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Beam-Beam Simulations with Crab Cavities

mardi 23 juillet 2019 15:00 (25 minutes)

The electron-ion collider as the next generation nuclear physics research facility has great demand for the luminosity of colliding beams. Meanwhile, the effects due to the electromagnetic interactions of the colliding beams, i.e. beam-beam effects, put strong limit on the achievable luminosity. In this talk, we will discuss about the numerical simulations of the beam-beam effects with crab cavities. We will present application examples in the HL-LHC study and in the preliminary electron-ion-collider design study.

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Classification de Session: Accelerator R&D