

⁵¹Ni

The 1987 paper “Direct Observation of New Proton Rich Nuclei in the Region $23 \leq Z \leq 29$ Using a 55 A·MeV ⁵⁸Ni Beam” reported the first observation of ⁵¹Ni by Pougheon et al. (1987Po04). The fragmentation of a 55 A·MeV ⁵⁸Ni beam at GANIL on nickel and aluminum targets was used to produce proton-rich isotopes which were separated with the LISE spectrometer. Energy loss, time of flight, and magnetic rigidity measurements were made. “Here, ⁵²Ni ($T_z = -2$) and ⁵¹Ni ($T_z = -5/2$) are identified with respectively 68 and 7 counts.”

Adapted from reference (2012Ga06)

1987Po04 F. Pougheon, J. C. Jacmart, E. Quiniou, R. Anne *et al.*, *Z. Phys. A* **327**, 17 (1987).

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

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