^{65}Ni

Swartout et al. reported the discovery of ^{65}Ni in the 1946 paper "Mass Assignment of 2.6 h Ni^{65}" (1946Sw01). Enriched ^{63}Cu and ^{65}Cu were irradiated with neutrons from the Oak Ridge uranium pile. ^{65}Ni was formed in the (n,p) charge-exchange reaction and β- and γ-rays were measured following chemical separation. "The availability of enriched copper isotopes in the Manhattan Project has now made possible a positive assignment of the 2.6 h Ni isotope to a mass number of 65." Nine years earlier, an activity of 160(10) min was assigned to either ^{63}Ni or ^{65}Ni (1937Oe01).

Adapted from reference (2012Ga06)

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