

New Perspectives



Contribution ID: 35

Type: **not specified**

SpinQuest in 10 Minutes

Thursday, 16 June 2022 13:00 (15 minutes)

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.

Primary author: CONOVER, Arthur (University of Virginia)

Presenter: CONOVER, Arthur (University of Virginia)

Session Classification: Fixed Target