

¹⁵⁵Nd

Okano et al. identified ¹⁵⁵Nd in the 1986 paper “The Half-Life of a New Isotope, ¹⁵⁵Nd” (1986Ok08). An enriched ²³⁵U target was irradiated with neutrons from the Kyoto University Reactor and ¹⁵⁵Nd was identified with a helium-jet system and the on-line isotope separator KUR-ISOL. “From the analyses of the spectra mentioned, four γ -rays of 67.5 ± 0.3 , 180.7 ± 0.2 , 418.9 ± 0.3 , and 955.1 ± 0.3 keV and two X-rays of 38.4 ± 0.4 (Pm K_{α}) and 44.2 ± 1.0 keV (Pm K_{β}) were assigned to the decay of ¹⁵⁵Nd.” About six months later Greenwood et al. claimed the first observation of ¹⁵⁵Nd (1987Gr12) apparently not aware of the Okano et al. publication.

Adapted from reference (2012Gr02)

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