

²⁶²Bh

In the 1981 paper “Identification of element 107 by α correlation chains” Münzenberg et al. described the discovery of ²⁶²Bh ([1981Mu06](#)). A 4.85 MeV/u ⁵⁴Cr from the GSI UNILAC linear accelerator bombarded ²⁰⁹Bi targets forming ²⁶²Bh in the (1n) fusion-evaporation reaction. Recoil products were separated with the velocity filter SHIP and implanted in seven position sensitive surface barrier detectors which also measured the subsequent α -decays and spontaneous fission. “Our results show the discovery of the α decay of element 107. The α chains end in known transitions of ²⁵⁰Fm and ²⁵⁰Md, respectively, indicating the observation of the isotope ²⁶²107 formed by the 1n channel from the compound nucleus ²⁶³107.” Half-lives of 102(26) ms and 8.0(21) ms corresponding to the ground state and an isomeric state, respectively, were reported.

Adapted from reference ([2013Th02](#))

- [1981Mu06](#) G. Munzenberg, S. Hofmann, F. P. Hessberger, W. Reisdorf *et al.*, *Z. Phys. A* **300**, 107 (1981).
[2013Th02](#) M. Thoennessen, *At. Data Nucl. Data Tables* **99**, 312 (2013).

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