Latest News of Transverse Spin Physics from RHIC

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There has been tremendous experimental and theoretical progress in recent years toward understanding the physics involved with transversely polarized beams (or targets) in high-energy collisions. The Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory delivers the world’s highest energy polarized proton-proton collisions with the center of mass energy up to 500 GeV and provides a unique opportunity to study the spin structure and QCD dynamics in transversely polarized proton-proton collisions at high energy.

During the 2006 and 2008 RHIC runs, the RHIC experiments, BRAHMS, PHENIX and STAR, took a significant amount of transversely polarized p+p collision data at the center of mass energies of 62 and 200 GeV, with beam polarization of 45%(run8) and 57%(run6). In this talk, I will highlight the latest results from the RHIC experiments, followed by a brief discussion of the future prospects with the upgrade detectors at RHIC.