

⁵⁵Co

The first assignment of ⁵⁵Co was made by Livingood and Seaborg in the 1938 paper “Long-Lived Radio Cobalt Isotopes” (1938Li09). ⁵⁵Co was produced in the proton-capture reaction ⁵⁴Fe(p,γ) at the Radiation Laboratory of the University of California at Berkeley. “The bombardment of iron for 1 hour with 100 microamperes of 3.2 MeV protons yields a long-lived activity (as well as the 18-hour Co⁵⁵)...” The activity had previously been observed in the reaction ⁵⁴Fe(d,n), however, no mass assignment was made (1937Li02). Also, Darling et al. had reported this activity (18.2 h) in the same reaction in an abstract for a conference proceeding, but they also did not assign the half-life to an isotope (1937Da01).

Adapted from reference (2010Sz02)

- 1937Da01 B. T. Darling, B. R. Curtis, and J. M. Cork, Phys. Rev. **51**, 1010 (1937).
1937Li02 J. J. Livingood, F. Fairbrother, and G. T. Seaborg, Phys. Rev. **52**, 135 (1937).
1938Li09 J. J. Livingood and G. T. Seaborg, Phys. Rev. **53**, 847 (1938).
2010Sz02 T. Szymanski and M. Thoennessen, At. Data Nucl. Data Tables **96**, 848 (2010).

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