

CEPC Weekly Meeting (2024-11-19)

- ❖ Weekly software meeting
 - <https://jupyter.ihep.ac.cn/faX6jrBATtGiKBfVbkLH5Q>
- ❖ Software progress
 - **Calorimeter:** end-cap geometry(**done**), performance validation and optimization
 - **Muon Detector:** The digitization for end-caps is under development (**done**)
the reconstruction algorithm is being implemented.
 - **Analysis:** The RDataFrame-based analysis framework is being released (**ready**)
 - **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 does not match between Geant4 and ACTS. (solved)**
 - To be done: 1) event mixing within a time window (**Tao Lin**)
2) event display (**Zhengyun' s student**)
- ❖ **Lack of manpower**
- ❖ The writing of Chapter 13 is underway