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Recent Results of the RHIC Spin Physics Program

The Relativistic Heavy Ion Collider (RHIC) is a unique facility as it is the world's only polarized proton + proton collider capable of delivering highly polarized protons at $\sqrt{s} = 200/500$ GeV. Using longitudinally polarized protons, RHIC is able to probe the longitudinal spin structure of the proton through W , A and W , jet, hadron, and di-jet measurements, providing constraints on the sea quark and gluon polarization distributions. Furthermore, using transversely polarized protons RHIC can probe the transverse spin structure of the proton such as transversity, the Collins fragmentation function, and the Sivers function, through W , jet, di-hadron, and IF - FAN and AUT measurements. Presented here is a brief summary of the recent results of the STAR and PHENIX proton + proton data at RHIC, which are playing a key role in our understanding of the proton spin structure.

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