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Dynamic aperture

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The estimation of dynamic aperture (DA) is one of the most important tasks to be conducted in the design of an accelerator, allowing the evaluation of its performance. In order to compute the DA, a numerical approach can be followed, in which particle tracking simulations are performed. The main limitation of this approach is the time needed involved in the process. An automation routine for particle tracking with MAD-X and PTC has been developed to overcome this issue. We apply this tool to the latest FCC-ee lattices, and the results are presented and discussed. Plans for the improvement of this tool are also proposed.

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