

MicroBooNE: A New Liquid Argon Time Projection Chamber Experiment

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Liquid Argon Time Projection Chamber (LAr TPC) detectors are well suited to study neutrino interactions, and are an intriguing option for future massive detectors capable of measuring the parameters that characterize neutrino oscillations. These detectors combine fine-grained tracking with calorimetry, allowing for excellent imaging and particle identification ability. In this talk the details of the MicroBooNE experiment, a 175 ton LAr TPC which will be exposed to Fermilab's Booster neutrino beamline starting in 2011, will be presented. The ability of MicroBooNE to differentiate electrons from photons gives the experiment unique capabilities in low energy neutrino interaction measurements.

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