

## $^{145}\text{Ho}$

Goettig et al. published the observation of  $^{145}\text{Ho}$  in the 1987 paper titled “Decoupled bands in odd-A rare-earth nuclei below N=82” ([1987Go35](#)). Enriched  $^{92}\text{Mo}$  and  $^{96}\text{Ru}$  targets were bombarded with 250 MeV  $^{56}\text{Fe}$  and 240 MeV  $^{52}\text{Cr}$  beams, from the Daresbury Tandem Van de Graaff accelerator, respectively, and  $^{145}\text{Ho}$  was produced in the (p2n) fusion evaporation reaction. Neutrons, charged particles and  $\gamma$ -rays were measured with a 37 element wall, a Si surface barrier telescope and four Compton suppressed Ge detectors, respectively. “In conclusion we have observed bands in the odd-proton nuclei  $^{137}\text{Eu}$ ,  $^{141,143}\text{Tb}$ ,  $^{145}\text{Ho}$  and the odd-neutron nucleus  $^{145}\text{Dy}$ , all of which are nuclei where no information on excited states was previously available.”

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

[1987Go35](#) L. Goettig, W. Gelletly, C. J. Lister, R. Moscrop, and B. J. Varley, Nucl. Phys. A **475**, 569 (1987).

[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)”