

Abstract Submitted
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Deeply Virtual Compton Scattering on the Proton NICHOLAS HIRLINGER SAYLOR, Rensselaer Polytechnic Institute, IPN Orsay, JLAB, CLAS COLLABORATION — DVCS on the proton was measured at Jefferson Lab with CLAS at Hall B with a polarized 5.88 GeV electron beam on an unpolarized hydrogen target. A preliminary measurement of unpolarized and polarized cross sections was made over wide kinematics, from $1 \text{ GeV}^2 < Q^2 < 5 \text{ GeV}^2$, $0.1 < x_B < 0.6$ and $0.1 \text{ GeV}^2 < -t < 2 \text{ GeV}^2$. In the handbag model, this reaction is sensitive to the GPD H . The Compton form factor \mathcal{H}_{Im} , which is proportional to H , was extracted. In addition, we have made a comparison of measured cross sections with predictions from several different handbag based models. This measurement allows for further constraints to be placed on the various models, especially on H . Preliminary results for the extraction of the GPD H will be presented and discussed.

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