

¹⁵⁹Gd

¹⁵⁹Gd was observed in 1949 by Butement at the Atomic Energy Research Establishment in Harwell, UK, published in the paper “Radioactive gadolinium and terbium isotopes” (1949Bu01). Natural gadolinium samples were irradiated with neutron in a pile. Gamma- and beta-ray activities were measured following chemical separation. “The value of σ for the 18 hr Gd shows that it cannot be an isomer of Gd¹⁶¹, and this activity is presumably, therefore, to be assigned to Gd¹⁵⁹.” Previously, a 20 h was reported without mass assignments (1947Se33) and a 18 h were reported without element or mass assignments and tentatively assigned to ¹⁶¹Tb (1948Kr07).

Adapted from reference (2013Ma01)

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