

⁶⁹Ni

Dessagne et al. observed ⁶⁹Ni for the first time in 1984 as reported in their paper “The Complex Transfer Reaction (¹⁴C, ¹⁵O) on Ni, Zn, and Ge Targets: Existence and Mass of ⁶⁹Ni” (1984De33). A 72 MeV beam of ¹⁴C provided by the Orsay MP tandem was incident on an enriched ⁷⁰Zn target. ⁶⁹Ni was identified by measuring the ¹⁵O ejectiles in the double-focussing n=1/2 magnetic spectrometer BACCHUS. “In the case of the ⁶⁸Zn and ⁷⁰Zn targets, the (¹⁴C, ¹⁵O) reactions clearly populate the ground states of ⁶⁷Ni and ⁶⁹Ni... The ⁶⁹Ni nucleus is observed and its mass measured here for the first time.”

Adapted from reference (2012Ga06)

1984De33 P. Dessagne, M. Bernas, M. Langevin, G. C. Morrison *et al.*, Nucl. Phys. A **426**, 399 (1984).

2012Ga06 K. Garofali, R. Robinson, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 356 (2012).

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