

# Status Report

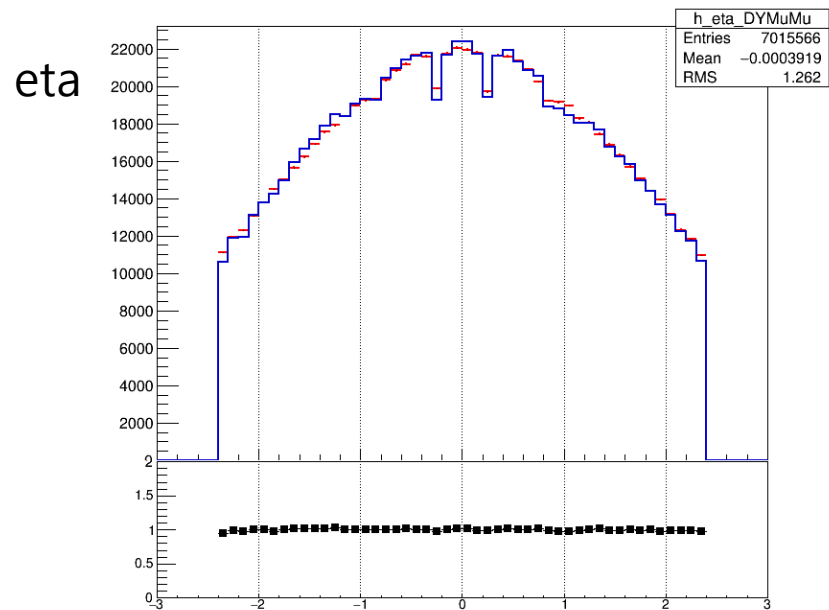
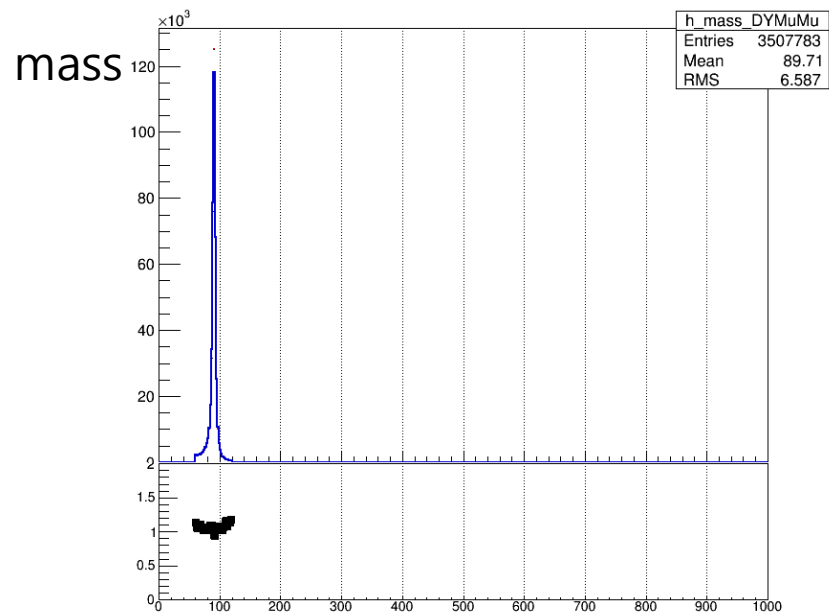
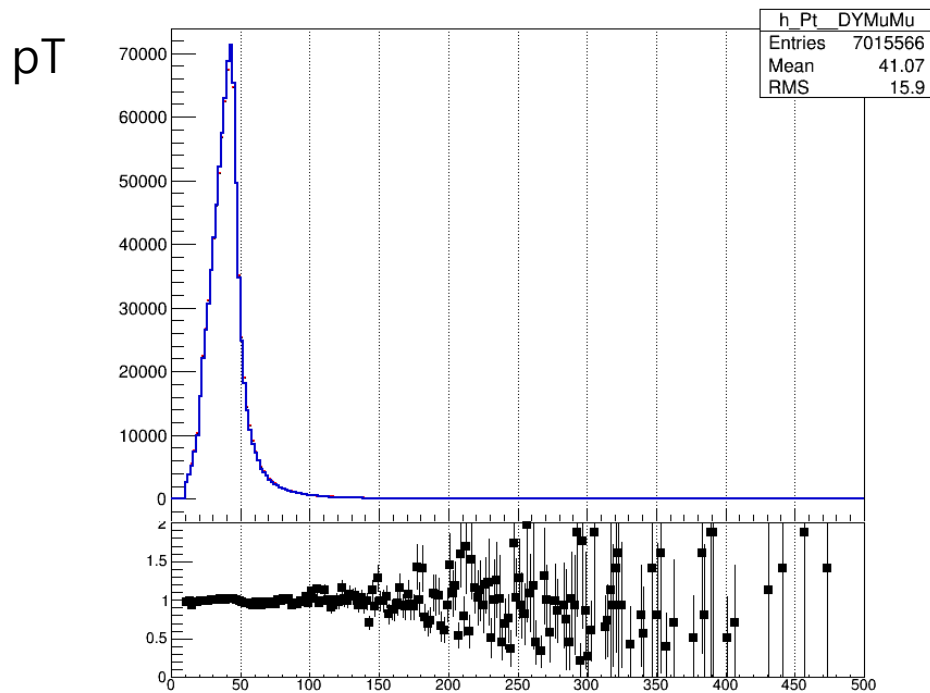
2015. 11. 13

Nam Jong Woo

# Action Item

- Muon plots without each cut (N-1 cut)
  - pT, eta, dimuon mass
  - Include Ratio plot
  - M60to120

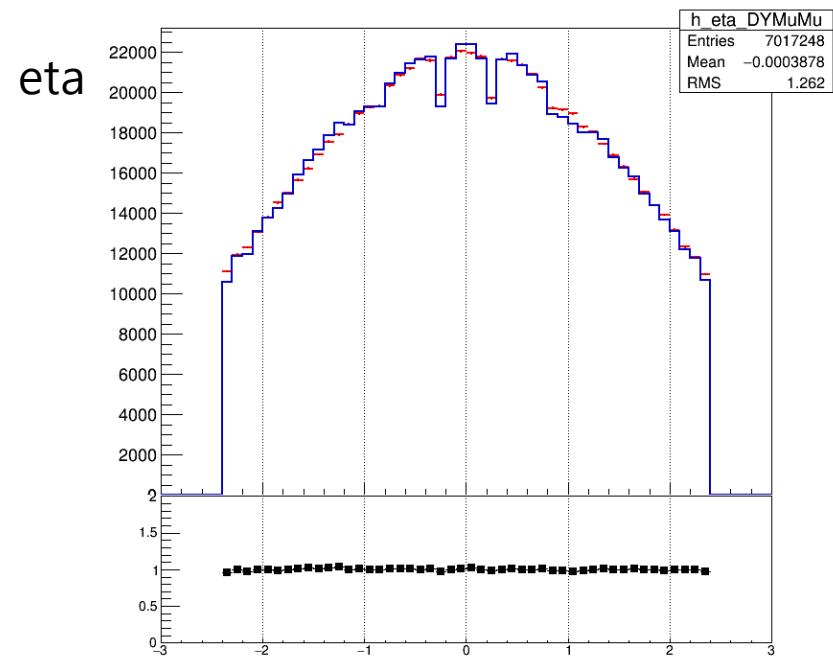
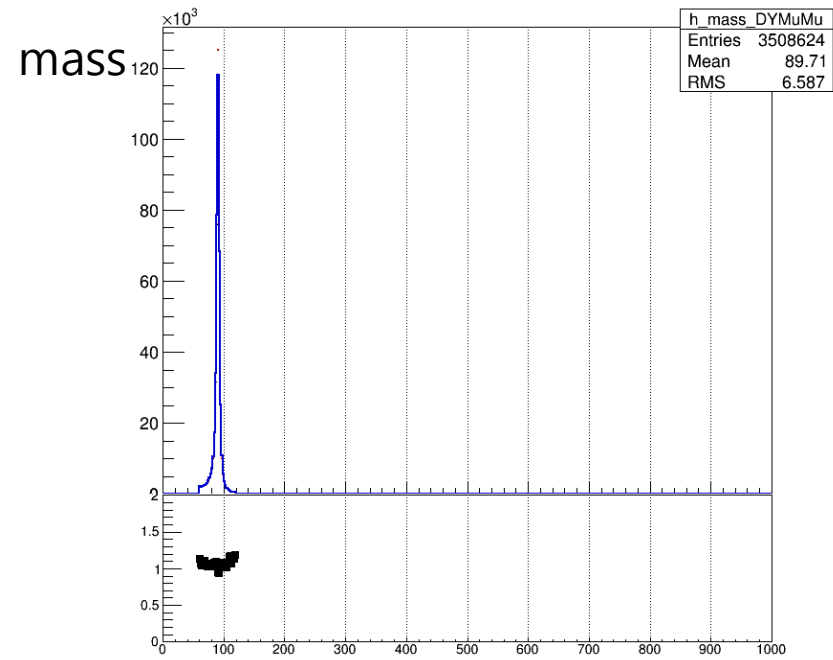
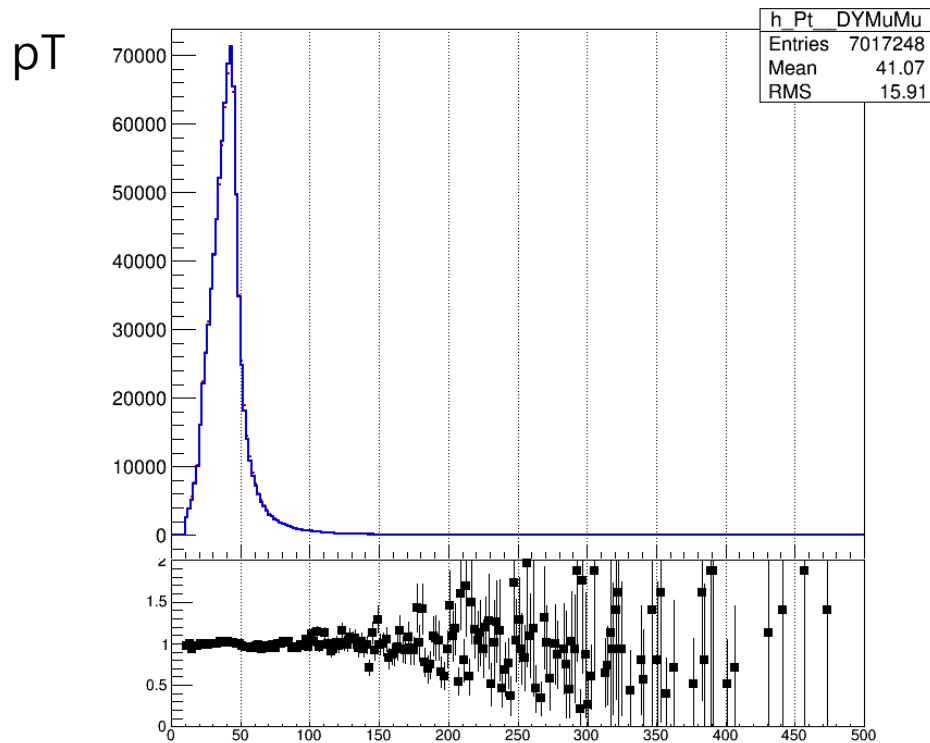
# M60to120 TightMuon (All Cut Applied)



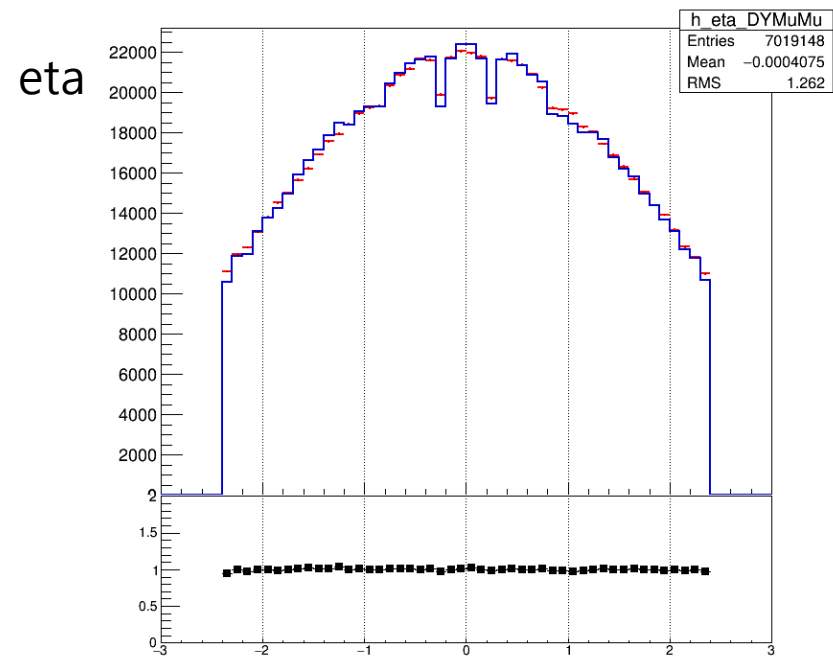
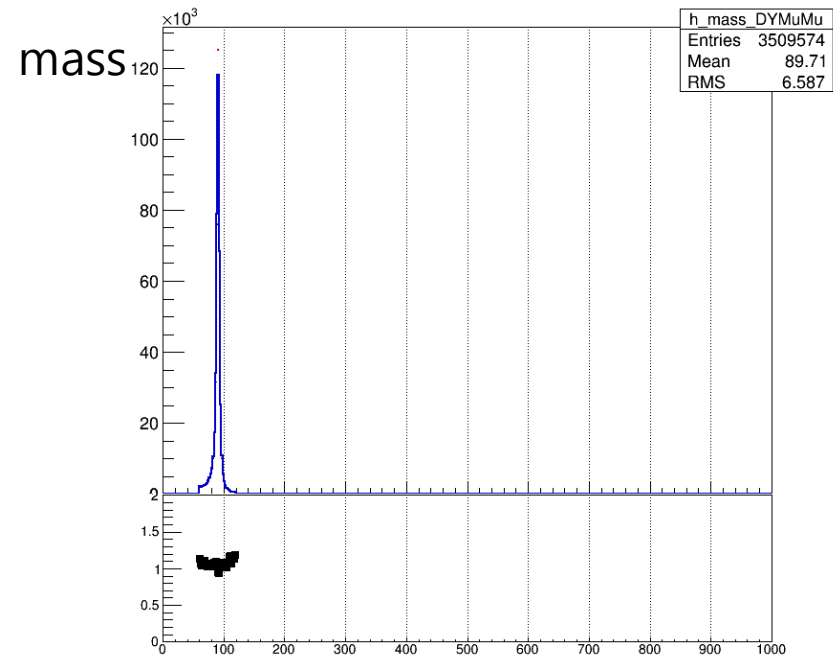
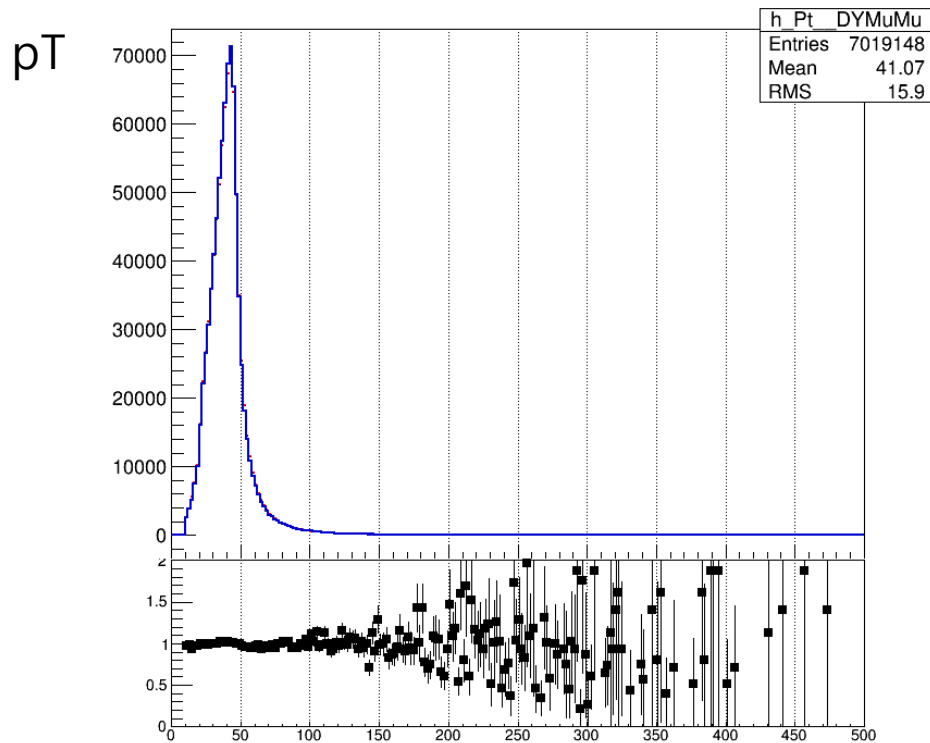
# Exclude Each Cut

isGLB == 1	Reconstructed as a Global Muon
isPF == 1	Particle Flow Muon the exclusive effect of this requirement is very small
chi2dof < 10	$\chi^2/\text{ndof}$ of the global-muon track fit < 10
muonHits > 0	At least one muon chamber hit included in the global-muon track fit
nMatches > 1	Muon segments in at least two muon stations This implies that the muon is also an arbitrated tracker muon
abs(dxyVTX) < 0.2	Its tracker track has transverse impact parameter dxy < 2 mm w.r.t. the primary vertex
abs(dzVTX) < 0.5	The longitudinal distance of the tracker track wrt. the primary vertex is dz < 5 mm
pixelHits > 0	Number of pixel hits > 0
trackerLayers > 5	Cut on number of tracker layers with hits >5
trkiso < 0.10	$(\sum pT(\text{TRK}))/pT < 0.10$

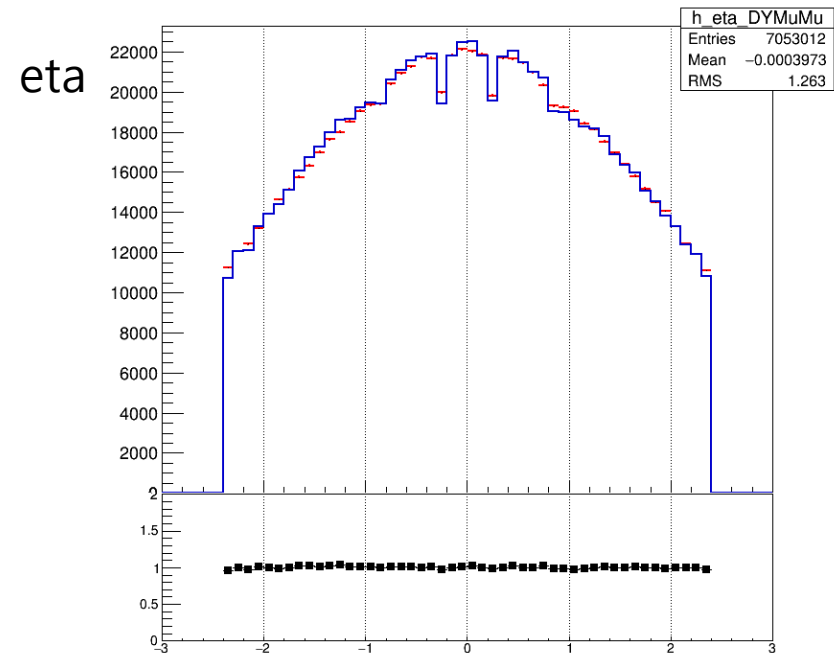
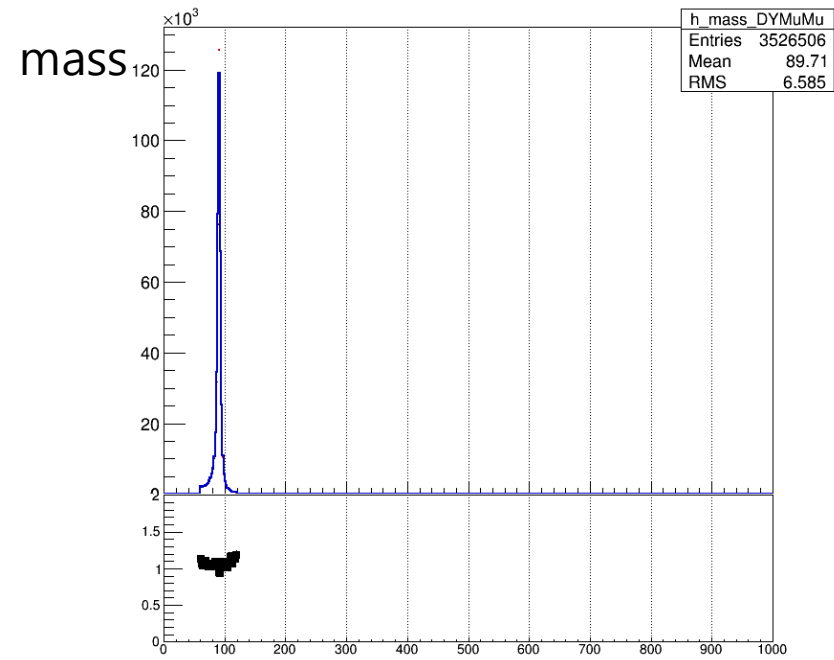
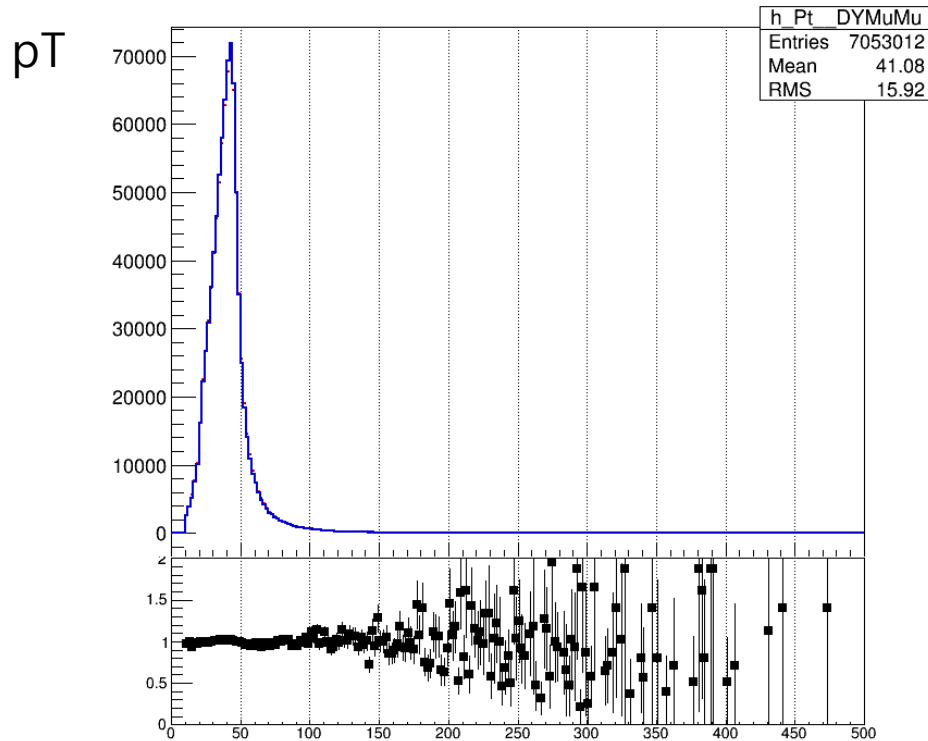
# Without isGLB



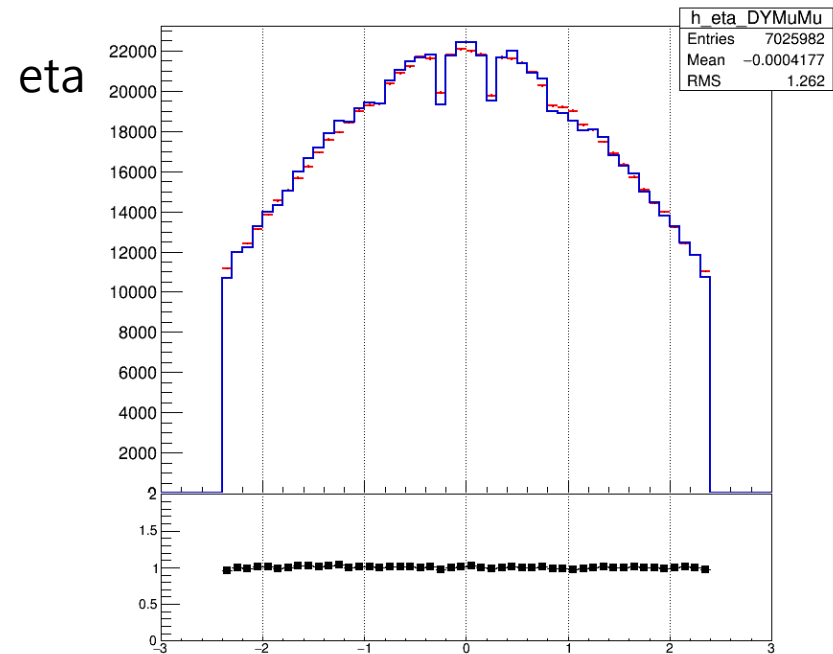
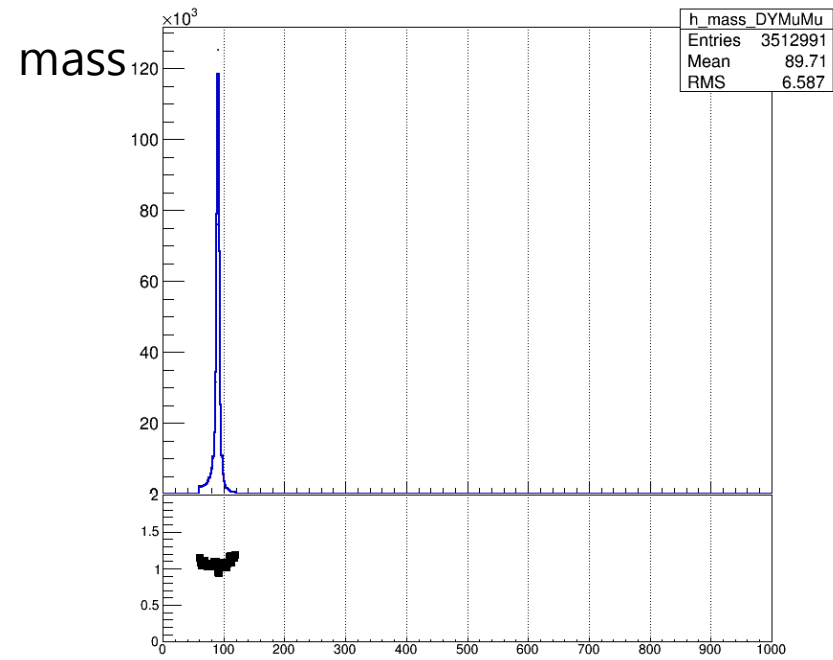
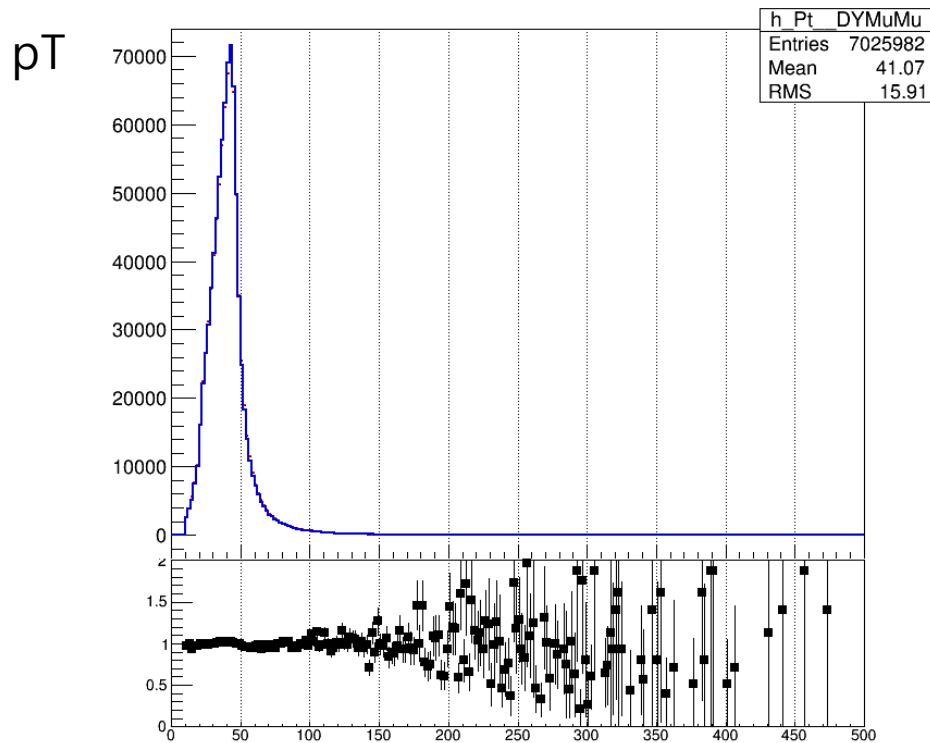
# Without isPF



# Without chi2dof

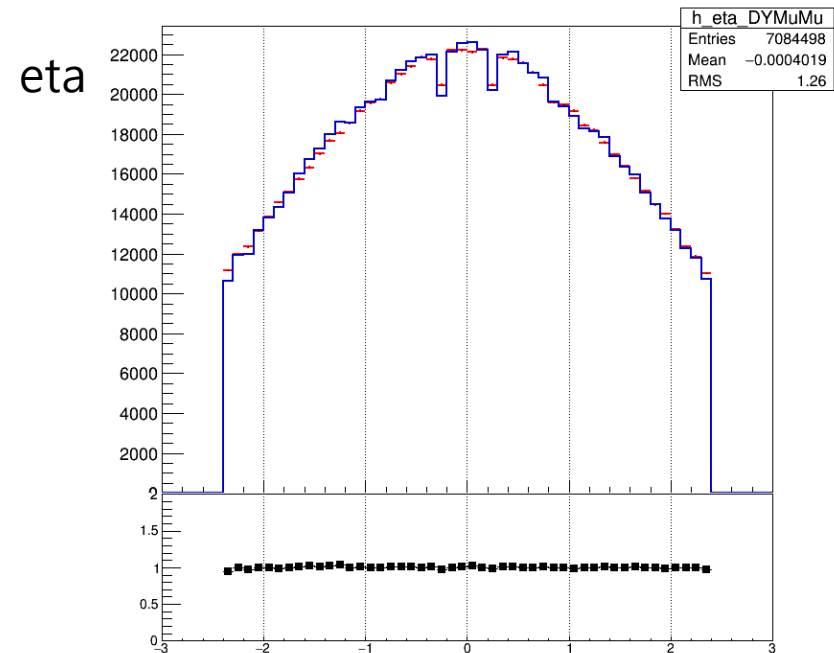
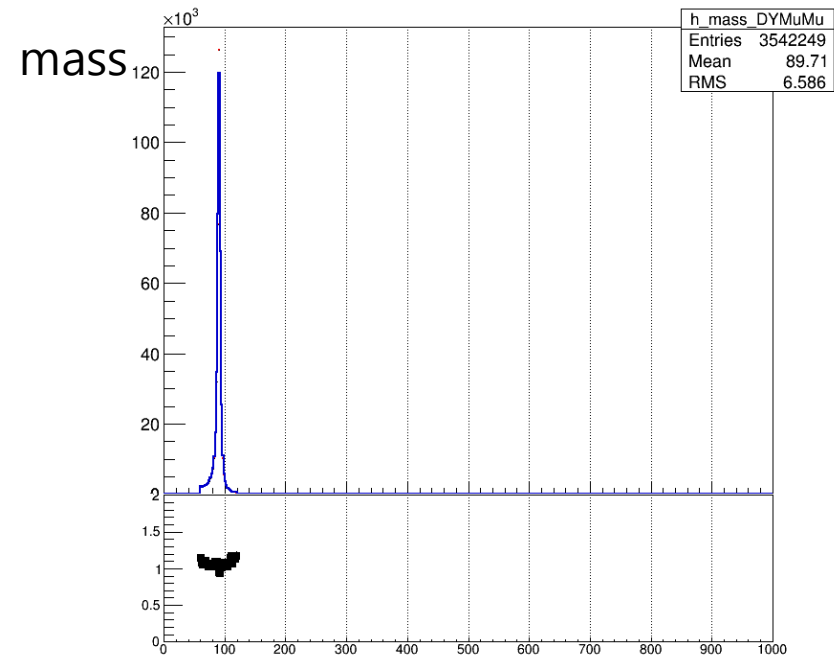
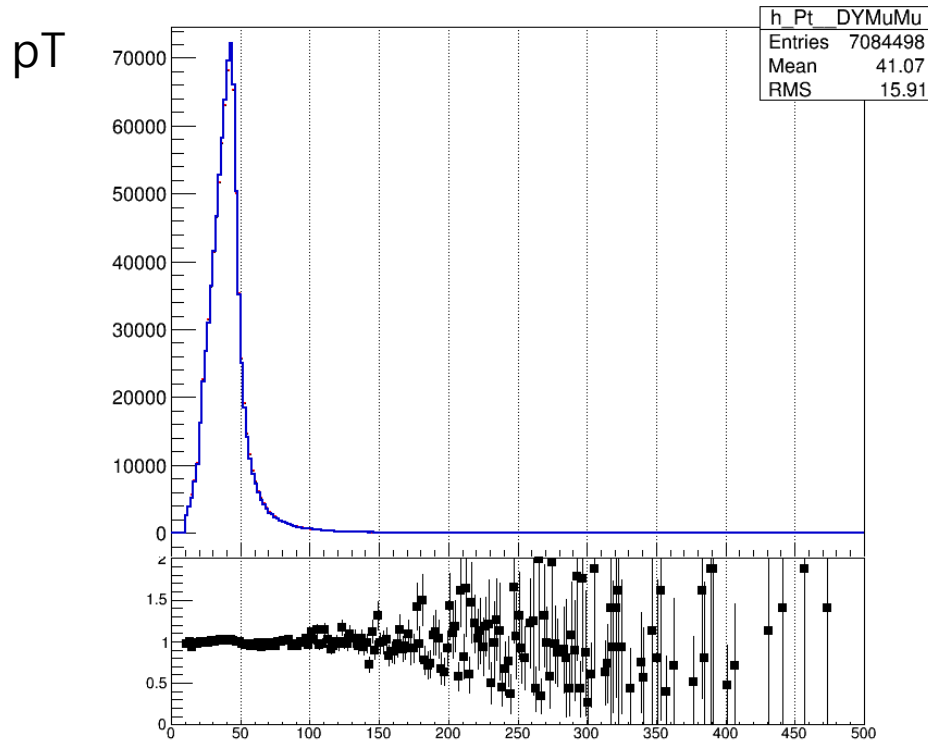


# Without muonHits

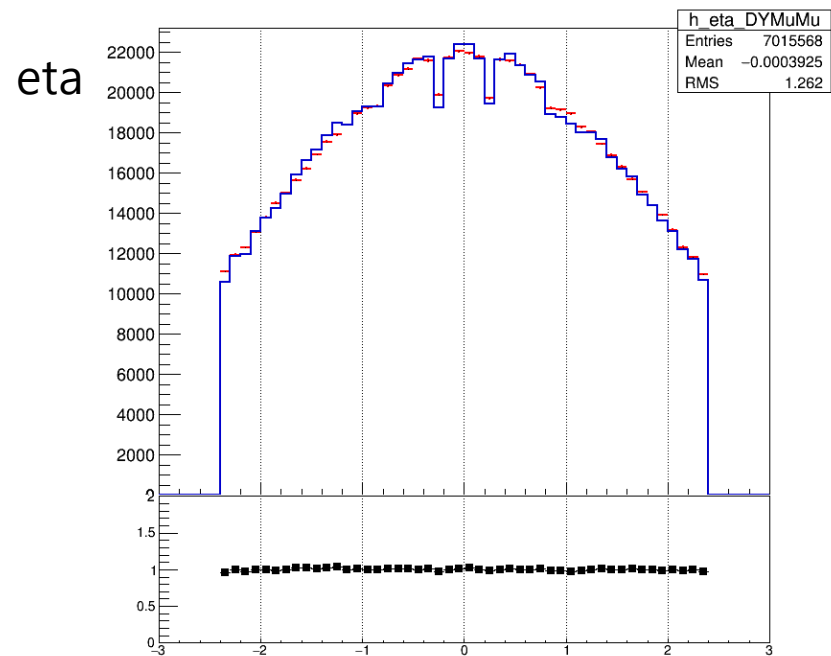
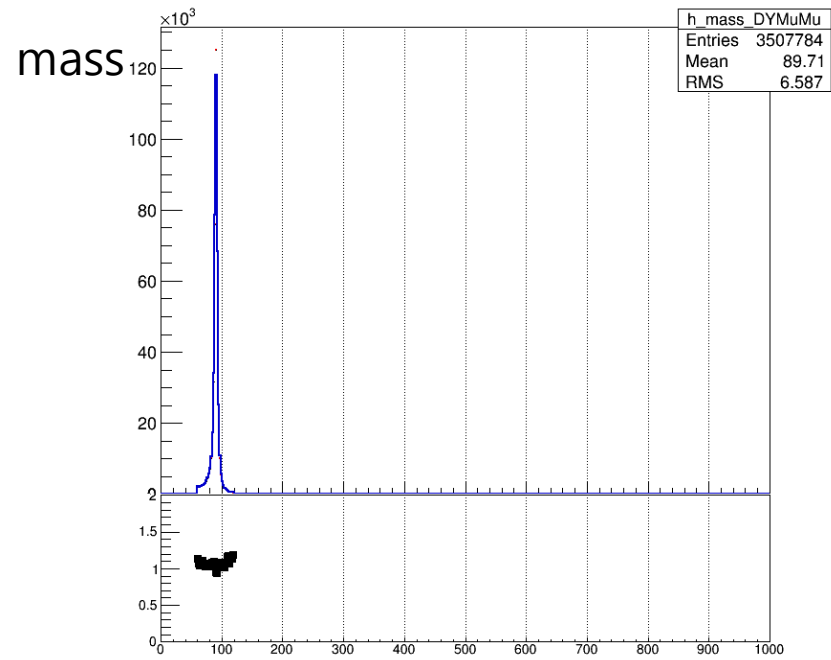
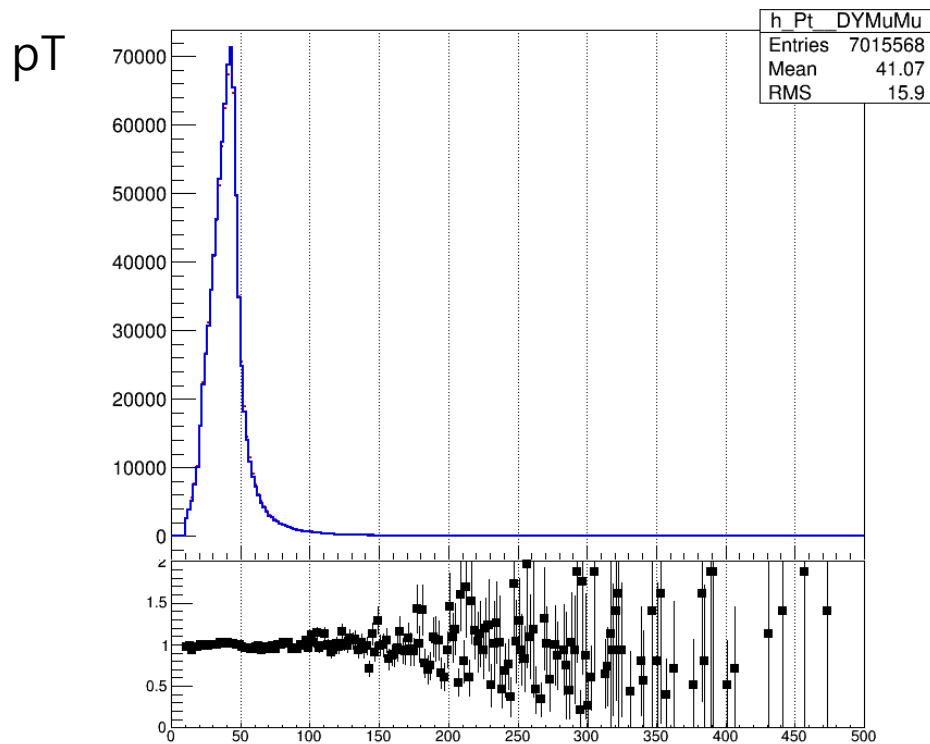




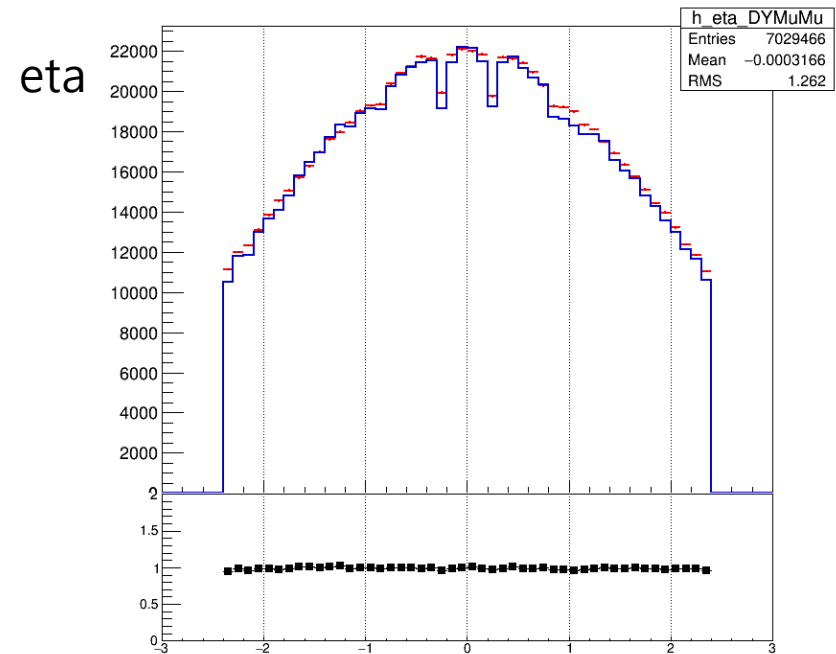
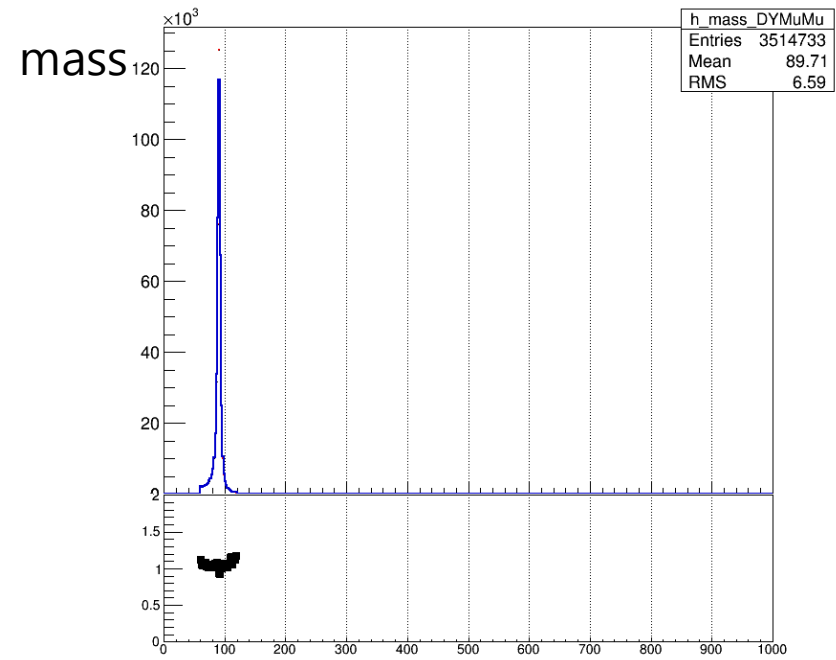
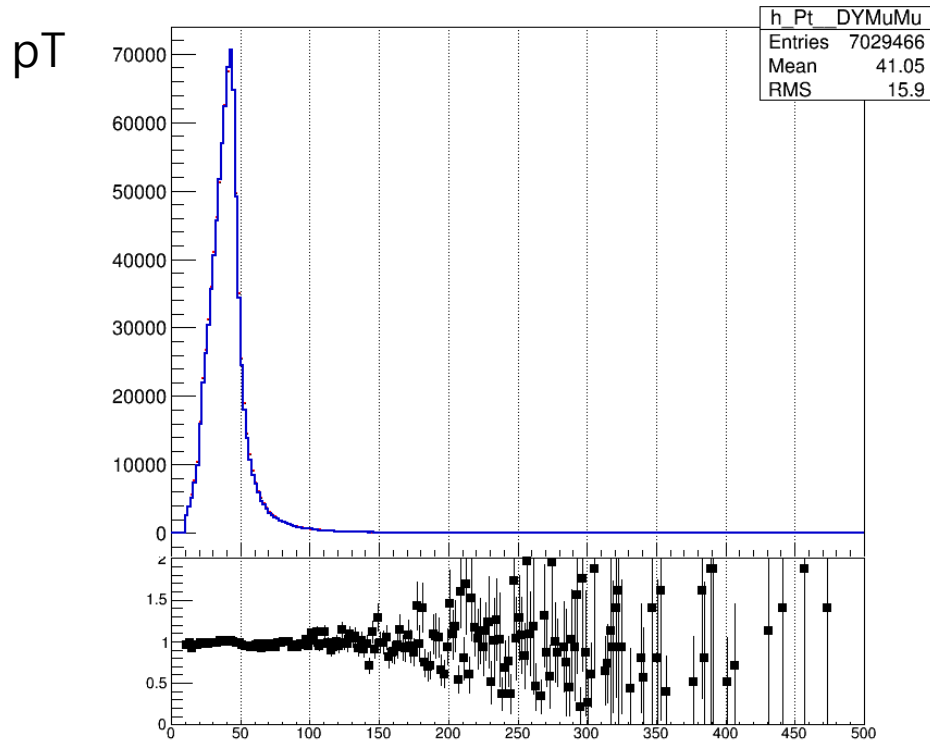
# Without nMatches



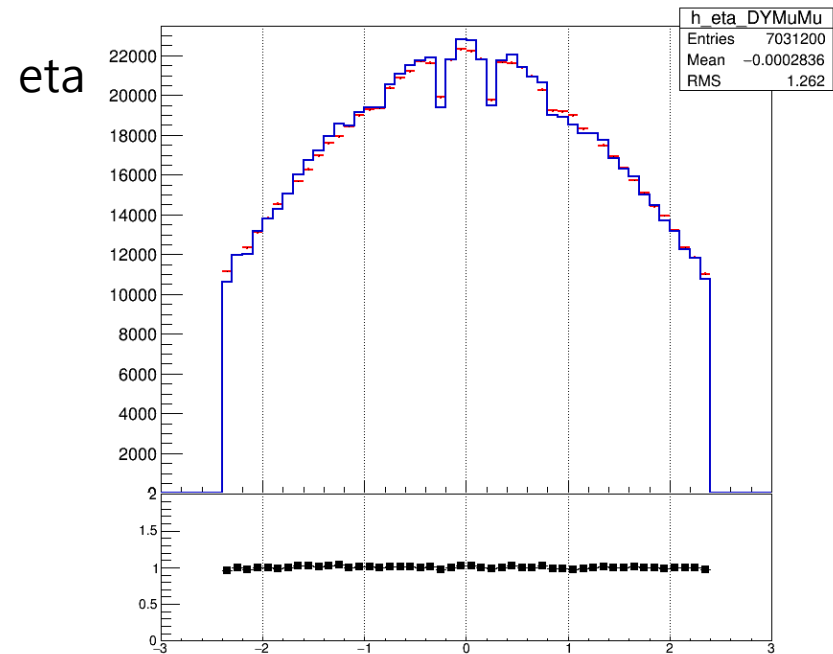
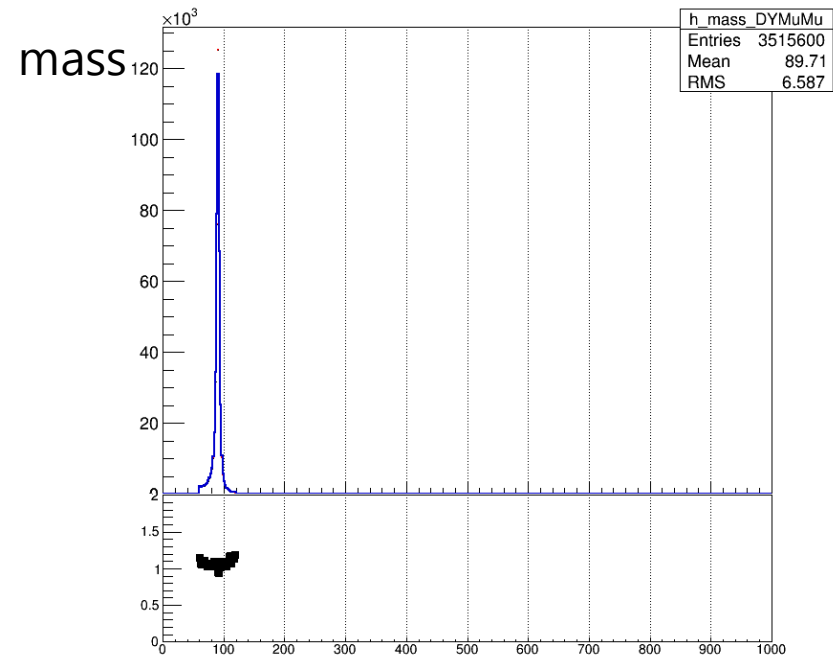
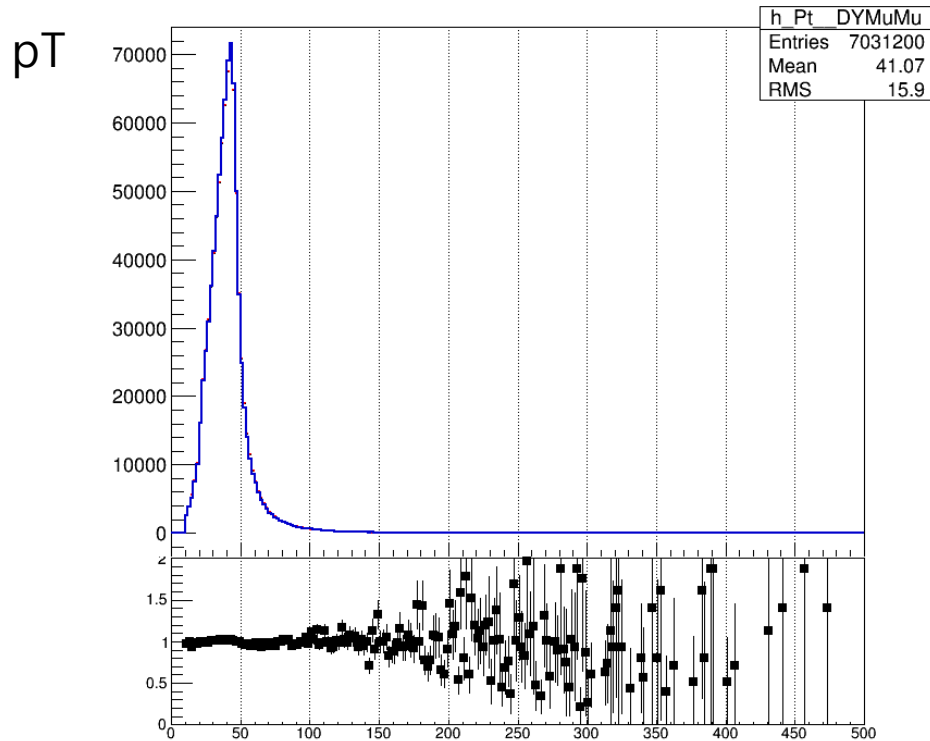
# Without dxyVTX



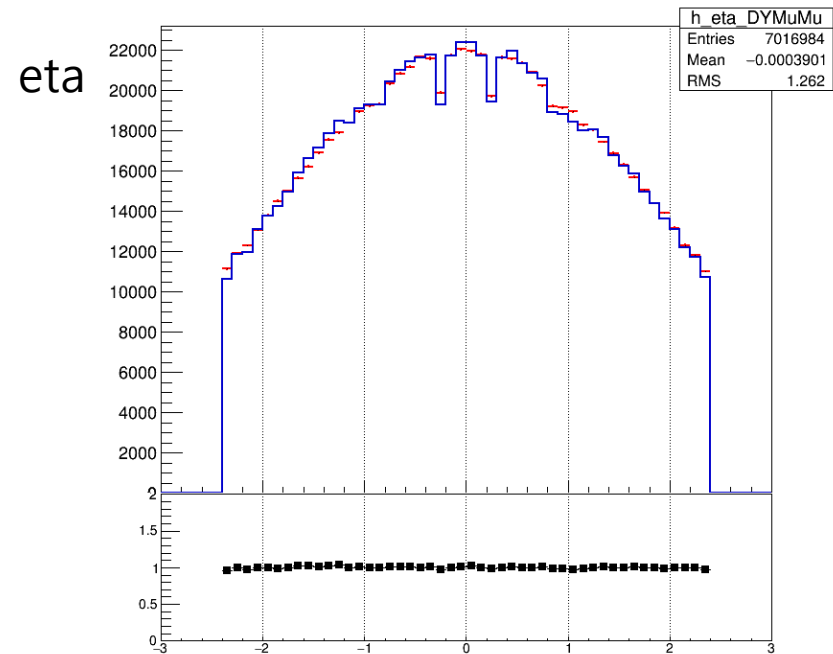
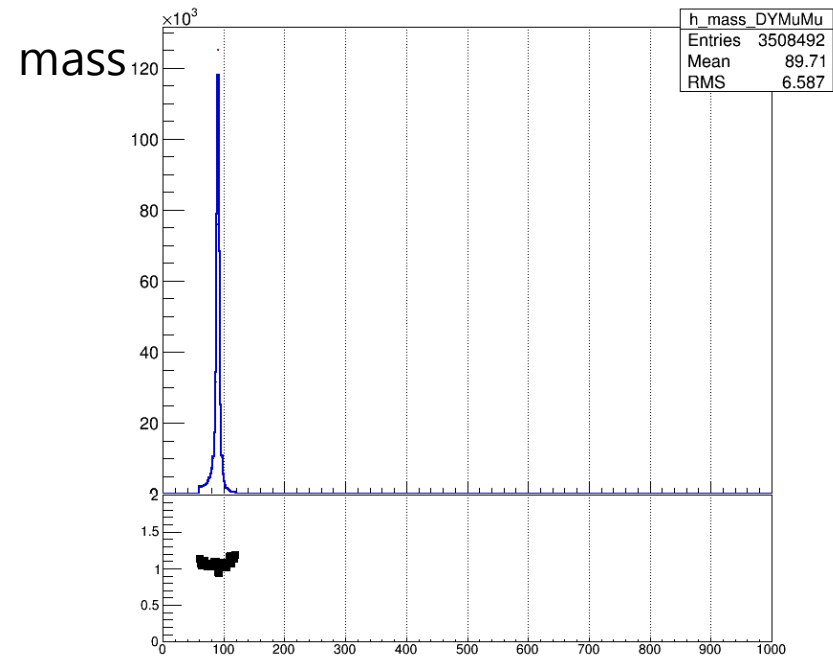
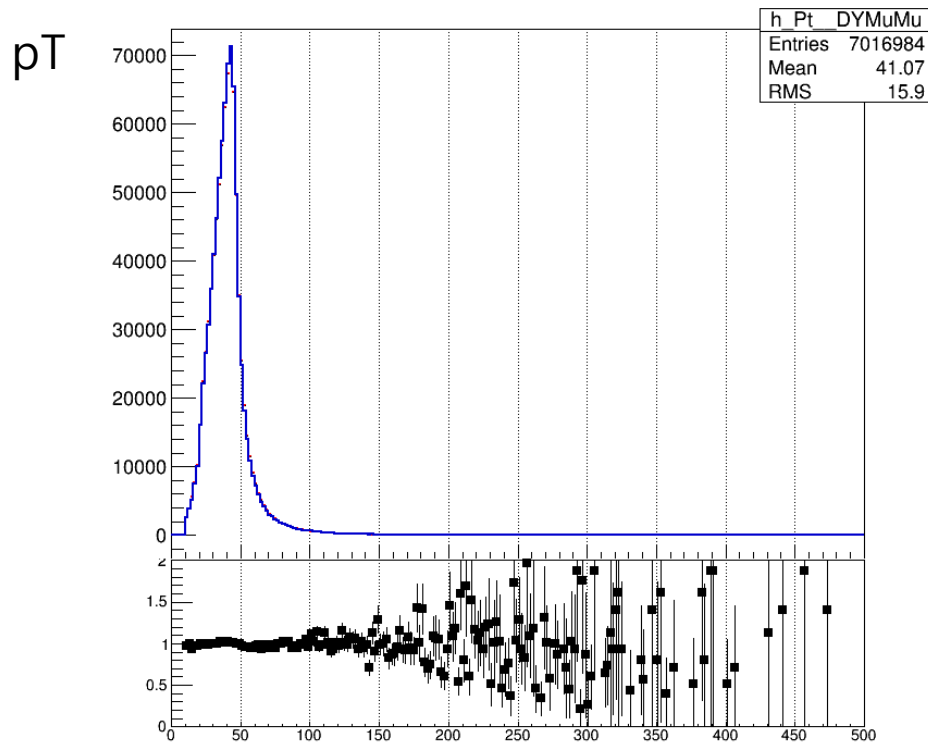
# Without dzVTX



# Without pixelHits



# Without trackerLayers



# Without trkiso

