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[372] Neutrino cross section measurements at the T2K experiment

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The T2K experiment is a long-baseline neutrino oscillation experiment currently taking data in Japan. By observing electron neutrino appearance and muon neutrino disappearance in an initially almost pure muon neutrino beam, the experiment aims at precisely measuring the parameters ruling the oscillation mechanism. In order to perform these measurements one must determine with high accuracy the expected neutrinos flux at the far detector from the very small rate of interactions observed at the near detector. A precise understanding of the neutrino interaction cross sections is therefore crucial for measuring oscillation phenomena. This talk will give an overview of the T2K experiment and the status of neutrino cross section measurements.

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