^{64}Mn

The 1985 paper "Production and Identification of New Neutron-Rich Fragments from 33 MeV/u ^{86}Kr Beam in the 18≤Z≤27 Region" by Guillemaud-Mueller et al. reported the first observation of ^{64}Mn (1985Gu14). The 33 MeV/u ^{86}Kr 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 ^{47}Ar, ^{57}Ti, ^{59,60}V, ^{61,62}Cr, ^{65,65}Mn, ^{66,67,68}Fe, ^{68,69,70}Co."

Adapted from reference (2012Ga06)

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

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