

Proton and Deuteron Spin Structure Function Measurements in the Resonance Region

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The RSS collaboration has measured the spin structure functions of the proton and the deuteron at Jefferson Lab using the Hall C HMS spectrometer, a polarized electron beam and a polarized solid target. The asymmetries $A_{||}$ and A_{\perp} were measured in the region of the nucleon resonances ($0.82 \text{ GeV} < W < 1.98 \text{ GeV}$) at an average four momentum transfer of $Q^2 = 1.3 \text{ GeV}^2$. The extracted spin structure functions and their kinematic dependence will make a significant contribution in the study of higher-twist effects and polarized duality tests. A description of the experiment and the latest findings of the analysis will be presented.