Abstract Submitted
for the APR15 Meeting of
The American Physical Society

A precision measurement of the isospin dependence in the 2N and 3N short range correlation regions from the mirror nuclei $3H$ and $3He$ DIEN NGUYEN, None, UNIVERSITY OF VIRGINIA COLLABORATION, JEFFERSON LAB COLLABORATION — Short Range Correlations (SRCs) have been recognized as responsible for the high momentum tail of the nucleon momentum distribution. Several experiments at Jefferson Lab have exploited inclusive scattering to study these SRCs. In an upcoming tritium experiment (E12-11-112) at Jefferson Lab, we will perform a precision test of the isospin dependence of two- nucleon short range correlations using mirror nuclei: $3He$ and $3H$. The data taken at $x > 2$ will also be used to study three-nucleon short range correlations. In this talk we will briefly present the motivation for this experiment as well as some of the experimental details and the expected results. In addition, we will discuss a method to check the absolute target thickness of both targets through elastic scattering.

Dien Nguyen
None

Date submitted: 07 Jan 2015 Electronic form version 1.4