

⁶⁹Co

The 1985 paper “Production and Identification of New Neutron-Rich Fragments from 33 MeV/u ⁸⁶Kr Beam in the $18 \leq Z \leq 27$ Region” by Guillemaud-Mueller et al. reported the first observation of ⁶⁹Co ([1985Gu14](#)). The 33 MeV/u ⁸⁶Kr beam bombarded tantalum targets and the fragments were separated with the GANIL triple-focusing analyser LISE. “Each particle is identified by an event-by-event analysis. The mass A is determined from the total energy and the time of flight, and Z by the ΔE and E measurements... In addition to that are identified the following new isotopes: ⁴⁷Ar, ⁵⁷Ti, ^{59,60}V, ^{61,62}Cr, ^{64,65}Mn, ^{66,67,68}Fe, ^{68,69,70}Co.”

Adapted from reference ([2010Sz02](#))

- [1985Gu14](#) D. Guillemaud-Mueller, A. C. Mueller, D. Guerreau, F. Pougheon *et al.*, Z. Phys. A **322**, 415 (1985).
[2010Sz02](#) T. Szymanski and M. Thoennessen, At. Data Nucl. Data Tables **96**, 848 (2010).

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)”