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【326】 Beam-Beam studies for Future Circular Colliders

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Beam-beam effects are one of the major limitations in past and present hadron colliders. If not understood and well controlled they might result in important particle losses and transverse beam size blow up, with a direct impact on the accelerator performances and discovery potentials. We present in this work the studies of beam-beam effects for the Future Circular Hadron Colliders. We will describe the various aspects of beam-beam interactions (i.e. dynamic aperture, Landau damping, compensation schemes and operational set-up) and their implications to the machine performances are evaluated.

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