Tracker Meeting Minutes

Time: 2024/5/24 10:00 – 11:00

Place: Room 228 of the multidisciplinary building

Participants: Qi Huirong, Fu Jinyu, Li Gang, Geng Qinglin, Xu Zijun, Fan Yunyun, Liu Shen, She Xin, Li Zhan, Zhang Junsong, Zhao Guang, Chang Yue, Zhao Mei, Fu Chengdong, Zhang Jian, Zhang Yao, Zhao Tianchi

Minutes: LI Gang

* Simulation
  + Qinglin: influence of Z pitch on momentum resolution. 1. VXD z pitch has the most influence O(10%). 2. Theta resolution to momentum resolution is less than 1/3. 3. Need to be updated to TPC setup.
  + Endcap study needs full simulation
* TPC: analysis the cell structure with FEA, as well as the support outer wall and outer tracker; readout module; realistic description of TPC with DD4HEP.
* Shi Xin & Li Zhan: studying the pair production effect
* Fan Yunyun: readout estimation, physics study, etc. To update the efficiency plots with finer bins, decouple the decay, energy loss, and geometry effect.
* Electronics optimization: Yan Xiongbo, Fan Yunyun discussion.