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The status of the impedance model for the HALF storage ring.

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The Hefei Advanced Light Facility (HALF) storage ring will be an ultralow emittance storage ring with 2.2 GeV beam energy, less than 100 pm·rad emittance, 480 m circumference and 350 mA nominal current, which is designed with 20-long and 20-middle straights, so more insertion devices can be installed for users. To facilitate its high performance, the beam-coupling impedance effect must be considered and controlled in a safety margin. The present impedance model of the HALF storage ring, including the resistive wall impedance and main geometrical impedance, will be shown in this paper.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Session Classification: Wednesday Poster Session

Track Classification: MC5: Beam Dynamics and EM Fields: MC5.D04: Beam Coupling Impedance Theory, Simulations, Measurements, Code Developments