

Light-Cone 2024: Hadron Physics in the EIC era



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Gluon Distributions in the proton

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Though the quark distributions are studied in different models, the gluon distributions inside the proton are not studied extensively. To understand the three dimensional structure of proton and the spin and angular momentum contributions of different partons, it is important to evaluate the gluon GPDs and TMDs. We will define a simple spectator model to study the gluon distributions in the proton. Results for orbital angular momentum, spin-orbit correlations will also be discussed.

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