

Physics of Neutrinos Interaction around 1-10 GeV

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Neutrino oscillation physics has been entered in the precision era. In this context accelerator-based neutrino experiments need a reduction of systematic errors to the level of a few percent. Today one of the most important sources of systematic errors are neutrino-nucleus cross sections which in the hundreds-MeV to few-GeV energy region are known with a precision not exceeding 10-20%. In this talk, I will review the main processes of neutrino-nucleus interactions in this energy region, and describe state-of-the-art theoretical work and open questions.

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