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KamLAND double beta experiment using ^{136}Xe

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The KamLAND 1000 ton ultra pure LS environment has a good advantage for the double beta decay experiment. We are planning to install the 20m³ volume mini balloon with ^{136}Xe loaded LS in 2011. The target sensitivity of Xe phase is 60 meV on neutrino mass using 400kg enriched Xe. We will report our progress of KamLAND Xe phase and recent analysis topics.

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