Contribution ID: **69** Type: **not specified**

Recent results from MicroBooNE and status of the Short-Baseline Neutrino program

Thursday, May 16, 2024 9:30 AM (30 minutes)

The MicroBooNE liquid argon time projection chamber (LArTPC) operated in the BNB and NuMI neutrino beamlines as part of the short baseline neutrino (SBN) program at Fermilab from 2015-2021. The experiment collected the world's largest neutrino-argon scattering data set, which it has used to publish over 60 results covering its primary physics goals: (1) investigate the MiniBooNE low-energy excess and search for beyond-standard-model physics, (2) study neutrino-argon interactions, and (3) develop novel hardware and software for LArTPCs. This talk provides an overview of recent results from the MicroBooNE experiment, including a search for sterile neutrinos under a 3+1 oscillation model, heavy neutral lepton and dark-trident searches, and several inclusive and exclusive neutrino-argon cross section measurements. The talk concludes with an update on the status of the ICARUS and SBND detectors in the SBN program.

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Session Classification: Plenary: Advanced Materials, Geology, Advanced Data Analysis

Track Classification: Neutrino Oscillations