

Recent Hall C results and future plans with the 12 GeV upgrade

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Collaboration

Abstract content

Hall C at Jefferson Lab has added a new “super” high momentum spectrometer to complement the recent upgrade of the JLab accelerator to 12 GeV. We will present results from the pre-upgrade era, including a measurement of the weak charge of the proton, hypernuclear physics and electro-meson production. After the upgrade, data taking has resumed with a variety of physics programs using high-intensity electron beams including a new program of exclusive and semi-inclusive meson (charged pions, neutral pions and kaons) production. We will report on the prospects for these programs as well as the continuation of the hypernuclear program in JLab’s Hall A.

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