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Constraining single pion production in the NEUT generator

Neutrino-induced pion production is a major background in neutrino oscillation experiments, both in the appearance and disappearance channels, and so must be reliably modeled. We have updated the pion production model used in the NEUT generator based on available neutrino-nucleon data along with more recent measurements of pion production in scattering of neutrinos from medium-A nuclei, producing a set of model parameters and uncertainties suitable for use in T2K oscillation analyses.

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