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Neutrino – Nucleus Interaction Measurements at MINERvA

Thursday, July 23, 2015 12:00 PM (15 minutes)

MINERvA (Main INjector ExpeRiment v-A) is a neutrino scattering experiment using the high intensity neutrino beam produced by the Main Injector (NuMI) at Fermilab. MINERvA is making precision cross-section measurements of neutrino interactions with various nuclear targets (C, CH, Fe, Pb) at low and medium energy to study nuclear medium effects with a weak probe.

This talk will present MINERvA's measurements of charged current (CC) quasi-elastic and CC pion production cross sections with neutrino and antineutrino beams, and measurements of ratios of neutrino CC scattering cross sections on different nuclei. Various methods to estimate the neutrino flux will be also discussed. Future MINERvA measurements will also be presented.

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