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Toward Construction of the Unified Lepton-Nucleus Interaction Model from a Few Hundred MeV to GeV Region

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An accurate understanding of the neutrino nucleus reactions is of great importance owing to the increasing precision of the neutrino oscillation experiments. The purpose of our study is to develop a reaction model for the lepton nucleus reaction from a few hundred MeV to a few GeV. We report on our analysis of the lepton nucleus reaction with the updated resonance model and the nuclear PDF in the DIS region.

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