

¹⁴⁴Dy

Redon et al. described the first observation of ¹⁴⁴Dy in the 1986 paper “Exotic neutron-deficient nuclei near N=82” ([1986Re11](#)). Enriched ¹¹²Sn targets were bombarded with a 191 MeV ³⁵Cl beam from the Grenoble SARA accelerator and ¹⁴⁴Dy was formed in the fusion evaporation residue reaction ¹¹²Sn(³⁵Cl,p2n). The residues were separated with an on-line mass separator and a He-jet system. X-ray and γ -ray spectra were measured. “The 196 and 298 keV γ -rays decay with $T_{1/2} = 9.0 \pm 0.7$ s (Takahashi prediction = 7 s) and therefore belong to the ¹⁴⁴Dy β -decay”. Three months later a 7(3) s half-life was reported for ¹⁴⁴Dy independently by Wilmarth et al. ([1986Wi15](#)).

Adapted from reference ([2013Fr10](#))

- [1986Re11](#) N. Redon, T. Ollivier, R. Beraud, A. Charvet *et al.*, *Z. Phys. A* **325**, 127 (1986).
[1986Wi15](#) P. A. Wilmarth, J. M. Nitschke, R. B. Firestone, and J. Gilat, *Z. Phys. A* **325**, 485 (1986).
[2013Fr10](#) C. Fry and M. Thoennessen, *At. Data Nucl. Data Tables* **99**, 520 (2013).

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