DNP13-2013-020003

Abstract for an Invited Paper
for the DNP13 Meeting of
the American Physical Society

Nucleon Spin – Results from Jefferson Lab[1]

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Over thirty years after the first experiments probed the spin structure of the nucleon, the pace of experimental and theoretical exploration of this subject keeps increasing. During its fifteen-year run with beam energies up to 6 GeV, Jefferson Lab has made many important contributions to this field - from measurements of the inclusive spin structure functions of the proton and the neutron over a wide kinematic range to seminal experiments accessing the three-dimensional nucleon spin structure through Generalized Parton Distributions and Transverse Momentum Dependent structure functions. An even brighter future lies ahead - after the 12 GeV upgrade, Jefferson Lab will completely map the spin-dependent parton distribution functions for all quark flavors in the valence region. In this talk, I will present an overview of this program, with special emphasis on recent and forthcoming results from the 6 GeV run and a glimpse of the future program with 12 GeV.

[1]Supported by DOE grant DE-FG02-96ER40960.