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Charged-current inclusive scattering in MINERvA

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MINERvA is a few GeV neutrino-nucleus scattering experiment located in the high intensity NuMI beam line at Fermilab. MINERvA aims to make precision measurements of low energy neutrino interactions, both in support of neutrino oscillation experiments and as a pure weak probe of the nuclear medium. The experiment employs a fine-grained, high resolution detector. The active region is composed of plastic scintillator with additional targets of helium, carbon, iron, lead and water placed upstream of the active region. We present preliminary results for inclusive charged current cross sections on iron, lead and plastic targets.

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