

Strangeness Analyses with CLAS12 at Jefferson Lab

Thursday 4 April 2024 16:00 (30 minutes)

Commissioned in 2017, the CLAS12 spectrometer is the flagship detector system in Hall B at Jefferson Lab, replacing the previous spectrometer, CLAS, which operated from 1997 until 2012. CLAS12 enables large acceptance studies of electron-induced reactions using the now energy-doubled CEBAF electron beam, with access to quasi-real photoproduction processes via the low-Q² Forward Tagger. This talk will showcase the current status of strangeness analyses in CLAS12, with a focus on studies of $S = -2, -3$ baryons in exclusive photonuclear reactions, where CLAS12 data is expected to provide a significant increase in the available statistics for Ω^- and Ξ baryons.

Primary author: Dr FEGAN, Stuart (University of York)

Presenter: Dr FEGAN, Stuart (University of York)

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