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FCC-ee tuning studies with pyAT

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We present a study of the impact of arc magnet alignment errors in the FCC-ee V22 @ Z energy lattice. The aim of the study is to provide realistic alignment tolerances. The Python accelerator toolbox PyAT was used to develop a sequence of correction steps to achieve the nominal emittance, dynamic aperture (DA), and in the end the design luminosity. The correction scheme has been recently optimized and better machine performance demonstrated. A comparison between LOCO and phase advance/RDT optics correction was performed, showing a somewhat better performance of the latter.

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