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Dynamic Aperture studies at Injection

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In the hadron machine option, proposed in the context of the Future Circular Colliders (FCC) study, the dipoles field quality is expected to play an important role, as in the LHC. A preliminary evaluation of the field quality of dipoles, based on the Nb3Sn technology, has been provided by magnets designers. The effect of these field imperfections on the dynamic aperture, using the present lattice design, is presented and first tolerances on the main multipole components are evaluated.

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