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Jefferson Lab Spin Structure Measurements at Low Q^2

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The latest generation of electron scattering experiments at Jefferson Lab endeavor to completely describe the nucleon in terms of the fundamental degrees of freedom of Quantum Chromodynamics. A critical component of this program is to understand how the spin of the nucleon arises from its sub-structure, and what role spin plays in the structure of more complex nuclear systems. The Jefferson Lab spin-dependent data allows tests of effective theories of QCD, provides constraints on bound state Q.E.D. calculations, and can provide unique tests of novel physics, such as searches for hidden color components of nuclear wavefunctions.

We'll discuss results from the Jefferson Lab spin structure program, and provide a perspective on upcoming spin-dependent experiments at the newly upgraded 12 GeV continuous electron beam accelerator facility.

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