

BEACH 2024: XV International Conference on Beauty, Charm, Hyperons in Hadronic Interactions

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Aspects of Physics at Jefferson Lab's Halls A, B, and C

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CEBAF delivers the world's highest intensity and highest precision multi-GeV electron beams and has been doing so for more than 25 years. In Fall 2017, with the completion of the 12 GeV upgrade and the start of the 12 GeV science program, a new era at the Laboratory began. The 12 GeV era is now well under way and many experimental results are delivered from the three Halls A, B, and C that receive electron beams.

This talk will cover measurements of the J/ψ photo- and electroproduction cross section near threshold by different experiments in Halls B and C, the spectroscopy of strange and multi-strange baryons with the CLAS12 spectrometer in Hall B, and the rich program in hypernuclear physics that will get addressed by an extended measurement campaign in Hall C. Future equipment in Hall A (SoLID) will extend the J/ψ studies in photo- and electroproduction with increased luminosity and kinematic reach.

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