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# Update of the EIC HSR injection system design

*Tuesday 12 August 2025 16:00 (2 hours)*

The Electron-Ion Collider (EIC), to be constructed based off the existing RHIC facility, will collide electrons with multiple species of hadrons. The Hadron Storage Ring (HSR), based largely on the Yellow RHIC ring, will accommodate three times the number of bunches compared to RHIC. A completely new HSR injection system will be developed to meet these requirements. This report presents the design of the HSR injection system, including the warm transfer lines, the septum design, the injection lattice optimized to reduce the required kicker strength, and the design and testing of the injection stripline kicker.

## Please consider my poster for contributed oral presentation

Yes

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

No

## Footnotes

## Funding Agency

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## I have read and accept the Privacy Policy Statement

Yes

**Author:** LIU, Chuyu (Brookhaven National Laboratory)

**Co-authors:** BHANDARI, Bijan (Brookhaven National Laboratory); LIAW, Chong-Jer (Brookhaven National Laboratory); OH, Minwoong (Brookhaven National Laboratory); TSOUPAS, Nicholaos (Brookhaven National Laboratory); PEGGS, Steve (Brookhaven National Laboratory); PTITSYN, Vadim (Brookhaven National Laboratory); LIN, Weijian (Brookhaven National Laboratory)

**Presenter:** LIU, Chuyu (Brookhaven National Laboratory)

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