

# HP 2020 Update

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MAY 7<sup>TH</sup>, 2020

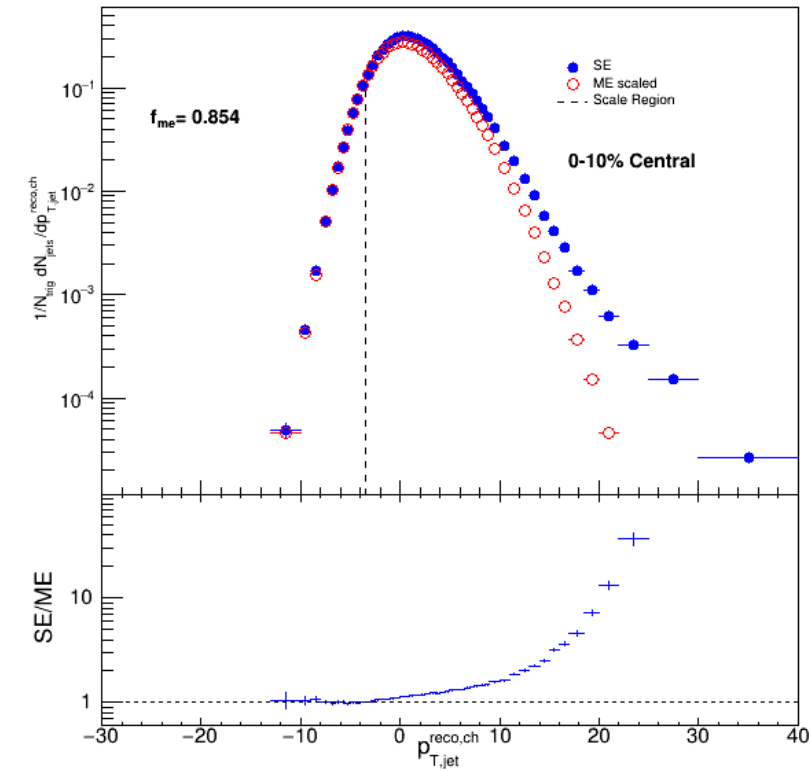
# Plan to Show in Poster

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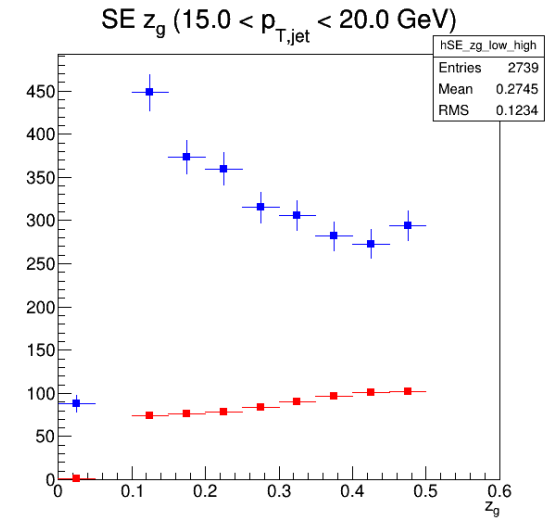
- Semi-inclusive  $z_g$  analysis using CHARGED jets
- Planning to show 3 figures:
  - A) SE and ME scaled jet  $p_T$  reco plots
  - B) Raw SE  $z_g$  and scaled ME  $z_g$  to demonstrate combinatorial subtraction
  - C) Combinatorial Subtracted  $z_g$  for 3  $p_T$  bins, (10-15, 15-20, 20-25)
- Aiming to include fast simulated smeared PYTHIA6 embedded into MB for comparison, almost finished and I plan to show at next week's jetcorr meeting
- Need to include systematic encompassing estimation of combinatorial jet contribution (either modifying  $\rho$  definition or fitting range in figure A)

# Example Figures-work in progress

**A**



**B**



## C – Investigating adding smeared PYTHIA6 comparison

