

²⁰⁹Rn

Momyer et al. identified ²⁰⁹Rn in “Recent studies of the isotopes of emanation, francium and radium” in 1952 ([1952Mo23](#)). Thorium targets were bombarded with 340 MeV protons from the Berkeley 184-inch cyclotron. Alpha-decay spectra were measured following chemical separation. Results were summarized in a table, assigning a half-life of 31 min ²⁰⁹Rn. Half-lives of 23 min and 2.1 h had been previously reported without firm mass assignments ([1949Gh16](#)).

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

- [1949Gh16](#) A. Ghiorso, W. W. Meinke, and G. T. Seaborg, Phys. Rev. **76**, 1414 (1949).
[1952Mo23](#) F. F. Momyer, E. K. Hyde, A. Ghiorso, and W. E. Glenn, Phys. Rev. **86**, 805 (1952).
[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)”