^{163}Gd

"A new isotope ^{163}Gd; comments on the decay of ^{162}Gd" was published in 1982 by Gehrke et al. documenting the observation of ^{163}Gd at the Idaho National Engineering Laboratory in Idaho Falls (1982Ge07). ^{163}Gd was produced in spontaneous fission of ^{252}Cf and γ-ray spectra were measured with a Ge(Li) spectrometer following chemical separation. "A new isotope, ^{163}Gd, has been identified which was produced in the spontaneous fission of ^{252}Cf. The half-life of this isotope was measured to be (68$\pm$3) s and eleven γ rays have been assigned to its decay. The assignment of this activity to ^{163}Gd is based on the presence of these γ rays in the gadolinium fraction, which was chemically separated from mixed fission products, and the observation of the growth and decay curve associated with γ rays from 19.5-min ^{163}Tb, the daughter activity."

Adapted from reference (2013Ma01)

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