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Searching for the Impetus of the EMC Effect. JASON BANE, Univ of Tennessee, Knoxville, DOUG HIGINBOTHAM, Jefferson Lab, NADIA FOMIN, Univ of Tennessee, Knoxville — 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 greater than 1 two-nucleon correlation plateaus. We will investigate how the momentum distribution of a target nucleon effects deep inelastic scattering results using a Monte Carlo technique. This may help create a better understanding of the connection between the EMC effect and the two-nucleon correlation plateaus.

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