

Analysis and Systematic Uncertainty Experience from MicroBooNE

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The MicroBooNE detector is a Liquid Argon Time Projection Chamber (LArTPC) with an 85-ton active mass, situated at Fermilab in the Booster Neutrino Beam and designed to study short-baseline neutrino physics. Its main physics goals include the investigation of the anomalous excess of electron-like events observed in MiniBooNE, the measurement of low-energy, neutrino-argon cross-sections and the development of liquid argon technology for the future experiments of the Short-Baseline Neutrino (SBN) and DUNE physics programs. This talk will review the experience gained by MicroBooNE in producing physics results with a LArTPC detector, recent results and the strategy for estimating systematic uncertainties.

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