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Neutrino Nucleus DIS at MINERvA

Tuesday, 14 June 2016 09:15 (15 minutes)

MINERvA is a dedicated neutrino scattering experiment that employs the high intensity Fermilab NuMI neutrino beam to measure neutrino interaction cross sections on multiple targets to high precision. This talk will concentrate on the methods used to measure neutrino-nucleus charged-current deep inelastic scattering (DIS), which is an excellent probe to study nuclear and hadronic structure. The measurement uses an identical neutrino beam incident on targets of carbon, iron, lead, and plastic, and the DIS cross section will be presented as ratios of C, Fe, and Pb, to CH.

Primary author: WOSPAKRIK, Marianette (University of Florida)

Presenter: WOSPAKRIK, Marianette (University of Florida)

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