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Collective effect estimates for the FCC-ee pre-booster ring

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The FCC-e+e- injector complex needs to produce and to transport a high intensity e+e- beam at a fast repetition rate for topping up the collider at its collision energy. Two different options are under consideration as pre-accelerator before the bunches are transferred to the high-energy booster: using the existing SPS and designing a completely new ring. The purpose of this paper is to present updated studies of the pre-booster ring design and parameter choice, focusing in particular on first estimates with respect to collective effects.

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