

Minutes of the 70th SiD optimization meeting

2016-06-29

Present:

Previous Work Items:

- tracker calibration
 - # tracks at different collision energies (JS and TB)
 - Cosmics efficiencies, tracking efficiencies with different power pulsing modes. (MS) (some progress)
 - Alignment precision with different #tracks (JG)

Agenda and points of discussion:

- AHCAL model: SiD engineering dimensions for the [whole detector](#) and the [calorimeters](#)
 - Glasgow implemented the AHCAL based on the DESY dimensions. This leads to 34 layers in the barrel, with 16.7 mm steel and 2.5 mm gaps.
 - UTA changed the dimensions of the active layers, leading to a thickness of ~8 mm. With 19 mm steel, this allows for ~43 layers in in the barrel.
- Brief discussion of background note, more work needed.

New Work Items:

- tracker calibration
 - # tracks at different collision energies (JS and TB)
 - Cosmics efficiencies, tracking efficiencies with different power pulsing modes. (MS) (some progress)
 - Alignment precision with different #tracks (JG)