

¹⁰⁰Zr

Evidence for ¹⁰⁰Zr was observed by Cheifetz et al. from the University of California at Berkeley in the 1970 paper “Experimental Information Concerning Deformation of Neutron Rich Nuclei In the A ~ 100 Region” ([1970Ch11](#)). Fission fragments from the spontaneous fission of ²⁵²Cf were observed in coincidence with X- and γ -rays measured in Ge(Li) detectors. Several isotopes were identified and the observed γ -rays were listed in a table. For ¹⁰⁰Zr, levels at 212.7 (2⁺), 564.8 (4⁺), and 1062.7 keV (6⁺) were reported. These levels are the correct values ([2021Si08](#)). An earlier estimate of 1.0(9) s ([1970Ei02](#)) for the half-life of ¹⁰⁰Zr was incorrect.

Adapted from reference ([2012Ny02](#))

- [1970Ch11](#) E. Cheifetz, R. C. Jared, S. G. Thompson, and J. B. Wilhelmy, Phys. Rev. Lett. **25**, 38 (1970).
[1970Ei02](#) J. Eidens, E. Roeckl, and P. Armbruster, Nucl. Phys. A **141**, 289 (1970).
[2012Ny02](#) A. Nystrom and M. Thoennessen, At. Data Nucl. Data Tables **98**, 95 (2012).
[2021Si08](#) B. Singh and J. Chen, Nucl. Data Sheets **172**, 1 (2021).

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