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Measurement of low- Q^2 protons from neutral current events in argon with MicroBooNE

The MicroBooNE experiment is an 85 ton active volume liquid-argon time projection chamber located at the Fermilab Booster Neutrino Beamline. MicroBooNE's ability to detect low-energy protons allows us to study single-proton events with a four-momentum transfer squared Q^2 as low as 0.10 GeV^2 . We present an analysis with a signal of one proton and no other particles (NC1p) in the final state. We report the progress toward the flux-averaged NC1p differential cross section for neutrinos scattering on argon as a function of Q^2 using a subset of MicroBooNE's data.

Mini-abstract

Measurement of low- Q^2 protons from neutral current events in argon with MicroBooNE

Experiment/Collaboration

MicroBooNE

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