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Coherent and incoherent effects of e-cloud

Thursday 26 September 2019 17:30 (30 minutes)

Electron cloud generated by photo-emission, ionization and secondary emission is build up in vacuum chamber. The electron cloud causes single and multi-bunch coherent instability of the beam. The cloud also induces tune shift and emittance growth as incoherent effects. We discuss theory, simulation and experiments of these coherent and incoherent effects.

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