



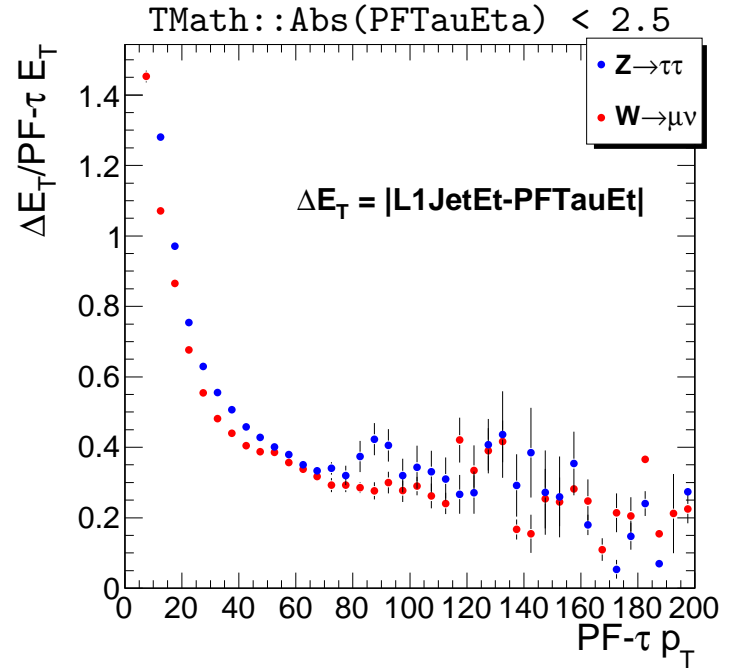
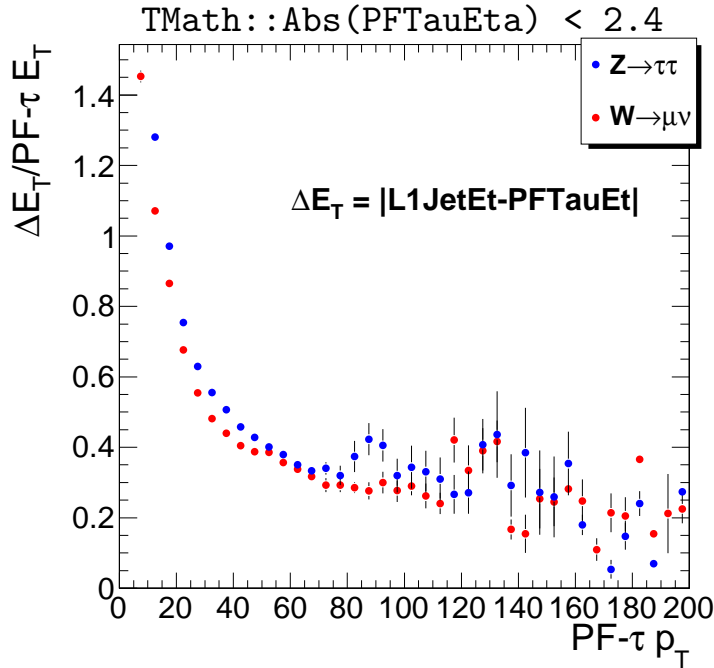
L1 τ trigger efficiency status

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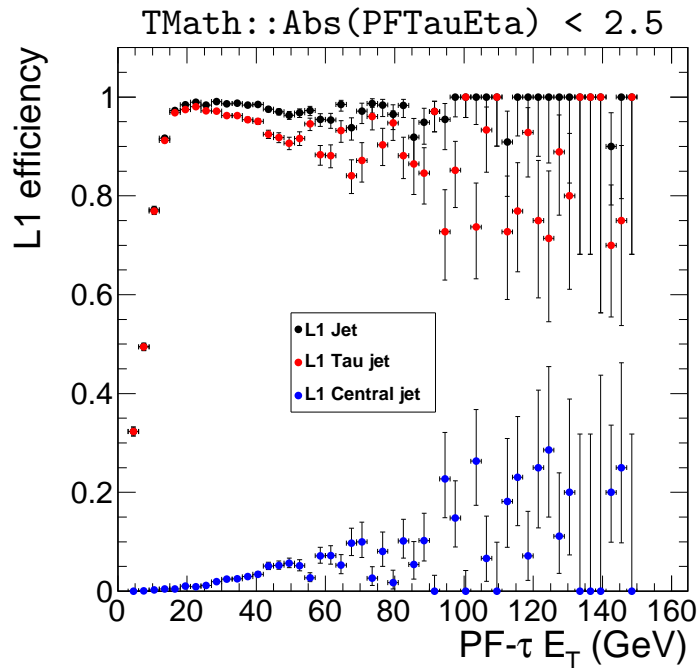
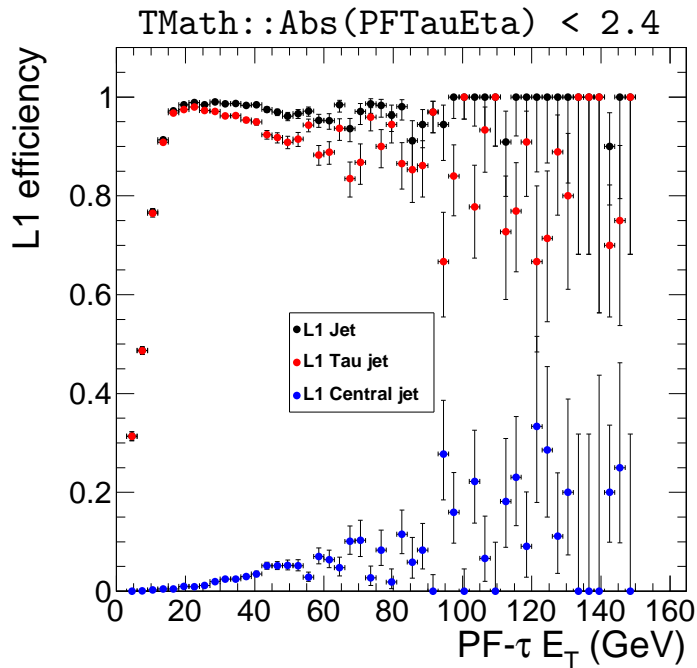
- $W \rightarrow \mu\nu$ data sample
 - tteffAnalysis_Wmunu_Summer09_MC_31X_V3_v1_GEN_SIM_RECO_Skim_run3.root
 - 577k entries
 - $PFTauEt > 10 \ \&\& \ TMath::Abs(PFTauEta) < 2.4 \ \&\&$
 $PFTauIso == 1 \ \&\& \ PFMuonMatch == 1$
 - $PFTauEt > 10 \ \&\& \ TMath::Abs(PFTauEta) < 2.5 \ \&\&$
 $PFTauIso == 1 \ \&\& \ PFMuonMatch == 1$
- L1 efficiency =
 - L1 jet reconstruction efficiency \times
 - L1 E_T threshold efficiency \times
 - L1 TauVeto efficiency

L1 jet E_T resolution



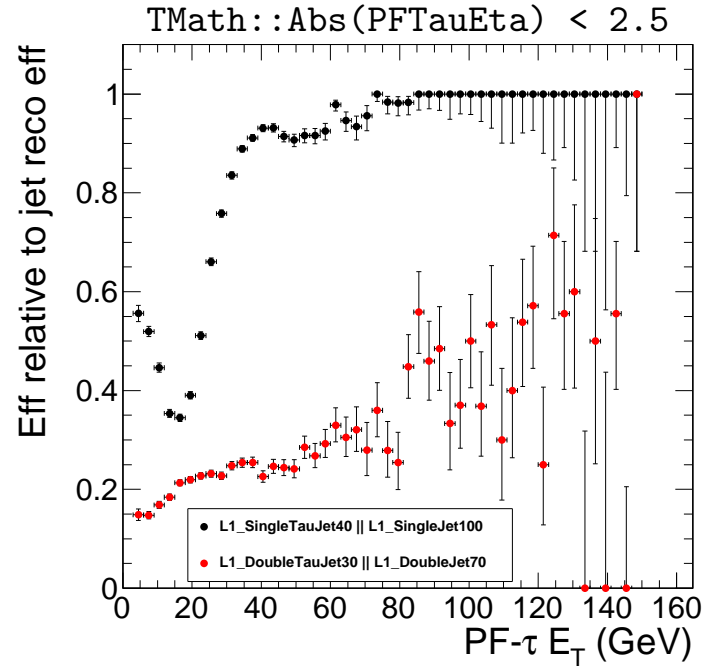
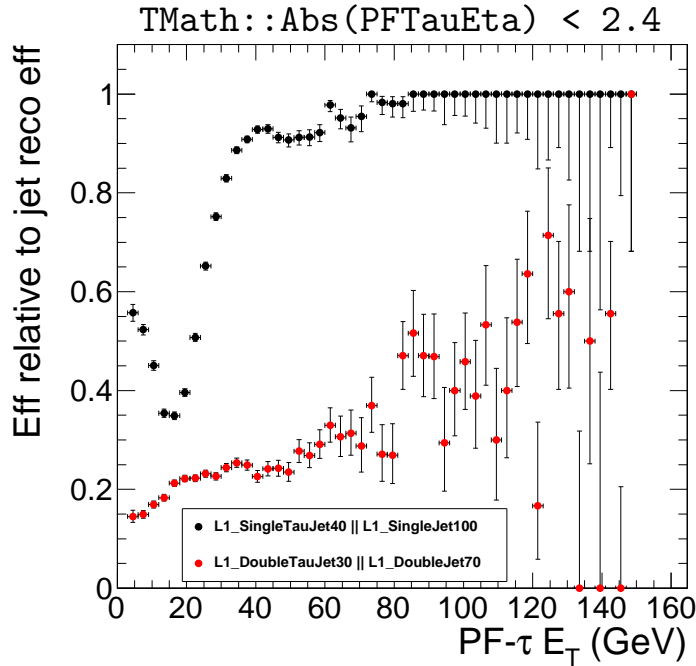
- `hasMatchedL1Jet == 1 && PFTauIso==1 && PFMuonMatch == 1`

L1 jet reconstruction efficiency (E_T)



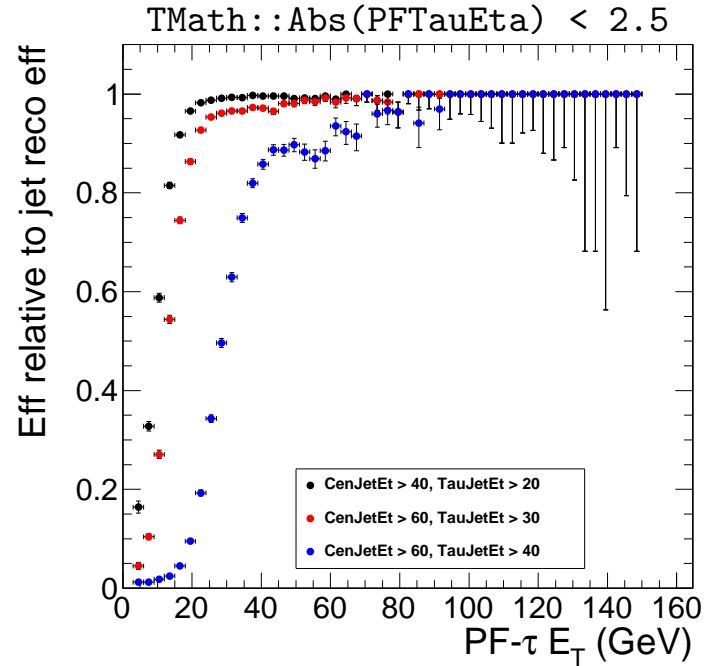
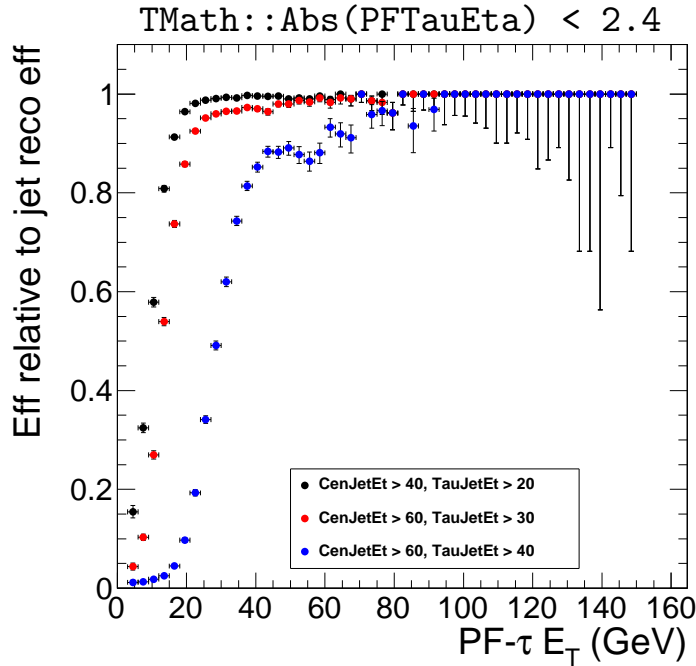
- Efficiency = $\frac{\text{L1 central OR } \tau \text{ jet}}{\text{PF-}\tau}$
- No E_T cut

L1 jet E_T threshold efficiency ($E_T; 1$)



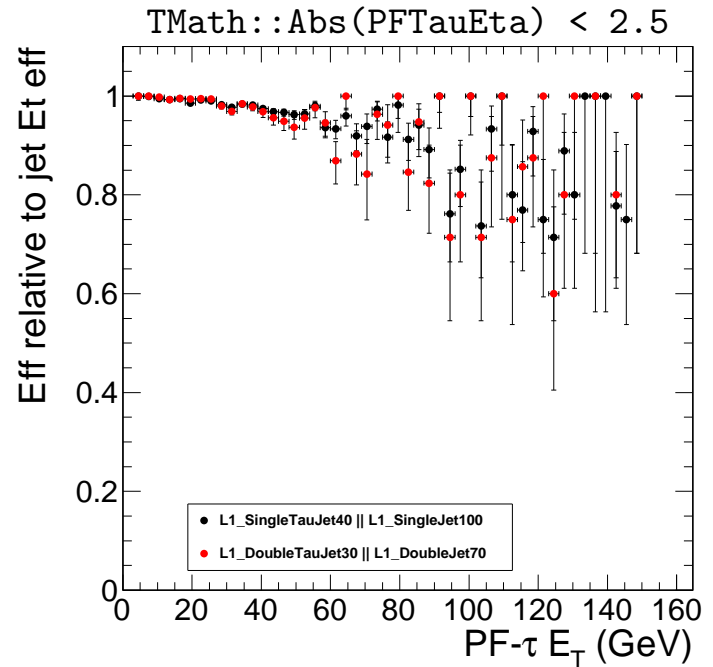
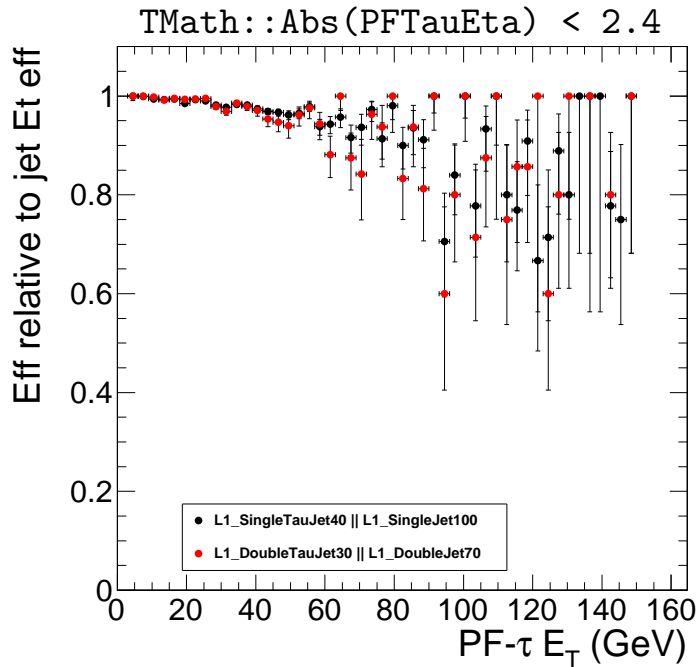
- Efficiency relative to the jet reconstruction efficiency
- No E_T cut

L1 jet E_T threshold efficiency ($E_T; 2$)



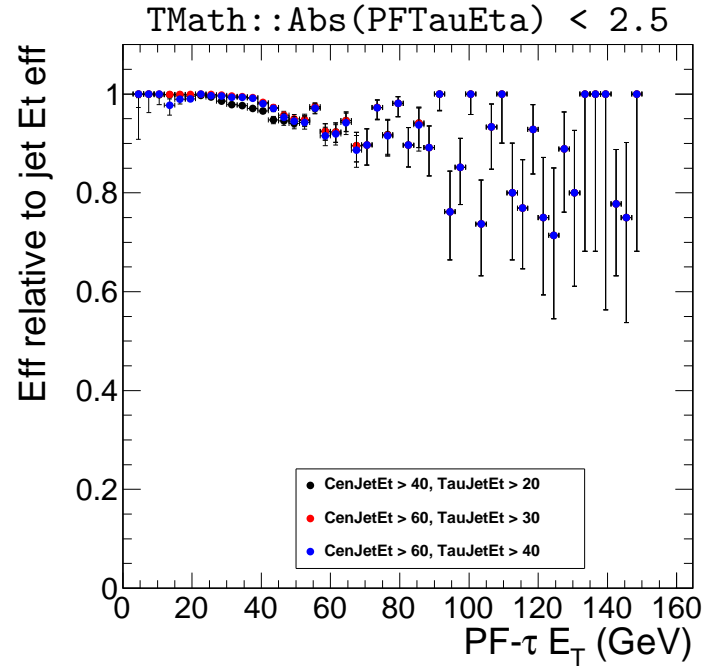
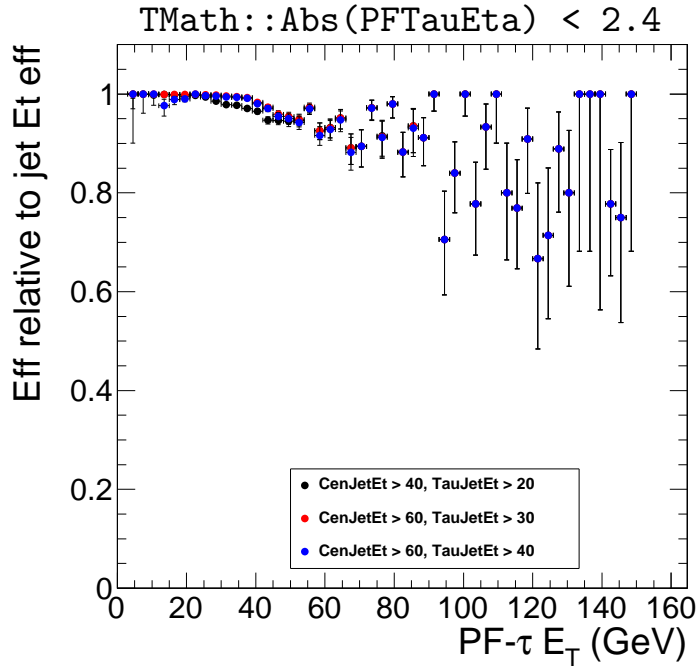
- Efficiency relative to the jet reconstruction efficiency
- No E_T cut

L1 TauVeto efficiency ($E_T; 1$)



- Efficiency relative to the jet E_T threshold efficiency
- No E_T cut

L1 TauVeto efficiency (E_T ; 2)



- Efficiency relative to the jet E_T threshold efficiency
- No E_T cut