

Abstract Submitted
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Comparison of the F2 Structure Function in Iron as Measured by Charged Lepton and Neutrino Probes NARBE KALANTARIANS, Virginia Union University, ERIC CHRISTY, Hampton University, Thomas Jefferson National Accelerator Facility, CYNTHIA KEPPEL, Thomas Jefferson National Accelerator Facility — World data for the F2 structure function for Iron, as measured by multiple charged lepton and neutrino deep inelastic scattering experiments, are compared. Data obtained from charged lepton and neutrino scattering at larger values of x are in remarkably good agreement with a simple invocation of the 18/5 rule, while a discrepancy in the behavior of the data obtained from the different probes well beyond the data uncertainties is observed in the shadowing/anti-shadowing transition region where the Bjorken scaling variable x is less than 0.15. The data are compared to theoretical calculations. Details and results of the data comparison will be presented, along with future plans.

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