

Inclusive and Exclusive Spin Structure Measurements in the Resonance Region

G.E. Dodge (CLAS Collaboration)
Old Dominion University

A program of spin structure function measurements is underway in Jefferson Lab's Hall B. We use polarized electrons incident on polarized NH₃ and ND₃ targets to study proton and deuteron spin observables in and above the resonance region. Results will be presented from the first set of data taken in 1998 with beam energies of 2.5 and 4.2 GeV. Of particular interest is the integral $\int g_1(Q^2, x) dx$ which is constrained by the GDH sum rule at the real photon point and by deep inelastic scattering results at high Q^2 . We will present results for g_1 and for the integral. We have also determined the double polarization asymmetry for exclusive pion production from the proton and deuteron, which is sensitive to the spin structure of the nucleon resonances.