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 from 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.