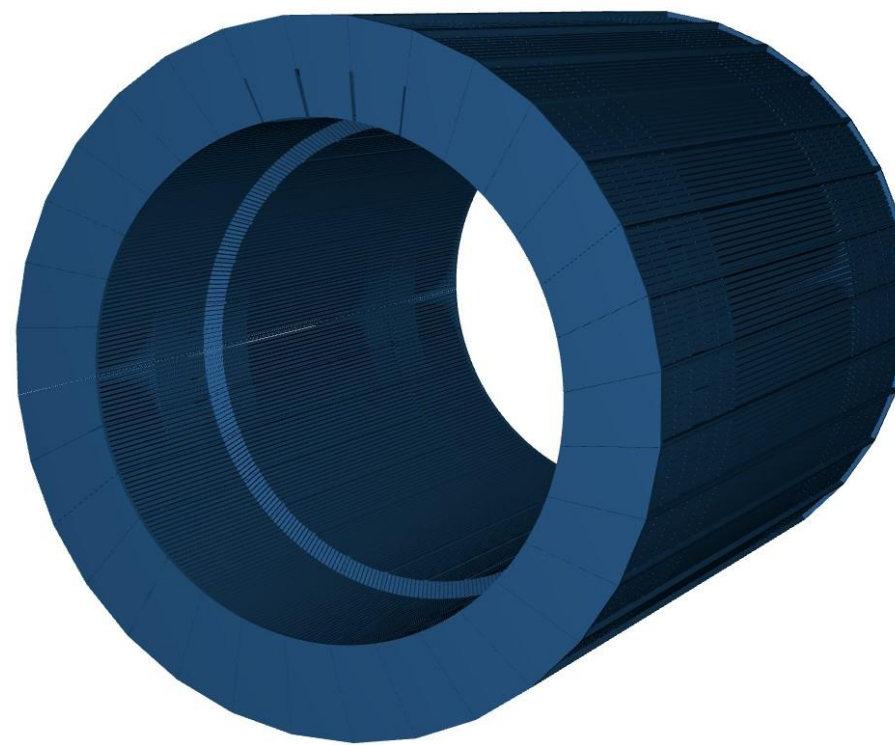


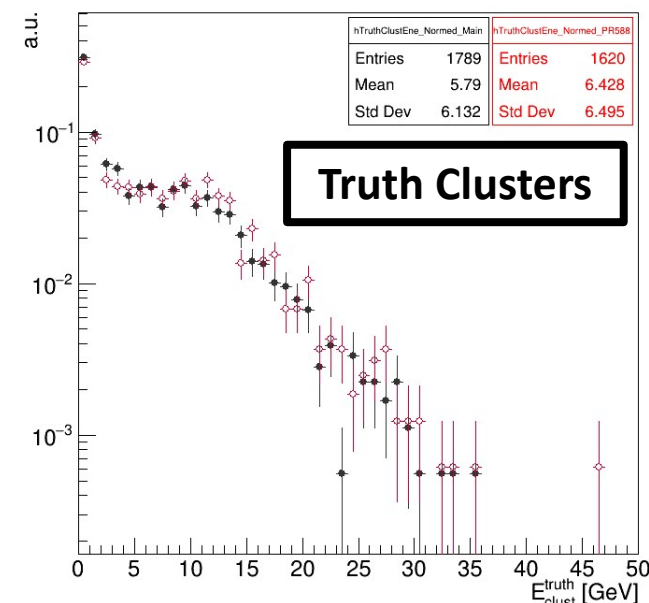
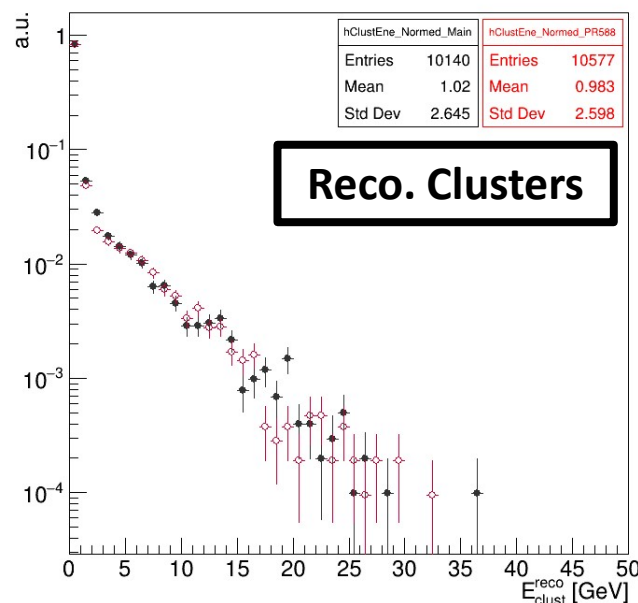
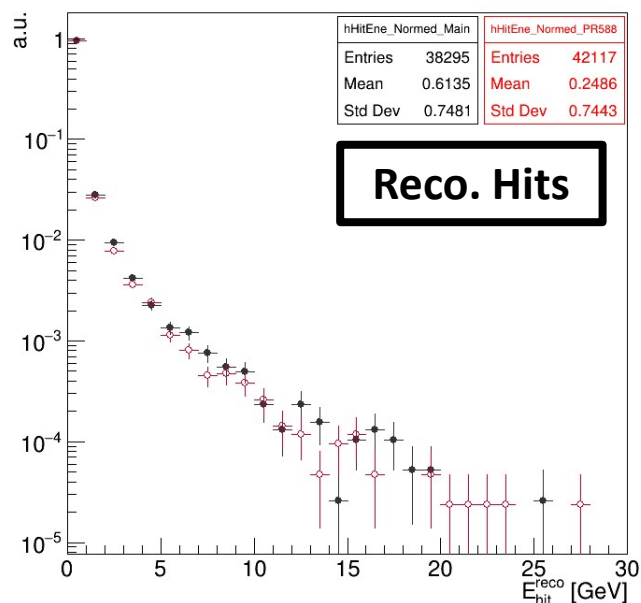
ePIC Calo Meeting | BHCAL Software Update



- Prompted by mismatch in the simulated geometry vs. detector parameter table:
 - John updated detector table parameter and adjusted geometry implementation
 - › Absorber geometry now read in from separate GDML file
 - › Simulation now includes endcap and dogbones
 - c.f. issues [#552](#) and [#562](#) on epic repo
- **Relevant PRs:**
 - [\[eic/epic-data#3\]](#) **(merged)** Adds BHCAL absorber GDML, FreeCAD, STEP files to epic-data
 - [\[eic/epic-data#4\]](#) **(merged)** Adds several variations of absorber & endcap GDML, FreeCAD, STEP files to epic-data
 - [\[eic/epic-data#5\]](#) **(open)** Moves GDML, STEP files for scintillators to epic-data
 - [\[eic/epic#588\]](#) **(open)** Updates detector parameter table and implementation of geometry
 - [\[eic/ElCrecon#1240\]](#) **(open)** Updates reconstruction parameters to match new readout structure



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- Trade-off is that BHCal readout structure is adjusted:
 - Now only towers, tiles are indexed
 - [EICrecon#1240](#) updates reconstruction parameters to reflect this

- **Above:** energy spectra for hits, clusters, and truth clusters for **main** (in black) vs. **epic#588 + EICrecon#1240** (in red)
 - Slight differences, but overall agreement!
 - 1000 18x275, $Q^2 > 100$ NC DIS events
 - › Only beampipe + BHCal in simulation