

Physics of ultra-high energy neutrinos

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Ultrahigh energy (UHE) neutrinos may serve as important messengers that give us useful information about the origin of the Universe. Knowledge of UHE neutrino interaction cross sections is a necessary ingredient in any UHE neutrino measurement. A study of UHE neutrino-nucleon cross sections would also allow us to explore strong interactions at incredibly high energies. In this talk, I review our current knowledge of UHE neutrino cross sections and discuss some new physics with UHE neutrinos.

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