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Type: Poster Presentation

Lattice design for Low Energy Cooling in EIC HSR-IR2

Tuesday 12 August 2025 16:00 (2 hours)

Insertion Region at two o'clock (IR2) of the Relativistic Heavy Ion Collider will be modified to provide effective cooling for the Electron-Ion Collider (EIC). This paper summarizes the update of the HSR-IR2 lattice design to meet the evolving requirements of the EIC. The geometry has been redesigned to satisfy the yellow-to-yellow configuration. The injection optics is optimized to satisfy the Low Energy Cooling requirements and physical aperture.

Please consider my poster for contributed oral presentation

No

Would you like to submit this poster in student poster session on Sunday (August 10th)

No

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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Presenter: XU, Derong (Brookhaven National Laboratory)Session Classification: TUP: Tuesday Poster Session

Track Classification: MC1 - Colliders and other Particle and Nuclear Physics Accelerators