Minutes of CEPC SDT Meeting

Online, 2020-05-19

Meeting indico link: https://indico.ihep.ac.cn/event/11829/

Progress Report (Ryuta)
- Checked the geometry from CDR and compared with the default confi g file in LDT2.0, one difference is 368 mm for SIT instead of 371.3mm from CDR. Also changed T from 3.5T to 3.0T.
- Transverse impact-parameter reso. and momentum reso. vs momentum larger than 3GeV of 20deg and 85 deg, generally in agreement.

Actions

1. Create git for SDT to host the config and future simulation results (Xin)
2. Towards v0.2
   2.1. Use 371.3 mm from CDR (Ryuta)
   2.2. Plot the number of hits per track for low momentum (3GeV) and high momentum (100 GeV) (Ryuta)
   2.3. Use the same scale for the figures as CDR (Ryuta)
   2.4. Superimpose the figures if we can get the scripts from Zhigang Wu (Ryuta, Xin)
   2.5. Check the material budget impact if set zero (Rytua)
3. Towards v0.3
   3.1. Turn off TPC, keep all the other settings the same (Ryuta)
4. Prepare talk for Wednesday CEPC Detector and Physics Meeting (Xin)
5. Collect comments and ideas from the meeting for Drift chambers (all)