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Chiral Odd GPDs

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The 3-dimensional structure of the nucleon in QCD involves the specification of quark and gluon momenta and spin distributions. Generalized parton distributions (GPDs) encode the distributions in terms of fractional longitudinal and transverse momenta, spin helicity and transversity. The transversity transfer from the nucleon to its constituents in electroproduction is measured via chiral odd interactions between the beam and the partons, the transversity GPDs. These are most directly determined in cross sections and asymmetries for exclusive electroproduction of pseudoscalar mesons, particularly pions and eta mesons. Predictions from a successful “Flexible Model” for these GPDs will be presented and compared with some of the extensive data on meson electroproduction.

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