

## <sup>65</sup>Zn

Livingood and Seaborg identified <sup>65</sup>Zn correctly in “Radioactive Isotopes of Zinc” in 1939 (1939Li02). Zinc targets were irradiated by 8 MeV deuterons at the Berkeley cyclotron and the activities were measured with an air-filled quartz-fiber electroscope. “It is shown that Zn<sup>65</sup>, produced through deuteron bombardment of zinc, has a half-life of 250 days, agreeing with the period found by others after proton and deuteron bombardment of copper.” A half-life of 245 d (1938Pe01) was reported previously without a mass assignment and half-lives of ~1 h (1936He03) and 210(3) min (1938Sa02) were incorrectly assigned to <sup>65</sup>Zn. Also, <sup>65</sup>Zn had been incorrectly observed to be stable (1921De01, 1928As01, 1935St07).

Adapted from reference (2012Gr02)

- 1921De01 A. J. Dempster, *Science* **54**, 516 (1921).
- 1928As01 F. W. Aston, *Nature* **122**, 345 (1928).
- 1935St07 G. Stenvinkel and E. Svensson, *Nature* **135**, 955 (1935).
- 1936He03 F. A. Heyn, *Nature* **138**, 723 (1936).
- 1938Pe01 C. Perrier, M. Santangelo, and E. Segre, *Phys. Rev.* **53**, 104 (1938).
- 1938Sa02 R. Sagane, S. Kojima, and M. Ikawa, *Phys. Rev.* **54**, 149 (1938).
- 1939Li02 J. J. Livingood and G. T. Seaborg, *Phys. Rev.* **55**, 457 (1939).
- 2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 75 (2012).

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