

Preliminary Results of T and F Asymmetries for $K\Lambda$ Photoproduction from the Proton

N.K. Walford (for the CLAS Collaboration)
The Catholic University of America
Washington, DC 20064, USA
natalie@jlab.org

Recently, double-polarization data was taken at the Thomas Jefferson National Accelerator Facility (JLab) using circularly polarized photons incident on a transversely polarized frozen spin target (FROST) comprising butanol, operated at the low temperature of 30mK. The reaction products are being detected in the CEBAF Large Acceptance Spectrometer (CLAS) of Hall B using tagged photons. Polarization observables can help to provide an understanding of the baryon resonance spectrum, including disentangling overlapping resonances or the evidence of missing resonance states. We will present preliminary data of the T and F asymmetries of the $K\Lambda$ final state with comparisons to theoretical predictions. There are very few published measurements of the T asymmetry and none of the F asymmetry for the $K\Lambda$ channel. This work is the first of its kind and can significantly add to the world database.