^{59}Mn

In 1976, Kashy et al. published the discovery of ^{59}Mn in their paper "Observation of highly neutron-rich ^{43}Cl and ^{59}Mn" (1976Ka24). An enriched ^{64}Ni foil was bombarded with a 74 MeV ^{3}He beam at the Michigan State University Cyclotron and ^{59}Mn was produced in the reaction ^{64}Ni(^{3}He,^{8}B). The momentum of the ejectiles was examined with an Enge split pole spectrograph, energy loss was measured, and time of flight data was taken from a plastic scintillator to verify the observations and record the mass of the isotope. "[The figure] shows spectra of ^{8}B ions from the ^{64}Ni and ^{27}Al targets,... A peak with a width of about 200 keV is observed for the ^{59}Mn."

Adapted from reference (2012Ga06)

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