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Probing nucleon spin structure - Recent advances in spin-physics measurements

Wednesday, 1 November 2023 10:00 (30 minutes)

A summary of experimental measurements unveiling spin-dependent nucleon structure prior to the arrival of the Electron-Ion Collider is given. Results from fixed-target experiments at Jefferson Lab, CERN, and DESY and collider experiments from RHIC will be presented. The measurements will be discussed in the context of transverse proton or parton spin and transverse parton momenta (TMDs), and their (spin-orbit) correlations, and generalized parton distributions (GPDs), the latter of which map the proton in transverse position space. The GPDs and TMDs provide complementary pathways to mapping multi-dimensional nucleon structure.

Primary author: RIEDL, Caroline (University of Illinois at Urbana-Champaign)

Presenter: RIEDL, Caroline (University of Illinois at Urbana-Champaign)

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