

⁷⁶Cu-1

Isomerism was first established in ⁷⁶Cu by L.Canete et al. in 2024 at the University of Jyväskylä, Jyväskylä, Finland ([2024Ca11](#)). An isomer had been reported in 1990 by Winger et al. ([1990Wi12](#)) but it was not confirmed in a subsequent experiment by Van Roosbroeck et al. ([2005Va19](#)). Canete et al. determined that the previously measured 637.7 ms state was actually the isomeric state and measured the half-life of the ground state to be 1.27 s. However, Olaizola et al. recently questioned this assignment ([2025OI02](#)).

- [1990Wi12](#) J. A. Winger, J. C. Hill, F. K. Wohn, E. K. Warburton *et al.*, Phys. Rev. C **42**, 954 (1990).
- [2005Va19](#) J. Van Roosbroeck, H. De Witte, M. Gorska, M. Huyse *et al.*, Phys. Rev. C **71**, 054307 (2005).
- [2024Ca11](#) L. Canete, S. Giraud, A. Kankainen, B. Bastin *et al.*, Phys. Lett. B **853**, 138663 (2024).
- [2025OI02](#) B. Olaizola, A. Illana, J. Benito, D. P. Suarez-Bustamante *et al.*, Phys. Lett. B **866**, 139551 (2025).

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