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**Data consistency checks for Jefferson Lab Experiment E00-002**

JOHN TELFEYAN, GABRIEL NICULESCU, IOANA NICULESCU, James Madison University, EXPERIMENT E00-002 COLLABORATION — Jefferson Lab experiment E00-002 aims to measure inclusive electron-proton and electron-deuteron scattering cross section at low  $Q^2$  and moderately low Bjorken  $x$ . Data in this kinematic region will further our understanding of the transition between the perturbative and non-perturbative regimes of Quantum Chromodynamics (QCD). As part of the data analysis effort underway at James Madison University (JMU) a comprehensive set of checks and tests was implemented. These tests ensure the quality and consistency of the experimental data, as well as providing, where appropriate, correction factors between the experimental apparatus as used and its idealized computer-simulated representation. This contribution will outline this testing procedure as implemented in the JMU analysis, highlighting the most important features/results.

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