

CEPC Weekly Meeting (2024-11-12)

- ❖ Weekly software meeting
 - <https://jupyter.ihep.ac.cn/faX6jrBATtGiKBfVbkLH5Q>
- ❖ Software progress
 - **Calorimeter:** performance validation and optimization
 - **Muon Detector:** The digitization software module for end-caps is under development, the reconstruction algorithm is being implemented.
 - **Analysis:** The RDataFrame-based analysis framework is being released
 - **Tracking with ACTS:** The new TDR geometry has been integrated, and the reconstruction efficiency is fine; however, there is a discrepancy in the phi direction. It's found the material distribution in the phi direction does not match between Geant4 and ACTS.
 - To be done: 1) event mixing within a time window 2) event display
- ❖ **Estimation of computing estimation** presented by Kaili
- ❖ The writing of Chapter 13 is underway
 - The chapter structure has been finalized, with the content approximately 30 pages. So far, 10 pages have been completed.