

Test of the segmented plastic implantation detector with RI beam at the RIBF

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The decay experiment was conducted by recycling the secondary beam transported after the interaction cross-section and mass measurements at the RIBF. In this experiment, the performance of the segmented plastic implantation detector “GARi” was tested. The position reconstructions of ion and beta events were investigated, which were used to determine the beta-decay half-lives of implanted ions. Some nanosecond-scale half-lives of low-lying states were also measured through beta-gamma correlations.

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