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PHENIX recent results from polarized pp and pA collisions

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We summarize the recent results from polarized pp and pA collisions in PHENIX at RHIC. Measurements in high energy longitudinally polarized proton collisions allow us to get access to the contribution of gluon and flavor separated (anti-)quark polarization to the spin of the proton. Measurements with transversely polarized protons help our understanding of parton dynamics within hadrons and test the fundamentals of color interactions in hadronic reactions. First ever data from collisions of polarized protons on nuclei at RHIC in 2015 opened new avenue in both spin and heavy ion physics. We discuss the first intriguing results on nuclear size dependence of transverse spin asymmetry in forward neutron production in pA collisions.

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