

Abstract Submitted
for the DNP15 Meeting of
The American Physical Society

Deep inelastic scattering investigations with kinematic variables and Monte Carlo simulations JASON BANE, University of Tennessee — Physicists use scattering experiments to gain a greater understanding of a nucleon's behavior in the nucleus and how the nucleons and the underlying quark distribution are modified by the nuclear medium. In the last few years, there have been a large number of publications that focus on the possible connection between the deep inelastic EMC effect and the $x > 1$ two-nucleon correlation plateaus. We will show how using different variables may help understand the connection between these two regions as well as discussing a Monte Carlo technique to convolute the nucleon's momentum distribution with deep inelastic nucleon cross sections.

Jason Bane
University of Tennessee

Date submitted: 30 Jun 2015

Electronic form version 1.4