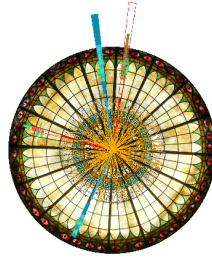


DIS 2015

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Low Energy Beam Neutrino Nucleus Deep Inelastic Scattering at MINERvA

Tuesday 28 April 2015 16:15 (25 minutes)

Neutrinos provide a unique probe of nuclear structure as they interact weakly and couple with partons via the axial as well as the vector current. The MINERvA experiment takes advantage of the Fermilab NuMI beam line and multiple nuclear targets to study neutrino + nucleus interactions. This talk presents preliminary results of MINERvA's DIS sample in the neutrino energy (E_ν) range of 5 to 50 GeV, and a mean momentum-transfer squared (Q^2) of 4.0 (GeV/c)². Results will be presented as ratios of C, Fe and Pb to CH. The ratio of the total cross sections as a function of E_ν and differential cross sections as a function of Bjorken-x will be presented.

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Session Classification: WG1 Structure Functions and Parton Densities

Track Classification: WG1 Structure Functions and Parton Densities