Clusters in AnalysisEcce

SIDIS PWG meeting December 20, 2022, Ralf Seidl (RIKEN)



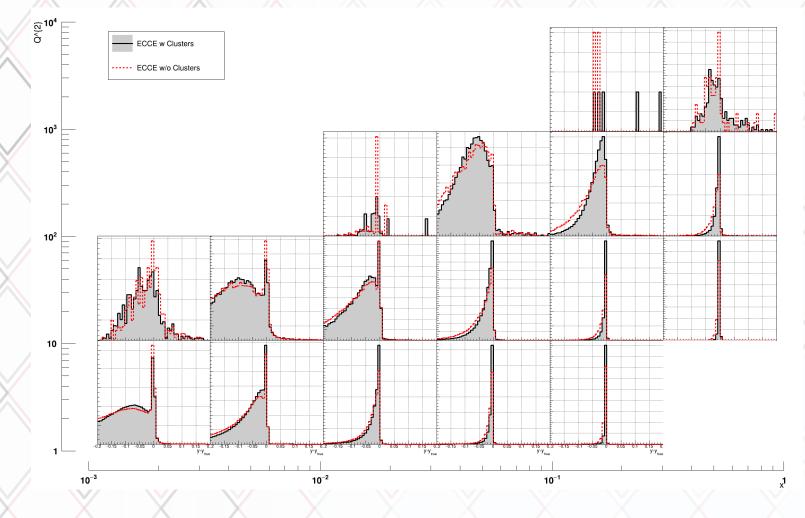
Fixing AnalysisEcce for clusters

- Problem: hadronic methods seemed to be off for AnalysisEcce (Issue #187 in sidis-eic)
- Reason: In initial commit only the track information was used, clusters were not looked at (relevant for neutral particles in hadronic final state)
- Clusters now added for the hadronic final state, using true particle association (non-charged particles, e.g. Photons, K_L, neutrons), in the future use alternatively track projections to reject charged particles
- Clusters or neutral particles not added to final-state particle list (i.e. no π^0 final state available)



JB y resolution

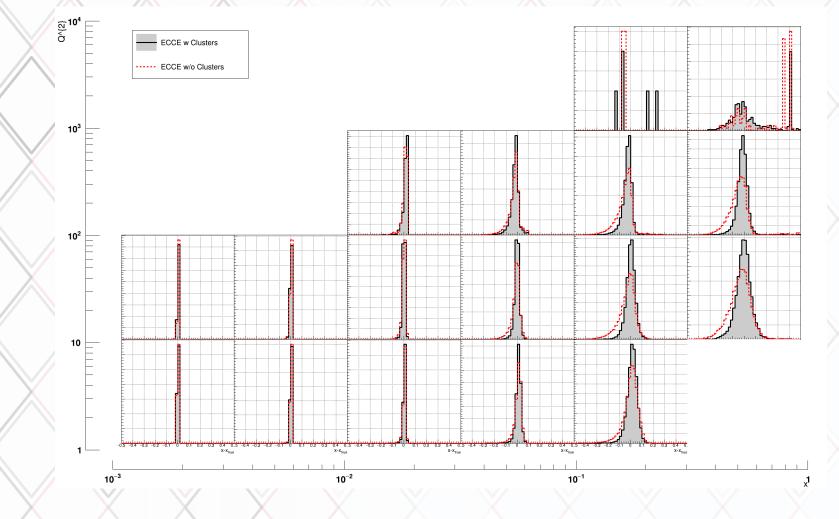
Note: This uses privately produced EventEvaluator Output of previous fun4all simulation DSTs as default Output (also) misses clusters





12/09/2022

JB x resolution





R.Seidl: EIC SIDIS

Summary

- Cluster are addressed now in AnalysisECCE
 TODO:
- might be useful to create relative resolution plots instead of absolute (especially for smaller x values, etc)
- Next try to look at cluster inclusion in AnalysisEpic (if not addressed already)

