

Fermilab Polarized Target Drell-Yan Experiment

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The combination of high luminosity and large kinematic coverage makes SeaQuest at Fermilab an optimal facility to measure single spin asymmetries, with high precision, in polarized Drell-Yan scattering. Scattering the unpolarized beam at Fermilab from the UVA/LANL polarized target will allow isolation of the dynamics of sea quarks in the polarized nucleon. This will allow for the first time a measurement of the sign, magnitude, and shape of the Sivers function with sufficient precision to verify fundamental prediction of QCD. An overview of the SeaQuest setup for this experiment (E1039) with a focus on the polarized target system used in dynamic nuclear polarization is given.

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