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Beam loss study for Hefei Advanced Light Facility

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The Hefei Advanced Light Facility (HALF) which is a green-field diffraction-limited storage ring has a relatively low beam lifetime and very low beam emittance. So it is important to study the beam loss for the HALF storage ring to protect the insertion devices and optimize the radiation shielding. In this paper, a simulation for beam loss from two main mechanisms, beam dump and Touschek scattering, are presented. And the collimation scheme is also briefly introduced.

Footnotes

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