

¹¹⁹Ag

¹¹⁹Ag was discovered by Kawase et al. in 1975 in their paper “States in ¹¹⁹Cd Studied in the Decay of ¹¹⁹Ag” ([1975Ka09](#)). ¹¹⁹Ag was observed at the OSIRIS mass separator in fission products from the reactor at Studsvik, Sweden. Conversion electrons, γ -rays, and $\gamma\gamma$ coincidences were recorded. “Only one isomer of ¹¹⁹Ag was found in the present study, and the half-life of this, 2.1 ± 0.1 s, is much shorter than that of its daughters products.” An earlier measurement of a half-life of 17 s ([1967Fr16](#)) could not be confirmed. Also, Aleklett et al. submitted their measurement of ¹¹⁹Ag only two months later than Kawase et al. ([1975Ka09](#)). The observed half-life corresponds to an isomeric state. Two γ -rays populating the ground state were reported 16 years later by Penttilä et al. ([1991Pe04](#)). The half-life of the ground state has only been reported in a conference proceeding ([1970OsZZ](#)).

Adapted from reference ([2010Sc10](#))

- [1967Fr16](#) K. Fritze and K. Griffiths, *Radiochim. Acta* **7**, 59 (1967).
- [1970OsZZ](#) Proc. Int. Conf. Prop. Nuclei Far from Region of Beta-Stability, Leysin, Switzerland, Vol. **2**, p. 1093 (1970).
- [1975Ka09](#) Y. Kawase, B. Fogelberg, J. McDonald, and A. Backlin, *Nucl. Phys. A* **241**, 237 (1975).
- [1991Pe04](#) H. Penttilä, J. Aysto, K. Eskola, Z. Janas *et al.*, *Z. Phys. A* **338**, 291 (1991).
- [2010Sc10](#) A. Schuh, A. Fritsch, J. Q. Ginepro, M. Heim *et al.*, *At. Data Nucl. Data Tables* **96**, 531 (2010).

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