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Re-analysis of neutrino DIS data in the global nuclear PDFs

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In the global analysis of nuclear Parton Distribution Functions (nPDFs), one of the major sources of debate is how to include the neutrino Deep Inelastic Scattering (DIS) data. The controversy comes from the precise NuTeV neutrino DIS data which might indicate an incompatibility with neutral current charged lepton DIS data. The compatibility of NuTeV data was studied independently by several PDF-fitting groups, and the results are without consensus. In this work, we re-examine the neutrino DIS data with special emphasis on the normalization error in the NuTeV data. Precise understanding of the neutrino DIS will help determine the strange content of the proton.

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