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Neutrino Oscillations at low energy long baseline experiments in the presence of nonstandard interactions and parameter degeneracy

We discuss the analytical expression of the oscillation probabilities at low energy long baseline experiments, such as T2HK and T2HKK in the presence of nonstandard interactions (NSIs). We show that these experiments are advantageous to explore the NSI parameters (ϵ_D, ϵ_N), which were suggested to be nonvanishing to account for the discrepancy between the solar neutrino and KamLAND data. We also show that, when the NSI parameters are small, parameter degeneracy in the CP phase δ, ϵ_D and ϵ_N can be resolved by combining data of the T2HK and T2HKK experiments.

Mini-abstract

Nu Oscillations at low energy LBL experiments in the presence of NSI and parameter degeneracy

Primary author: YASUDA, Osamu (Tokyo Metropolitan University)

Presenter: YASUDA, Osamu (Tokyo Metropolitan University)

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