

XX International Workshop on Neutrino Telescopes



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The MicroBooNE neutrino cross section program

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The MicroBooNE liquid argon time projection chamber (LArTPC) experiment operated in the Fermilab Booster Neutrino and Neutrinos at the Main Injector beams from 2015-2021. Among the major physics goals of the experiment is a detailed investigation of neutrino-nucleus interactions. MicroBooNE currently possesses the world's largest neutrino-argon scattering data set, and more than 30 ongoing analyses are studying a wide variety of interaction modes. This talk provides an overview of MicroBooNE's neutrino cross-section physics program, including investigations of exclusive pion final states and rare processes, novel cross section extraction methods, and measurements with both muon and electron neutrinos from the BNB and NuMI beamlines.

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