

Quasi-Elastic Neutrino and Anti-Neutrino Scattering in MINERvA

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Quasi-elastic neutrino scattering is a valuable tool for determining the neutrino beam energy in oscillation experiments and provides a means of studying multi-nucleon final states. Disagreements exist between measurements for neutrino energies below 1 GeV on scintillator and those at higher energies. MINERvA (Main INjector Experiment for ν -A) is a neutrino scattering experiment in the NuMI high intensity neutrino beam at Fermilab. MINERvA provides a bridge between the two regimes. We will present our first results for charged current quasi-elastic scattering for both neutrino and anti-neutrinos on scintillator.

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