

⁷⁸Zr

In the 2001 article “Synthesis and Halfives of Heavy Nuclei Relevant for the rp-Process,” Kienle et al. first reported the existence of ⁷⁸Zr ([2001Ki13](#)). A 1 A·GeV ¹¹²Sn beam from the synchrotron SIS at GSI, Germany, bombarded a beryllium target. ⁷⁸Zr was identified by the FRS fragment separator by both magnetic deflection and by measuring the energy loss and time-of-flight of the fragments. “The spectra show the previously unobserved T = −1 nuclei ⁷⁶Y (2 events) and ⁷⁸Zr (one event) and demonstrate the absence of ⁸¹Nb...”

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

[2001Ki13](#) P. Kienle, T. Faestermann, J. Friese, H. J. Korner *et al.*, Prog. Part. Nucl. Phys. **46**, 73 (2001).

[2012Ny02](#) A. Nystrom and M. Thoennessen, At. Data Nucl. Data Tables **98**, 95 (2012).

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