

²⁰⁷Rn

In the 1954 paper “The α -activity induced in gold by bombardment with nitrogen ions,” Burcham described the identification of ²⁰⁷Rn ([1954Bu67](#)). Gold foils were bombarded with a 75-120 MeV nitrogen beam from the Birmingham Nuffield 60-inch cyclotron forming ²⁰⁷Rn in the fusion-evaporation reactions ¹⁹⁷Au(¹⁴N,4n). Alpha-decay curves of the irradiated samples were measured with an ionization chamber. “The 6.09 MeV group of α -particles could come from ²⁰⁷Em according to the systematics.” The measured half-life was 11.0(10) min.

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

[1954Bu67](#) W. E. Burcham, Proc. Phys. Soc. (London) **67**, 555 (1954).
[2013Fr09](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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