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The Impact of the “Flexible Spectator Model” GPDs on Spin Observables in Deeply Virtual Electron and Neutrino Production of Hadrons

Chiral Even and Odd Generalized Parton Distributions (GPDs) for Valence Quarks were obtained in a “flexible” spectator model. These were constrained by nucleon form factors, PDFs, earlier Deeply Virtual Compton Scattering data and electroproduction of pion data. A 3-d picture of the quark distributions within the nucleon emerges. The model has been extended to include sea quarks and gluon distributions in order to cover experimentally attainable kinematics. Broad ranges of measured and measurable observables in deeply virtual processes - cross sections and polarization asymmetries for both electroproduction and neutrino-production - are compared with existing data. Predictions for future data are presented.

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