Contribution ID: **286** Type: **Poster accelerator**

Electron-neutrino reconstruction in MicrobooNE using the Pandora reconstruction framework

MicroBooNE (the Micro Booster Neutrino Experiment) is a liquid argon time-projection chamber experiment designed for short-baseline neutrino physics, currently running at Fermilab. It aims to address the anomalous excess of low-energy events observed by the previous MiniBooNE experiment. In this poster we demonstrate the ability of the experiment to reconstruct electron neutrino-like events in the detector, using the Pandora reconstruction framework. In particular, we present a fully automated event selection algorithm that can identify charged-current electron neutrino event candidates with no pions and at least one proton in the final state.

Authorship annotation

for the MicroBooNE collaboration

Session and Location

Wednesday Session, Poster Wall #70 (Auditorium Gallery Right)

Poster included in proceedings:

yes

Primary author: Mr SOLETI, Stefano Roberto (Harvard University)

Presenter: Mr SOLETI, Stefano Roberto (Harvard University)

Track Classification: Poster (participating in poster prize competition)