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Identification and reduction of space-charge and beam-beam effects

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Space-charge and beam-beam interaction affect both incoherent and coherent motion of particles potentially leading to instabilities and deterioration of the beam parameters. An overview of these phenomena will be given with an emphasis on the observable spectral characteristics and the mitigation methods of their harmful effects.

Author: ALEXAHIN, Yuri (Fermilab)

Presenter: ALEXAHIN, Yuri (Fermilab)

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