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Perturbative Calculation of Nucleon Compton Scattering RICHARD THOMSON, CHUENG JI, North Carolina State University — Perturbative calculations of proton Compton scattering are compared with recent experimental results from JLAB. Normalization of the results using the proton form factor suggest that experimental cross sections for real Compton scattering (RCS) are approaching our calculated results as CM energy, W , increases. A recent virtual Compton scattering (VCS) experiment suggests that, for large W , the cross section becomes independent of $Q^2 = -(4\text{-momentum of the virtual photon})^2$. This hypothesis is considered in the light of our perturbative calculations for VCS. Finally, we explore a link between the perturbative approach to DVCS and the handbag diagram approach using GPDs.

Prefer Oral Session
 Prefer Poster Session

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