## Abstract Submitted for the HAW14 Meeting of The American Physical Society

The Study of the D(e,e'p)n Reaction at High Four- Momentum Transfer<sup>1</sup> HARI KHANAL, Florida International University — A study of the D(e,e'p) reaction has been carried out at the Thomas Jefferson National Accelerator Facility (Jefferson Lab) for a set of fixed values of four-momentum transfers  $Q^2 = 2.1$  and  $0.8 (\text{GeV/c})^2$  and for missing momenta  $p_m$  ranging from  $p_m = 0.03$  to  $p_m = 0.65 \text{ GeV/c}$ . The analysis resulted in the determination of absolute D(e,e'p)n cross sections as a function of the recoiling neutron momentum and it's scattering angle with respect to the momentum transfer  $\vec{q}$ . The experimental momentum distribution of the bound proton inside the deuteron has been determined for the first time at a set of fixed neutron recoil angle.

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