SES16-2016-000298

Abstract for an Invited Paper
for the SES16 Meeting of
the American Physical Society

Large-x Structure Function Data from Jefferson Lab

PETER MONAGHAN, Christopher Newport Univ

An overview of the structure function data taken at Jefferson Lab (JLab), which is predominently in the large Bjorken-x region, $0.3 < x_B < 0.7$, is presented. This region of phase-space has been previously somewhat unexplored. Including the JLab data along with available world data has allowed an extraction of the lowest three moments of the proton structure function. Comparison of this analysis with several Parton Distribution Function (PDF) parametrizations is discussed. Structure function ratio data from the BoNuS experiment at JLab has also had an impact in verifying the methods used in producing PDFs from global fits to world data by the CTEQ-JLab (CJ) collaboration. The use of the JLab data in the CJ effort will be described in more detail.