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Coherent Charged Pion Production at MINERvA

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Neutrino-induced coherent charged pion production on nuclei is a rare, inelastic interaction that produces a charged lepton and pion in the forward direction while leaving the nucleus intact. Understanding this process at few GeV neutrino energy is important for precision measurements of neutrino oscillation parameters. MINERvA has measured muon neutrino and antineutrino coherent charged pion production on carbon from neutrino energies of 1.5 to 20 GeV. The measured kinematics disagree significantly with the predictions of the model employed by current oscillation experiments.

Oral or Poster Presentation

Oral

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