

Abstract Submitted
for the APR07 Meeting of
The American Physical Society

Short Range correlations in ${}^3\text{He}(e,e'pp)n$ HOVHANNES BAGHDASARYAN, ODU — Nucleon-Nucleon (NN) Short Range Correlations (SRC) represent a valuable part of the nuclear wave function. The better knowledge of SRC will give us better understanding of nuclear matter and nuclear interactions in extreme conditions. A study of the effects of short-range correlations over the ${}^3\text{He}(e,e'pp)n$ reaction measured at Jefferson Lab is presented. Two different approaches selected to investigate correlation effect in nuclear matter. Looking at the reaction, we can extract the kinematic regions where the NN SRC is an almost non interacting spectator pair. We have measured the relative and total momentum distributions of spectator (pp) and (pn) pairs up to 600 MeV/c. We will compare results with various theories.

Hovhannes Baghdasaryan
ODU

Date submitted: 02 Jan 2007

Electronic form version 1.4