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Design of a nonlinear kicker injection scheme for the ESRF-EBS

Monday 2 June 2025 16:00 (2 hours)

The ESRF-EBS injection scheme consists in a classical four kickers off-axis injection. During injections, beam lines are perturbed and have to stop data acquisition. A new injection scheme using non-linear kickers was designed. The storage ring and transfer line optics and layout had to be modified to integrate the non-linear kickers in the injection cells and preserve injection efficiency in the presence of strong non-linear fields. This paper reports on the status and advancement of the project.

Footnotes

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Europe

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