

Abstract Submitted
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Electroproduction of π^0 in the resonance region at high Q^2 with CLAS MAURIZIO UNGARO, JLAB/UCONN, KYUNGSEON JOO, UCONN, CLAS COLLABORATION — An extensive program is underway at Jefferson Lab to study the electromagnetic excitations of baryon states. We report the analysis of exclusive single π^0 and η electroproduction in the resonance region at Jefferson Lab in the Q^2 range of 2 to 6 GeV^2/c^2 . A longitudinally polarized 5.75 GeV electron beam was incident on a 5 cm long liquid Hydrogen target. The CLAS spectrometer at Jefferson Lab was used to detect the final state particles. The average beam polarization was 70%. The data was taken between October 2001 and January 2002. Preliminary results for differential cross sections and beam spin asymmetries over the entire 4π *c.m.* solid angle will be presented. This high precision measurement will allow us to access the structure and dynamics of nucleon excitations with masses up to 2 GeV .

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