

²⁰⁹Ra

The 1967 paper “On-line alpha spectroscopy of neutron-deficient radium isotopes” by Valli et al. described the observation of ²⁰⁹Ra ([1967Va22](#)). ¹⁹⁷Au targets were bombarded with ¹⁹F and ²⁰⁶Pb targets were bombarded with ¹²C at the Berkeley HILAC. Products were slowed and deposited to be placed in front of a Si(Au) surface barrier detector. Results were presented in a table, giving a half-life of 4.7(2) s.

Adapted from reference ([2013Fr09](#))

[1967Va22](#) K. Valli, W. Treytl, and E. K. Hyde, Phys. Rev. **161**, 1284 (1967).

[2013Fr09](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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)”