

Neutrino cross sections in GeV region

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Modern long-baseline neutrino experiments, aiming at precise measurements of the neutrino oscillation parameters require a thorough understanding of neutrino cross sections in medium-energy region. An overview of neutrino-nucleon and neutrino-nucleus cross sections in a few GeV region is presented. Cross section on a nucleon target is expressed as a sum of quasi-elastic, resonance and DIS contributions. For nuclear targets, nuclear corrections are shown to be not negligible, several approaches to estimate them are surveyed.

Author: LALAKULICH, Olga

Presenter: LALAKULICH, Olga

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