Tracker Meeting Minutes

Time: 2024/2/16 10:00 – 12:10

Participants: DONG Mingyi, FAN Yunyun, FU Jingyu, LI Gang, LI Yiming, LIANG Zhijun, GENG Qinglin, QI Huirong, SHI Xin, WANG Meng, WEI Wei, WU Linghui, XU Zijun, ZHAO Guang

Minutes: WANG Meng

* LG: general track distributions in interest
  + 95% quantile of pT: 10 GeV for full hadronic decays, 32 GeV for semi-leptonic decays
  + minimum angle between two tracks in jets: MPV ~3°
  + WM: shall we consider the measurement of pL?
* QHR: Key issues of TPC for CEPC
  + no problem for the run of Higgs, W and top.
  + R&D needed for the Z-pole run
  + In addition to the key parameters for Higgs run, other aspects (material budget, occupancy, power consumption, mounting, and cost) have been addressed as well.
* DMY: a table to be filled
  + need time to update for new geometry
  + on electronics cost: WW suggested a normalized way to present the cost of electronics and DAQ; WM suggested to present two of three quantities (total cost, unit cost, and total units).
  + on hit rate: DMY, waiting for new inputs; WM, may present a working range of hit rates.
* Discussions on criteria
  + DMY: performance first
  + QHR: how to address the Z-pole run?
  + WM: each option shall prepare tables in 2 aspects, namely performance and readiness, and performance separated for Higgs and Z-pole runs respectively.
* The next meeting will be held on Feb. 23rd.