MDI Status Report

Hongbo Zhu 27 September 2017

Beam Pipe



Updating the IR



Synchrotron Radiation



Beamstrahlung



Radiative Bhabha Scattering



- Data files produced with latest lattice design received (and with & without collimation, effects to be evaluated)
- Geometry bug being fixed (C. Fu)

Particles trapped in the adjacent area



LumiCal

 Bi-weekly discussion meetings (IHEP-VINS-SINCA) called by K. Zhu → well organized, frequent and fast information exchange



Other Items

- Magnets (compensating and final focusing magnets) design \rightarrow Acc.
- Beam monitor → diamond/ZnO to measure radiative Bhabha at zerophoton scattering angle, or integrated with the LumiCal (S. Hou)
- Mechanical supporting structure, beam pipe, integration ... \rightarrow not covered

CDR Writing

• Just started ... can provide the skeleton with minor texts to describe each relevant item this week