

Recent Results from the PHENIX Spin Program

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Summary

The PHENIX experiment utilizes longitudinally and transversely polarized proton collisions with up to 510 GeV center of mass energy at the Relativistic Heavy Ion Collider (RHIC) to study the spin structure of the proton. Topics include the measurement of anti-quark helicity distribution functions via W production, the measurement of gluon helicity distribution functions, and the investigation of different mechanisms for the generation of transverse single spin asymmetries. We have reached an era of high enough luminosity and polarization (RHIC-II) to begin our investigation of low cross-section channels, such as the W. In this talk I will show recent results and discuss future prospects.

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