

⁶⁸Fe

The 1985 paper “Production and Identification of New Neutron-Rich Fragments from 33 MeV/u ⁸⁶Kr Beam in the 18 ≤ Z ≤ 27 Region” by Guillemaud-Mueller et al. reported the first observation of ⁶⁸Fe ([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 ([2010Sc18](#))

[1985Gu14](#) D. Guillemaud-Mueller, A. C. Mueller, D. Guerreau, F. Pougheon *et al.*, *Z. Phys. A* **322**, 415 (1985).

[2010Sc18](#) A. Schuh, A. Fritsch, M. Heim, A. Shore, and M. Thoennessen, *At. Data Nucl. Data Tables* **96**, 817 (2010).

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