



Contribution ID: 208

Type: **Poster**

Muon Neutrino Disappearance with MicroBooNE and LAr1-ND

LAr1-ND (the Liquid Argon Near Detector) is a proposed near detector for the short-baseline neutrino oscillation program on the Fermilab Booster Neutrino Beam. Located 100m from the target, LAr1-ND will run concurrent with the MicroBooNE detector and will provide a detailed characterization of the intrinsic beam content, allowing for a near-to-far extrapolation between the two detectors and precision measurements of neutrino appearance and disappearance. We will present the expected sensitivities for the observation of eV mass-scale sterile neutrinos through the disappearance of muon neutrinos for this two-detector setup.

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Track Classification: Short Baseline Oscillations / Sterile Neutrinos / Non-standard Oscillations