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3D Structure of the Nucleon: from JLab12 to JLab24

Tuesday 30 November 2021 09:00 (30 minutes)

The quark-gluon dynamics manifests itself in a set of non-perturbative functions describing all possible spin-spin and spin-orbit correlations. Single and Dihadron semi-inclusive and hard exclusive production, both in current and target fragmentation regions, provide a variety of spin and azimuthal angle dependent observables, sensitive to the dynamics of quark-gluon interactions. Studies of transverse momentum distributions of partons are currently driving the upgrades of several existing facilities, and the design and construction of new facilities worldwide. In this talk, we present an overview of the current status and some future measurements of the orbital structure of nucleons at Jefferson Lab.

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