Abstract Submitted
for the HAW05 Meeting of
The American Physical Society

Electroproduction of pi0 from Delta(1232) at high Q2 with CLAS
MAURIZIO UNGARO, JLAB, PAUL STOLER, RPI, CLAS COLLABORATION
— We report the analysis of exclusive single π^0 electroproduction in the $\Delta(1232)$ resonance region at Jefferson Lab in the Q^2 range 2 to 5 GeV^2/c^2. The electron beam energy was 5.75 GeV, impinging on a cryogenic Hydrogen target. The CLAS spectrometer was used to detect the scattered electrons and final state protons, and the π^0's were reconstructed by the missing mass technique. π^0 angular distributions are obtained over the entire 4π cm solid angle. The c.m. differential cross section $d\sigma/d\Omega^*_{\pi^0}$ is measured, the M_{1+}, $R_{em} = E_{1+}/M_{1+}$ and $Rsm = S_{1+}/M_{1+}$ multipoles for the delta resonance are extracted using the JANR unitary isobar model, along with the form factor G^*_M.

Maurizio Ungaro
UCONN/JLAB

Date submitted: 25 May 2005 Electronic form version 1.4