

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

Friday, May 26, 2017 10:20 AM (20 minutes)

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.

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Session Classification: Session 7