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Hypernuclei production experiment E05-115 at Jefferson Laboratory HallC by $(e, e'K^+)$ reaction CHUNHUA CHEN, Hampton University, JLAB E05115 (HKS/HES) COLLABORATION — The third-generation $(e, e'K^+)$ hypernuclear experiment E05115 at JLAB HallC was carried out in 2009. The goal of the experiment is to obtain high precision spectroscopy for medium-heavy hypernuclei ${}_{\Lambda}^{52}\text{Cr}$ as well as light p shell hypernuclei ${}_{\Lambda}^{12}\text{B}$, ${}_{\Lambda}^7\text{He}$, ${}_{\Lambda}^9\text{B}$ and ${}_{\Lambda}^{10}\text{Be}$. The application of brand new electron spectrometer and higher energy beam makes the “tilt method” more effective than last JLAB HallC hypernuclear experiment which was taken in 2005. The system optical calibration is being studied in detail, since there is a fringe field cross talk between the magnets of the spectrometers. The updated optics status and preliminary spectrum will be presented in this talk.

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