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Recent results from MINERνA

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The MINERνA experiment makes precision neutrino-nucleus cross section measurements with neutrinos and anti-neutrinos from the Fermilab NuMI beamline. These measurements probe both nuclear effects which modify the initial neutrino-nucleon cross sections via nucleon-nucleon correlations and propagation of particles through the nuclear medium. Updates to previous charge-current cross sections as a result of an improved flux prediction will be presented. In addition, results from an inclusive sample measuring a proxy for transferred energy versus three-momentum transfer will be shown. A direct measurement of electron neutrino induced charge current quasi elastic scattering, an important neutrino oscillation signal channel, will be presented. Finally, cross section results from resonant pion production will be presented.

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Classification de Session: Neutrinos

Classification de thématique: Experiment