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Excitation Spectra of Λ Hypernuclei using the $(e,e'K^+)$ Reaction LEON COLE, Hampton University, TOHOKU UNIVERSITY COLLABORATION, FLORIDA INTERNATIONAL UNIVERSITY COLLABORATION, UNIVERSITY OF HOUSTON COLLABORATION, UNIVERSITY OF ZAGREB COLLABORATION — The JLAB HKS experiment was designed to take full advantage of the $(e,e'K^+)$ reaction and the new High Resolution Kaon Spectrometer. The expected results will provide Λ hypernuclear spectra with the best energy resolution ever achieved. This energy resolution of ~ 400 keV (FWHM) will yield knowledge on the single-particle behavior of Λ hyperon in a nuclear medium and allow precise studies of the effective Λ -N interaction. This presentation will showcase the preliminary results of the excitation spectra from the ^{28}Si , ^7Li , and ^{12}C targets.

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