



Contribution ID: 116

Type: **Poster**

## **Charged-Current Electron Neutrino measurement with the MicroBooNE detector**

MicroBooNE is the first phase of Fermilab's Short Baseline Neutrino (SBN) Liquid Argon Time Projection Chamber (LArTPC) programme. This poster presents the characterisation of electron neutrinos in a muon neutrino beam with the LArTPC detector technology. The Booster Neutrino Beam has an energy peaking around 1 GeV and an electron content of approximately 0.5%. The analysis investigates electrons produced in charged-current electron-neutrino interactions. We measure the kinematic variables of the electrons and compare them to predictions obtained from simulations. Most of the systematic uncertainties are constrained with a data-driven method using a sample of charged-current muon neutrino events. The measurement of the lepton kinematics of electron neutrinos originating from the Booster Neutrino Beam is a crucial component towards understanding the nature of the observed excess of low-energy electromagnetic-like events at MiniBooNE.

### **Mini-abstract**

MicroBooNE measures lepton kinematics from charged-current electron-neutrino interactions in the BNB

### **Experiment/Collaboration**

MicroBooNE

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**Session Classification:** Poster session 4