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Omega Meson electroproduction analysis

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This work is part of a program based on the electro-production of baryonic resonances. In part, the physics goals are to assess the relevant degrees of freedom appropriate to describe high momentum transfer exclusive reactions. In particular, the interest is in the region where the four – momentum transfer squared, $t = Q^2$ varies beyond the validity of the constituent quark model (CQM), towards the region where one may search for evidence of pQCD. In this work, the differential cross section for $p(e,e'\omega)p$ has been studied at a $Q^2 \approx 5.5$ GeV. We present further analysis including comparison with other data. A significant divergence from an extrapolation of previous data is obvious.

**Level (Hons, MSc,
 PhD, other)?**

MSc

**Consider for a student
 award (Yes / No)?**

Yes

**Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?**

Yes

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