

Beam instability study for FCC-hh

Tuesday, 30 May 2017 19:14 (2 minutes)

Previous studies already showed that the FCC-hh beam intensities are limited by the resistive wall and the collimator impedances. In addition, electron clouds also contribute to the total impedance and could be the cause of instabilities. Numerical model of beam instabilities taking into account the impedance model is being developed. This should also be extended and include electron clouds. The numerical and analytical results of the impedance and growth rates for coupled-bunch instabilities will be shown.

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Session Classification: Poster session