

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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Cold QCD physics program with sPHENIX

The sPHENIX detector at BNL's Relativistic Heavy Ion Collider (RHIC) will enable a spectrum of new or improved cold QCD measurements. With its excellent tracking and full calorimetry (hadronic and electromagnetic) in the central pseudo-rapidity region, sPHENIX provides excellent opportunities for the studies of the partonic structure and dynamics in nucleons and nuclei, and hadronization phenomena. This includes the studies of the polarized structure of the proton and spin correlated fragmentation effects utilizing RHIC's polarized proton collisions. Measurements will also take advantage of RHIC's unique capability to collide polarized protons on nuclei, which provides novel opportunities to study nuclear effects with spin observables.

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