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Parameter Limits for Neutrino Oscillation with Decoherence in KamLAND

In the framework of quantum open systems we analyze data from KamLAND by using a model which considers neutrino oscillation in a three-family approximation with the inclusion of the decoherence effect. Using a χ^2 test we find new limits for the decoherence parameter which we call γ, considering the most recent data by KamLAND.

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