

## MicroBooNE and Liquid Argon Time Projection Chambers (TPCs)

David Kaleko\* On behalf of the MicroBooNE Collaboration

\*Columbia University

**Abstract:** The MicroBooNE experiment is a 170-ton Liquid Argon Time Projection Chamber (LArTPC) that will begin running on-axis in the Booster Neutrino Beamline at Fermilab in 2013. LArTPC detectors combine fine-grained tracking with calorimetry, allowing for excellent imaging and particle identification ability. The primary physics goal of MicroBooNE is to explore the low energy excess of events seen by MiniBooNE, and it is the next step in the U.S. R&D program to make LArTPC's a viable option for future large neutrino detectors.



