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Consistency of neutrino DIS and the present parton distribution functions.

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We study the nuclear effects in the neutrino\antineutrino-nucleon deep inelastic scattering (DIS) by comparing the NuTeV, CDHSW, and CHORUS cross-sections from Iron and Lead targets to the predictions derived from the latest parton distribution functions (PDFs). The nuclear modifications found seem to display agreement with those in charged lepton DIS. Our study thus lends support to the consistency of employing neutrino data in global fits of PDFs.

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