

Development of a low alpha emitting μ -PIC for NEWAGE direction-sensitive dark matter search

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Content

The NEWAGE detector is a gaseous micro-TPC using μ -PIC. We found the main background sources are alpha rays from the radioactive contaminations in the μ -PIC. So, low alpha emitting μ -PICs have been developed. The performance of these μ -PICs will be presented. We set up a surface alpha ray counter using micro TPC in Kamioka mine. We measured surface alpha ray emission rate of the μ -PIC. The result will be presented.

Summary

Primary author(s) : Mr. HASHIMOTO, takashi (Kobe Univ.)

Co-author(s) : Dr. MIUCHI, Kentaro (Kobe Univ.); Mr. YAKABE, Ryota (Kobe Univ.); Mr. IKEDA, Tomonori (Kobe Univ.); Mr. TAISHAKU, Ryosuke (Kobe Univ.); Ms. NAKAZAWA, Miki (Kobe Univ.); Dr. OCHI, Atsuhiko (Kobe Univ.); Dr. NAKAMURA, Kiseki (Kyoto univ.)

Presenter(s) : Mr. HASHIMOTO, takashi (Kobe Univ.)

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