

New Perspectives



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SpinQuest in 10 Minutes

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The SpinQuest experiment (E1039) will measure the azimuthal asymmetry of dimuon pair production via scattering of unpolarized protons from transversely polarized NH_3 and ND_3 targets. The asymmetry will be measured for both Drell-Yan scattering and J/ψ production. By measuring the asymmetry for the Drell-Yan process, it is possible to extract the Sivers Function for the light anti-quarks in the nucleon. A non-zero asymmetry would be “smoking gun” evidence for orbital angular momentum of the light sea-quarks: a possible contributor to the proton’s spin. The status and plans for the experiment will also be discussed.

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