

Light-Cone 2024: Hadron Physics in the EIC era



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Type: **Invited**

Exclusive reactions at Jefferson Lab and the future EIC

Monday, 25 November 2024 10:00 (30 minutes)

Deeply Virtual Compton Scattering (DVCS) is the easiest reaction that accesses the Generalized Parton Distributions (GPDs) of the nucleon. GPDs offer the exciting possibility of mapping the 3-D internal structure of protons and neutrons by providing a transverse image of the constituents as a function of their longitudinal momentum. A vigorous experimental program is currently pursued at Jefferson Lab (JLab) to study GPDs through DVCS. Recent results will be shown and discussed, in particular from experiments run after the Upgrade of JLab to 12 GeV. We will conclude by discussing the future Electron-Ion Collider (EIC), which will complete this program by studying the gluon content of nucleons and nuclei.

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