DIS Lepton ID code

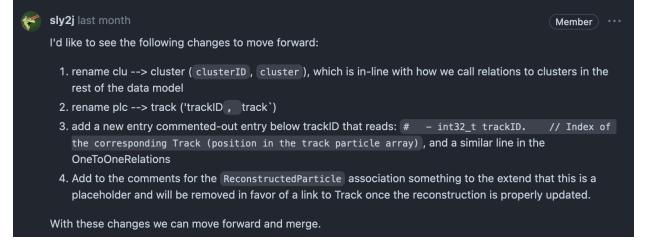
Tristan Protzman, Daniel Brandenburg

EDM4EIC Model

Update to data model includes relations for future DIS lepton ID

Requested changes made, pushing through to PR

EDM4EIC PR 52



```
standardize naming, comment on temporary nature #1
 🖺 Open | tlprotzman wants to merge 1 commit into | jdbrice:add-cluster-recoparticle-association | from | tlprotzman:add-cluster-recoparticle-association |
                                                                                                   ☐ Viewed ☐ ···
           Description: "Association between a Cluster and a ReconstructedParticle"
           Author: "D. Brandenburg"
           Members:
             - uint32 t
                                 clusterID
                                                       // Index of corresponding cluster (position in cluster array)
             - uint32_t
                                 trackID
                                                     // Index of corresponding ReconstructedParticle (position in
       reco particle array) - temporary until link to track is available
       particle array)
             - float
                                                   // weight of this association
                                 weight
           OneToOneRelations:
             - edm4eic::Cluster cluster
                                                       // reference to the cluster
             - edm4eic::ReconstructedParticle track
                                                                 // reference to the Reco particle - temporary until
        link to track is available
507 +
                                                                   // 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

