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The MicroBooNE Experiment

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MicroBooNE is an 85 ton active-mass liquid argon time projection chamber located in the Booster Neutrino Beam at Fermilab, at a baseline of 470 m. The primary aims of MicroBooNE are to investigate the low-energy excess observed by the MiniBooNE experiment and to make precision measurements of neutrino interactions on argon. In addition, important lessons are being learned about the performance and behavior of a large liquid-argon detector, and considerable developments have been made to the reconstruction and pattern-recognition algorithms needed to analyze the data. This talk will give an overview of the MicroBooNE experiment, present highlights of our recent results, and provide a significant update on progress towards a low-energy excess result.

Collaboration name

MicroBooNE

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