

Transverse Spin Related Measurements at RHIC

Friday, 1 June 2018 16:40 (30 minutes)

The Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory is the world's only polarized proton collider with center-of-mass energies up to 500 GeV and beam polarizations of about 60% at the highest energies. It provides unique opportunities to study the spin structure in hadronic systems and opens new kinematic regions compared to deep inelastic scattering experiments. Transverse spin effects have been among the most surprising discoveries in nuclear physics and they are an essential tool in order to separate the intrinsic properties of hadrons from interaction dependent dynamics in the framework of QCD factorization. This talk will discuss the latest achievements from the RHIC experiments related to nuclear spin orbit correlations and spin dependent fragmentation functions, universality of transverse momentum dependent distribution functions, and results from proton-nucleon collisions.

E-mail

keyser@bnl.gov

Collaboration name

RHIC Spin Collaboration

Primary author: EYSER, Oleg (Brookhaven National Laboratory)

Presenter: EYSER, Oleg (Brookhaven National Laboratory)

Session Classification: Parton and Gluon Distributions in Nucleons and Nuclei

Track Classification: PGDNN