

Recent results of the high-energy spin physics program at RHIC at BNL

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High energy polarized $p + p$ collisions at $\sqrt{s} = 200 - 500$ GeV at the Relativistic Heavy-Ion Collider (RHIC) at Brookhaven National Laboratory (BNL) provide a unique way to probe the proton spin structure and dynamics using hard scattering processes. The production of jets and hadrons is the prime focus of gluon polarization studies. The production of $W^{-(+)}$ bosons at $\sqrt{s} = 500$ GeV provides an ideal tool to study the spin-flavor structure of the proton. Various measurements on the study of transverse spin effects have been performed.

Recent results will be presented followed by a brief outlook of future spin physics opportunities at RHIC and an Electron-Ion Collider facility.