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Simulation studies of beam commissioning for the HEPS high-energy transfer line

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According to the schedule, the commissioning of HEPS injector would start in 2023. The high-energy transfer line 'BR' is used to deliver 6 GeV electron beams from the booster to storage ring. Systematic simulation of beam commissioning was carried out for the HEPS high-energy transfer line. The simulation results suggest that it is feasible to deliver not only on-momentum but also slightly off-momentum beams through the transfer line. One key point is to evaluate the momentum deviation using a response matrix with dispersion. Based on the studies, a commissioning plan of the HEPS high-energy transfer line has been proposed and will be introduced in this paper.

Funding Agency

Footnotes

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Yes

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