

²¹⁷Ac

In the article “In-beam alpha spectroscopy of N=128 isotones. Lifetimes of ²¹⁶Ra and a new isotope ²¹⁷Ac” Nomura et al. reported the observation of ²¹⁷Ac in 1972 ([1972No06](#)). A ²⁰⁸Pb target was bombarded with a 91 MeV ¹⁴N beam from the RIKEN IPCR cyclotron forming ²¹⁷Ac in (5n) fusion-evaporation reactions. Alpha-particle spectra and decay curves were measured with a surface barrier Si detector. “Time distributions of the ground-state decay of ²¹⁶Ra and ²¹⁷Ac are shown in [the figure], from which half-lives of ²¹⁶Ra and ²¹⁷Ac have been determined of $0.18 \pm 0.03 \mu\text{s}$ and $0.10 \pm 0.01 \mu\text{s}$, respectively.”

Adapted from reference ([2013Fr03](#))

[1972No06](#) T. Nomura, K. Hiruta, T. Inamura, and M. Odera, Phys. Lett. B **40**, 543 (1972).

[2013Fr03](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 345 (2013).

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