

⁵¹Co

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 ⁵¹Co by Pougheon et al. (1987Po04). A 55 A·MeV ⁵⁸Ni was used to bombard a 50 mg/cm² nickel target at the Grand Accélérateur National d’Ions Lourds (GANIL) in Caen, France. The proton-rich fragmentation products were separated with the LISE spectrometer and identified by energy loss, time of flight, and magnetic rigidity measurements. “The following twelve isotopes were observed for the first time: ⁵⁶Cu, ⁵²Co ($T_z = -1$); ⁵⁵Cu, ⁵¹Co, ⁴⁷Mn, ⁴³V ($T_z = 3/2$); ⁵²Ni, ⁵⁰Co, ⁴⁸Fe, ⁴⁶Mn, ⁴⁴Cr ($T_z = -2$) and ⁵¹Ni ($T_z = -5/2$).” 440 events were observed for ⁵¹Co.

Adapted from reference (2010Sz02)

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

2010Sz02 T. Szymanski and M. Thoennessen, *At. Data Nucl. Data Tables* **96**, 848 (2010).

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