

Abstract Submitted  
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**Generalized Polarizabilities of the Proton at low  $Q^2$  using Virtual Compton Scattering** BOURGEOIS PAUL, Amherst College — The Generalized Polarizabilities (GP's) of the proton are new observables that are accessible through the virtual Compton scattering (VCS) reaction. Precise measurements of the GP's will set constraints on models of the proton and will enhance our understanding of nucleon structure. My talk will focus on the use of VCS to measure the GP's, and I will present recently published results of the electric and magnetic GP's at  $Q^2 \approx 0.06 \text{ GeV}^2/c^2$ . I will also present the first determination of the electric and magnetic mean square polarizability radii of the proton.

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