



Contribution ID: 23

Type: Oral presentation (by invitation only)

Recent Advances on the FCC-ee Electron Cloud Build-up Studies

Tuesday 31 May 2022 12:15 (15 minutes)

In this work, we present updates on the electron cloud build-up studies considering various sections of the FCC-ee. Additionally, we report arc dipole & drift regions using the new baseline beam parameters for four IPs. Furthermore, estimated threshold central electron densities for the single-bunch instability are included. The electron density at the center of the beam pipe for 30 ns and 32 ns bunch spacings, secondary emission yield, and photoemission yield parameters are given.

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Session Classification: FCC-ee accelerators

Track Classification: FCC-ee accelerators