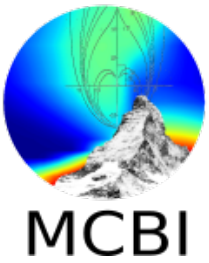

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* Effects of chromaticity on beam-beam interactions in CEPC

Tuesday 24 September 2019 18:40 (10 minutes)

In recent years, strong-strong simulations and following theoretical analysis has shown a novel strong coherent head-tail type instability induced by the beam-beam interaction in case of large Piwinski angle The width of stable working point limited by the instability is very narrow when we try to reach the beam-beam limit at CEPC. In this paper the chromaticity is considered, the luminosity performance especially the x-z instability is studied by analysis and simulation.

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