

Abstract Submitted
for the HAW14 Meeting of
The American Physical Society

KamLAND-PICO dark matter search project Low background test by highly radiopure NaI(Tl) KENICHI FUSHIMI, The University of Tokushima, HIROYASU EJIRI, RCNP, Osaka University, RYUTA HAZAMA, Osaka Sangyo University, HARUO IKEDA, RCNS, Tohoku University, KYOSHIRO IMAGAWA, I.S.C. Lab., KUNIO INOUE, RCNS, Tohoku University, ALEXANDRE KOZLOV, IPMU, The University of Tokyo, REIKO ORITO, The University of Tokushima, TATSUSHI SHIMA, RCNP, Osaka University, YASUHIRO TAKEMOTO, IPMU, The University of Tokyo, SAORI UMEHARA, RCNP, Osaka University, KENSUKE YASUDA, I.S.C. Lab., KAMLAND-PICO COLLABORATION — KamLAND-PICO aims to search for WIMPs dark matter by means of highly radiopure NaI(Tl) scintillator. The impurities in NaI(Tl) has been successfully reduced by chemical processing of raw NaI(Tl) powder. The intensity of alpha ray was observed and the contamination in ^{210}Pb has been dramatically reduced to about $60 \mu\text{Bq/kg}$. The present status of low background measurement will be reported.

KenIchi Fushimi
The University of Tokushima

Date submitted: 21 Jun 2014

Electronic form version 1.4