

⁵⁴Co

The discovery of ⁵⁴Co was first reported in 1952 by Martin and Breckon in “The New Radioactive Isotopes Vanadium 46, Manganese 50, Cobalt 54” ([1952Ma55](#)). Protons with energies between 12 and 17 MeV from the McGill University cyclotron bombarded iron targets and ⁵⁴Co was produced in the reaction ⁵⁴Fe(p,n)⁵⁴Co. Positron activities were displayed on a cathode-ray oscilloscope and photographs of the screen were taken for subsequent graphical analysis. The assignment of ⁵⁴Co was based on the threshold energy and the *ft* value. “One is thus led to assign the 0.40, 0.28, and 0.18 sec. activities to the isotopes V⁴⁶, Mn⁵⁰, and Co⁵⁴, respectively.”

Adapted from reference ([2010Sz02](#))

- [1952Ma55](#) W. M. Martin and S. W. Breckon, *Can. J. Phys.* **30**, 643 (1952).
[2010Sz02](#) T. Szymanski and M. Thoennessen, *At. Data Nucl. Data Tables* **96**, 848 (2010).

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