CEPC Weekly Meeting (2025-01-21)

❖ Weekly software meeting

- https://jupyter.ihep.ac.cn/faX6jrBATtGiKBfVbkLH5Q

❖ Software progress

- Software tdr25.1.2 released on 20th January and the release note:

  https://code.ihep.ac.cn/cepc/CEPCSW/-/releases

- Background mixing at event level: data production (in progress)

- Calorimeter: reconstruction in the end-cap (done)

- PID with dN/dx: The parameterization model updated and released (done)

- Tracking with ACTS: The optimization of track finding in the endcaps has been achieved (done)

❖ To do list

- Bug fix in reconstruction: 5% failure rate of job execution

- Combined track fit: Enhance fitting performance

- Muon software: To provide the muon identification information for the analysis

- MC truth: To record the decay and interaction trees of the primary particles in the detector simulation