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An accumulator ring lattice design for swap-out injection scheme

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The on-axis swap-out scheme is a potential injection scheme to be adopted in the diffraction-limited storage ring light source, since it only need a rather small dynamic aperture. An accumulator is added between the booster and storage ring to allow for off-axis injection from the booster and extracting low emittance beam into the storage ring. In this paper, an accumulator ring is designed through modifying the storage ring lattice of NSLS-II for swap-out injection scheme. It provides a possible injection scheme for the upgrade of Shanghai Synchrotron Radiation Facility.

Footnotes

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