

On-line (pre-)selection Requisites for:

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

Event Limit: None (see last page)

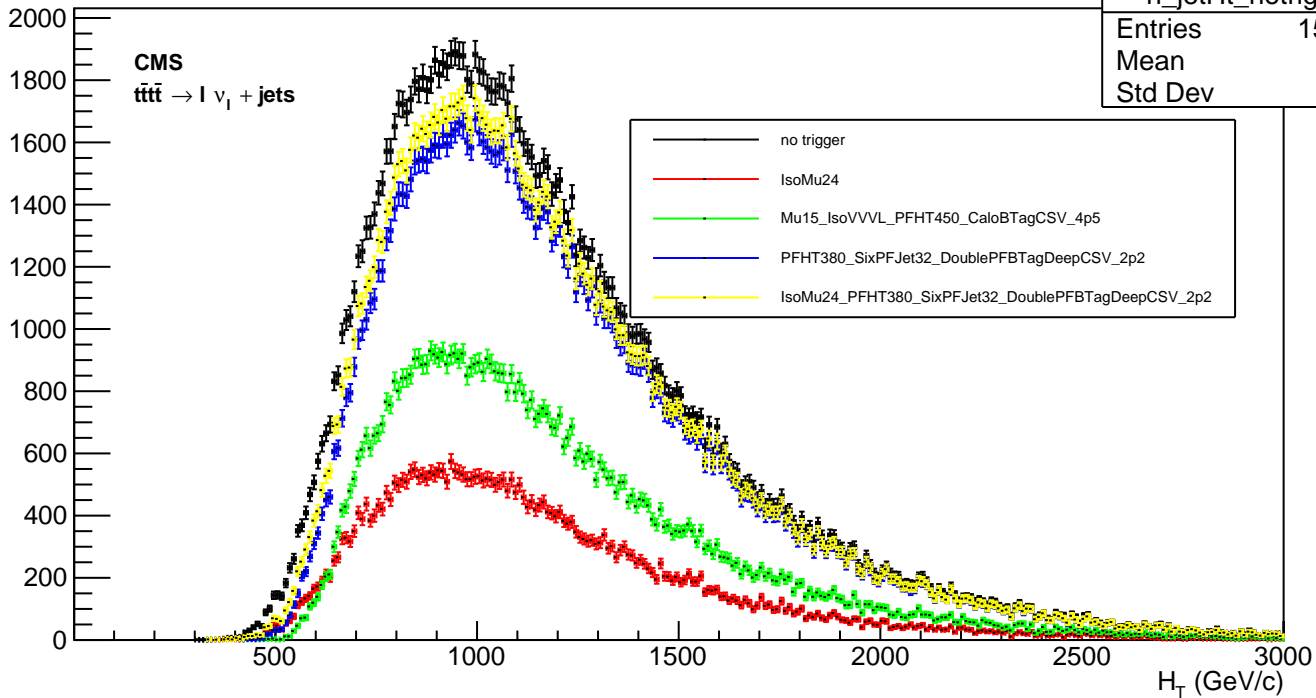
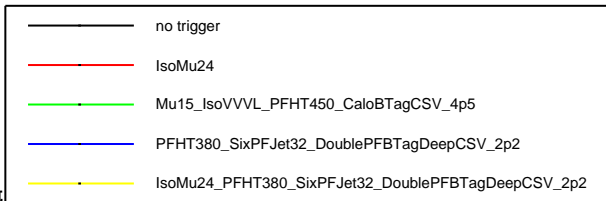
Off-line (post-)selection Requisites for:

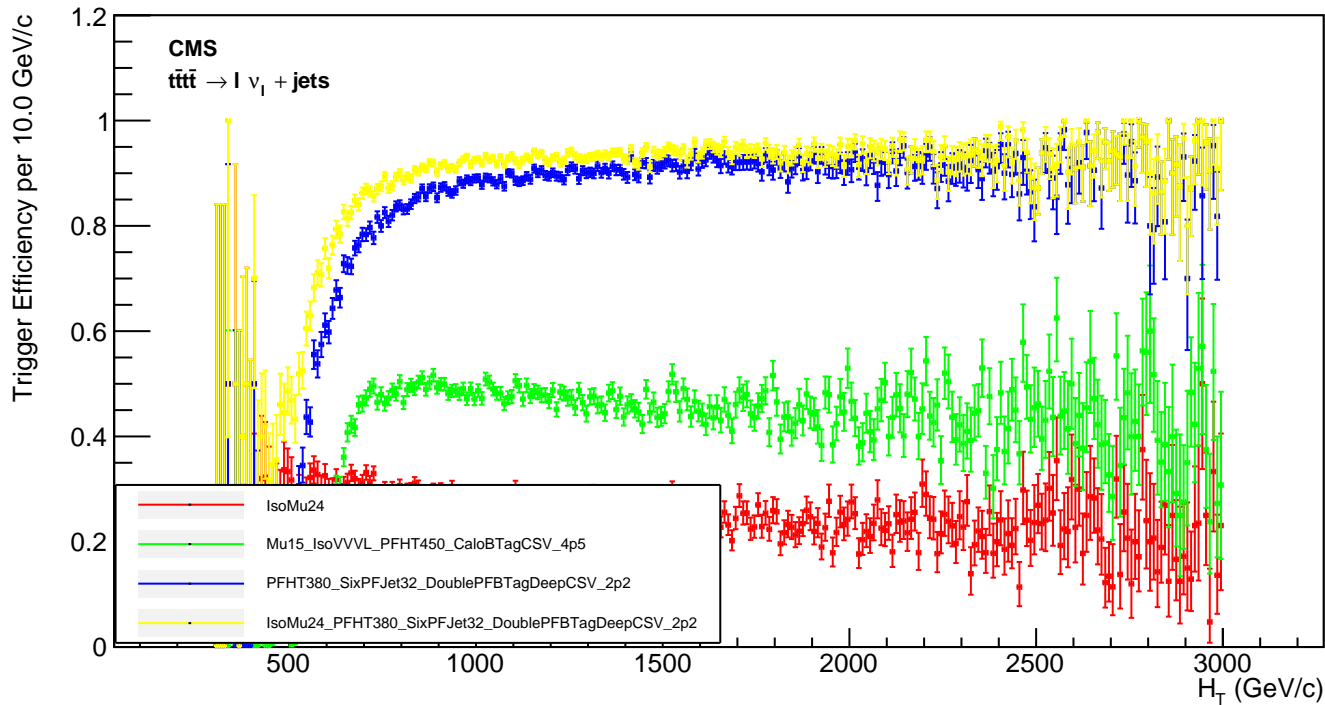
- **Jets:** $\text{jetId} > 2$, $p_T > 30$ and $|\eta| < 2.4$ (for at least 6)
 $\text{btagDeepFlavB} > 0.7489$ (for at least one jet)
- **Muons:** has tightId, $|\eta| < 2.4$ and $\text{miniPFRellso_all} < 0.15$ (for at least 1)

Number of Events per 10 GeV/c

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

h_jetHt_notrigger	
Entries	159729
Mean	1184
Std Dev	422.7

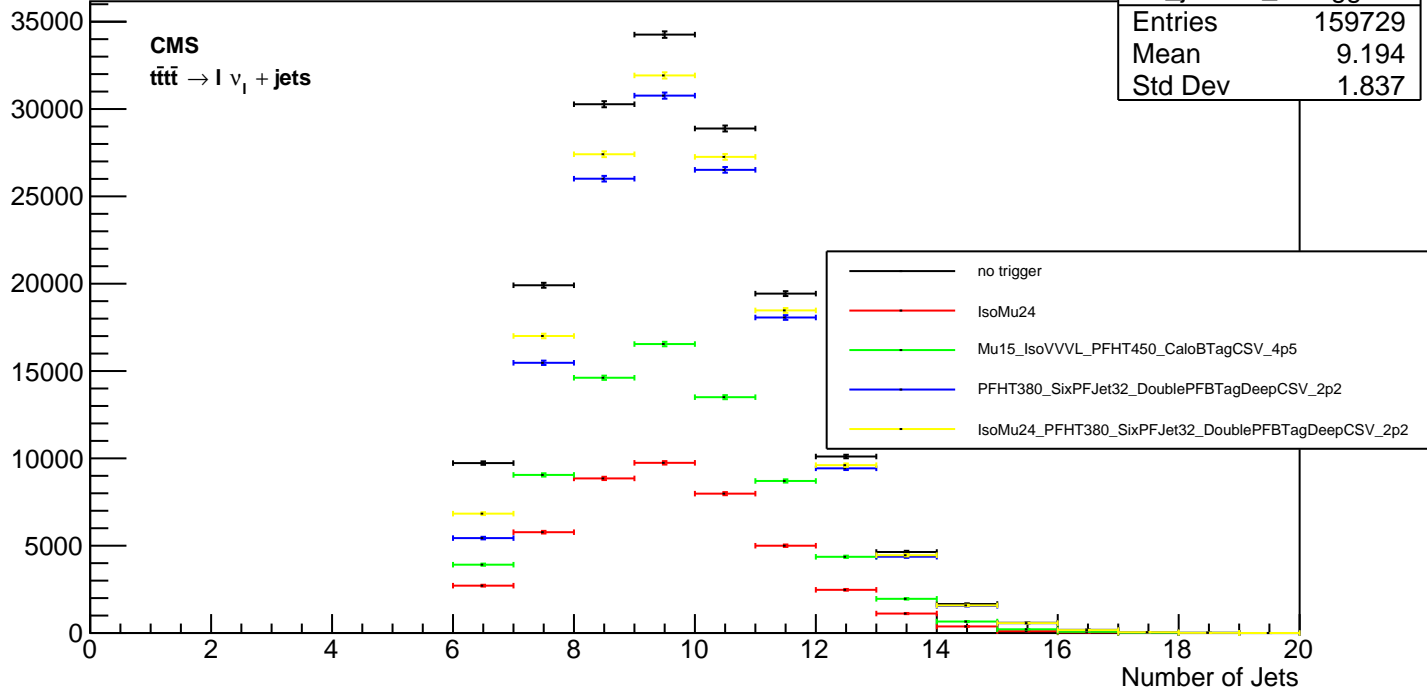


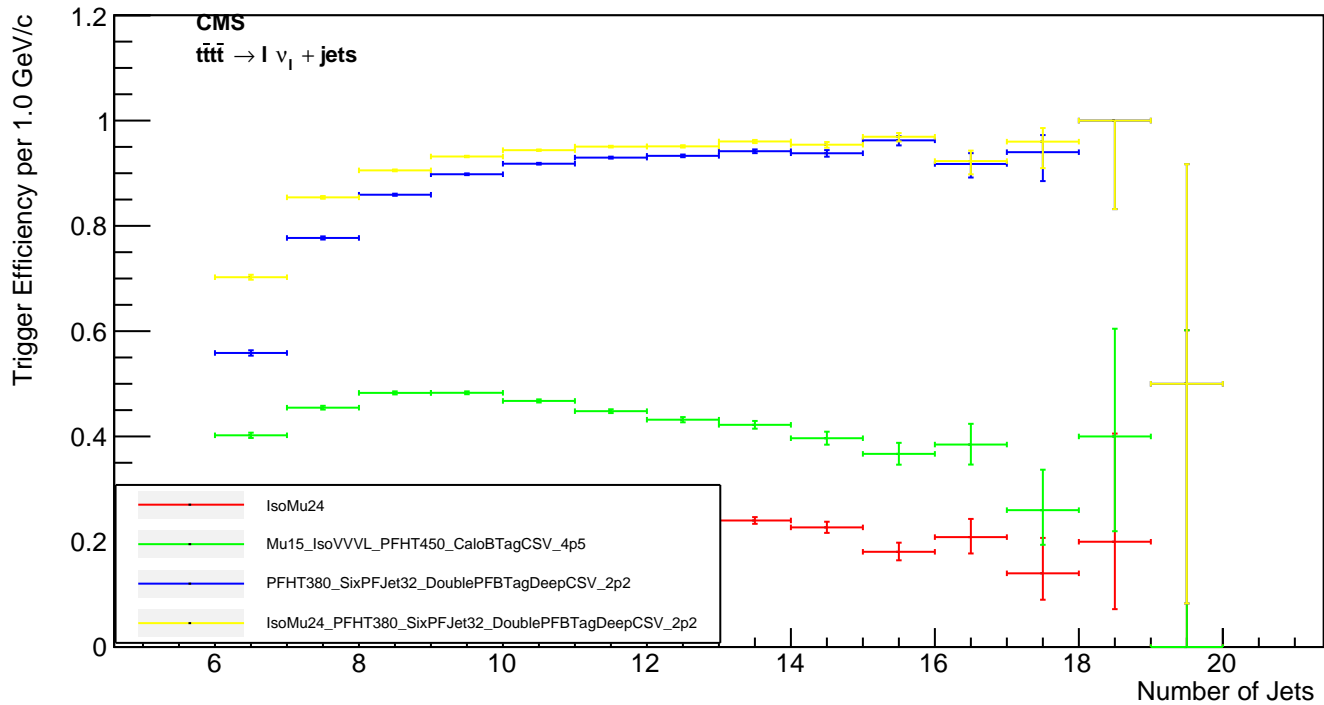


Number of Events per Number of Jets

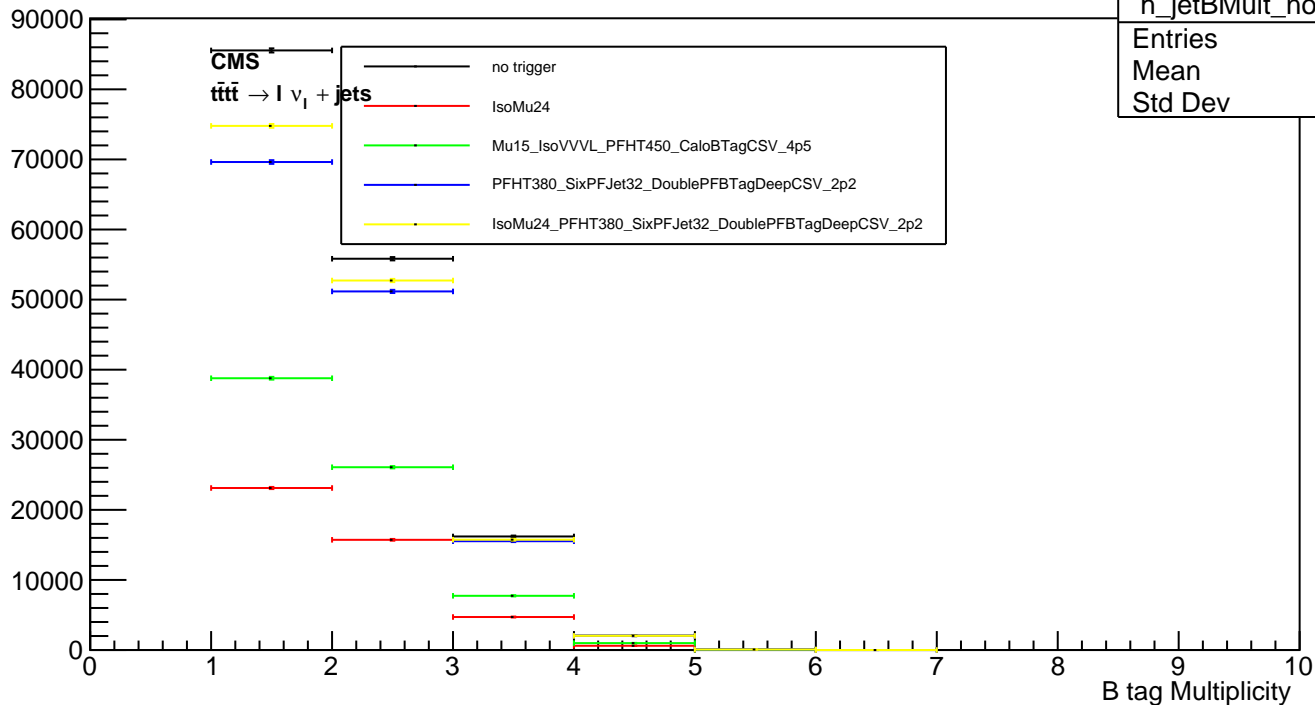
CMS
 $t\bar{t}t\bar{t} \rightarrow l \nu_l + \text{jets}$

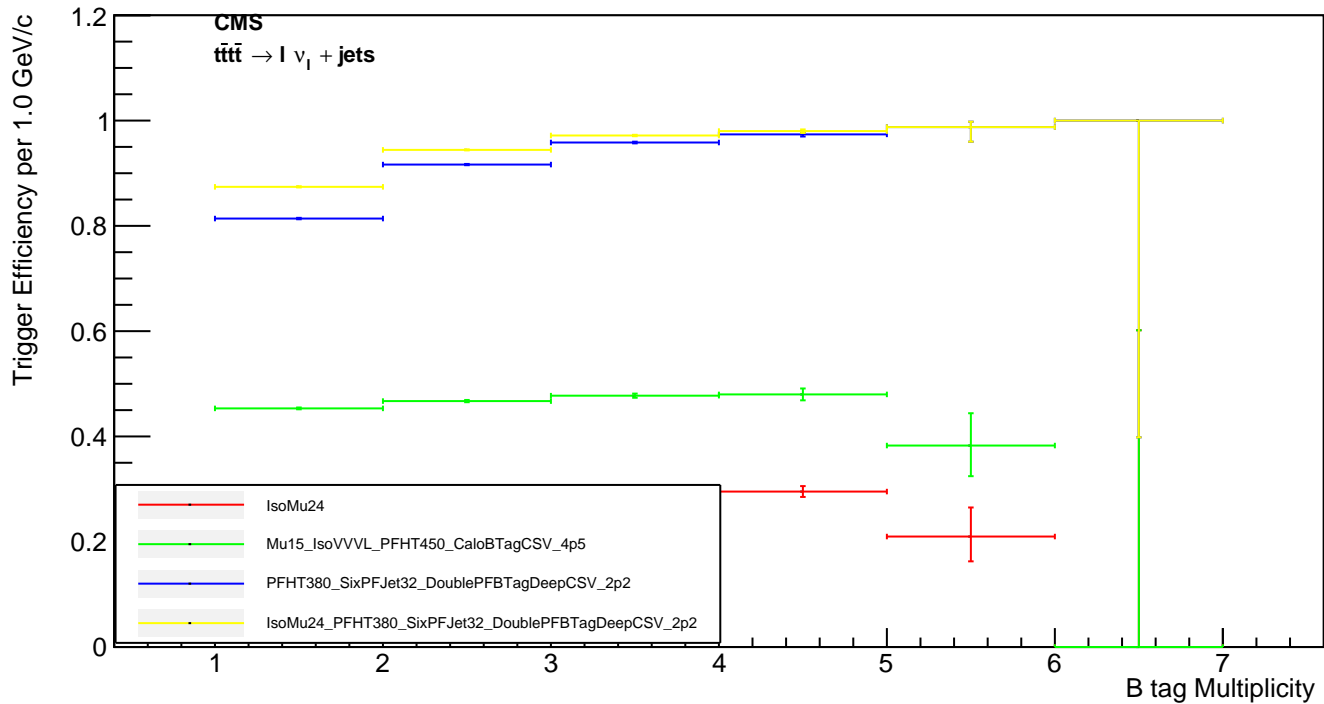
h_jetMult_notrigger	
Entries	159729
Mean	9.194
Std Dev	1.837



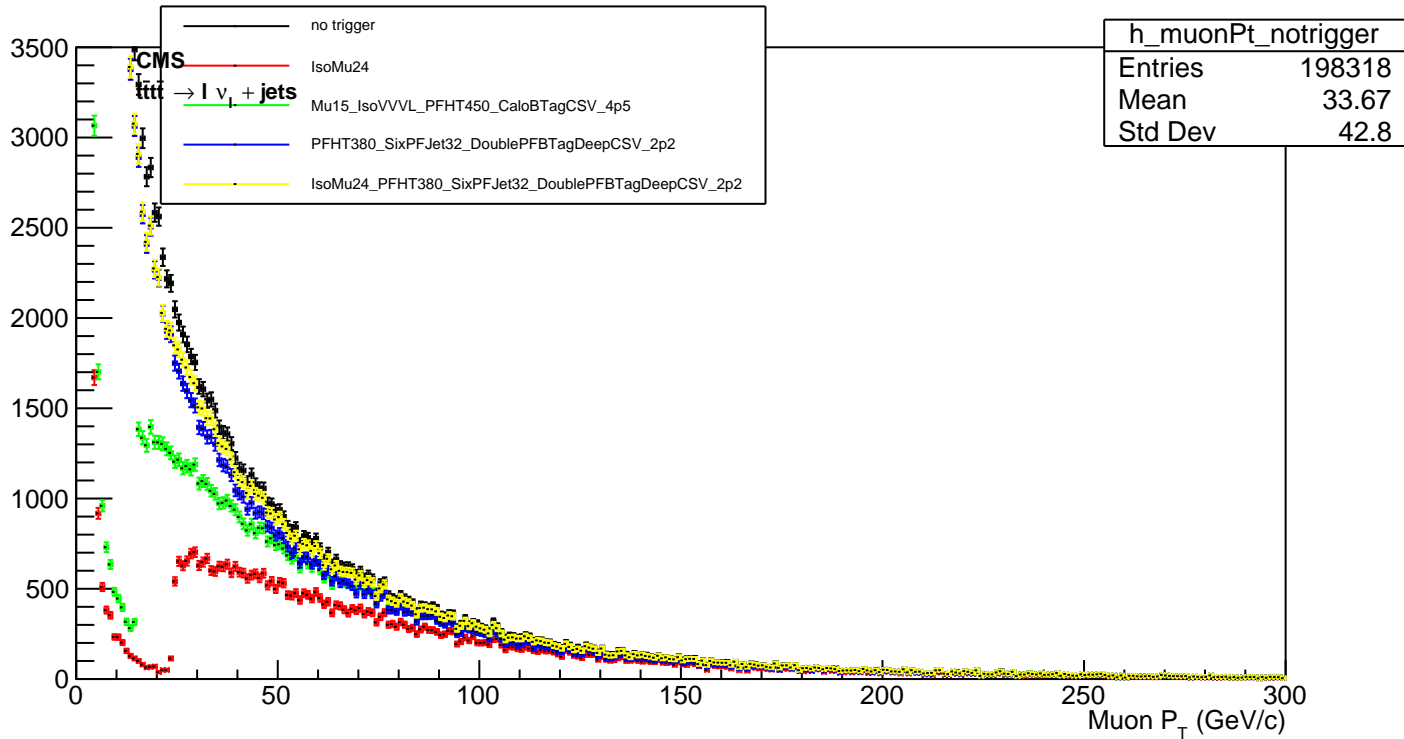


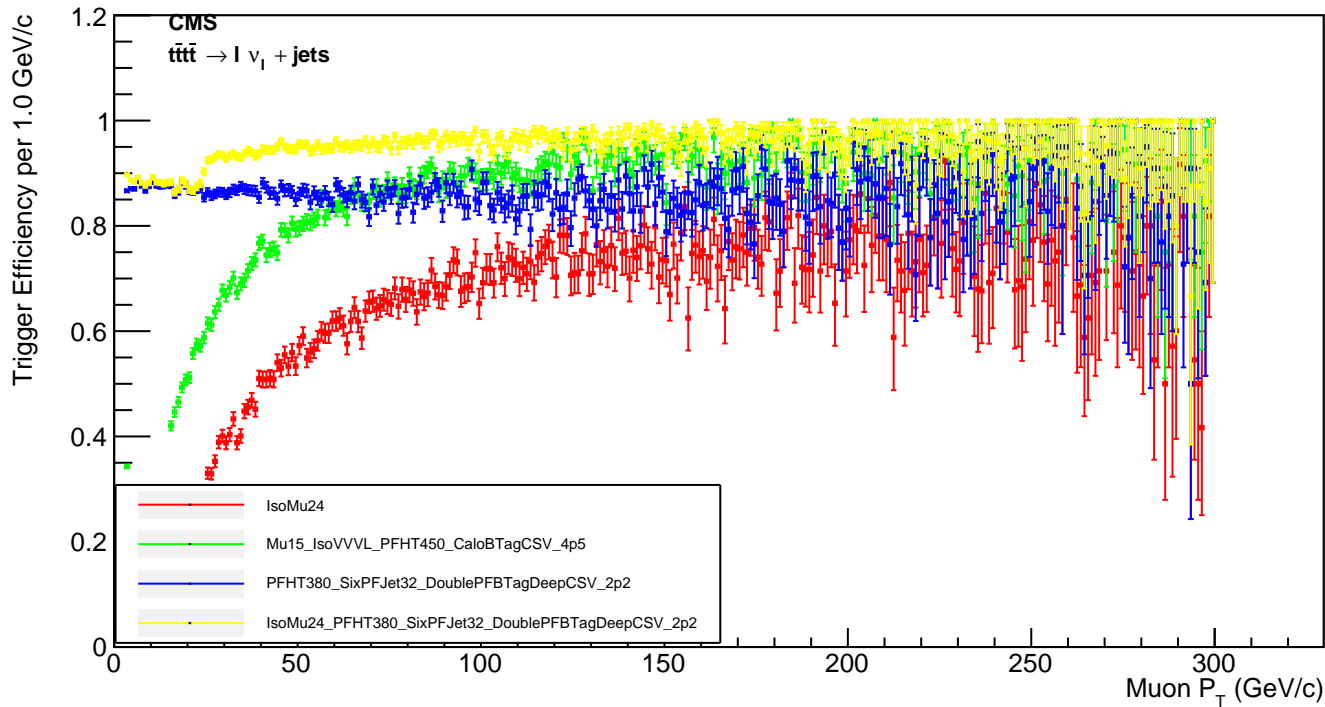
Number of Events per Number of Jets





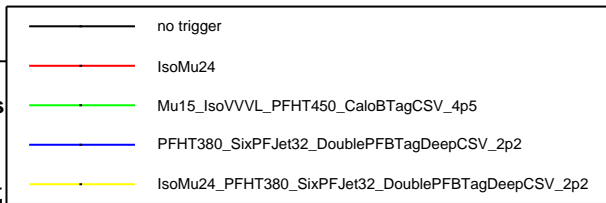
Number of Events per 1 GeV/c



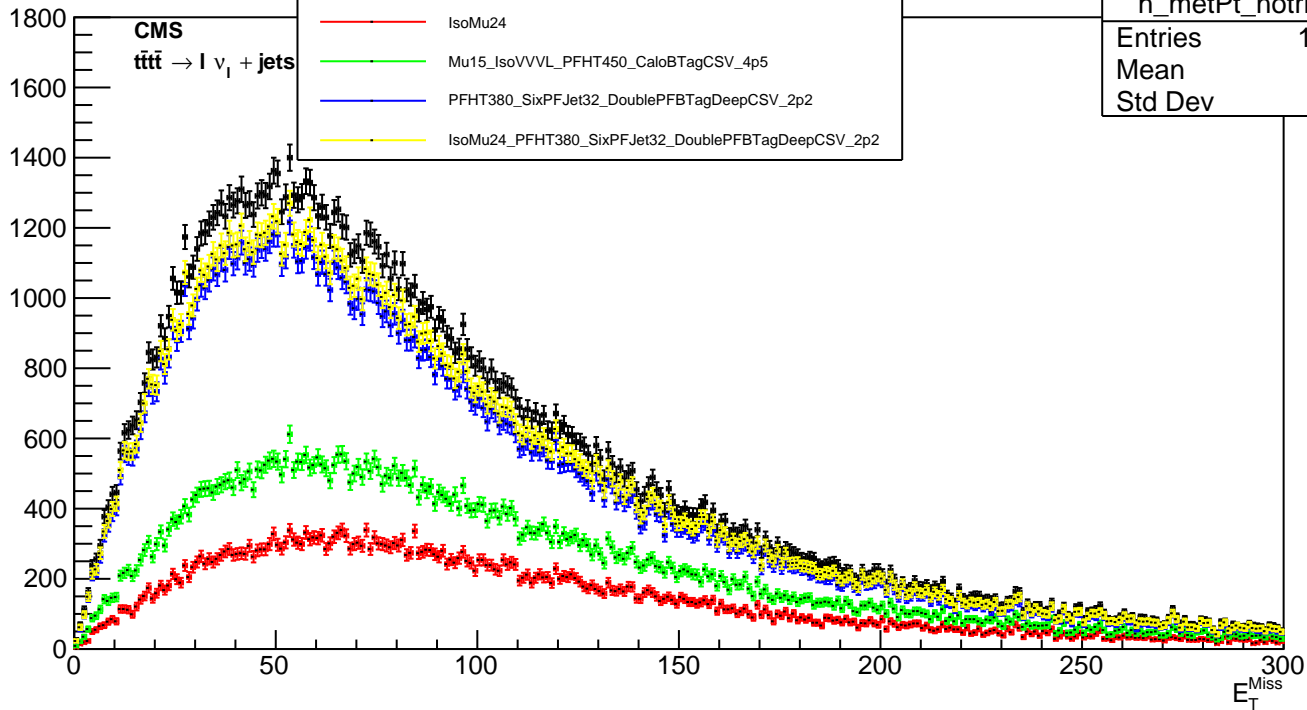


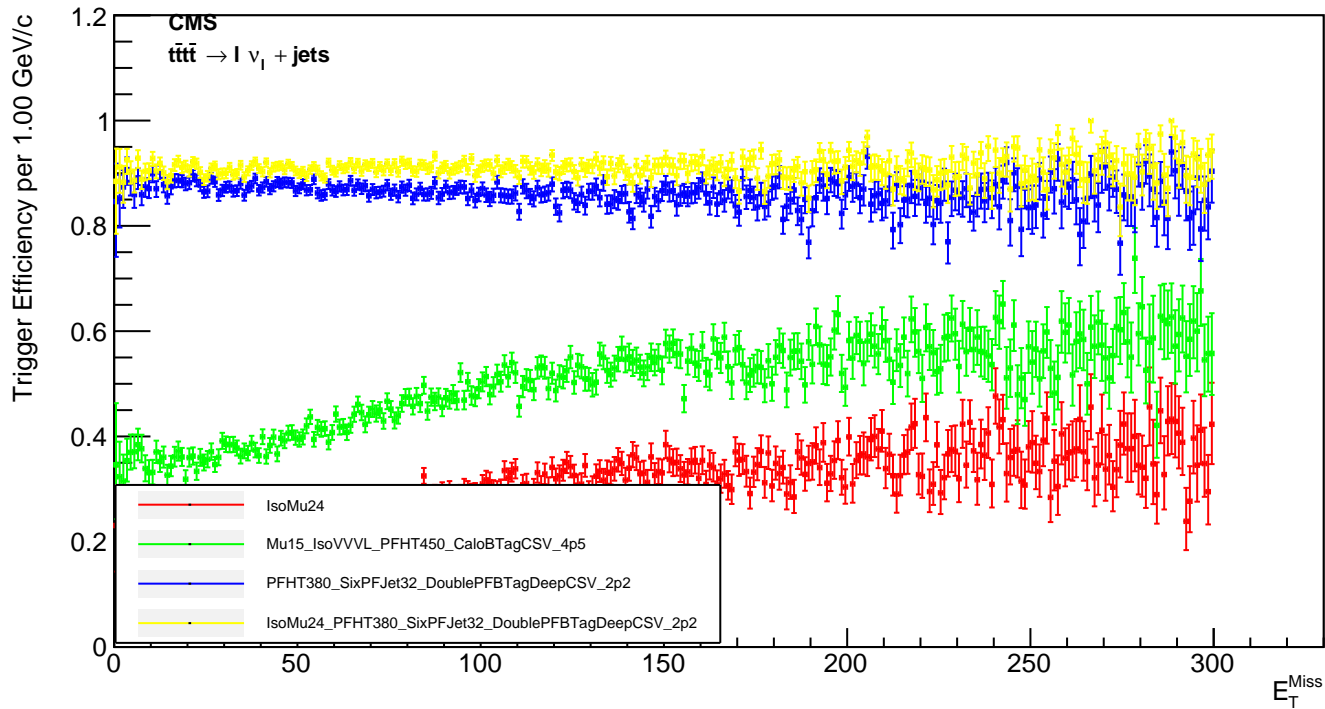
Number of Events per 1 GeV/c

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



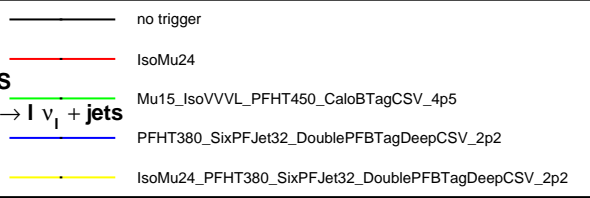
h_metPt_notrigger	
Entries	159729
Mean	92.08
Std Dev	61.53



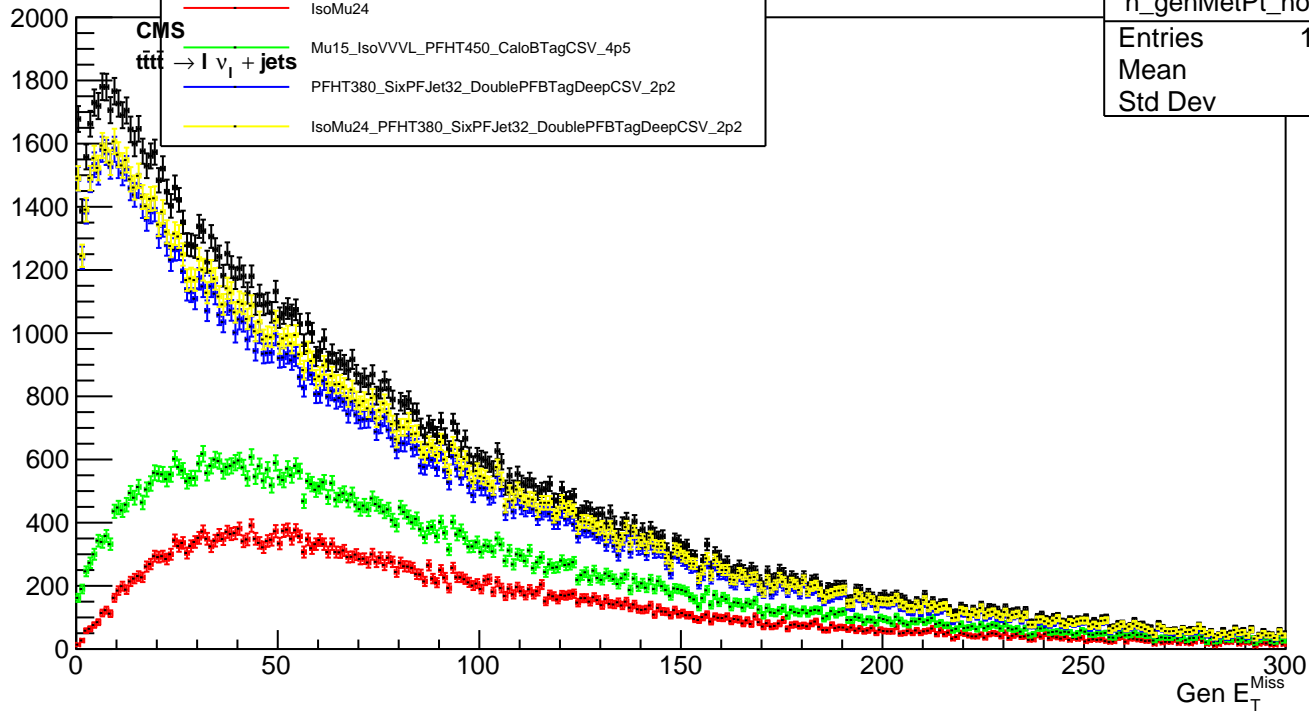


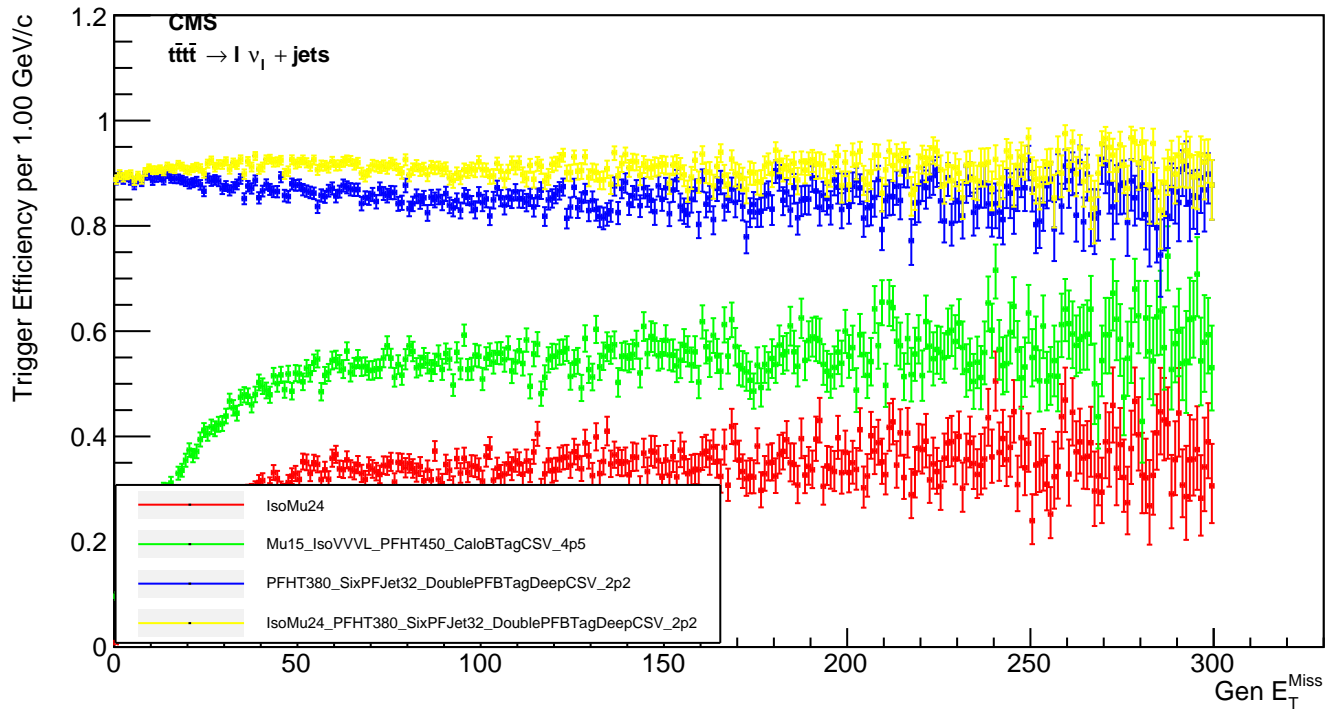
Number of Events per 1GeV/c

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



h_genMetPt_notrigger	
Entries	159729
Mean	74.7
Std Dev	64.22





Trigger Efficiency per 0.0466666666667 GeV/c

