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Charged Pion Cross section measurement at MINERvA

The charged pion production by neutrinos interacting on heavy nuclei is of great interest to high energy and nuclear physics and increasingly important for neutrino oscillation experiments. MINERvA is a few GeV neutrino-nucleus scattering experiment that employs a fine grained detector running in the NuMI neutrino beam at Fermilab. We present a measurement of the differential cross-sections for muon-neutrino charged current charged pion production in the MINERvA active plastic target.

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