Reconstruction Tasks: Shared Priorities with PWGs

Electron Finder: Developing an algorithm for identifying electrons and the scattered electron of the DIS process.

• Overall status: Successfully closed in April release [report from General meeting].

Vertexing and PID: Enhancing the vertexing and PID capabilities to study heavy flavor physics.

- **Overall status**: **Primary** vertexing integrated (EICrecon, EDM4eic). PID LUTs as interim solution for PID algorithms.
- Goal for July campaign: Close out task on primary vertexing and PID capabilities. Status update in today's meeting.

Secondary Vertexing: Enhancing the vertexing and PID capabilities to study heavy flavor physics.

- Overall status: New reconstruction task on secondary vertexing led by Nicolas Schmidt (ORNL).
- Introduction in today's meeting.

Particle Flow: Improving the jet reconstruction using particle flow information. Not a priority for (pre?)TDR.

- Overall status on calorimeter reconstruction: Good progress on TDR priorities [report from CERN meeting].
- Updates for July campaign: Tuning parameters for track-based cluster merging [1406].

Low Q²: Integration of the low-Q2 tagger for precise measurements of photo and vector mesons production.

- **Overall status**: Baseline implementation available, integrated ML model in ElCrecon using TMVA.
- Need to discuss the remaining tasks before closing out reconstruction task.

