

Abstract Submitted
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A Charge Calibrated Track Reconstruction for the Low Energy Excess Search in MicroBooNE.¹ ELIZABETH HALL, Massachusetts Institute of Technology MIT, MICROBOONE COLLABORATION COLLABORATION — The MicroBooNE detector is a Liquid Argon Time Projection Chamber (LArTPC) located on the Booster Neutrino Beam (BNB) at Fermi National Accelerator Laboratory. One of the primary goals of the experiment is to study the low-energy excess of electron neutrino like events seen by MiniBooNE. This talk will discuss the deep-learning-based search for low-energy electron neutrino interactions within MicroBooNE. I will focus on the track reconstruction algorithm with the addition of charge and energy calibration and its effect on particle identification.

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