

Abstract Submitted
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Study of Three-Nucleon Short Range Correlations in $x > 2$ regime

ZHIHONG YE, University of Virginia, JOHN ARRINGTON, Argonne National Lab, DONAL DAY, University of Virginia, DOUGLAS HIGINBOTHAM, Thomas Jefferson Lab, E08014 & HALL-A COLLABORATION — Inclusive electron scattering is a powerful tool to study nuclear short range correlations (SRCs). Recent experiments in Jefferson Lab have established their presence of substantial 2N correlations by taking the ratio of the cross sections of heavy to light nuclei in the region of $1 < x < 2$. However the experimental situation is much more uncertain with regard to three nucleon SRCs (3N-SRCs) which may dominate for $x > 2$. Jefferson Lab experiment E08014 experiment ran in April and May of 2011 in Hall-A and was designed to study the onset of 3N-SRCs with better accuracy and, for the first time, to examine the isospin dependence of SRCs in inclusive scattering. The experiment will be briefly described followed by a discussion of the data analysis and the presentation of any preliminary data.

Zhihong Ye
University of Virginia

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