

Abstract Submitted
for the APR17 Meeting of
The American Physical Society

Measurement of the elastic e-p cross-sections at $Q^2 = 0.66, 1.10, 1.51$ and 1.65 GeV^2 YANG WANG, William Mary Coll, GMP COLLABORATION COLLABORATION — The Gmp experiment aims to improve the precision on the elastic e-p cross-sections measurement down to below 2% with high momentum transfers Q^2 up to 14 GeV^2 . The measurement will be critically important to be the benchmark for future cross section measurement at high Q^2 and will be very useful to extract the proton's magnetic form factor. In the fall 2015, the Gmp collaboration took data at four Q^2 points of 0.66, 1.10, 1.51 and 1.65 GeV^2 and in the fall 2016, we plan to take data with Q^2 up to 12 GeV^2 . The cross section measurements at the four low Q^2 points will provide cross check with the existing world data. In this talk, the cross section analysis at the four low Q^2 points will be presented.

Yang Wang
William
Mary Coll

Date submitted: 30 Sep 2016

Electronic form version 1.4