

CEBAF Proposal

Deformation of the Nucleon

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Abstract

We propose to do an inclusive measurement $\vec{H}(\vec{e}, e')$ in the region of the delta resonance . We plan to separate the longitudinal piece of the cross section via a measurement of the asymmetry using polarized beam and target. The longitudinal cross section of the delta resonance is sensitive to L=2 amplitudes which can be related to the deformation of the nucleon wave function suggested by bag models.