Abstract Submitted
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F2d/F2p structure function ratio at large-x[1] GABRIEL NICULESCU, IOANA NICULESCU, James Madison University — Nucleon structure functions are essential tools in studying the partonic dynamics within the nucleon. Jefferson Lab experiment E12-10-002 measured data covering the large-x kinematic region where parton distributions are hard to extract both experimentally and theoretically (higher twist and target mass effects and, often for the neutron, deuteron nuclear corrections). These high precision data, facilitated by the new Jefferson Lab 12 GeV electron beam energy and Hall C equipment, will provide constraints for theoretical models and should help with global fitting efforts. As it avoids or at least minimizes the influence of several experimental and theoretical effects the F2d/F2p ratio was extracted from the E12-10-002 data and will be presented.

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Gabriel Niculescu
James Madison University

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