

Abstract Submitted
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A new measurement of the neutron magnetic form factor using CLAS. JEFF LACHNIET, Carnegie Mellon University, CLAS COLLABORATION — The CEBAF Large Acceptance Spectrometer (CLAS), located in Hall B of Jefferson Lab, has been used to measure quasielastic electron-neutron and electron-proton scattering from a deuterium target at electron beam energies of 2.6 and 4.2 GeV. The neutron magnetic form factor has been extracted from the e-n/e-p ratio with the use of the more accurately determined proton form factors. The experiment employed a novel dual-cell hydrogen/deuterium target that allowed the neutron detection efficiency of the CLAS calorimeters to be measured simultaneously with the quasielastic measurement. The large acceptance of the CLAS detector allowed the e-n/e-p ratio to be measured simultaneously over the range $0.5 < Q^2 < 4.5 \text{ GeV}^2$. Preliminary results of the ratio measurement and form factor extraction will be presented.

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