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Development of a high sensitive radon detector in Kamioka

Radon is one of major background sources in the underground neutrino experiments. Our group has been working to develop a high sensitive radon detector, especially for Super-Kamiokande and XMASS experiments in Kamioka. Recently, we are trying to make a new vacuum-tight electrostatic-collection radon detector with 80 litter volume. In this poster, we will report the basic performances of the new 80-L radon detector and possible applications to the underground neutrino experiments.

Primary author: Dr TAKEUCHI, Yasuo (Dept. of Physics, Grad. School of Science, Kobe Univ.)

Co-authors: Dr SEKIYA, Hiroyuki (Kamioka Observatory, ICRR, Univ. of Tokyo); Mr HOSOKAWA, Keishi (Kobe Univ.); Prof. TASAKA, Shigeki (Information and Multimedia Center, Gifu University); Mr ONISHI, Yosuke (Dept. of physics, Kobe university); Mr NAKANO, Yuuki (ICRR, Univ. of Tokyo)

Presenter: Dr TAKEUCHI, Yasuo (Dept. of Physics, Grad. School of Science, Kobe Univ.)

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