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P4.015 Radon assay and radioactivity database in Kamioka

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A new cooperative program among underground experiments, theorists, and low-background researchers was started in 2014 in Japan. The title of this program is “Revealing the history of the universe with underground particle and nuclear research”, and the purpose of this program is to achieve technical and scientific synergies among underground researchers. More than 70 researchers are currently contributing to this program.

In this report, the research and development of radon assay technique as an activity in this program is reported. Radon is a common background in underground experiments, like XMASS and/or Super-Kamiokande in Kamioka Observatory. In this report, current status of the R&D of the technique on remaining radon assay in purified xenon gas is reported.

We are also making a database to accumulate radioactivity related knowledge in this program in Kamioka. In this report, the current status of the radioactivity database system in Kamioka is shown.