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Overview of Longitudinal Spin Physics Results from RHIC

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The Relativistic Heavy Ion Collier (RHIC) at Brookhaven National Laboratory has been in operation since 2001 and delivered the world's highest energy polarized proton-proton collisions with the center of mass energy up to 510 GeV. This has provided a unique opportunity to study the polarized quark and gluon spin structures inside the proton and novel QCD dynamics in longitudinally and transversely polarized proton-proton collisions at high energy. In this talk, I will highlight the latest longitudinal spin physics results from the PHENIX and STAR experiments at RHIC, including studies of the gluon and flavor identified quark polarizations inside the proton, followed by a brief discussion of the future prospects of spin physics opportunity at RHIC.

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