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Precision studies of the DVCS process at JLab¹

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Generalized Parton Distribution (GPDs) describe the correlation between the spatial distribution of the quarks and its longitudinal momentum fraction. Their definition in the mid 1990s has revolutionized our approach to the description of the internal structure of the nucleon. The study of the GPDs together with the study of similar quantities are at the fore-front of today hadronic physics enterprise. Deeply Virtual Compton Scattering (DVCS) off the nucleon ($\gamma^*N \rightarrow \gamma N$) is the simplest process which is sensitive to the GPDs. It has been measured at Hera, Compass and JLab. In this talk, I will review the recent results of the Hall A @ JLab scheme, including results of the experiment performed with the upgraded JLab 12 GeV beam.

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