

Abstract Submitted
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Quasielastic to Deep Inelastic Scattering: Results from Jefferson Lab E02-019 DONAL DAY, University of Virginia, NADIA FOMIN, University of Tennessee, JOHN ARRINGTON, Argonne National Lab, E02019 COLLABORATION — Jefferson Lab experiment E02-019 measured inclusive cross-sections at momentum transfers from 2.5 to 9 GeV/c² for several light and heavy nuclei. The transition from quasielastic to deep inelastic scattering is observed. We have applied target mass corrections to the extracted F_2 structure functions for all nuclei and obtained the structure function fall-off at $x > 1$, which has previously only been determined for a limited range in x and for much larger values of Q^2 . The analysis procedure will be detailed and results presented. We have also obtained measurements of 2N correlations in nuclei via cross section ratios to deuterium. Additionally, ratios to ${}^3\text{He}$ will be presented, measured at higher Q^2 values than the most recent results from CLAS. Plans for future measurements will briefly be discussed.

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