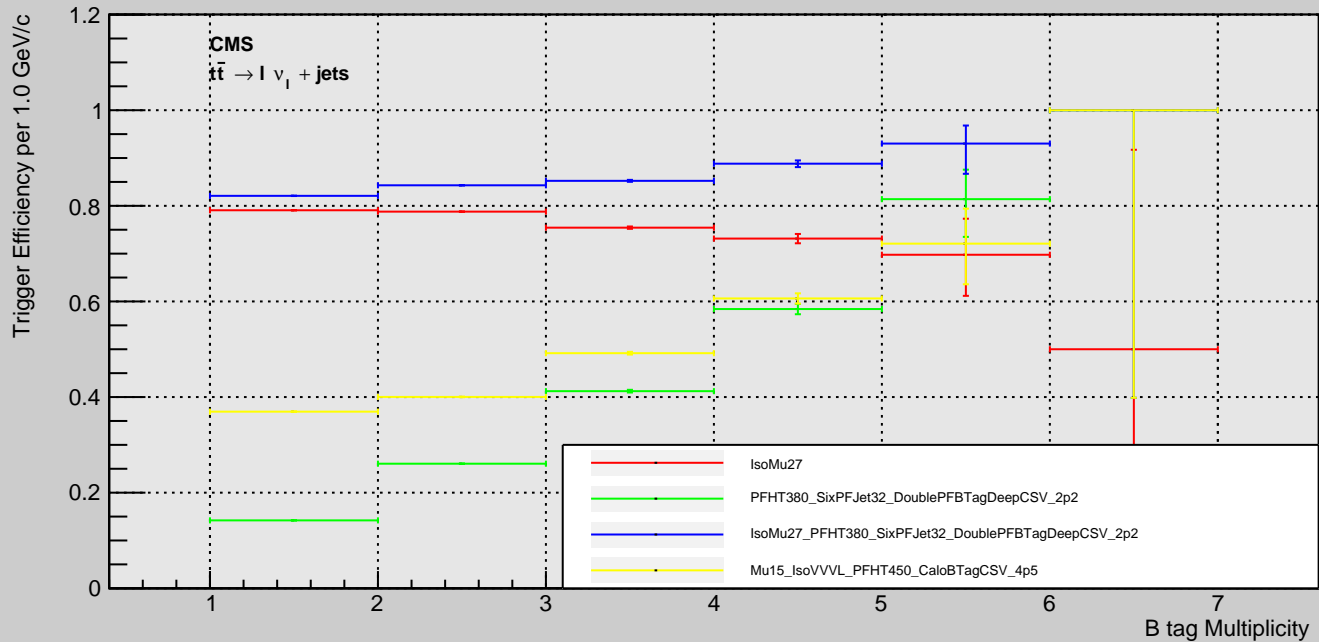


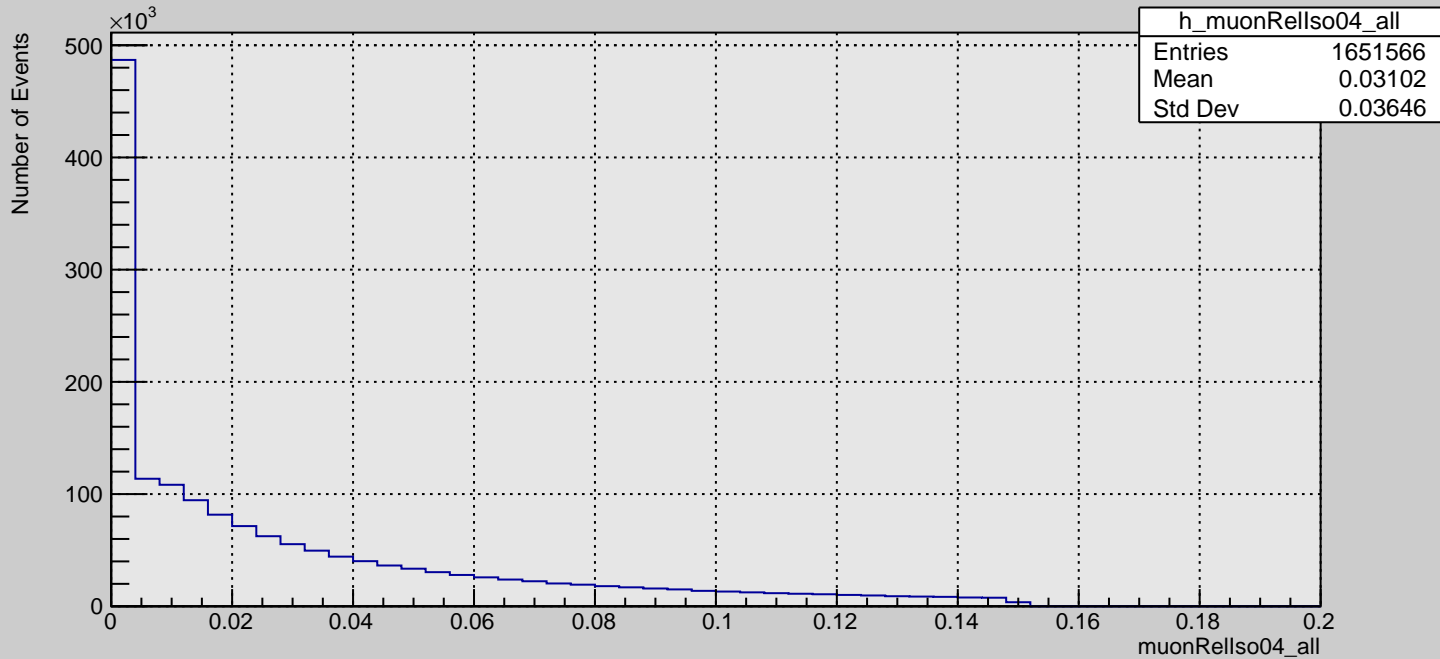
Number of Events per Number of Jets





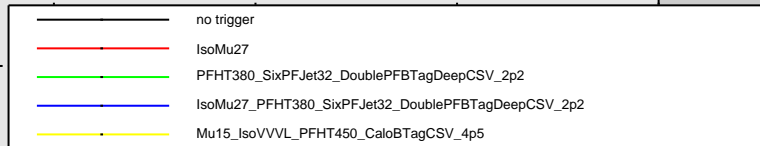




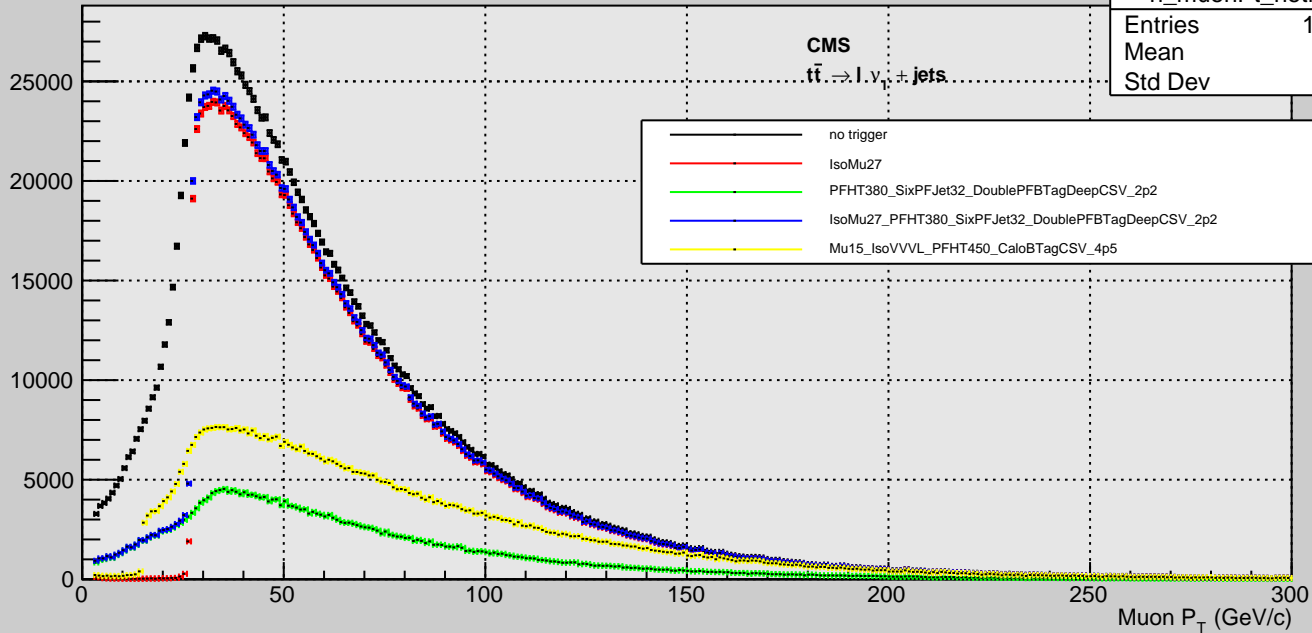


h_muonPt_notrigger	
Entries	1651566
Mean	61.59
Std Dev	40.53

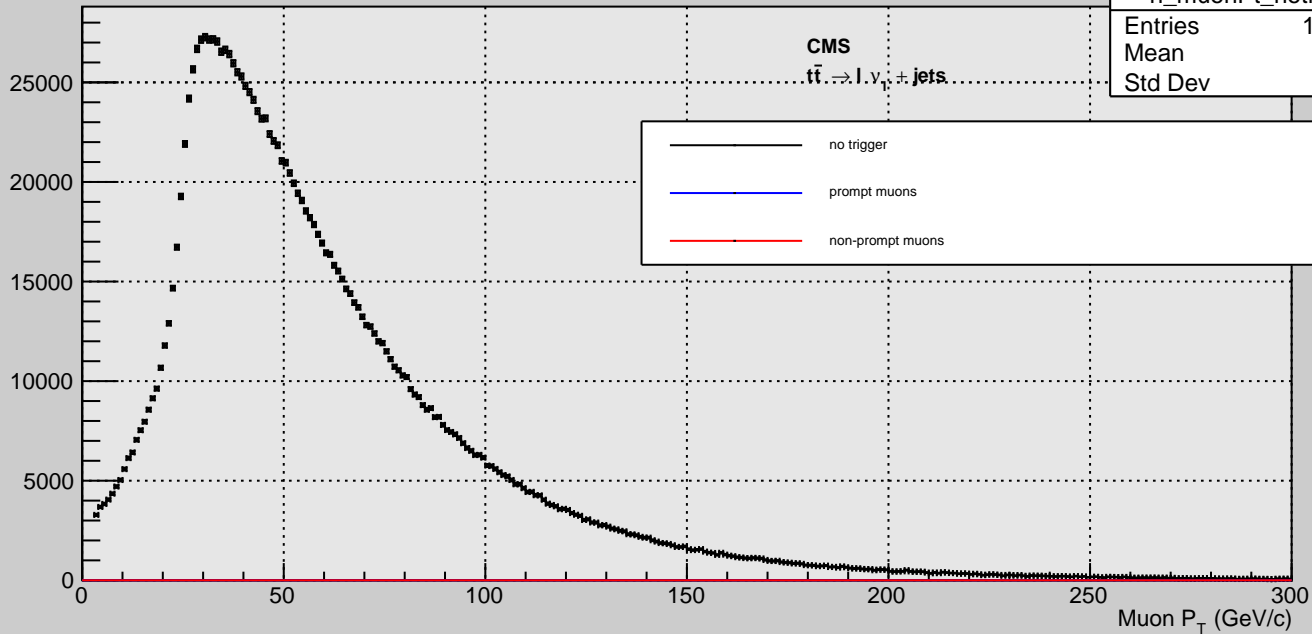
CMS
 $t\bar{t} \rightarrow l, \nu_l + \text{jets}$

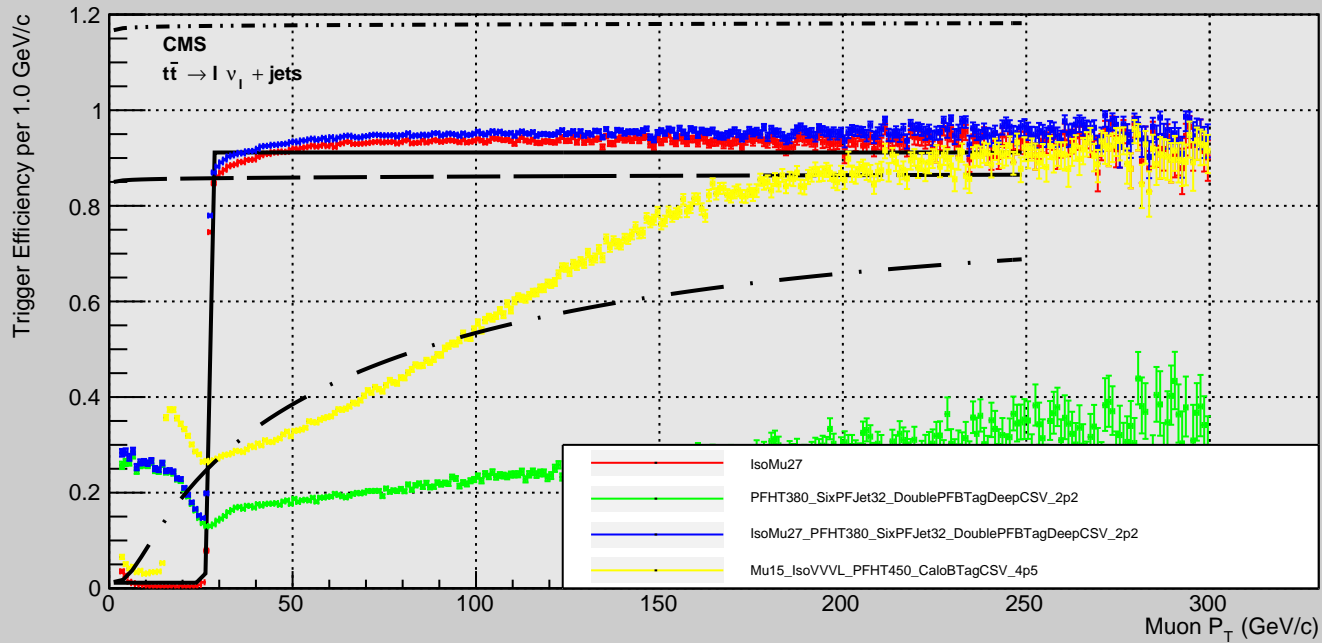


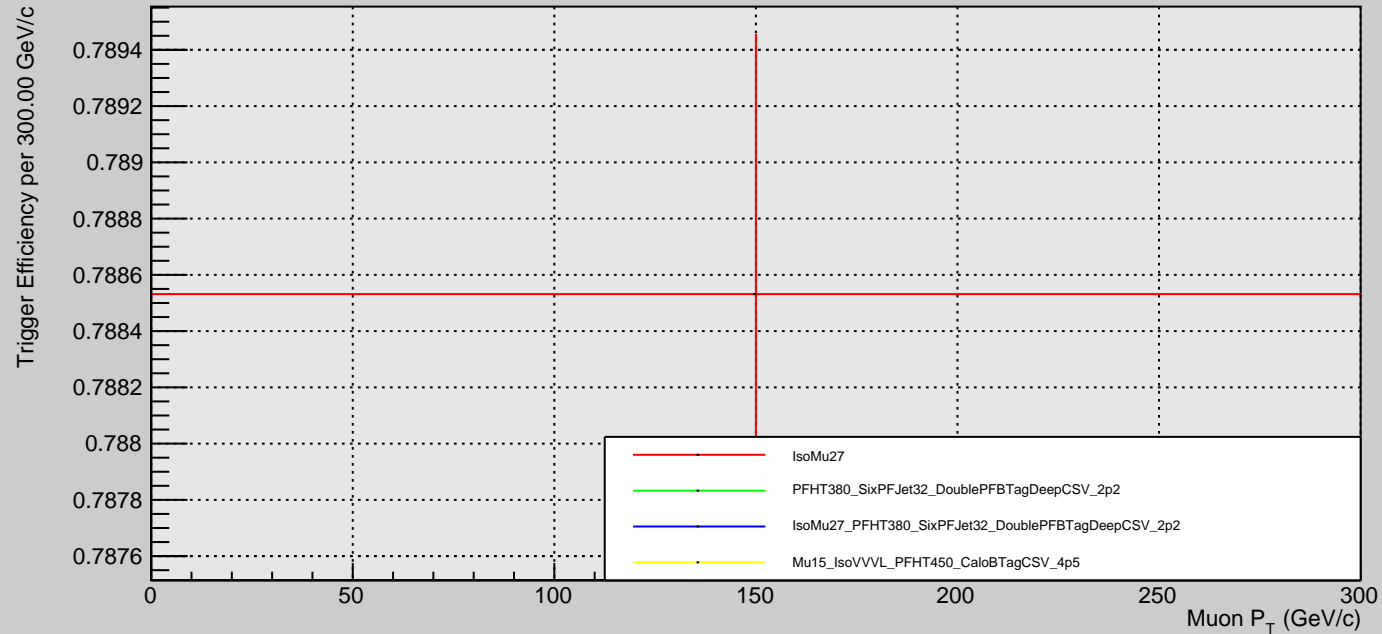
Number of Events per 1 GeV/c



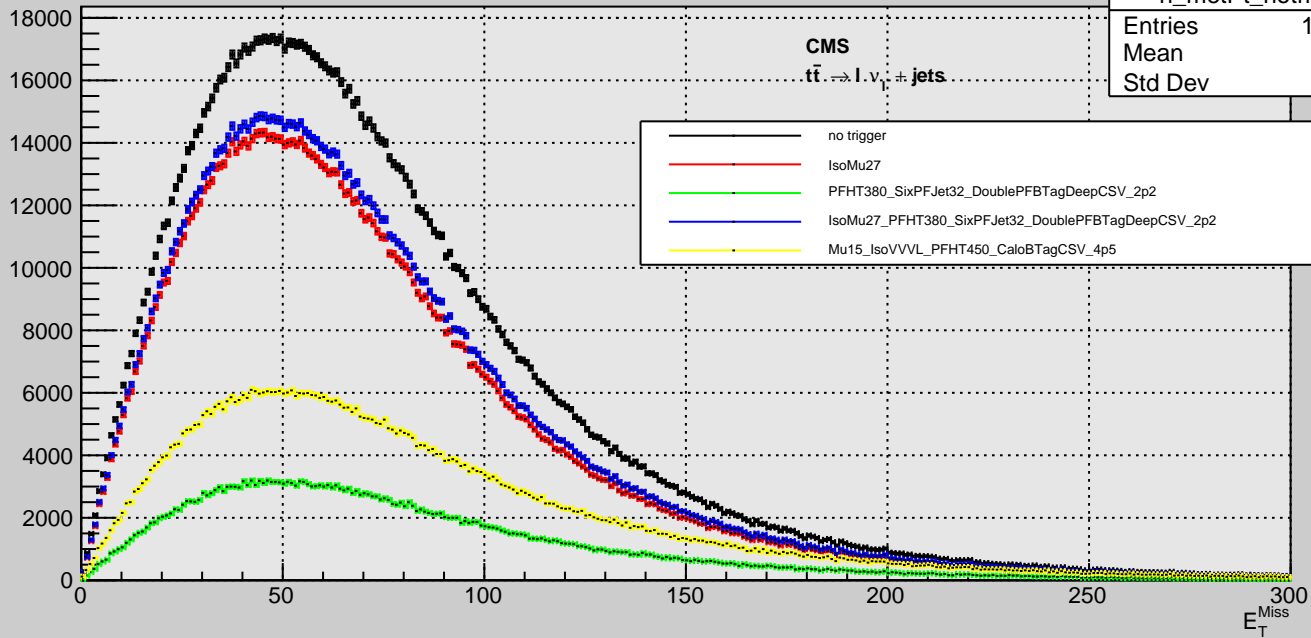
Number of Events per 1 GeV/c





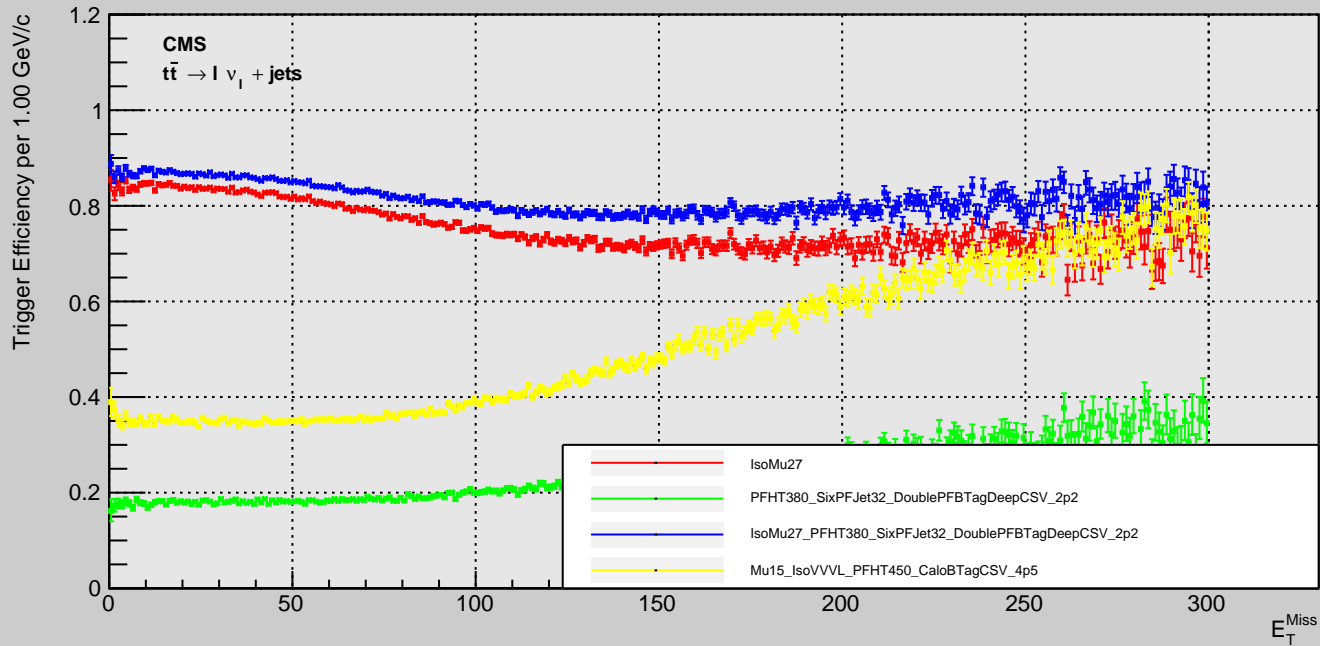


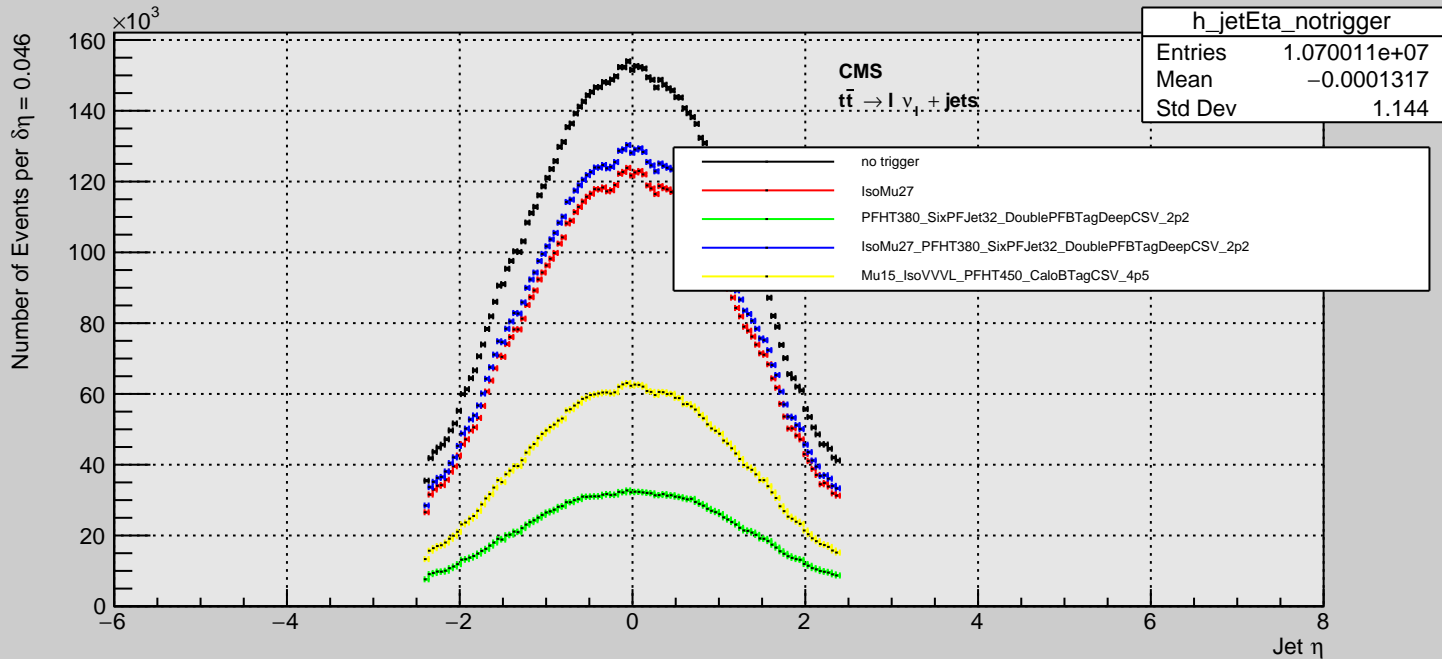
Number of Events per 1 GeV/c



h_metPt_notrigger

Entries	1651566
Mean	74.35
Std Dev	47.57





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

