

## <sup>175</sup>Er

“The  $\gamma$ -decay of a new neutron-rich nucleus <sup>175</sup>Er” was published in 1996 announcing the discovery of <sup>175</sup>Er by Zhang et al. ([1996Zh03](#)). Ytterbium metal targets were irradiated with 14 MeV neutrons which were produced by bombarding a Ti<sup>3</sup>H target with deuterons from the Lanzhou 600-kV Cockcroft-Walton accelerator. Two coaxial HPGe and a HPGe planar detector were used to measure  $\gamma$ - and X-rays, respectively. “A  $1.2 \pm 0.3$  min activity produced with 14-MeV neutrons using the reaction <sup>176</sup>Yb(n,2p)<sup>175</sup>Er has been assigned to  $\beta^-$  decay of the unreported erbium isotope <sup>175</sup>Er.”

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

[1996Zh03](#) X. Zhang, S. Yuan, W. Yang, Z. Li *et al.*, *Z. Phys. A* **353**, 353 (1996).  
[2013Fr10](#) C. Fry and M. Thoennessen, *At. Data Nucl. Data Tables* **99**, 520 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”