

DIS Lepton ID code


Tristan Protzman, Daniel Brandenburg

EDM4EIC Model

Update to data model includes relations for future DIS lepton ID

Requested changes made, pushing through to PR

EDM4EIC PR 52


 sly2j last month Member



I'd like to see the following changes to move forward:

1. rename clu --> cluster (`clusterID` , `cluster`), which is in-line with how we call relations to clusters in the rest of the data model
2. rename plc --> track (`'trackID` , `track`)
3. add a new entry commented-out entry below trackID that reads: `# - int32_t trackID. // Index of the corresponding Track (position in the track particle array)`, and a similar line in the `OneToOneRelations`
4. Add to the comments for the `ReconstructedParticle` association something to the extend that this is a placeholder and will be removed in favor of a link to `Track` once the reconstruction is properly updated.

With these changes we can move forward and merge.

standardize naming, comment on temporary nature #1

 Open [tlprotzman wants to merge 1 commit into jdrice:add-cluster-recoparticle-association from tlprotzman:add-cluster-recoparticle-association](#)

Viewed  

```
497     Description: "Association between a Cluster and a ReconstructedParticle"
498     Author : "D. Brandenburg"
499     Members:
500 +     - uint32_t      clusterID      // Index of corresponding cluster (position in cluster array)
501 +     - uint32_t      trackID        // Index of corresponding ReconstructedParticle (position in
reco particle array) - temporary until link to track is available
502 +     # - int32_t      trackID.      // Index of the corresponding track (position in the track
particle array)
503     - float          weight        // weight of this association
504     OneToOneRelations:
505 +     - edm4eic::Cluster cluster      // reference to the cluster
506 +     - edm4eic::ReconstructedParticle track // reference to the Reco particle - temporary until
link to track is available
507 +     # - edm4eic::ReconstructedParticle track // reference to the track particle
```

EICRecon Scattered Electron Finder

- Wouter left comments ~2 weeks ago
- Changes implemented locally
 - Ran into issues testing
 - Resolved, thanks Derek!
- Will test and evaluate performance over next few days

