

²¹⁴Ra

The first identification of ²¹⁴Ra was reported in 1967 by Rotter et al. in the paper “The new isotope Ac²¹⁶” (1966Ro12). Lead and bismuth targets were bombarded with 80 MeV carbon ion beams from the JINR cyclotron that were degraded with aluminum foils. Recoils were collected on a foil and α particles that were ejected were registered by a silicon surface barrier detector. “...in the case of a lead target it was the 7,17 MeV line of Ra²¹⁴. These lines were clearly discriminated in all measured spectra.” Rotter et al. did not consider this observation a new discovery referring to a book by Hyde et al. [] which quoted unpublished results by Griffioen and Macfarlane. Over a year later Valli et al. independently reported a 7.136(5) MeV α energy for ²¹⁴Ra [?].

Adapted from reference (2013Fr09)

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Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”