

Abstract Submitted
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The Status of KamLAND After Purification CHRISTOPHER GRANT, University of Alabama, KAMLAND COLLABORATION — KamLAND is a 1-kton liquid scintillation detector located in the Kamioka underground laboratory, in Japan. KamLAND has provided a precision measurement of Δm_{21}^2 using reactor anti-neutrinos, and yielded first observational evidence of geologically produced anti-neutrinos. Since April of 2007, the collaboration has been working on the purification of the detector with the goal of observing 862 keV, ${}^7\text{Be}$ solar neutrinos. Two purification campaigns have concluded, with a total of 5.4 ktons of scintillator circulated through a distillation and nitrogen purge system. The results of purification and the overall background reduction factors will be presented, along with an update of the ${}^7\text{Be}$ solar neutrino analysis.

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