Contribution ID: 183

Type: Parallel

New Measurements of the EMC Effect in Hall-C at Jefferson Lab

Wednesday, 30 May 2018 17:10 (25 minutes)

The x dependence of the EMC effect has been measured for a variety of nuclei in a multitude of experiments conducted over the past 35 years. Previous EMC ratio measurements for light nuclei ($A \le 12$) have shown a dependence on the local nuclear structure of nucleons and the associated modification to nuclear structure functions. The newly commissioned Super High Momentum Spectrometer (SHMS) in Hall-C has been used to collect inclusive electron scattering measurements on various light nuclei utilizing the 12 GeV CEBAF facility at Jefferson Lab. These data obtained during a portion of E12-10-008 includes previously unmeasured nuclei, namely ¹⁰B and ¹¹B, and will therefore provide a comparison of nuclei which differ by just one nucleon. This will facilitate the extraction of the nucleon structure function as modified by the nuclear medium. Status of the target-ratio analysis of recently acquired E12-10-008 data will be discussed.

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Collaboration name

Hall-C Commissioning Experiments Run Group

Funding source

DE-AC05-06OR23177

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Session Classification: Nuclear Forces and Structure, NN Correlations, and Medium Effects

Track Classification: NFS