Jet TDR Plot Updates
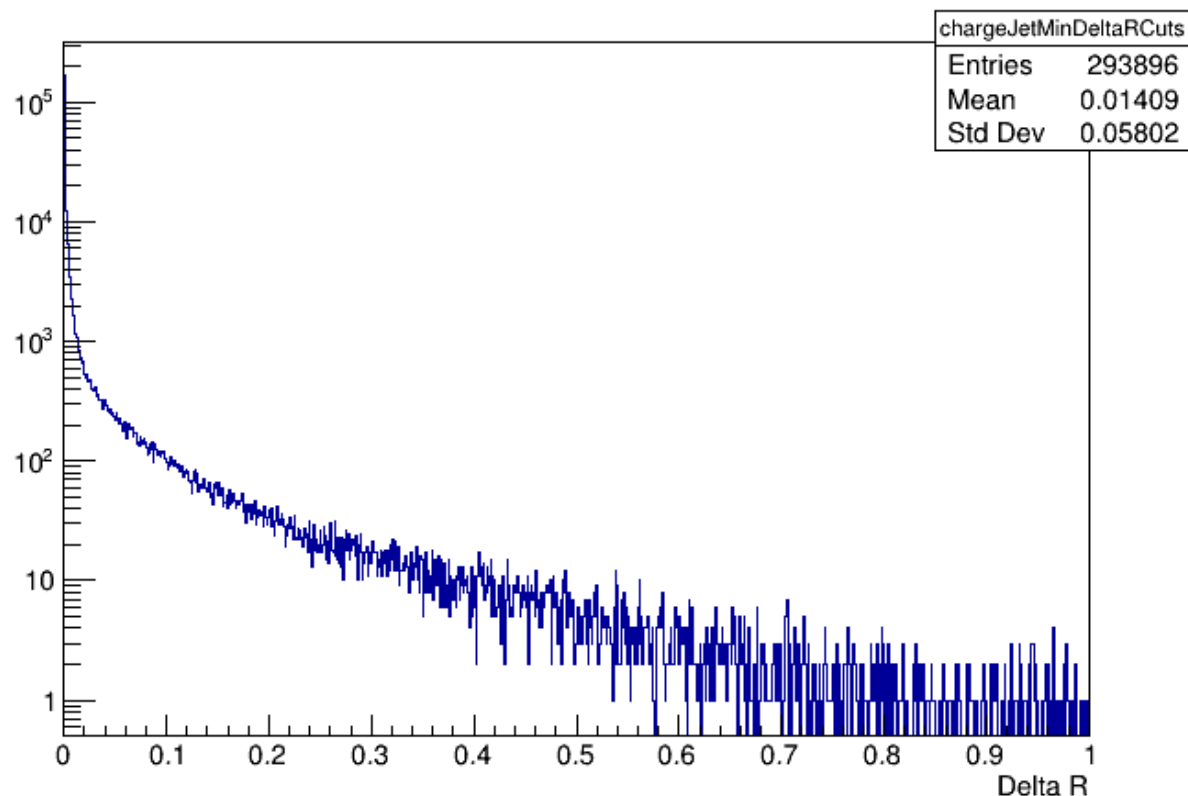
Brian Page

3/20/2024

Jet & HF Working Group Meeting

Jet Performance TDR Plots: Gen-Reoc
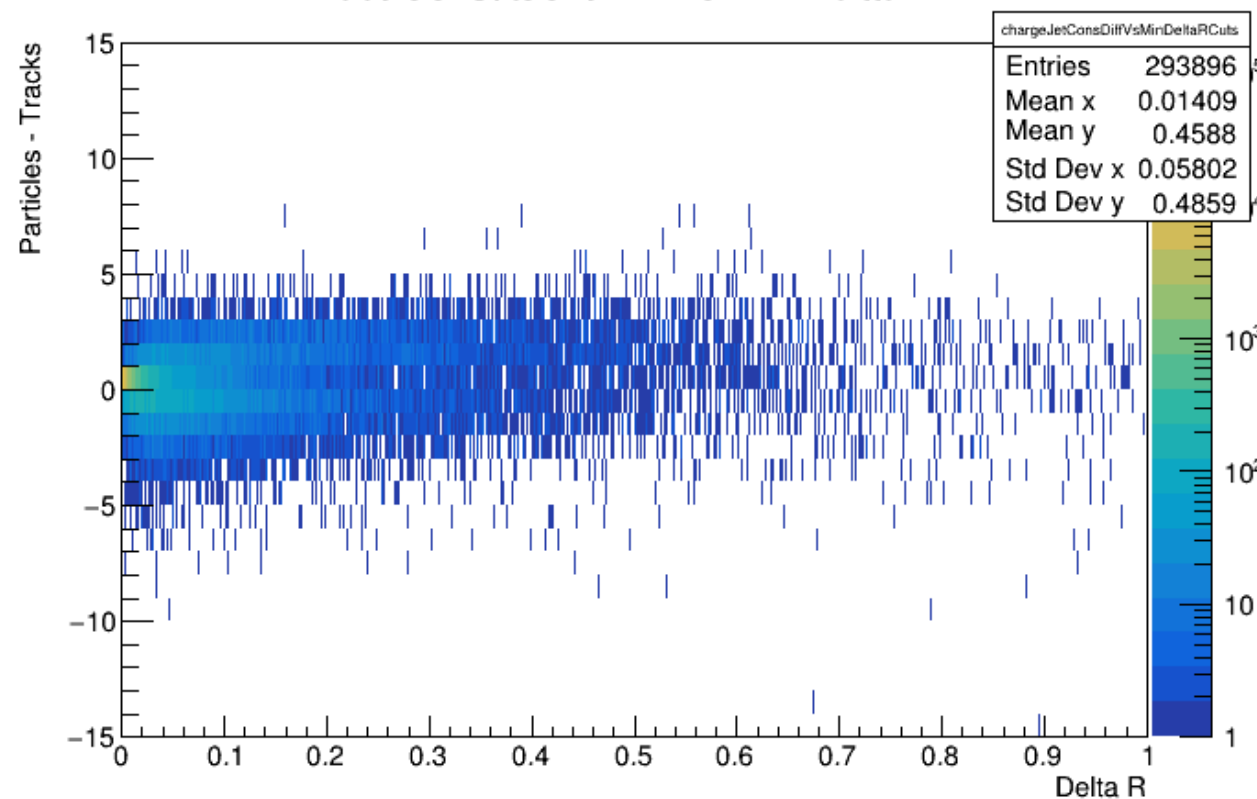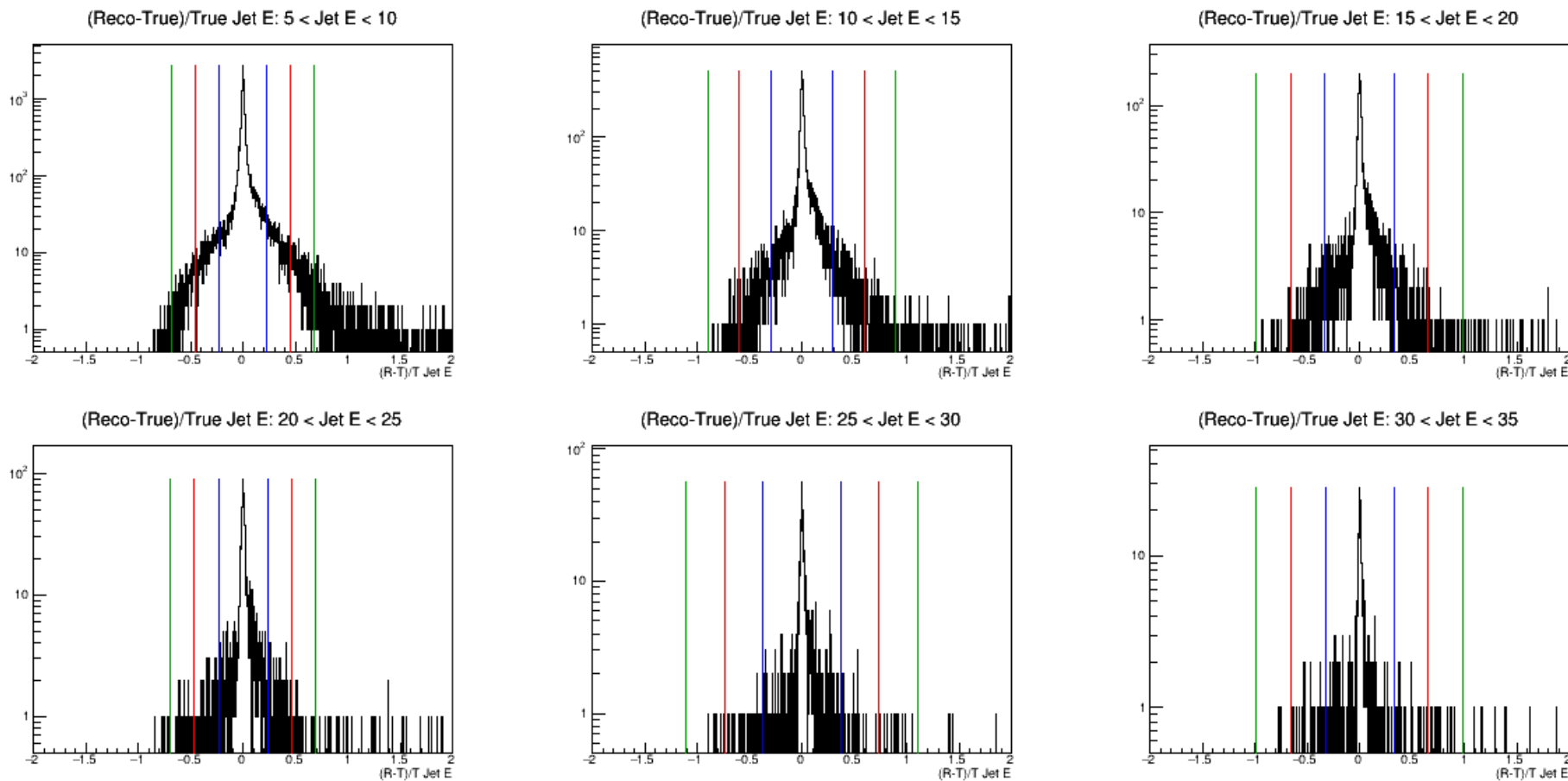

- ❑ Need to define the association between generated and reconstructed jets – choose a delta R of 0.25 for now

- ❑ To-Do: look into effects of varying this parameter

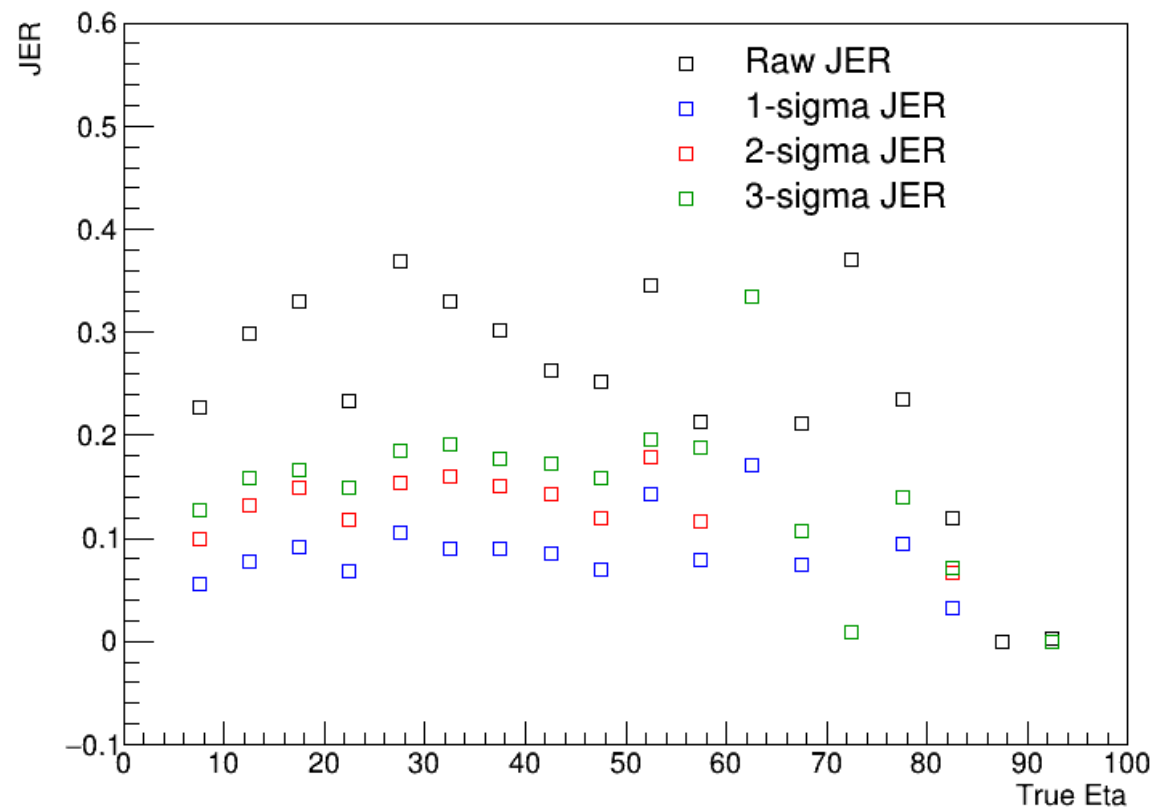# Jet Performance TDR Plots: Characterizing Tails

- ❑ Define JES and JER as mean and RMS of distribution over some truncated range

- ❑ Find RMS of full distribution and define truncated range as 1, 2, or 3 times RMS centered around the bin with the larges value

- ❑ Recalculate mean and RMS within this range

Jet Performance TDR Plots: Characterizing Tails
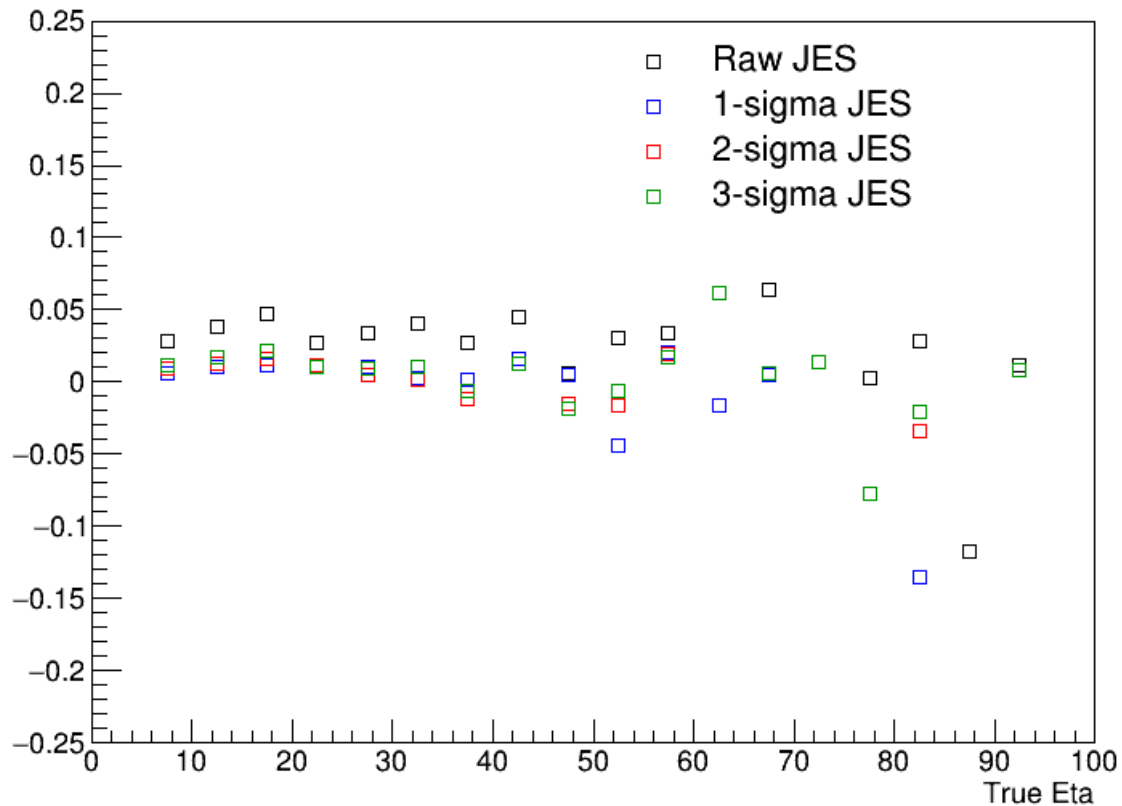
- ❏ See effect of different n*RMS truncations on JES and JER

- ❏ JER more sensitive to this choice

- ❏ Use 2*RMS for now

Jet Performance TDR Plots: Money Plots

Jet Energy Scale

Jet Energy Resolution
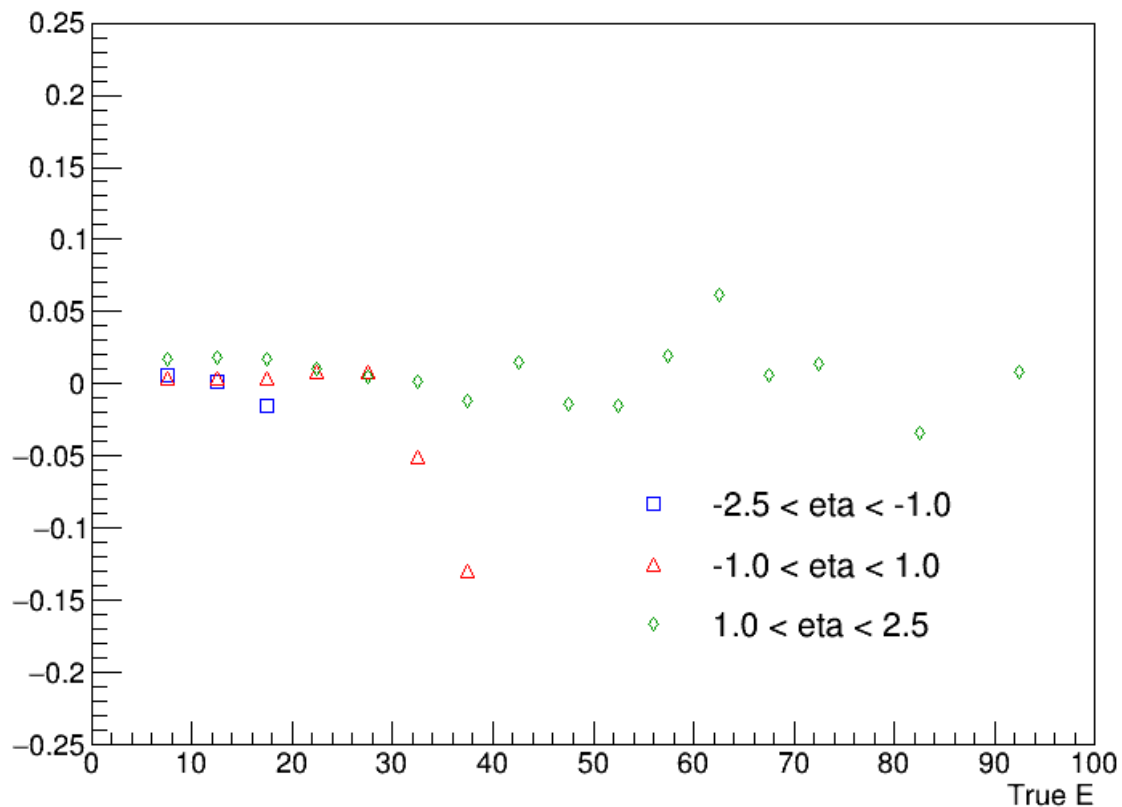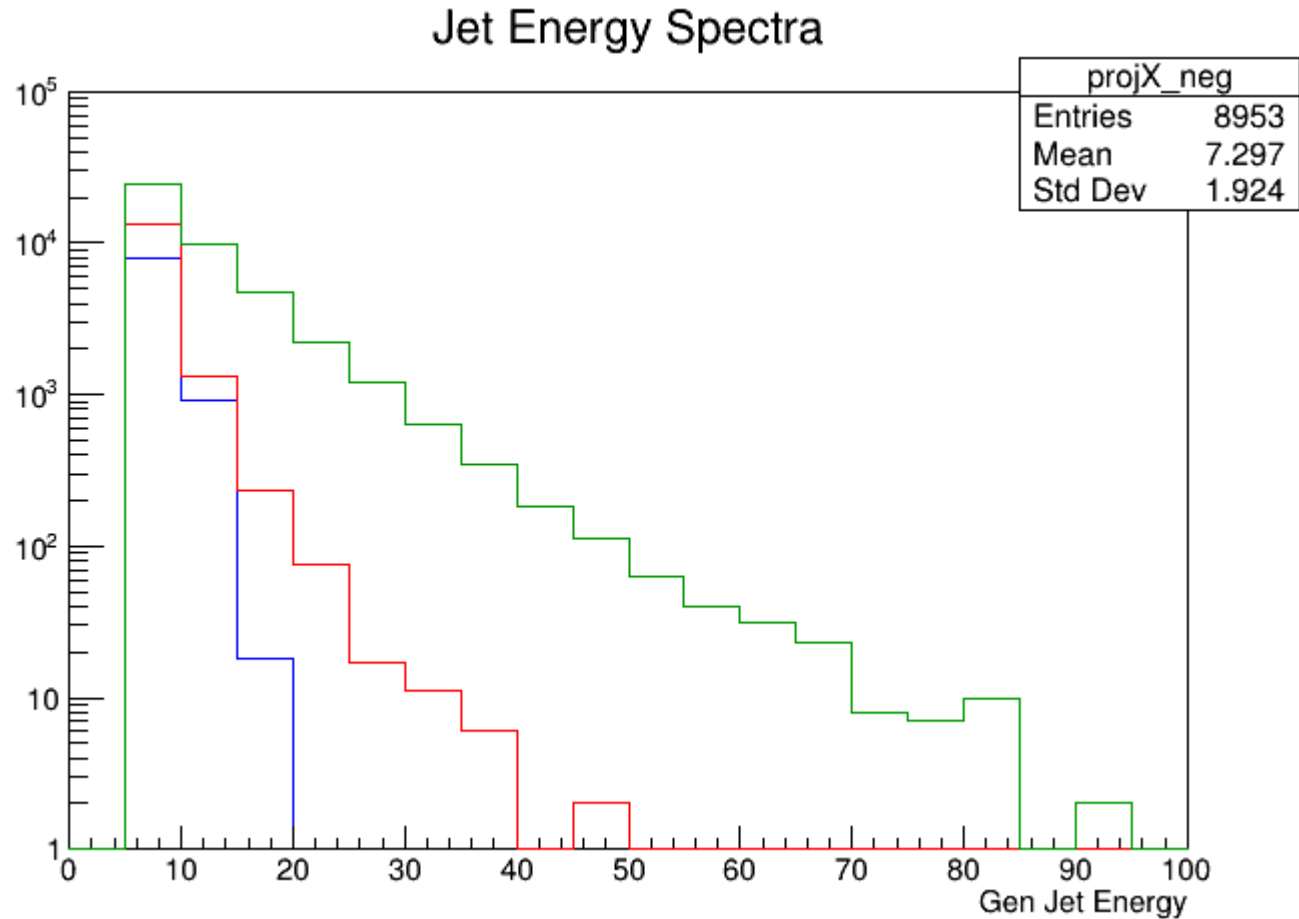
❑ Money plots are JES and JER as a function of energy
for different jet eta bins
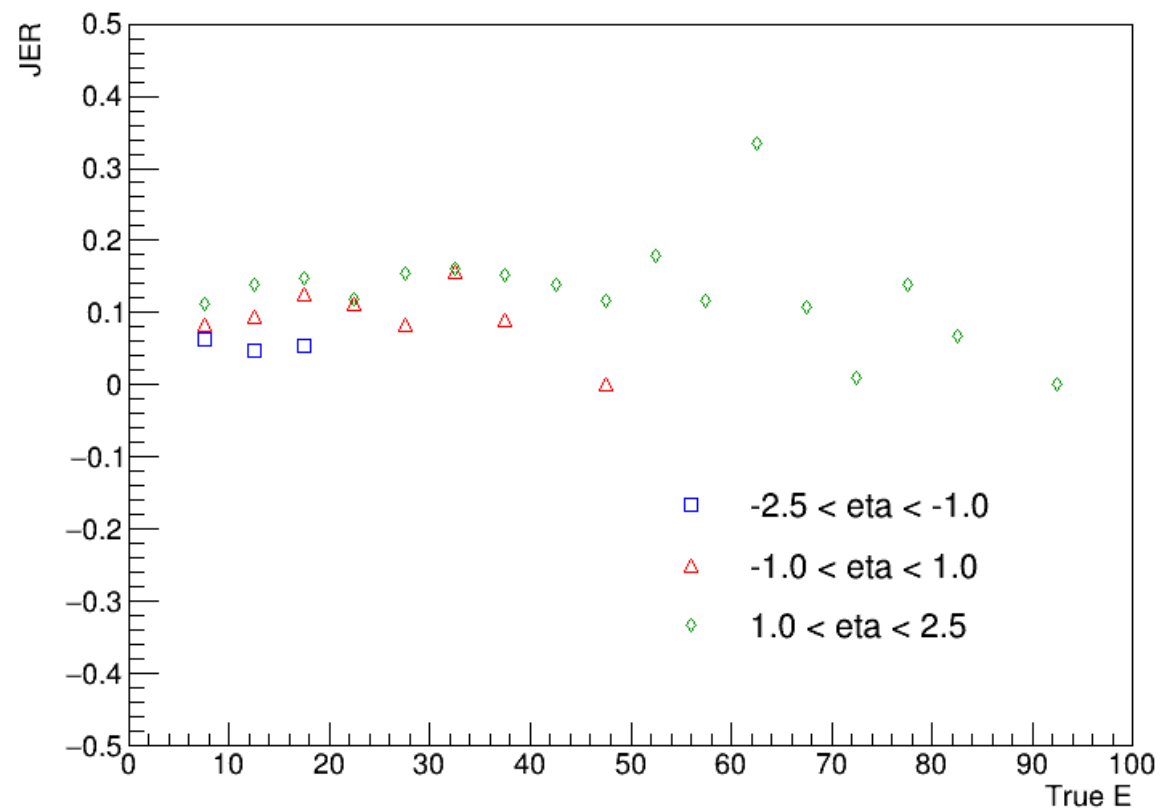
Jet Performance TDR Plots: Statistics

❑ Statistics for money plots

❑ Only 500 files from the 18x275 Q2 > 10 NC DIS sample from December campaign