

Abstract Submitted
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Deuteron Compton Scattering Above Pion Threshold LUKE MYERS, Bluffton Univ, BRUNO STRANDBERG, University of Glasgow, COMPTON@MAX-LAB COLLABORATION — This work highlights the final Compton scattering data collected at MAX-lab and marks the first time that the deuteron Compton-scattering cross sections have been measured above the pion photoproduction threshold. With the current interest in extracting the neutron polarizabilities from the scattering cross section, and with the sensitivity to the polarizabilities increasing with photon energy, these results could spur new work on the deuteron. The MAX-lab data are found to be consistent with expectations and cross sections obtained from proton Compton scattering. Large uncertainties prevent the extraction of polarizabilities from this data set; however, the method is shown to be viable and will hopefully inspire future work in the super-threshold region.

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