

Neutrino-Nucleus Interaction Physics with the Most Recent MINERvA Low-Energy Beam Data

Tuesday 28 July 2020 17:30 (15 minutes)

MINERvA at FNAL is an experiment dedicated to the study of neutrino-nucleus interaction physics. Its goal is to provide constraints on nuclear effects that are crucial for present and future neutrino oscillation measurements, and to illustrate the interplay between hadronic and nuclear physics at the few-GeV regime. As the analysis of the Low-Energy data—the beam flux peaks at about 3 GeV with most of the rate between 1-6 GeV—is coming to a conclusion, nuclear effects are shown to be a complex phenomenon which challenges many of the popular theoretical descriptions. In this talk, a summary of the most recent MINERvA Low-Energy Beam results will be presented, alongside with discussions on their implication for future neutrino oscillation measurements.

Secondary track (number)

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