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Comparison studies in dynamic aperture for combined function magnets and baseline lattice in the FCC-ee

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A significant project such as the FCC-ee (with 91.17 km of circumference) entails numerous challenges to ensure the stability and performance of the machine. In pursuit of contributing to the improvement of energy consumption during its operation, the exploration of Combined Function Magnets as a means to reduce synchrotron radiation has been undertaken. This paper focuses on studying the Dynamic Aperture (DA) concerning the nominal lattice to understand how the luminosity can be achieved with this novel design.

Footnotes

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