^{62}Fe

In the 1975 paper "Decay of the New Isotope ^{62}Fe", Franz et al. reported the first observation of ^{62}Fe (1975Fr16). Neutrons between 25 and 200 MeV generated by 200 MeV protons from the Brookhaven AGS linac injector bombarded a nickel oxide target enriched to 96% ^{64}Ni. ^{62}Fe was produced with the ^{64}Ni(n,2pn) reaction. Gamma spectra were measured following chemical separation. "The mass assignment must be to ^{62}Fe because the appropriate growth and decay were observed of 1.5-m ^{62}Co in the chemically purified iron sample."

Adapted from reference (2010Sc18)

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