On-line (pre-)selection Requisites for:

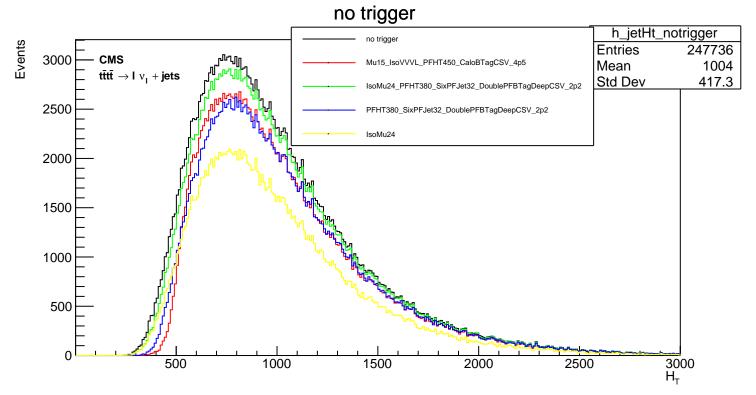
- **Jets:** number > 5, jetId > 2 and $|\eta| < 2.4$
- Muons: number >0 and has softld

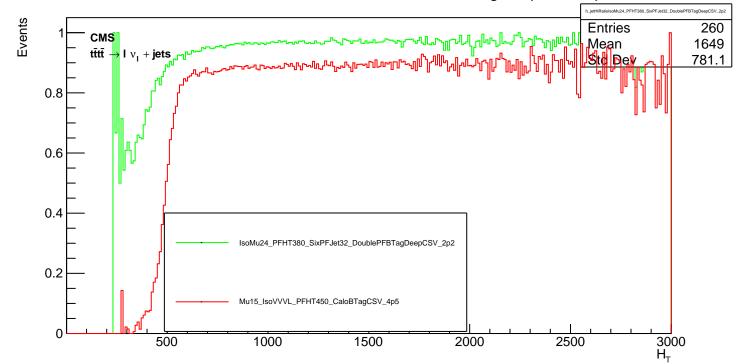
Event Limit: None (see last page)

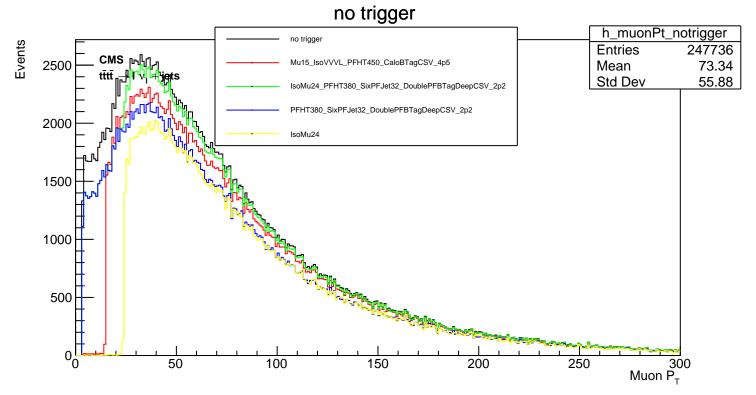
Off-line (post-)selection Requisites for:

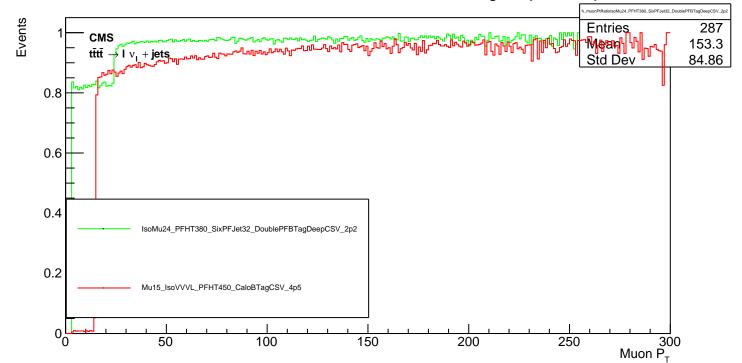
- **Jets:** jetId > 2 , p_{-} > 30 and $|\eta|$ < 2.4 (for at least 6) btagDeepFlavB > 0.7489 (for at least one iet)

 - Muons: has tightld, |n|<2.4 and miniPFRellso all<0.15 (for at least 1)

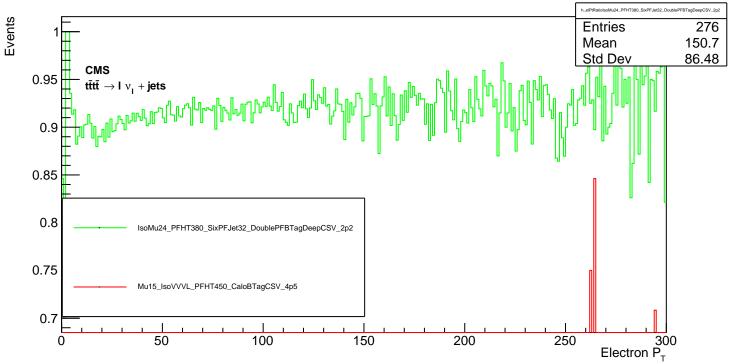


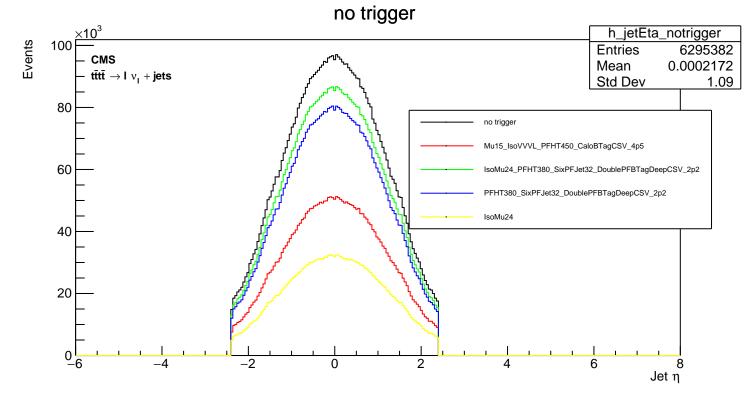


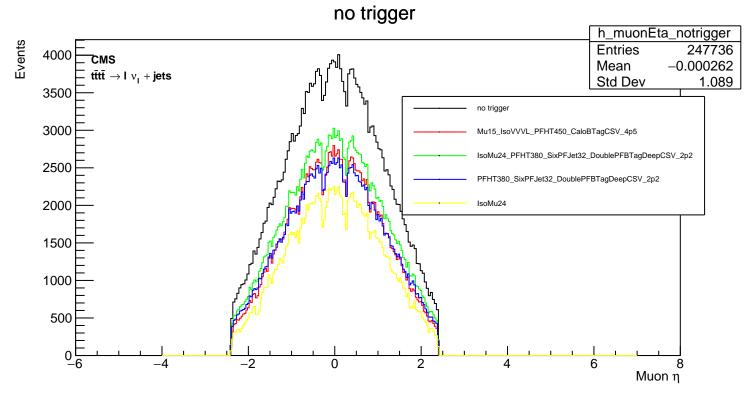


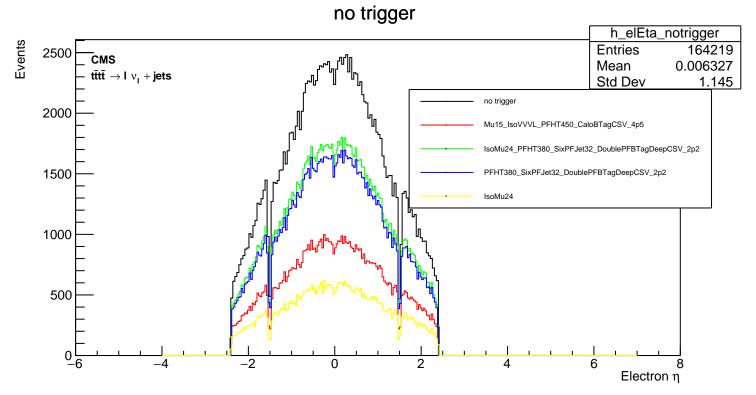


no trigger h_elPt_notrigger Events **Entries** 164219 no trigger **CMS** Mean 74.96 1600 tŧŧŧŧ Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5 Std Dev 54.74 IsoMu24_PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2 1400 PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2 1200 IsoMu24 1000 800 600 400 200 300 Electron P_T 50 100 150 200 250

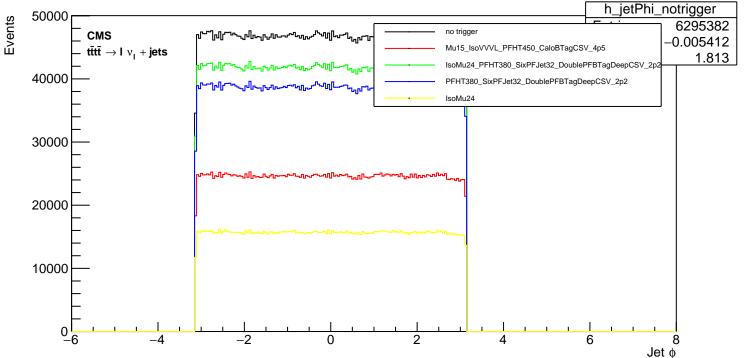




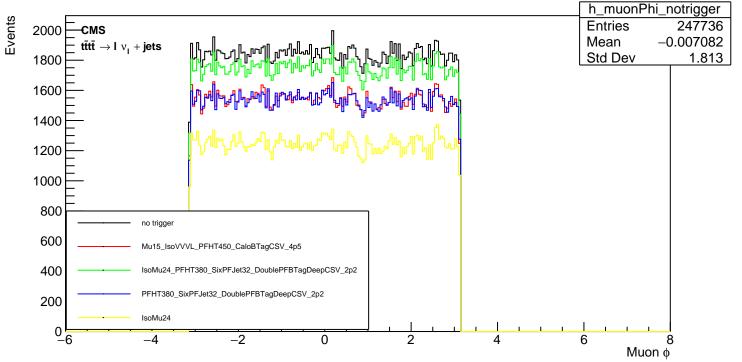




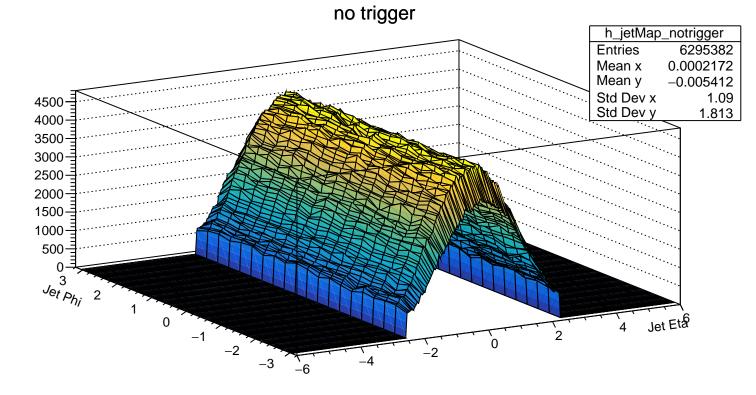
no trigger

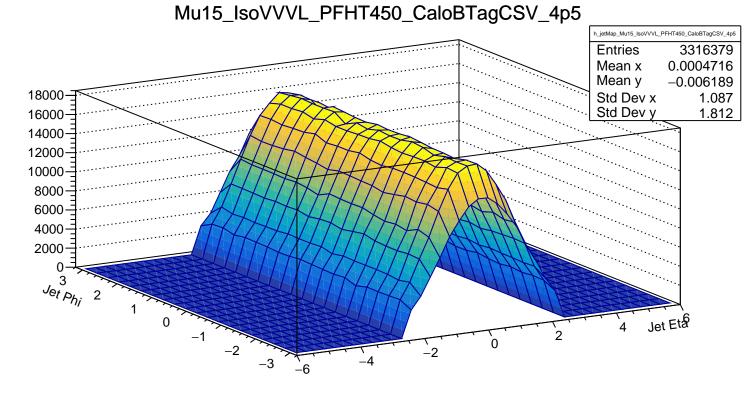


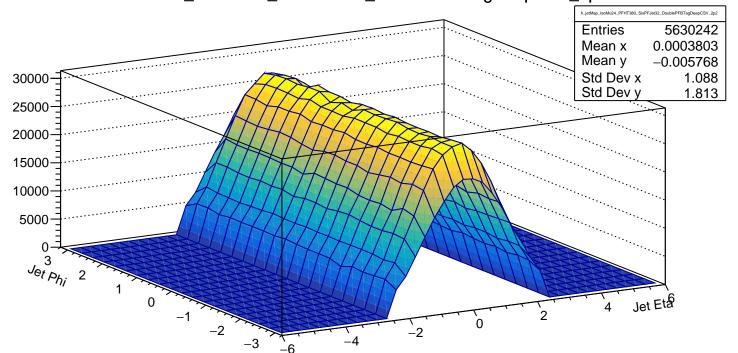
no trigger



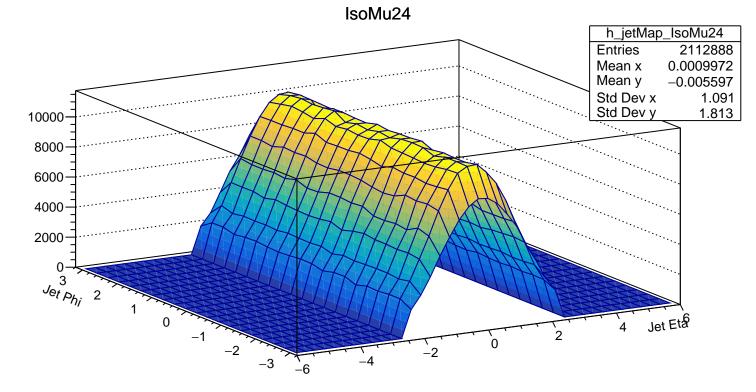
no trigger h_elPhi_notrigger Events 164219 **CMS** no trigger -0.00913 $t\bar{t}t\bar{t} \to I \ \nu_I + jets$ Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5 1200 1.81 PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2 IsoMu24 1000 800 600 400 200 0<u>L</u> Electron o

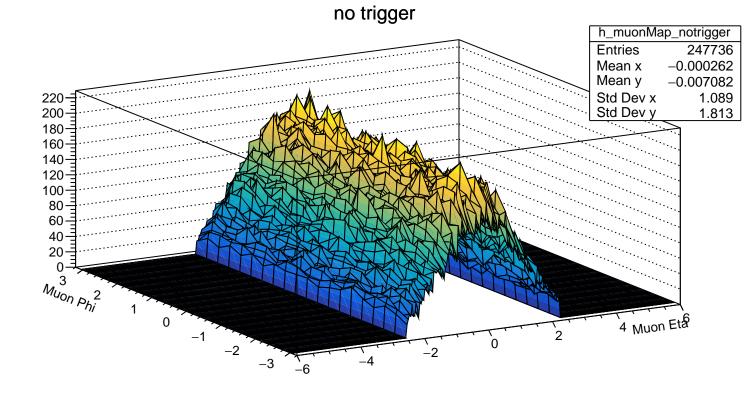


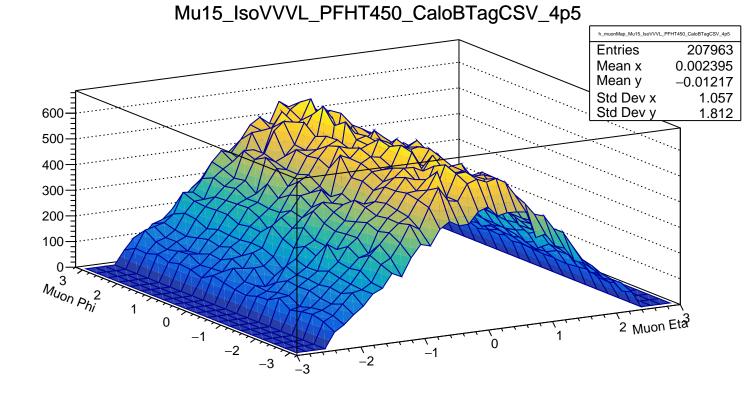


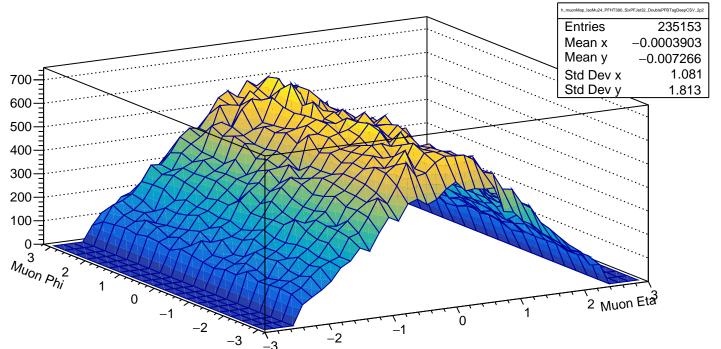


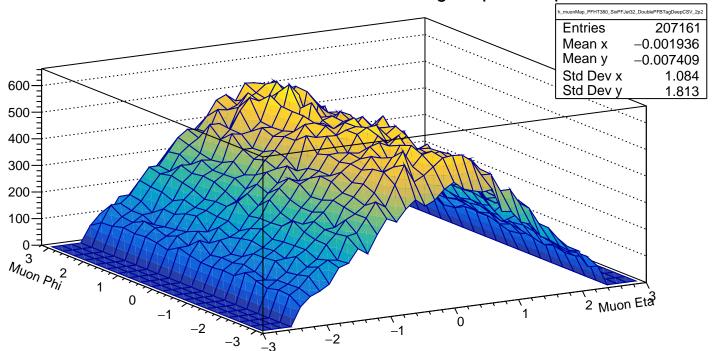
PFHT380_SixPFJet32_DoublePFBTagDeepCSV_2p2 **Entries** 5211110 Mean x 0.0006208 Mean y -0.005904Std Dev x 1.087 Std Dev y 1.812 25000 20000 15000 10000 5000 Jet Eta

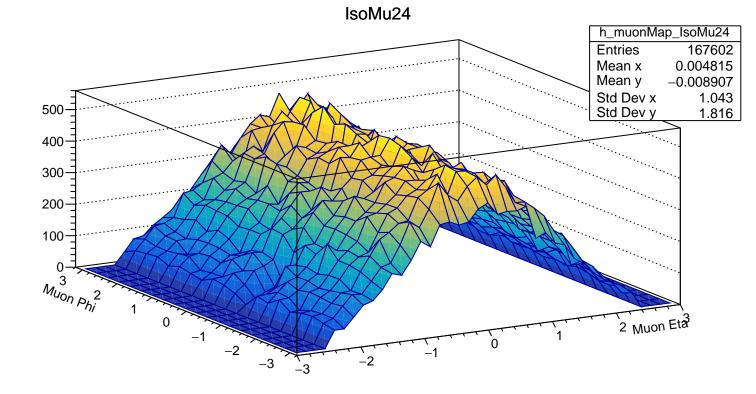


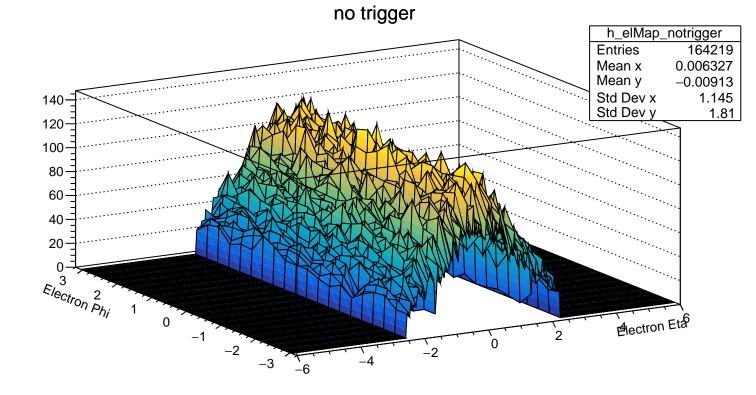












Mu15_IsoVVVL_PFHT450_CaloBTagCSV_4p5

