

# NuFact15 : XVII International Workshop on Neutrino Factories and Future Neutrino Facilities



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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  $\chi^2$  test we find new limits for the decoherence parameter which we call  $\gamma$ , considering the most recent data by KamLAND.

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