

# The MicroBooNE Liquid Argon Time-Projection Chamber Virtual Reality Demonstrator

*Tuesday, July 3, 2018 1:15 PM (1 hour)*

The MicroBooNE experiment is the largest Liquid Argon Time-Projection Chamber (TPC) in North America and has been taking data in the Booster Neutrino Beam for the last 20 months. The experiment is searching for evidence of a new fourth neutrino in muon-neutrino oscillations along with studying neutrino interactions in argon atoms. The DUNE experiment has chosen Liquid Argon TPCs to study long-baseline neutrino oscillations in an effort to understand the origin of neutrino mass and the matter-antimatter asymmetry present throughout the universe. The studies conducted by the MicroBooNE experiment will help to define the performance and sensitivity of the DUNE experiment. The demo will allow users to step inside the MicroBooNE detector and witness simulated neutrino interactions using the Oculus Rift equipment and software.

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