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Dynamic aperture at injection and 3.3 TeV energy choice

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The Nb₃Sn dipole design for the hadron machine option of the Future Circular Colliders enters in an intense and long R&D phase. As a result, more realistic dipole field quality evaluations are available for beam dynamics studies. In this paper we discuss the impact of the main dipole field quality on the first and second order design of the hadron machine and on its dynamic aperture.

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