Comparison with τ trigger & μ *or* τ trigger

by τ ID & P_T

signal sample W_R 1000 GeV-6500 GeV & N 100 GeV ~

2024.11.14 Anchihwan

Cut

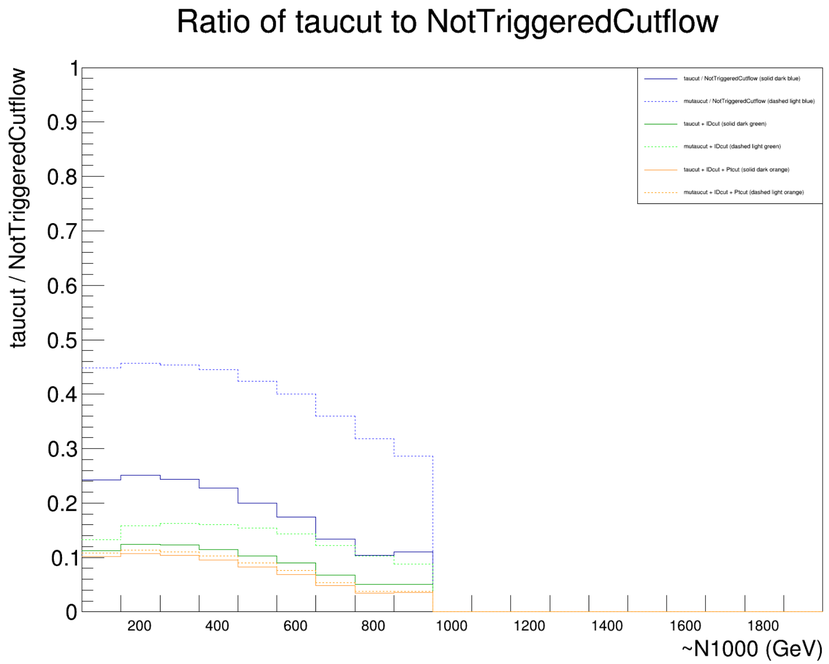
- τ ID
- j_decaymode = 0 , 1 , 10 , 11
- DecayModeNewDM
- $|\Delta z| < 0.2$
- passTIDvJet , passTIDvMu , passTIDvEl
- $\eta < 2.1$

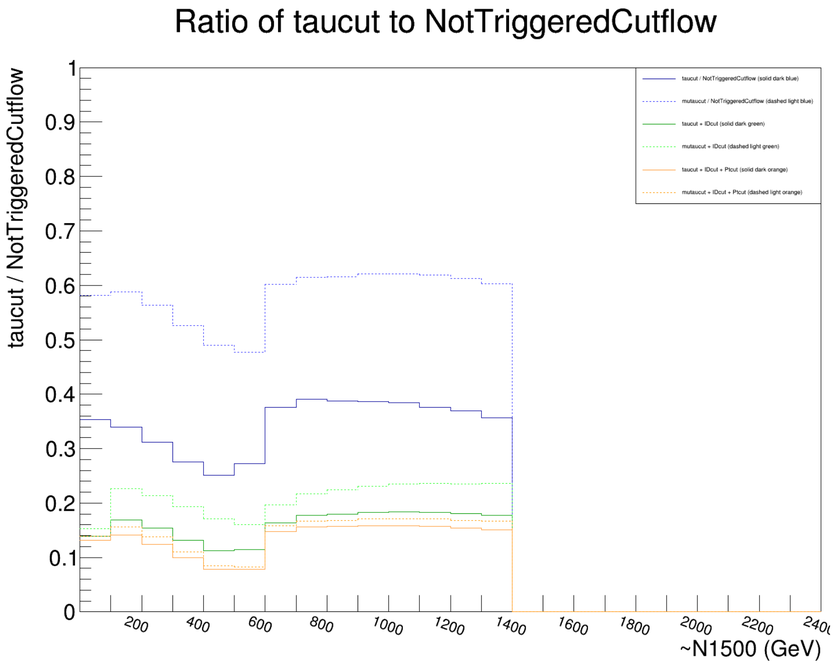
- P_T selection
- $P_T > 190$ GeV

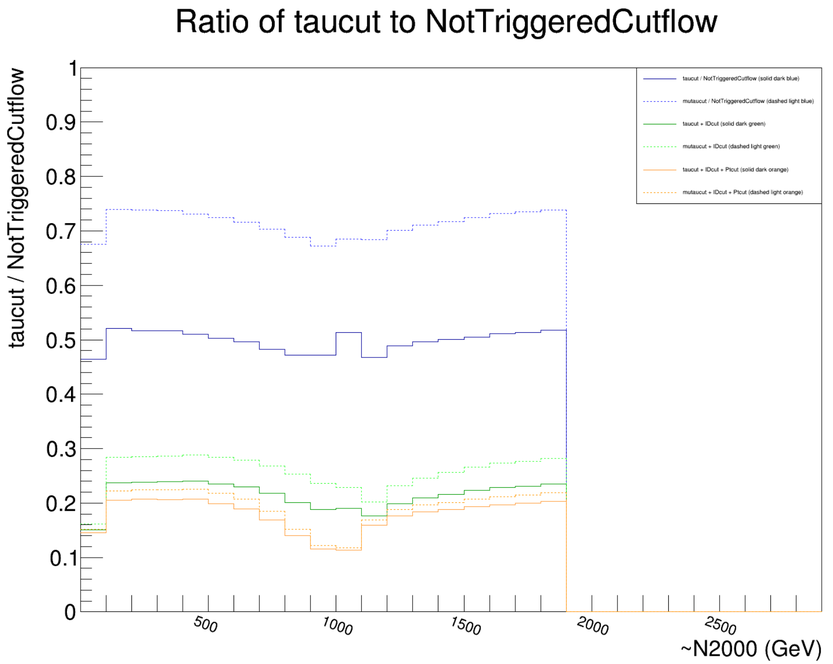
μ or τ trigger & τ trigger

(P_T + τID +τ trigger + MET filter) / MET filter

(P_T + τID + τ trigger or μtrigger + MET filter) / MET filter





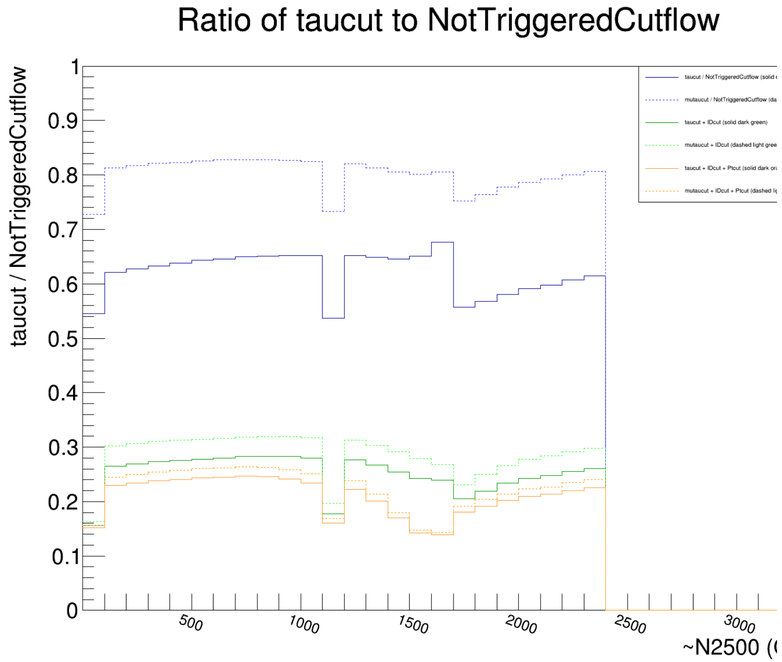


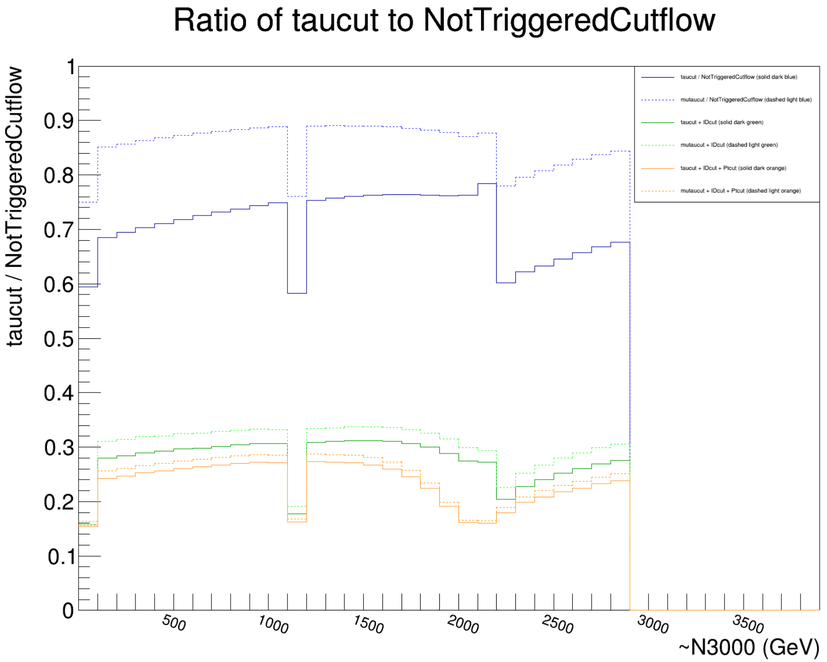
- W_R 1000 ~ 2000

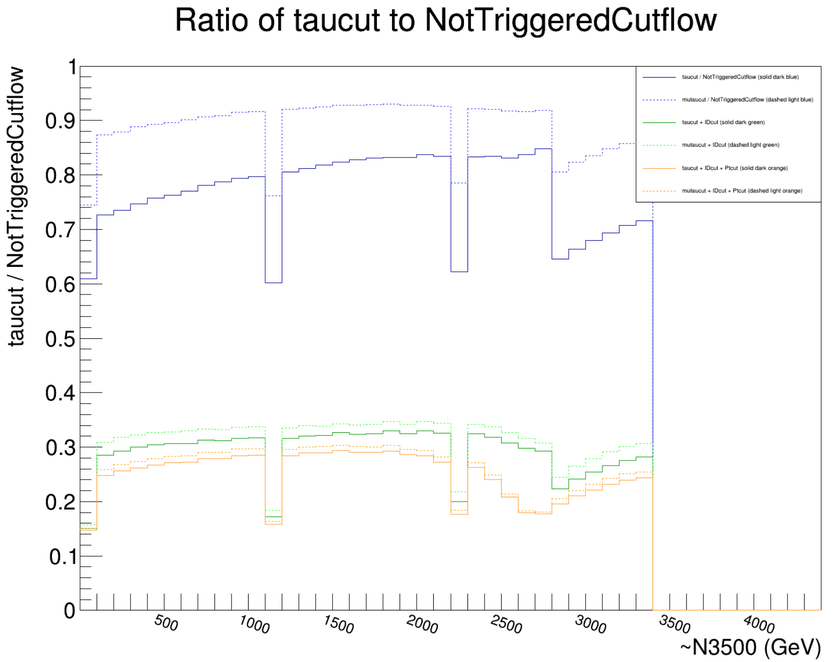
μ or τ trigger & τ trigger

(P_T + τID +τ trigger + MET filter) / MET filter

(P_T + τID + τ trigger or μtrigger + MET filter) / MET filter





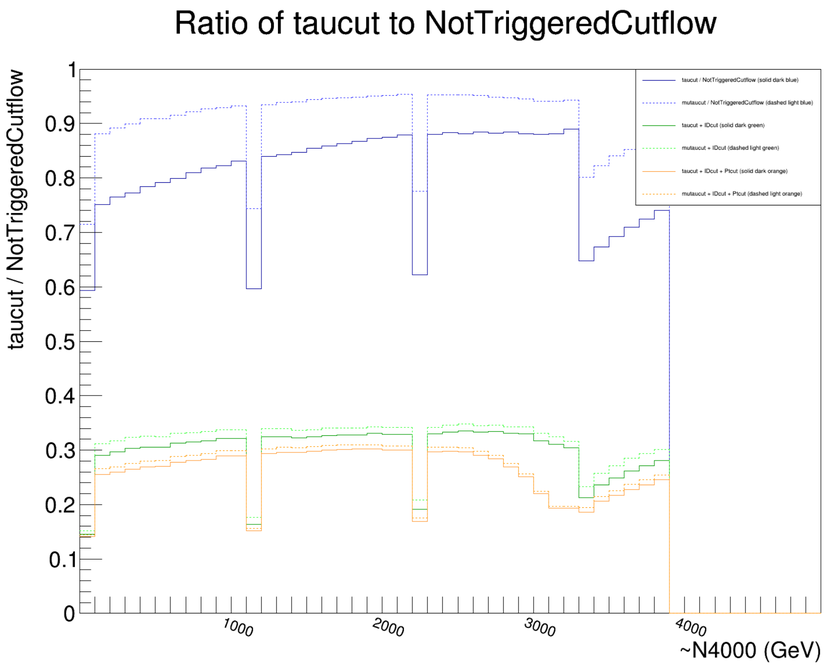


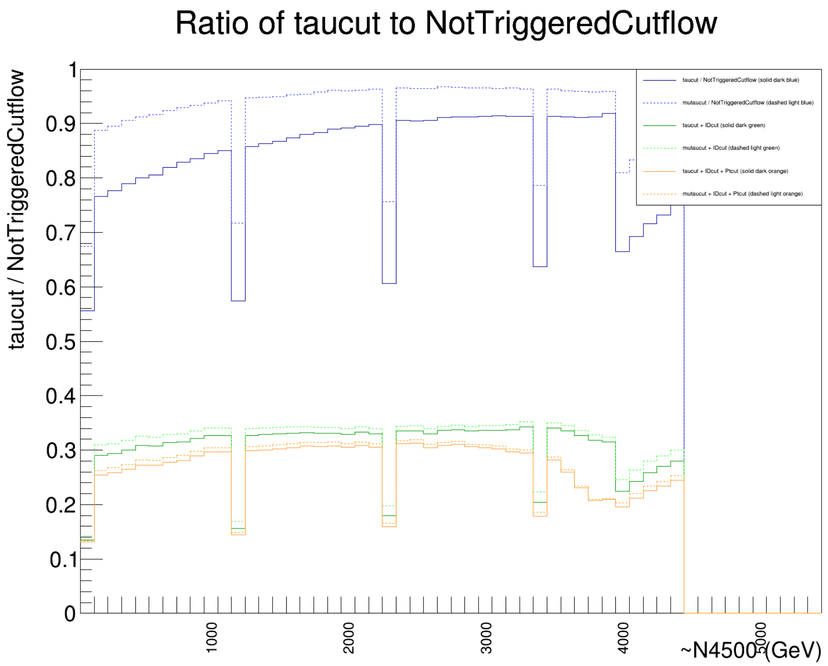
- W_R 2500 ~ 3500

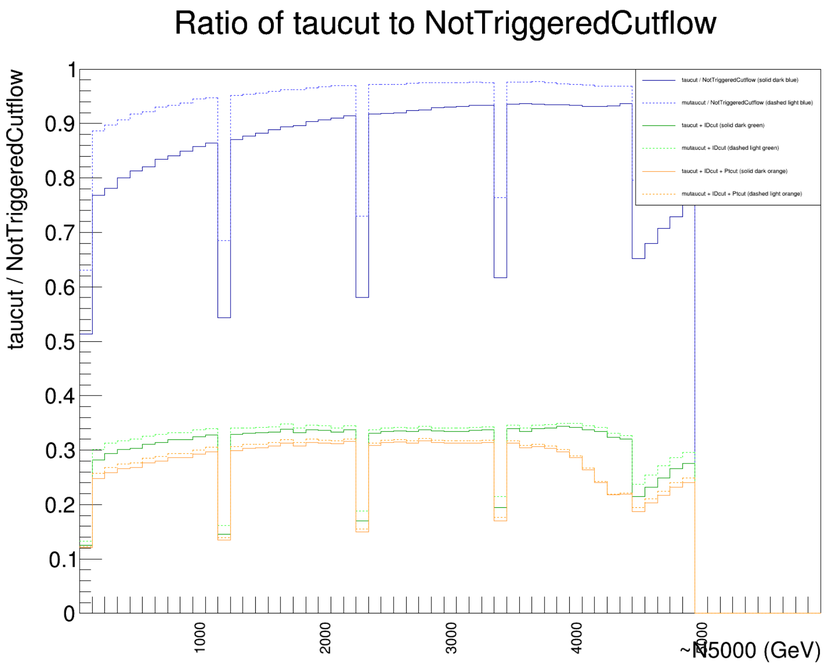
μ or τ trigger & τ trigger

(P_T + τID +τ trigger + MET filter) / MET filter

(P_T + τID + τ trigger or μtrigger + MET filter) / MET filter





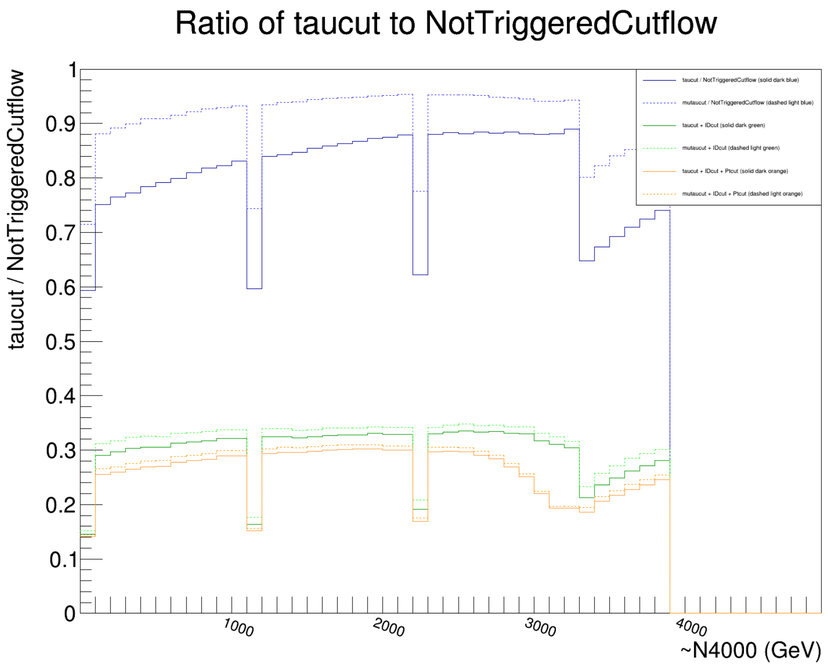


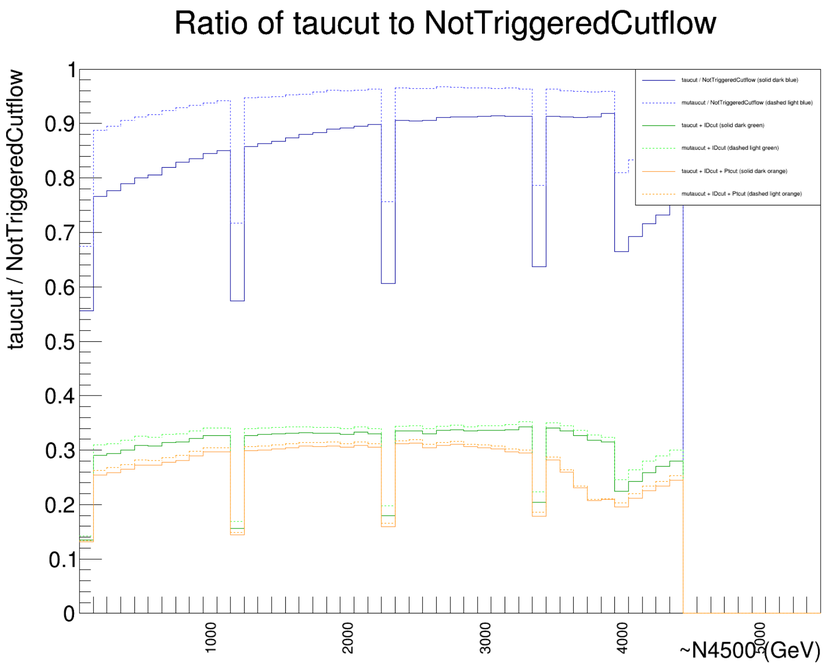
- W_R 4000~5000

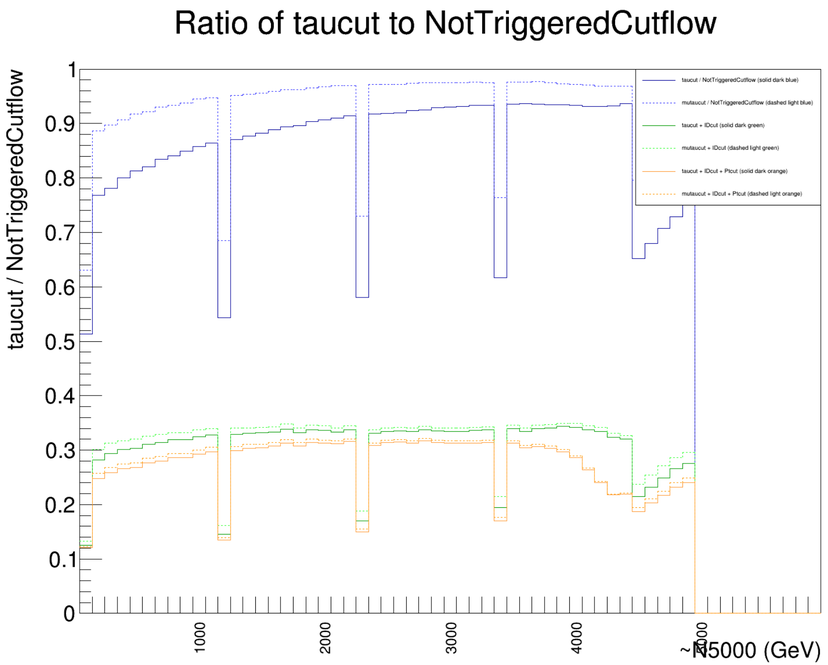
μ or τ trigger & τ trigger

(P_T + τID +τ trigger + MET filter) / MET filter

(P_T + τID + τ trigger or μtrigger + MET filter) / MET filter



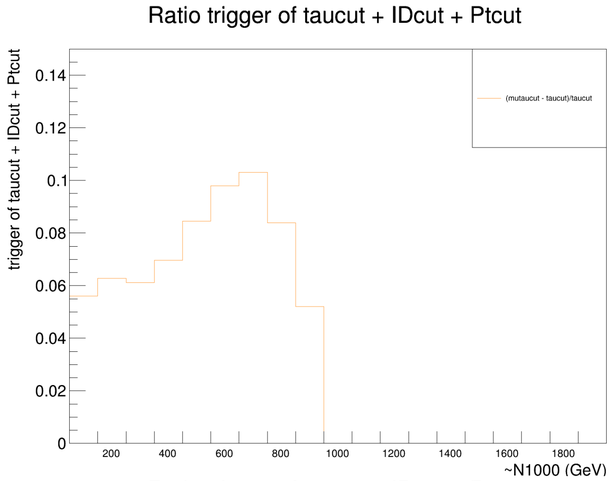


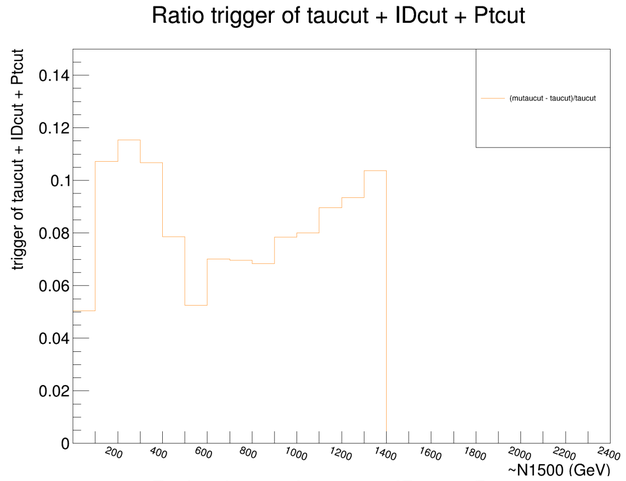


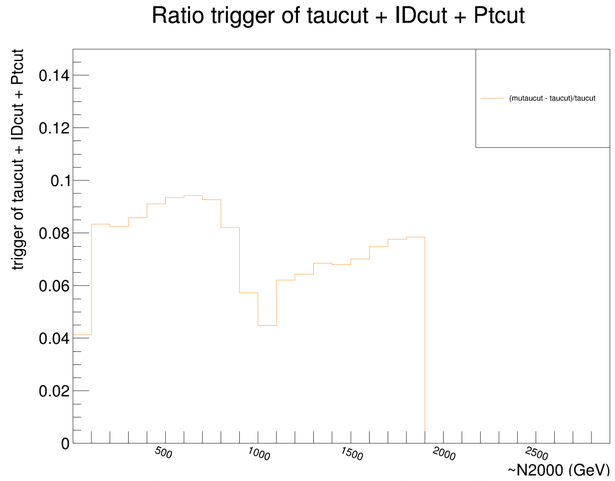
- W_R 5500~6500

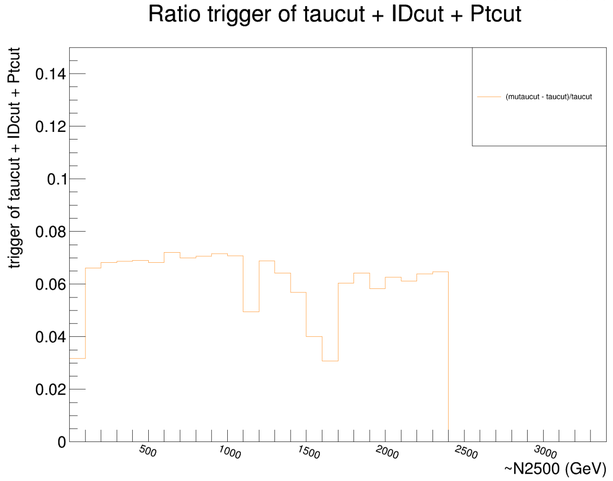
μ or τ trigger & τ trigger

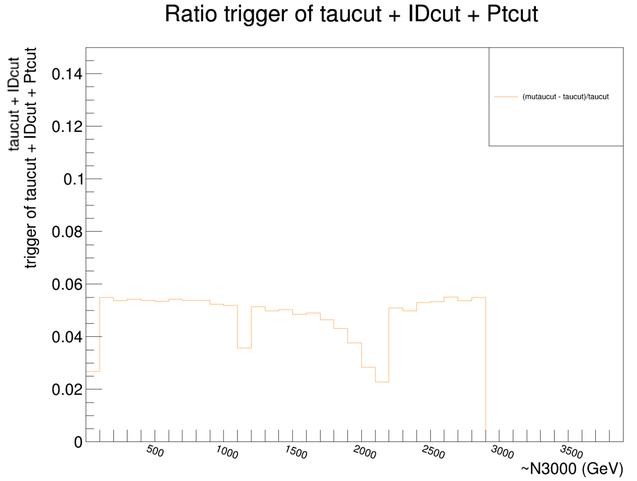
(τ trigger & μtrigger - τ trigger)/ τ trigger

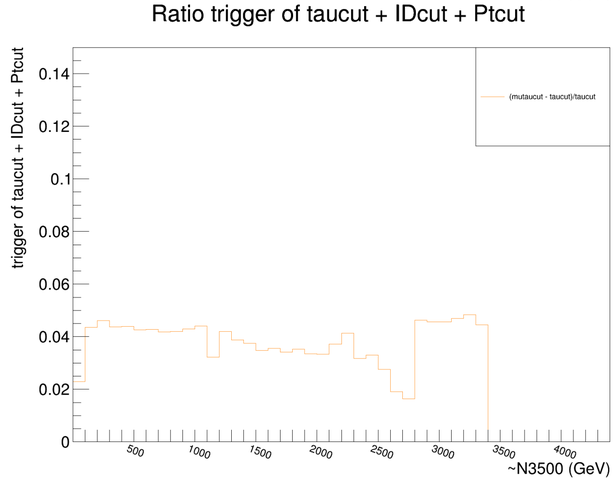








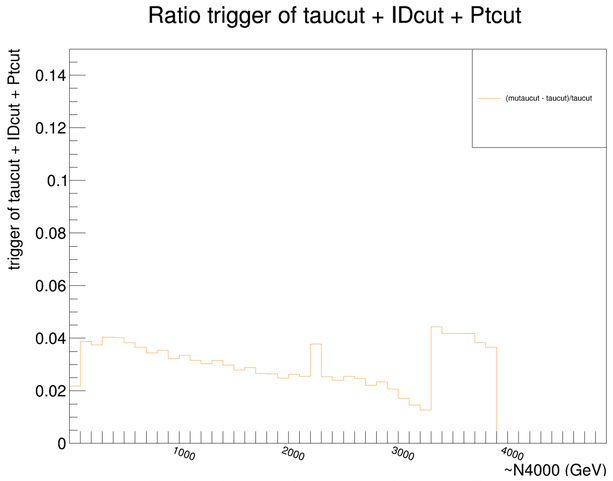


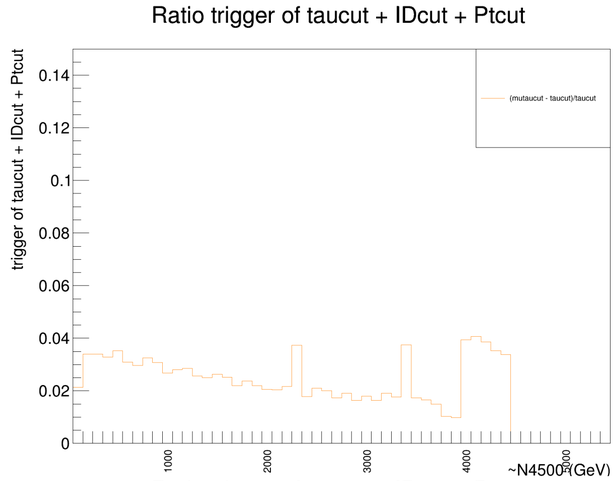


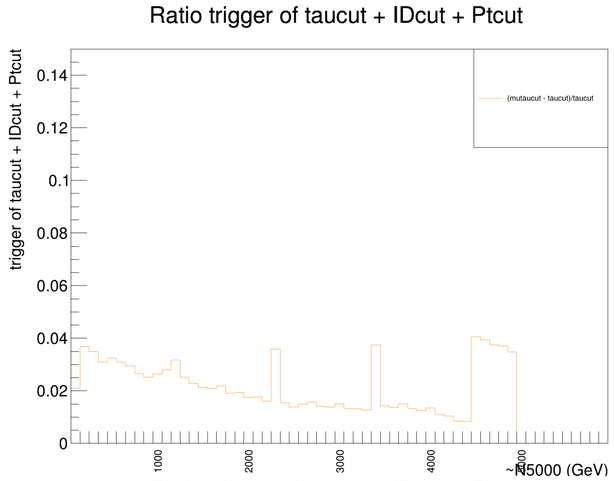
- W_R 1000~ 4000

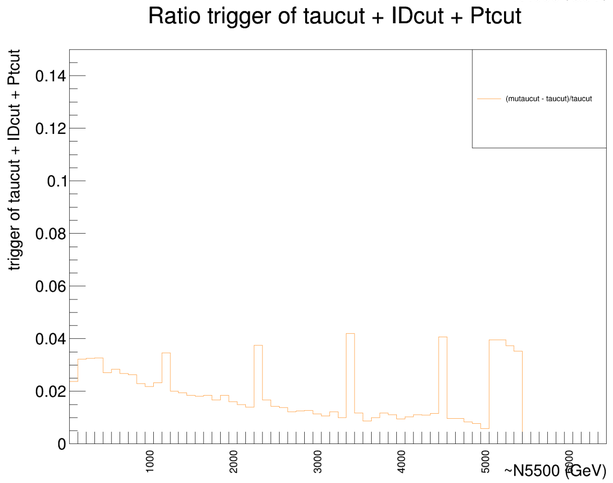
μ or τ trigger & τ trigger

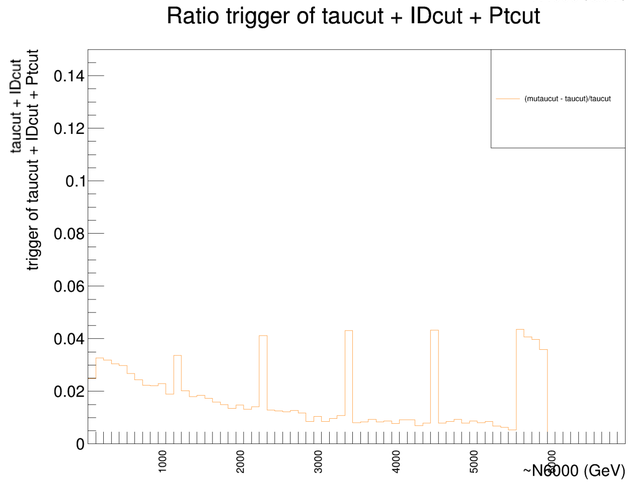
(τ trigger & μtrigger - τ trigger)/ τ trigger

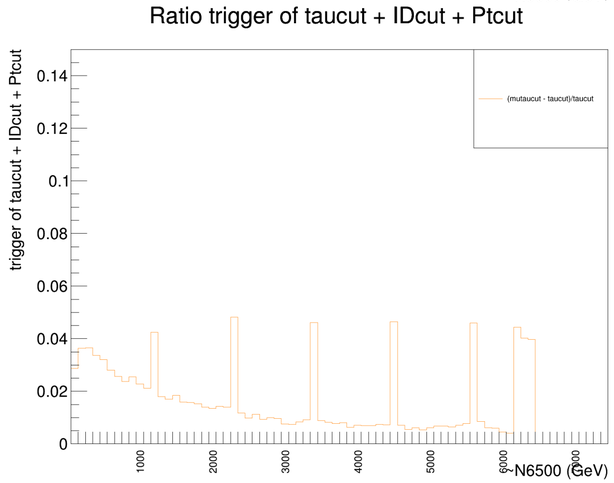












- W_R 4500~6500

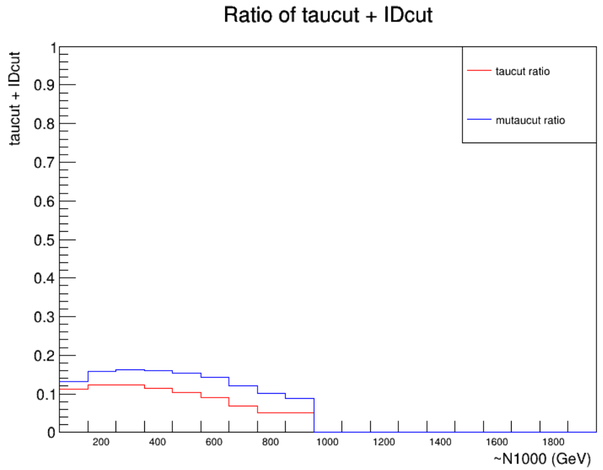
Backup

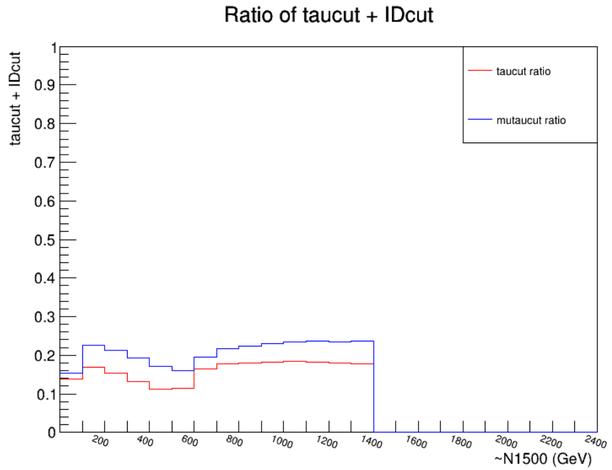
τ ID cut & P_T cut

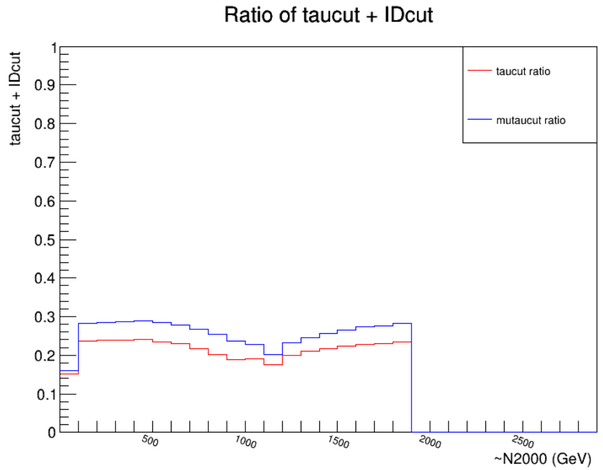
τ ID

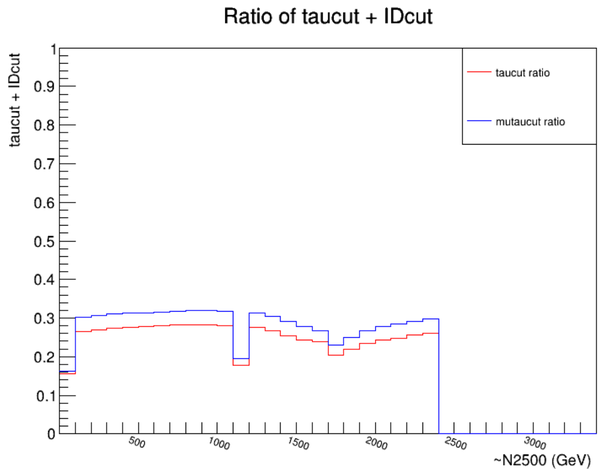
(τID +τ trigger + MET filter) / MET filter

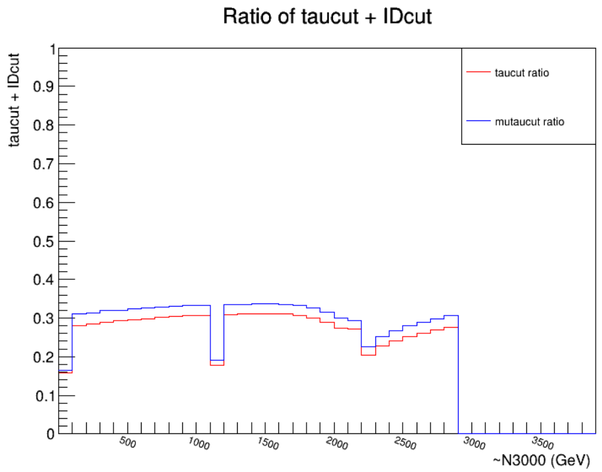
(τID + τ trigger or μtrigger + MET filter) / MET filter

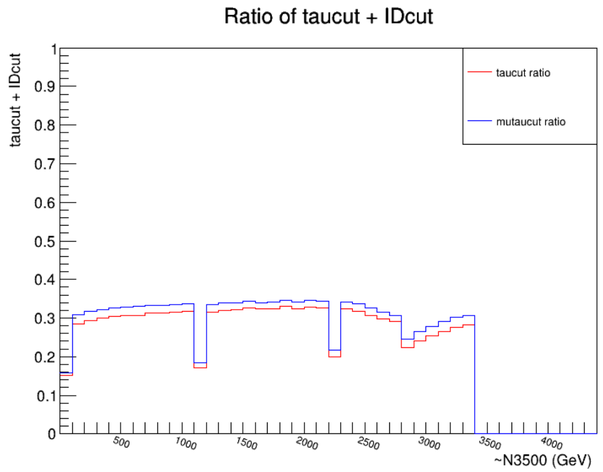










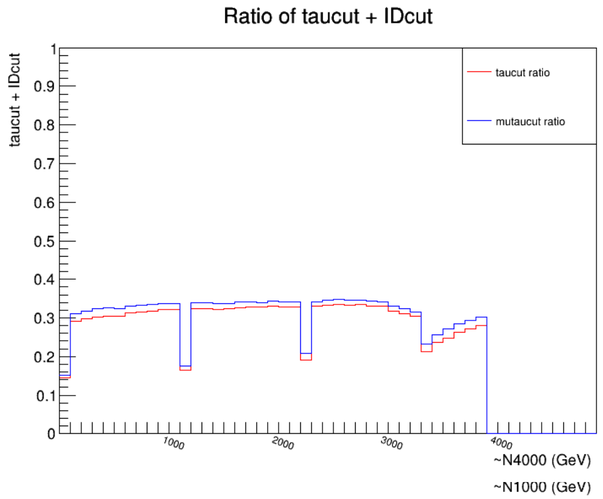


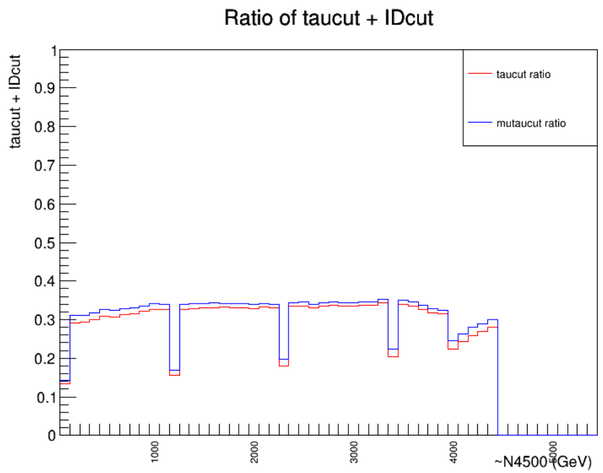
- W_R 1000 ~ 3500

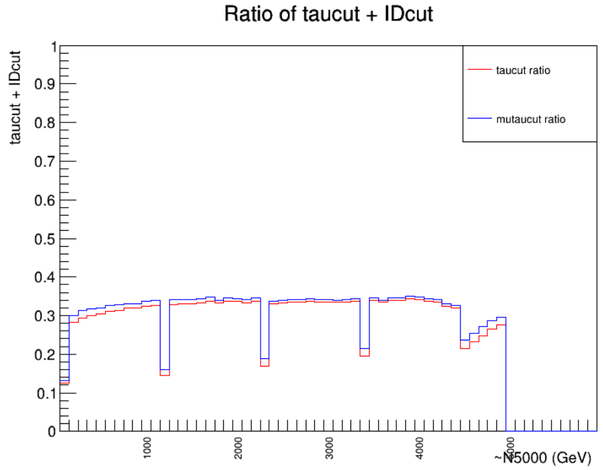
τ ID

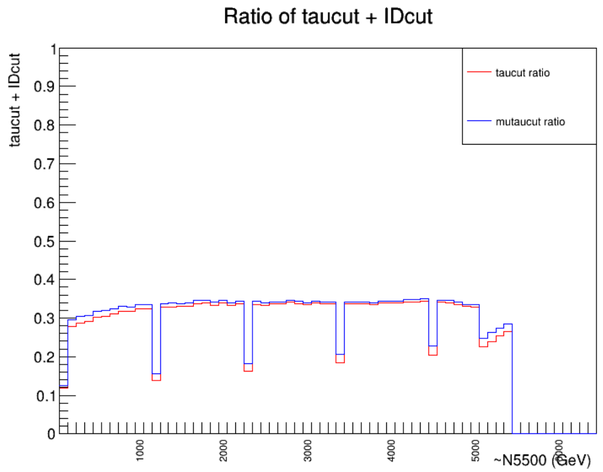
(τID +τ trigger + MET filter) / MET filter

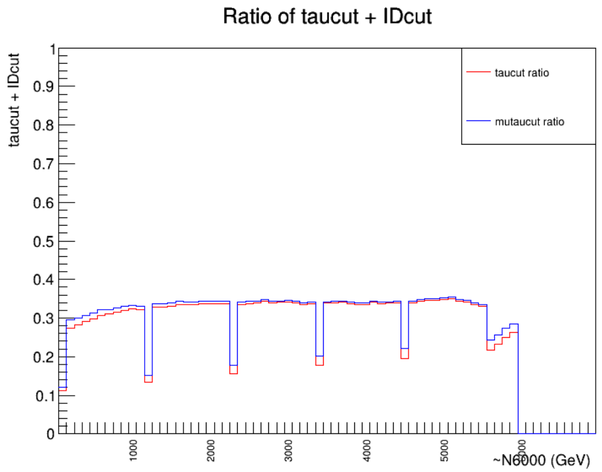
(τID + τ trigger or μtrigger + MET filter) / MET filter

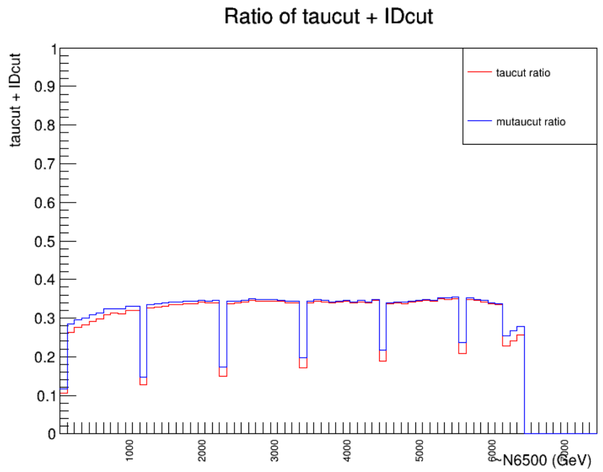










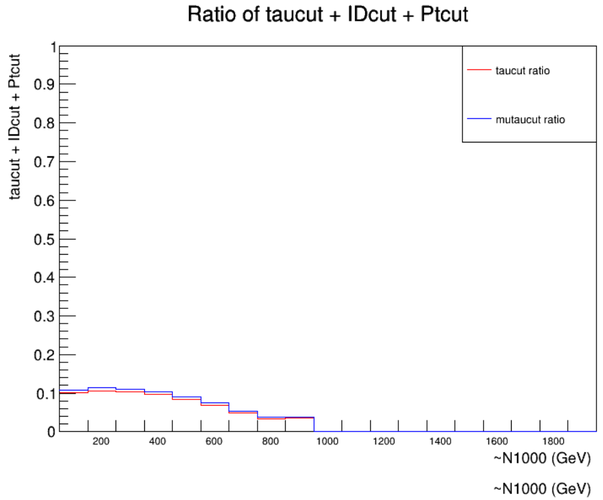


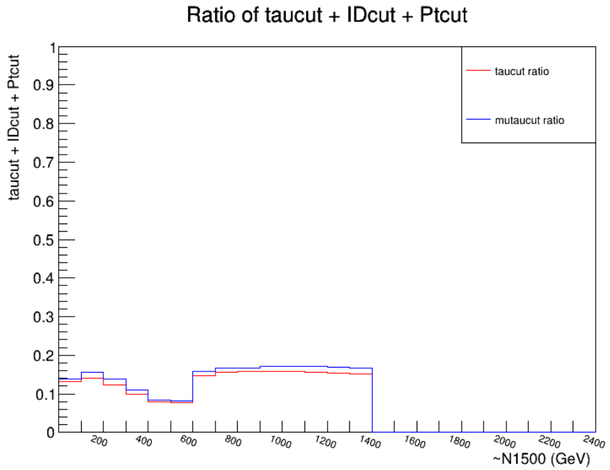
- W_R 4000~6500

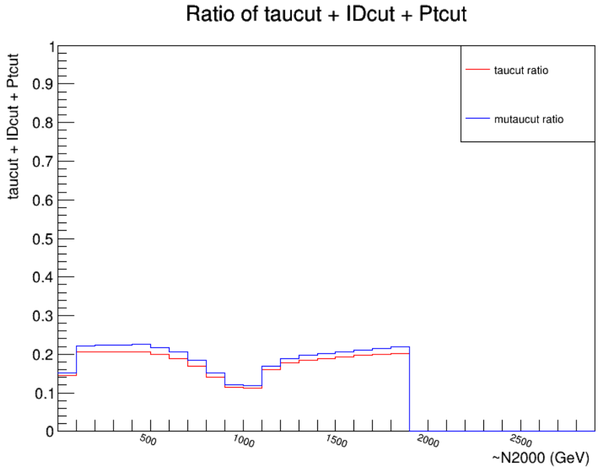
P_T

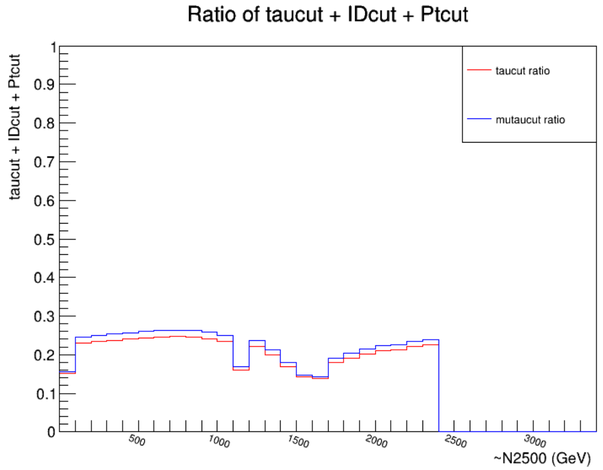
(P_T + τID +τ trigger + MET filter) / MET filter

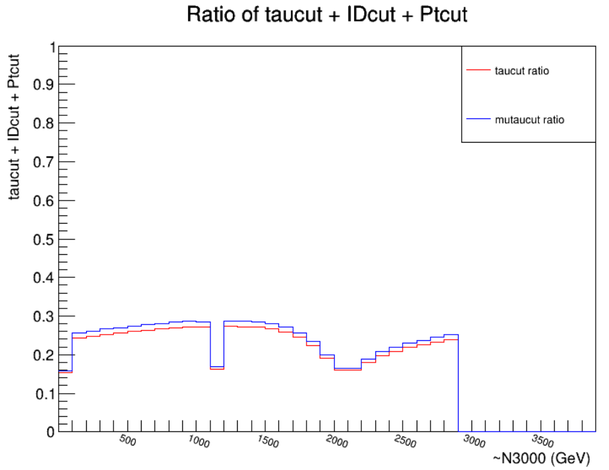
(P_T + τID + τ trigger or μtrigger + MET filter) / MET filter

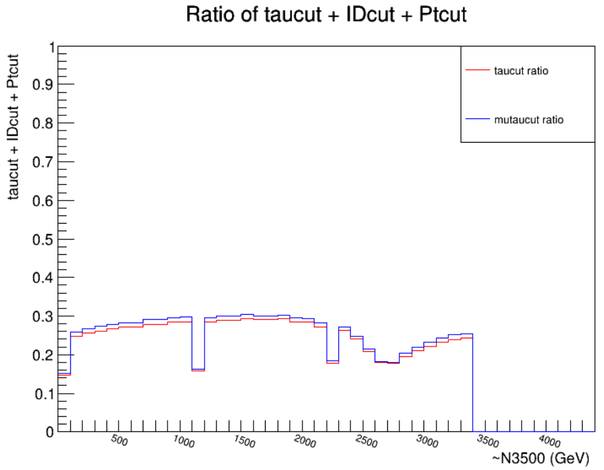










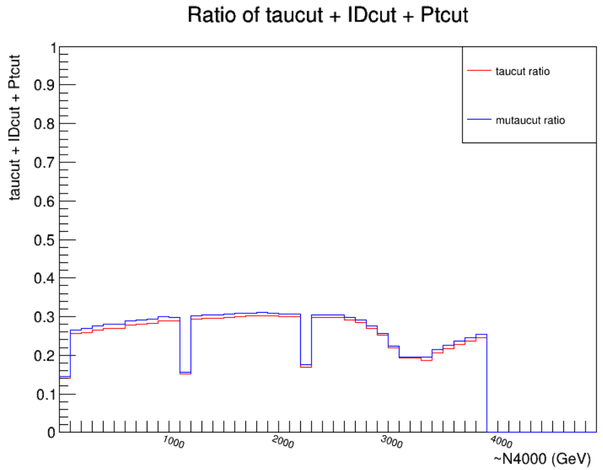


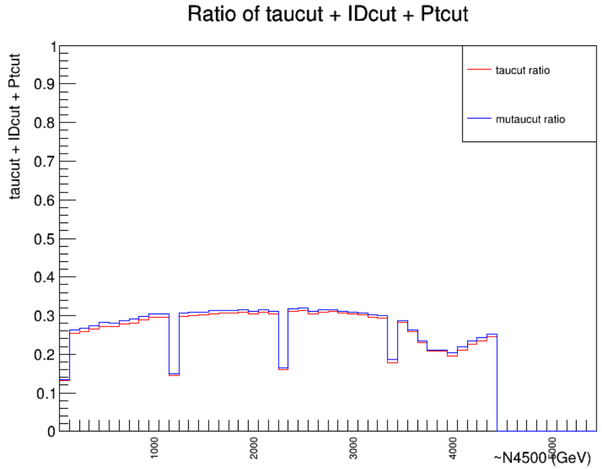
- W_R 1000 ~ 3500

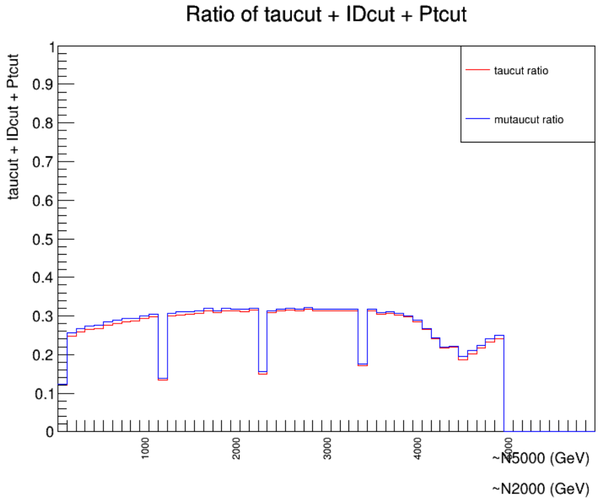
P_T

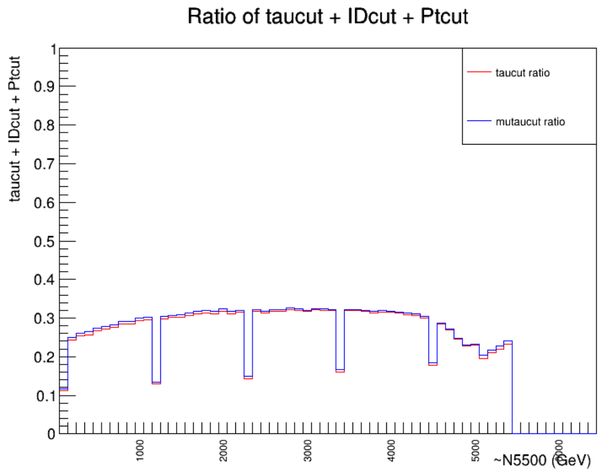
(P_T + τID +τ trigger + MET filter) / MET filter

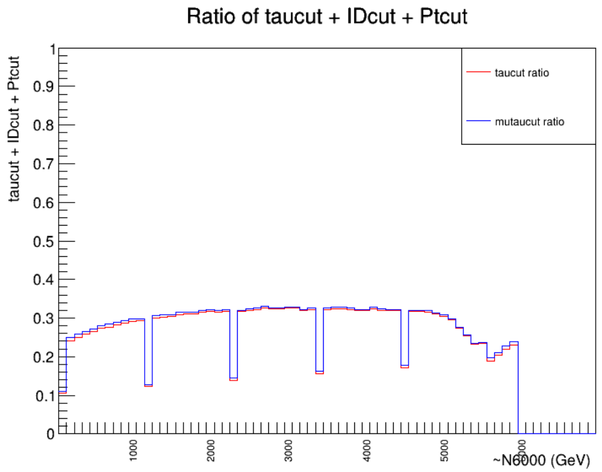
(P_T + τID + τ trigger or μtrigger + MET filter) / MET filter

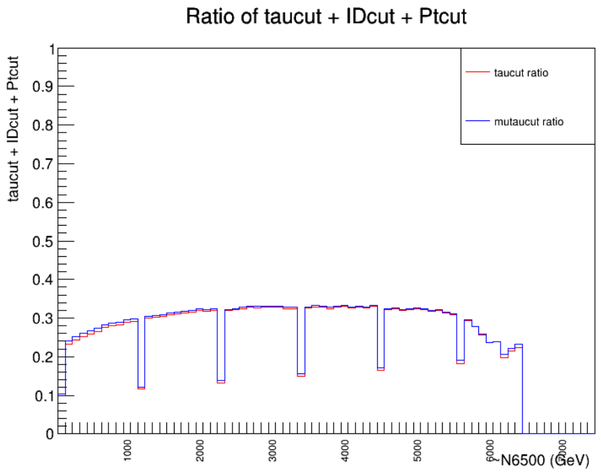












- W_R 4000~6500