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A 3D Liquid Scintillator Neutrino Detector¹ DANIEL PASSMORE, University of Tennessee, Knoxville, REX TAYLOE, Indiana University, Bloomington — The Fine-grained Intense Neutrino Scattering Scintillator Experiment (FINE SSE) is a proposed liquid scintillator detector that will measure track coordinates in 3D using WLS optical fibers. FINE SSE proposes to use high intensity charged and neutral current neutrino scattering to precisely measure the strange quark spin component, Δs , of the nucleon. A FINE SSE 1D prototype was measured using the 200MeV proton beam at the Indiana University Cyclotron Facility (IUCF). Results for position and angular resolution of charged particle tracks measured in this device will be presented.

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Prefer Oral Session
 Prefer Poster Session

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