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DVCS study towards EIC

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Generalized Parton Distributions (GPDs) open a new avenue in our understanding of nucleon structure that may shed light on many properties of the nucleon such as spin, mass and 3D images of a completely relativistic QCD system. This is achieved by measuring both transverse and longitudinal properties of the nucleon simultaneously. Extraction of GPDs presents a formidable experimental challenge. However, it has been shown that deeply virtual exclusive reactions can provide unique access to the study of GPDs. In this talk, I will present recent progress in three deeply virtual channels, that are sensitive to different aspects of GPDs, from the CLAS12 experiment in Jefferson Lab Hall B at 10.6 GeV, and the current study of deeply virtual Compton scattering (DVCS) with the ePIC Experiment at the forthcoming Electron-Ion Collider.

Submitted on behalf of a Collaboration?

No

Participate in poster competition?

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