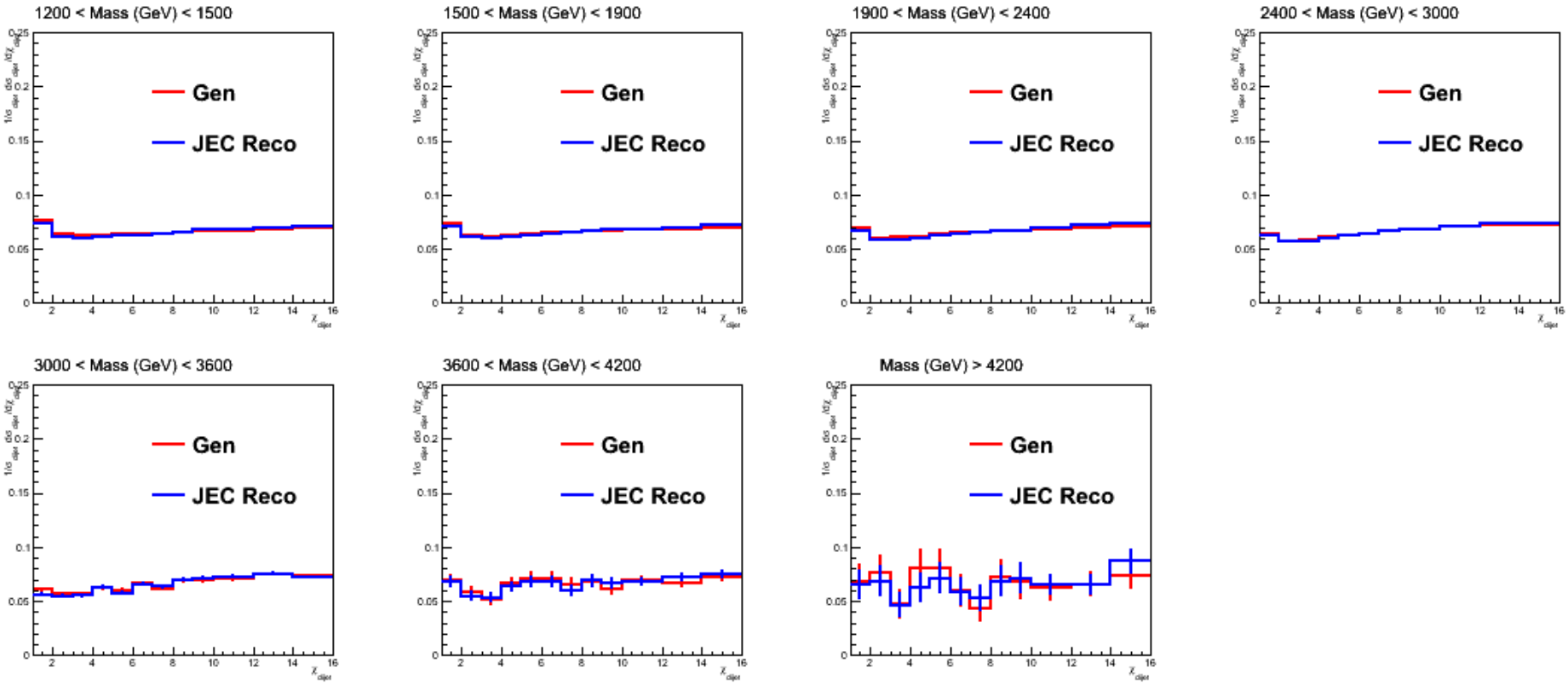
Gen vs JEC Reco

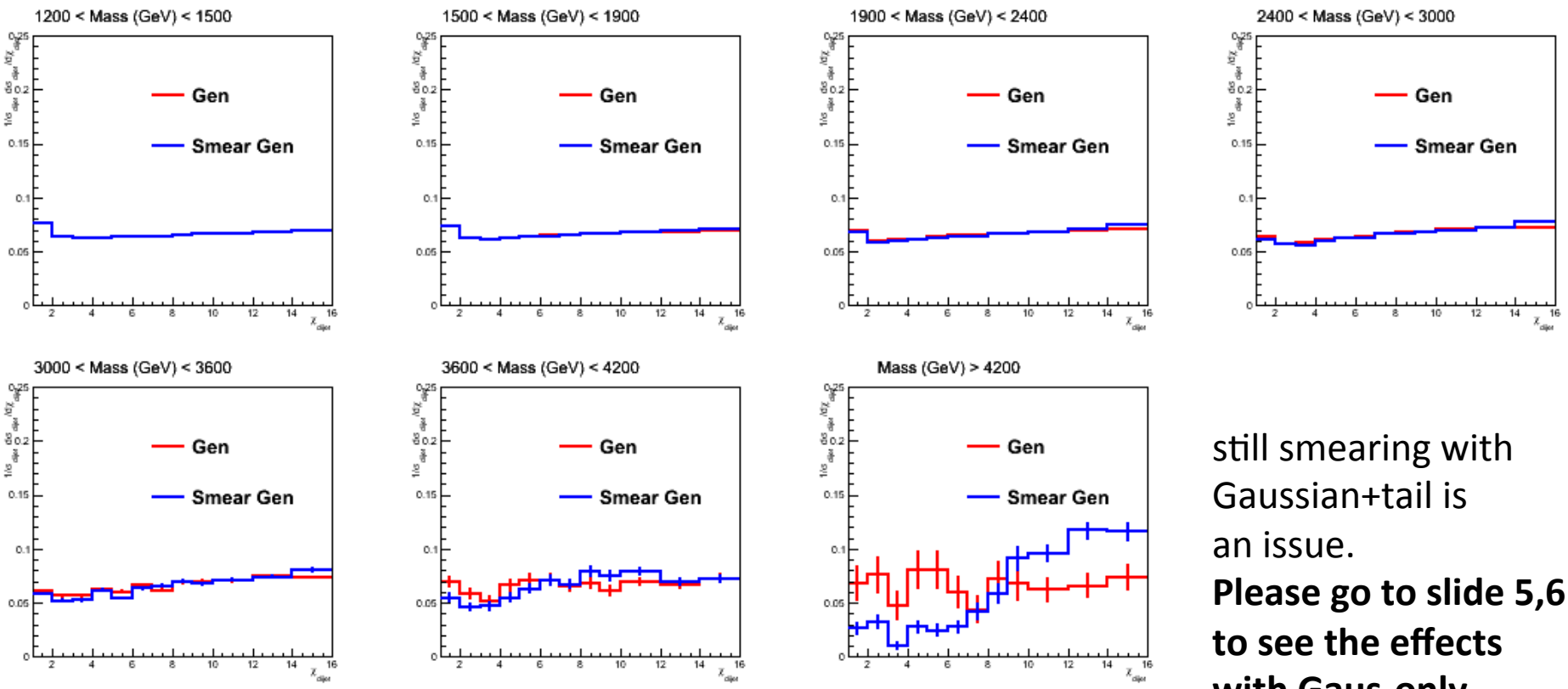
QCDHT250+QCDHT500+QCDHT1000 sample



the three low mass bins now look all right after adding the other QCDHT bins with appropriate weights.

Gen vs smeared Gen

QCDHT250+QCDHT500+QCDHT1000 sample

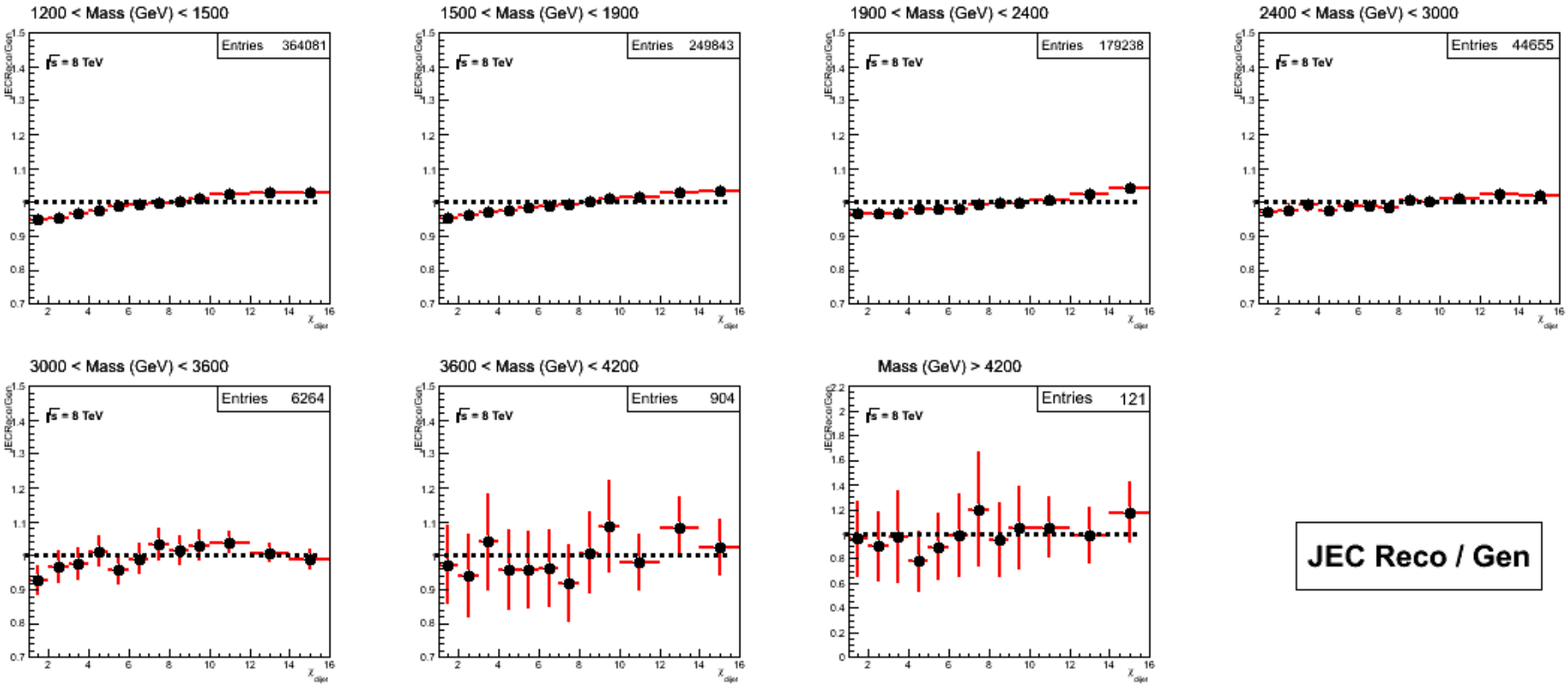


still smearing with Gaussian+tail is an issue.

Please go to slide 5,6 to see the effects with Gaus-only smearing

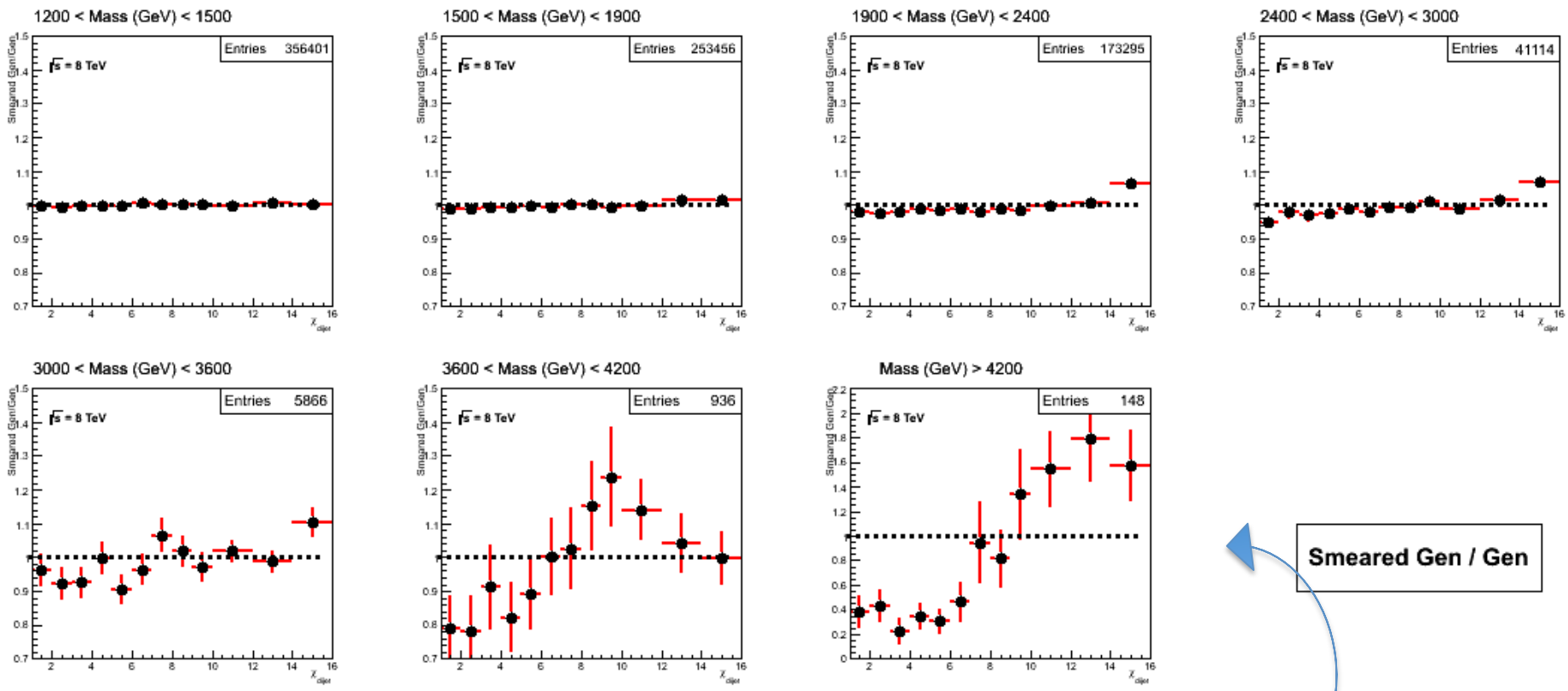
JEC Reco / Gen

QCDHT250+QCDHT500+QCDHT1000 sample



Smeared Gen / Gen

QCDHT250+QCDHT500+QCDHT1000 sample

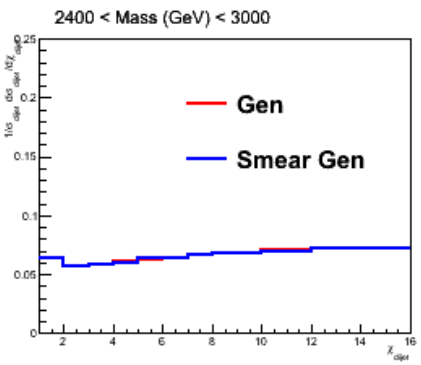


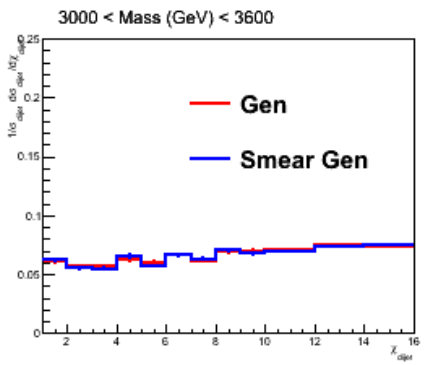
Work on trying with resolution with Gaussian only (w/o the tails) in next slides ..

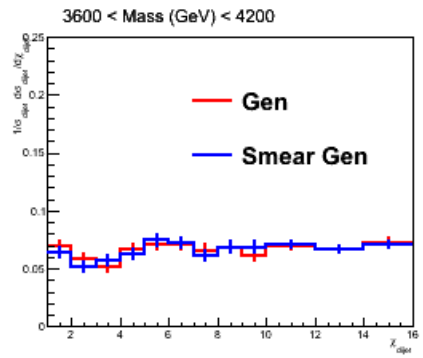
Smearing with only Gaussian

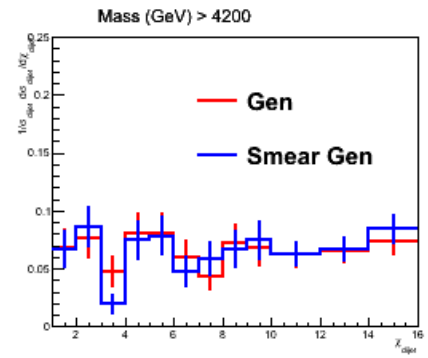
only highest 4 mass bins shown

Overlay plot: Smeared Gen, Gen

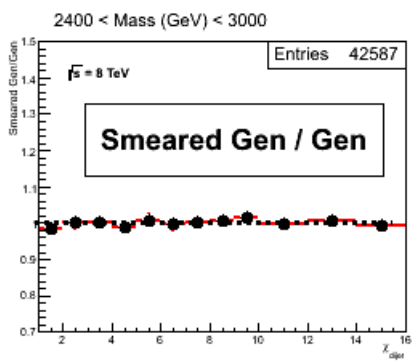


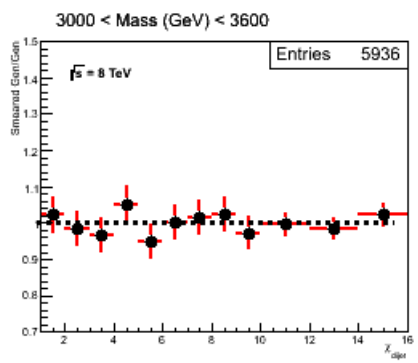


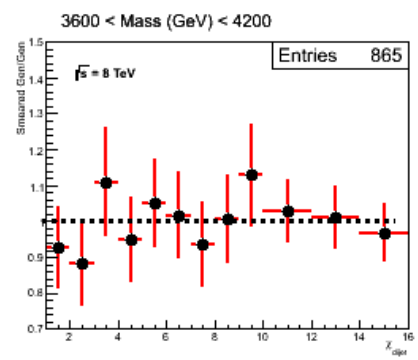


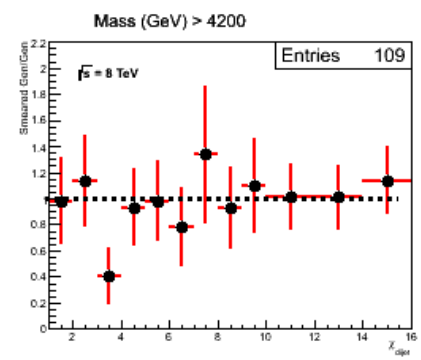


Ratio: Smeared Gen / Gen





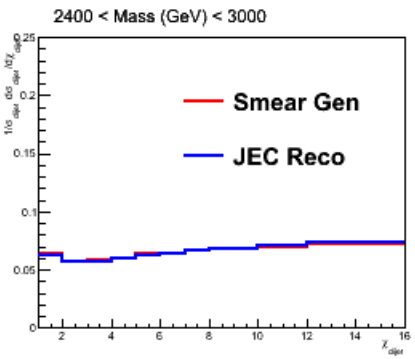


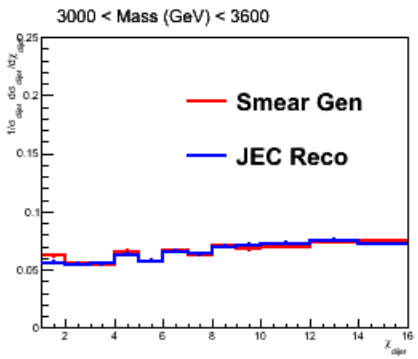


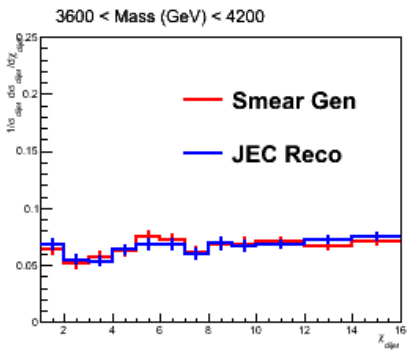
✓ Only Gaussian smearing reproduces the detector effects better ..

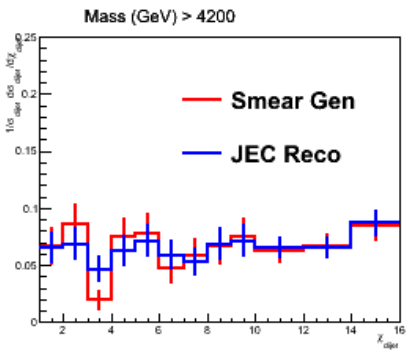
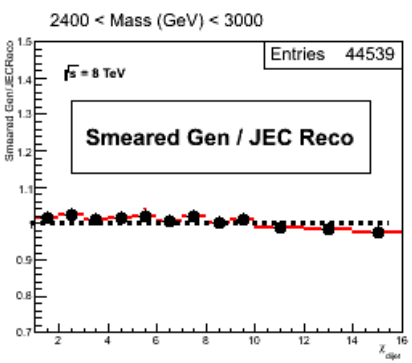
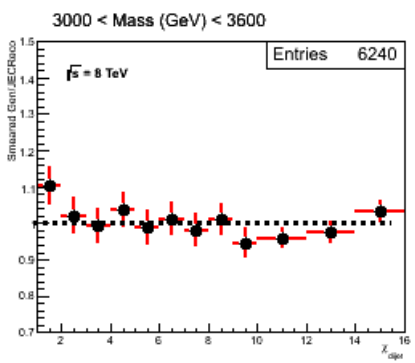
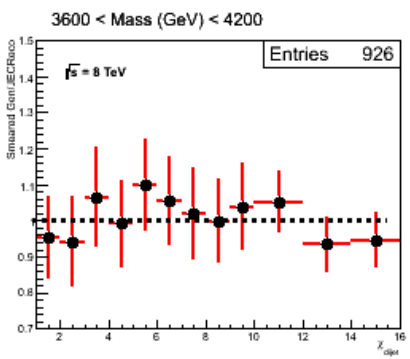
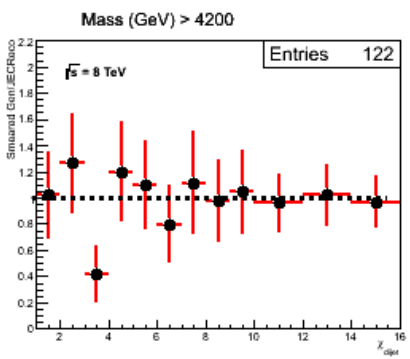
Smearing with only Gaussian

Overlay plot: Smeared Gen, JEC Reco









Ratio: Smeared Gen / JEC Reco