Abstract Submitted
for the SES09 Meeting of
The American Physical Society

The Jefferson Lab E05-115 Hypernuclear Spectroscopy Experiment[1] JASON BONO, JOERG REINHOLD, Florida International University, JEFFERSON LAB E05-115 (HES/HKS) COLLABORATION — Jefferson Lab experiment E05-115 will study hypernuclear excitation spectra in the reaction spectroscopy employing the (e,e'K^+) reaction. The goal is to improve the current accuracy for medium mass hypernuclei from ≈1-2 MeV to roughly 400 keV. This will improve the knowledge of the hyperon-nucleon interaction. The experiment employs a new spectrometer system consisting of high-resolution kaon and electron spectrometers (HKS & HES) and the associated focal plane instrumentation. The experiment will run August through October 2009. The experimental apparatus and technique will be presented in detail, as well as any preliminary results.

[1]The authors acknowledge support from DoE Grant DE-FG02-99ER41065. J.R. acknowledges support from the JSA/JLab Sabbatical/Research Leave Support Program. This work was in part supported by DOE Contract No. DE-AC05-06OR23177.

Joerg Reinhold
Florida International University

Date submitted: 17 Aug 2009 Electronic form version 1.4