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Charged Pion Production in MINERvA

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The new class of long baseline neutrino oscillation experiments (NOvA, DUNE) use nuclear targets, and thus the success of their precision programs rely on thorough knowledge of neutrino-nucleus interactions. Pion production is the dominant reaction channel at the energies of these experiments, but nuclear final state interactions (FSIs) for pions are still not well understood. Recent charged pion production results have exhibited significant disagreements with each other and with FSI generator predictions. The analysis of muon neutrino charged current charged pion production in the MINERvA detector is presented.

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