

¹⁴⁹Pm

In “The chemical identification of radioisotopes of neodymium and of element 61”, Marinsky et al. from Oak Ridge reported the discovery of ¹⁴⁹Pm in 1947 ([1947Ma28](#)). Fission fragments from ²³⁵U were analyzed as part of the Manhattan Project. ¹⁴⁹Pm was identified by measuring X-, γ - and β -ray spectra following chemical separation. “Radiochemical studies and fractionations have established the decay characteristics, genetic relation, and mass assignments of 11 d Nd¹⁴⁷, 3.7 y 61¹⁴⁷, 1.7 h Nd(¹⁴⁹), and 47 h 61¹⁴⁹.” Although the “verification” of the mass assignment by Inghram et al. ([1947In06](#)) was submitted about three months earlier, Marinsky et al. is credited with the discovery because as part of the Manhattan Project Inghram et al. were aware of the earlier work by Marinsky et al.

Adapted from reference ([2012Ma48](#))

- [1947In06](#) M. G. Inghram, D. C. Hess Jr., R. J. Hayden, and G. W. Parker, Phys. Rev. **71**, 743 (1947).
[1947Ma28](#) J. A. Marinsky, L. E. Glendenin, and C. D. Coryell, J. Am. Chem. Soc. **69**, 2781 (1947).
[2012Ma48](#) E. May and M. Thoennessen, At. Data Nucl. Data Tables **98**, 960 (2012).

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