

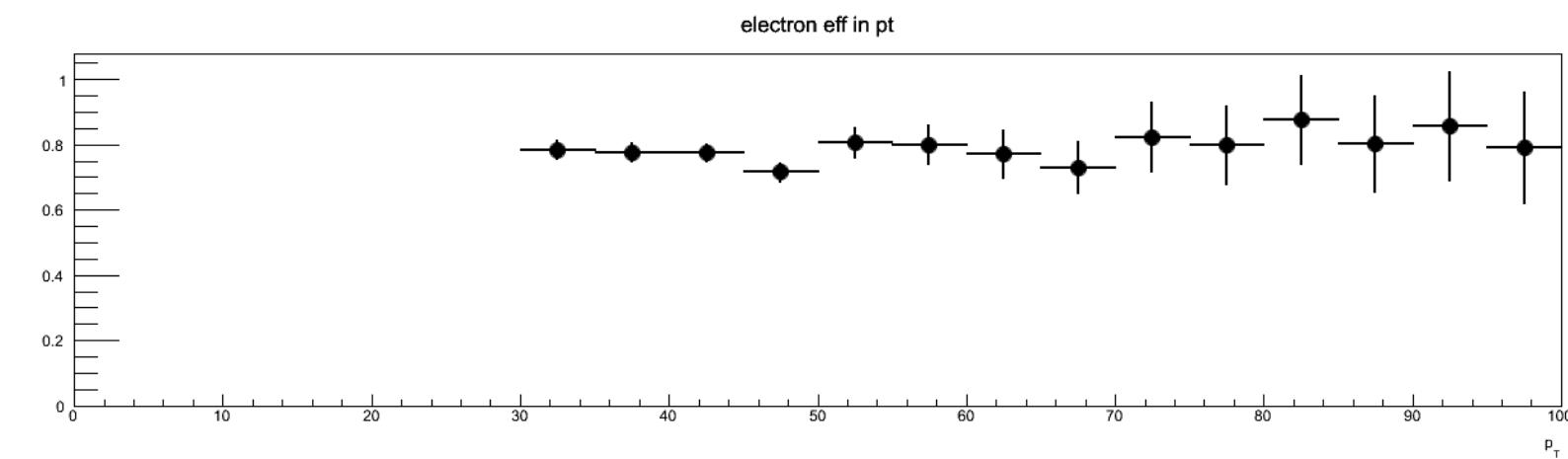
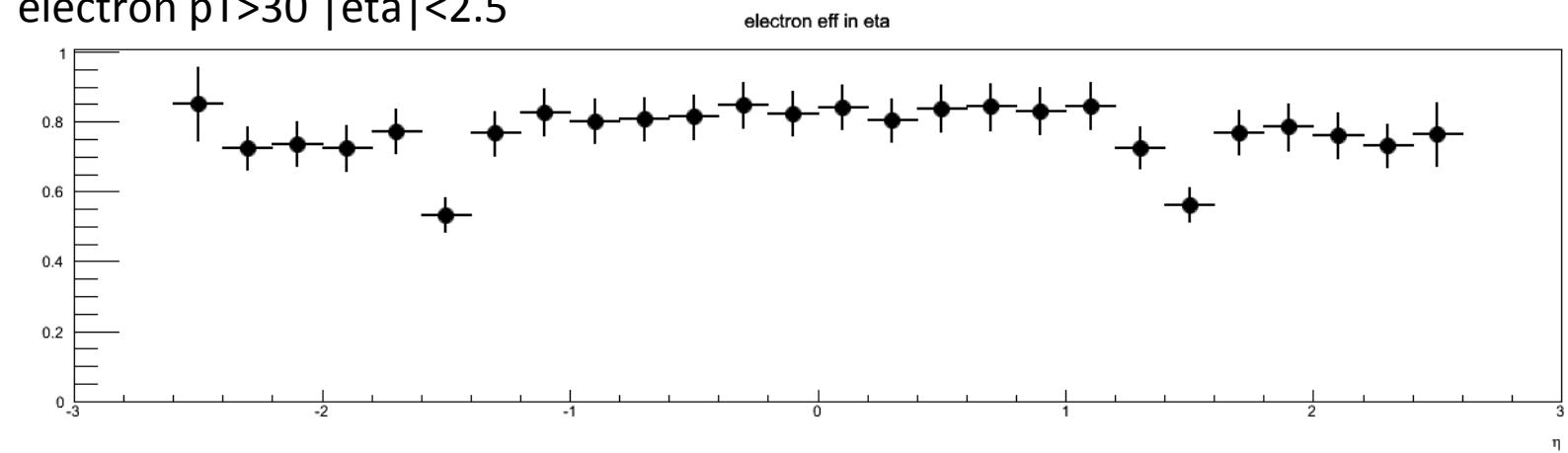
First Glance at 100TeV Delphes Samples

Tongguang Cheng

Electron efficiencies in DY

sample : http://uaf-2.t2.ucsd.edu/~spadhi/Snowmass/Beijing/data/DY_NoPileUp.root

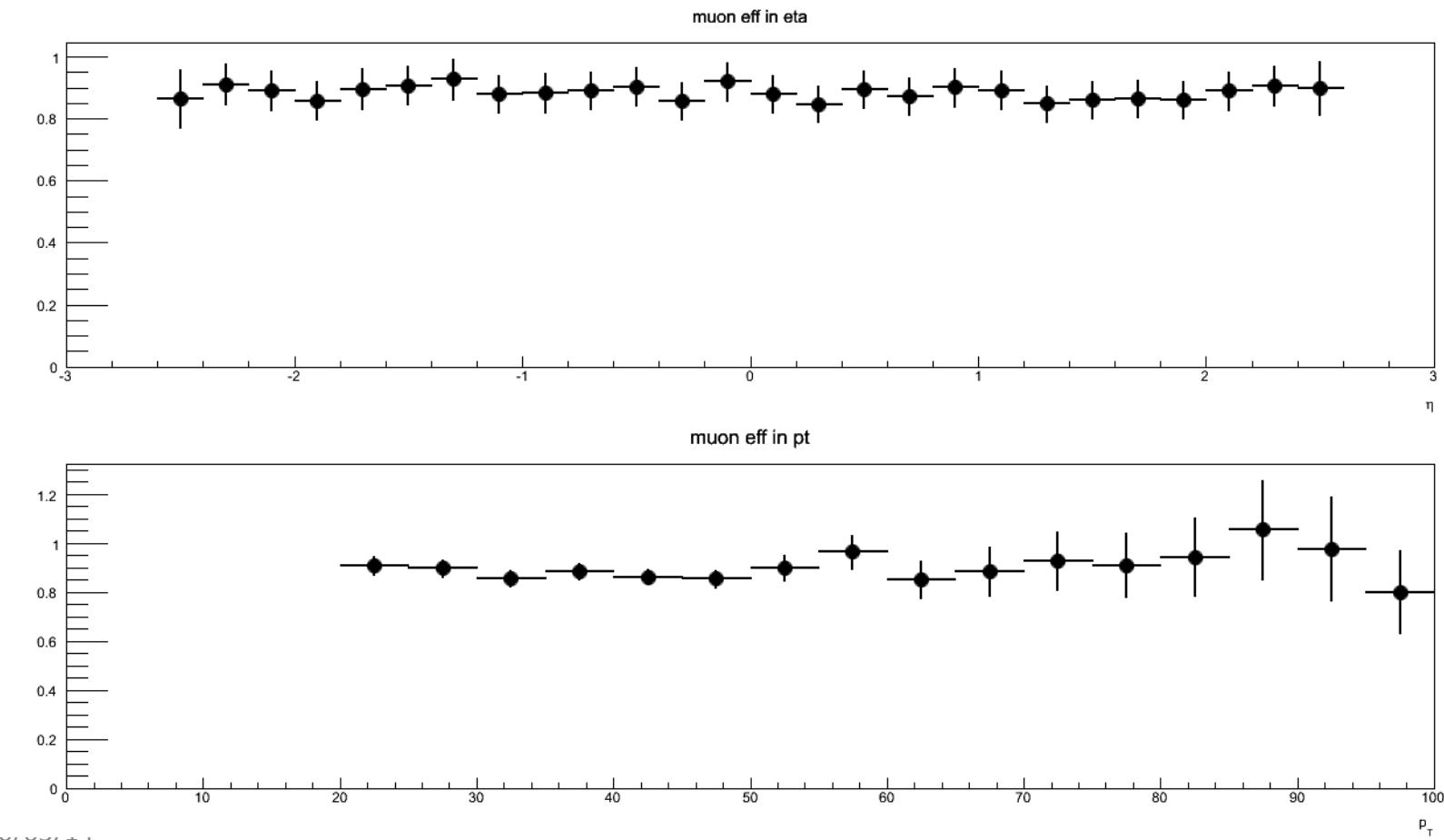
electron $p_T > 30$ $|\eta| < 2.5$



Muon efficiencies in DY

sample : http://uaf-2.t2.ucsd.edu/~spadhi/Snowmass/Beijing/data/DY_NoPileUp.root

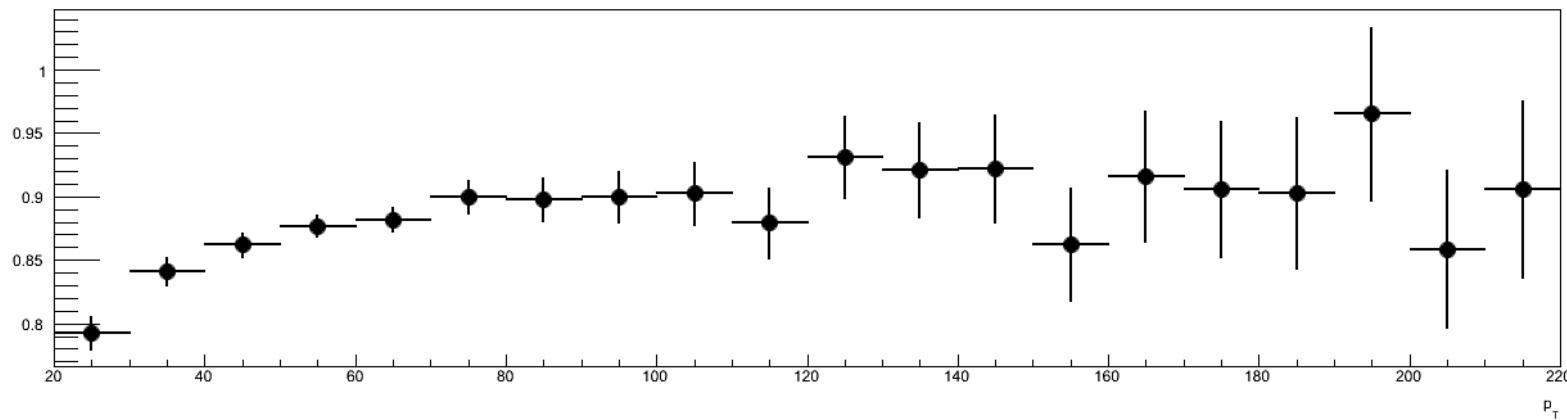
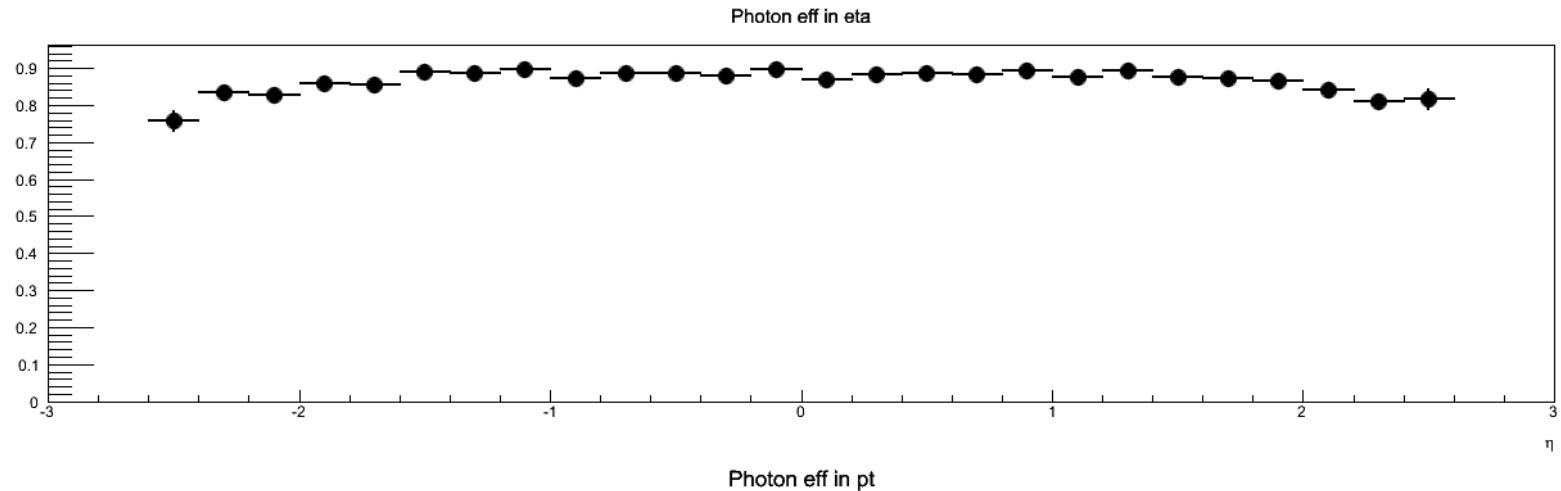
muon $p_T > 20$ $|\eta| < 2.5$



Photon efficiencies in H $\gamma\gamma$

sample : http://uaf-2.t2.ucsd.edu/~spadhi/Snowmass/Beijing/data/diPhotonsHgg_NoPileUp.root

photon cuts : $pT > 20$ $|\eta| < 2.5$



Jet response in QCD

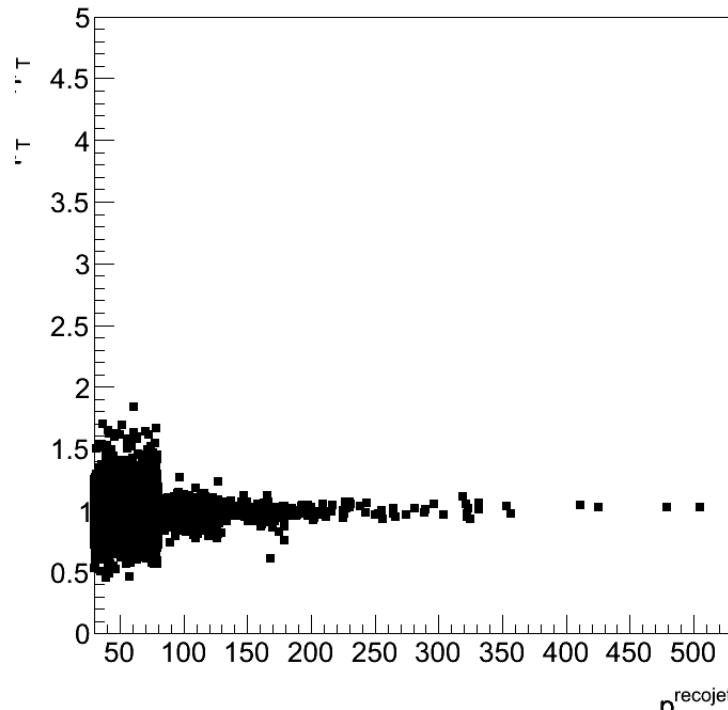
sample : http://uaf-2.t2.ucsd.edu/~spadhi/Snowmass/Beijing/data/QCD_NoPileUp.root
jet $pT > 30$ $|\eta| < 2.5$

reco jet and gen jet are matched by $dR < 0.1$

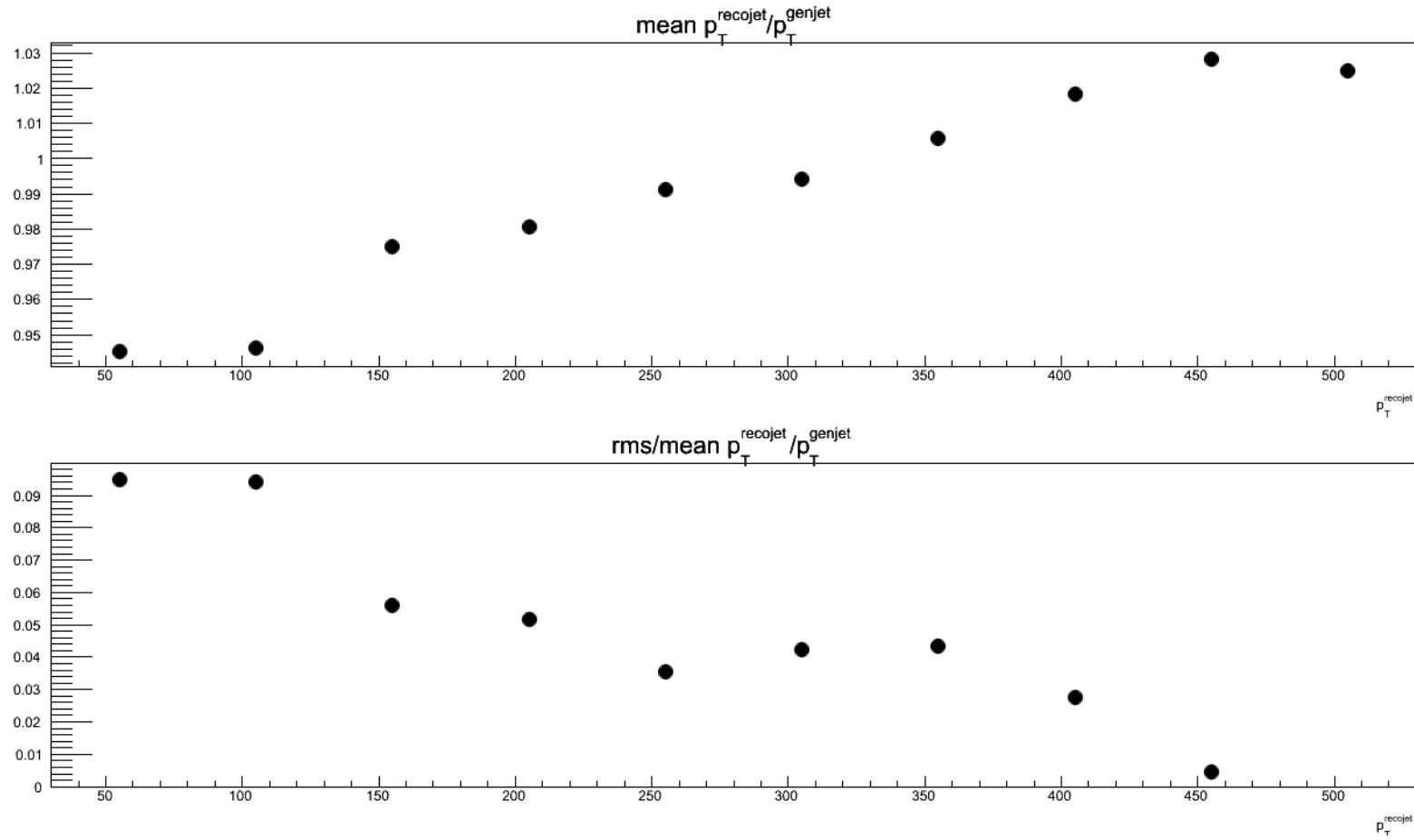
y-axis : reco jet pT / gen jet pT

x-axis : reco jet pT

2D performance



Jet response in QCD

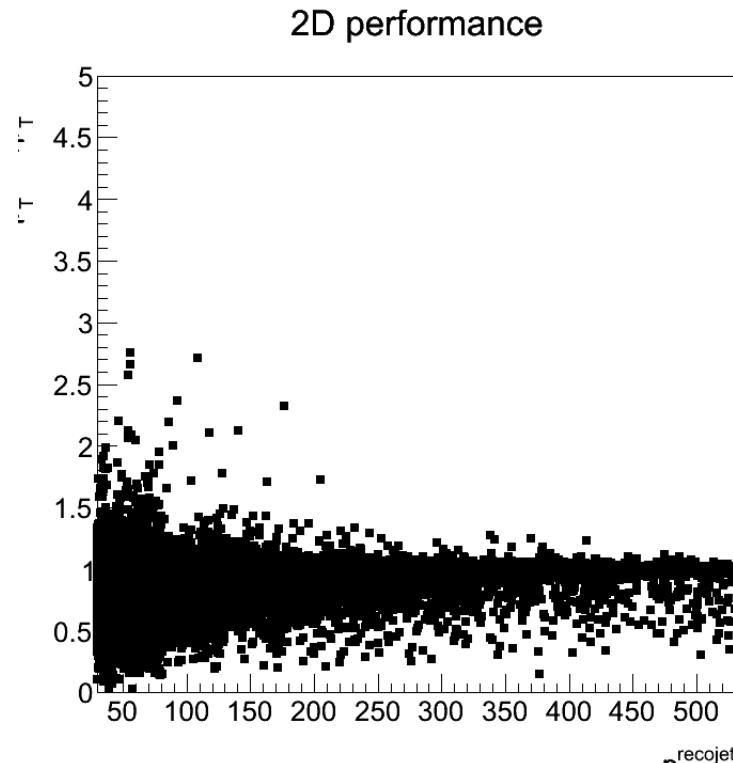


Jet response in TTbar

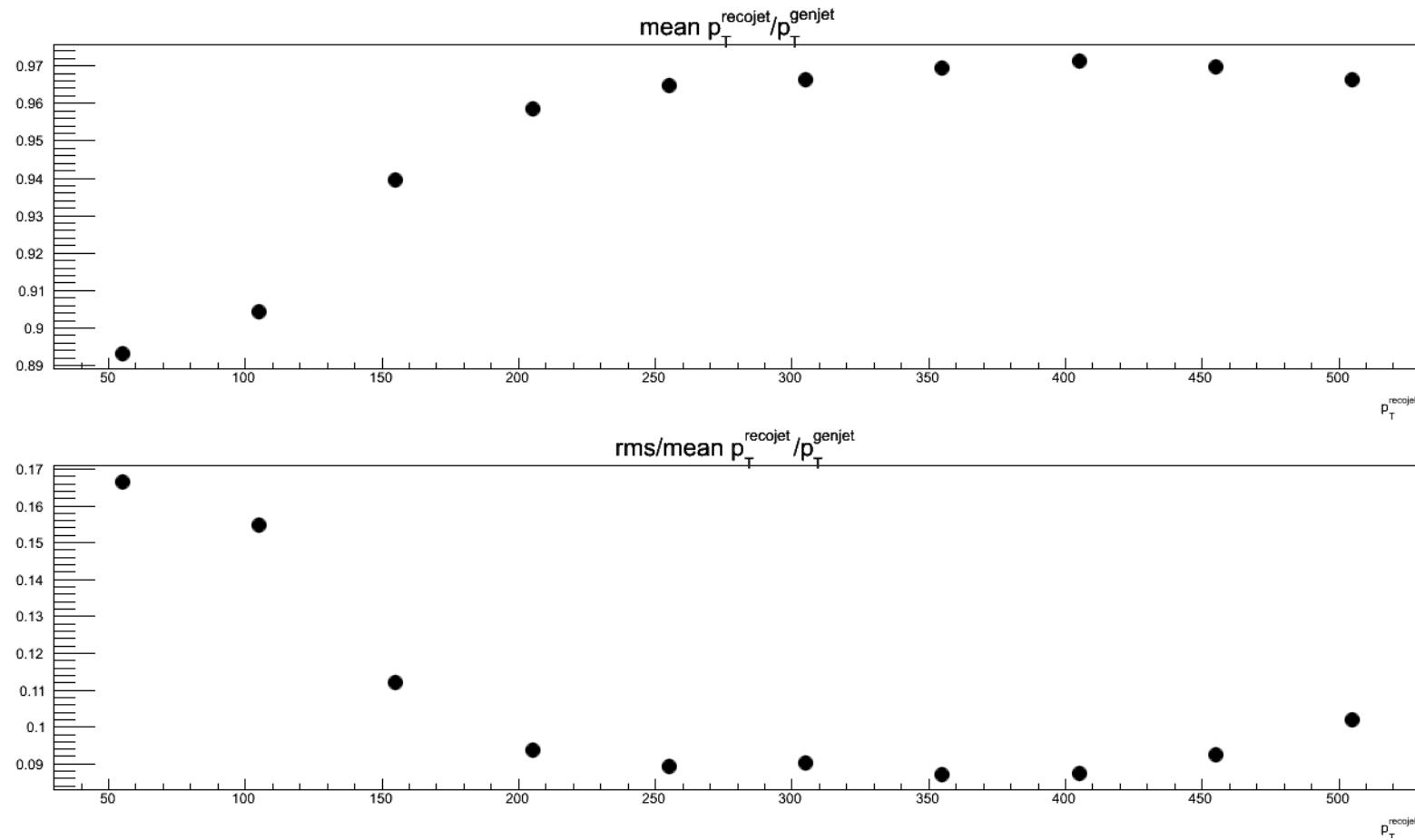
sample : http://uaf-2.t2.ucsd.edu/~spadhi/Snowmass/Beijing/data/TTbarBtag_NoPileUp.root

jet $pT > 30$ $|\eta| < 2.5$

reco jet and gen jet are matched by $dR < 0.1$



Jet response in TTbar



Next step

- Need to know the detector configuration for the samples and compare the consistency between the configuration and efficiency/ resolution plots.