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Neutrino Nucleon Cross Sections at High Energies

We present a new calculation of the neutrino nucleon cross sections for charged and neutral currents using recent PDF fits that incorporate LHC data. We have performed a simple LO calculation as well as full NLO calculation, and further include corrections important at $O(1\text{GeV})$ energies such as lepton mass suppression for ν_τ and target mass corrections (TMC).

Primary authors: Mr ARGÜELLES, Carlos (University of Wisconsin-Madison, WIPAC); Mr KROLL, Mike (Ruhr-Uni Bochum)

Presenter: Mr KROLL, Mike (Ruhr-Uni Bochum)

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