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Future prospects of geo-neutrino measurement with KamLAND

The Kamioka Liquid-Scintillator Antineutrino Detector (KamLAND) is marked by the ability to detect anti-neutrino signals at 1,000 ton of ultra pure liquid scintillator. We reported the results of the first study of electron antineutrinos produced within the Earth in 2005. The recent long-term shutdown of Japanese nuclear reactors has resulted in a significantly reduced reactor antineutrino flux at KamLAND, and this condition improves sensitivity for geo-neutrinos.
To improve the ability to discriminate between Earth models, we are planning to upgrade KamLAND detector. This poster presents the ongoing studies for future improvement.

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