

Contribution ID: 83

Type: **Parallel Sessions**

97% Spin-Flip Efficiency at 255 GeV for Polarized Protons

Wednesday, 12 September 2018 14:50 (20 minutes)

In polarized proton collision experiments, spin flip is needed to reduce the systematic errors. At high energy colliders with Siberian snakes, a single magnet spin flipper does not work. A more sophisticated spin flipper, constructed of nine-dipole magnets, was used to flip the spin in the BNL Relativistic Heavy Ion Collider. A 97% spin-flip efficiency was measured at both 24 and 255 GeV. The spin flip experiment results are presented in this paper.

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Session Classification: Acceleration, Storage and Polarimetry of Polarized Beams

Track Classification: Acceleration, Storage and Polarimetry of Polarized Beams