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Simulations of polarized helions in the hadron storage ring

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The Electron Ion Collider calls for collisions of helion beam on polarized electron beams. Polarized helions will be injected into the Hadron Storage Ring at $|G\gamma| = 49.5$ and have a maximum energy corresponding to $|G\gamma| = 820$. Simulations of helions in this energy range have been performed using zgoubi. These studies quantify the polarization transmission with six snakes and also categorize the lattice constraints.

Footnotes

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Primary author: HOCK, Kiel (Brookhaven National Laboratory)

Co-authors: HAMWI, Eiad (Cornell University (CLASSE)); MEOT, Francois (Brookhaven National Laboratory); HUANG, Haixin (Brookhaven National Laboratory); PTITSYN, Vadim (Brookhaven National Laboratory (BNL))

Presenter: HOCK, Kiel (Brookhaven National Laboratory)

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