

¹⁵⁸Eu

The observation of ¹⁵⁸Eu by Winsberg was published as part of the Plutonium Project in 1951: “Study of 60m Eu⁽¹⁵⁸⁾ and 15.4h Eu⁽¹⁵⁷⁾ activities in fission” (1950Wi08). Uranyl nitrate was irradiated with neutrons in the thimble of the Argonne Heavy-water Pile. Decay curves and absorption spectra were measured with a thin-windowed Geiger Mueller tube following chemical separation. “The tentative mass assignments of 158 for the 60m Eu and of 157 for the 15.4h Eu was suggested by the fission-yield–mass curve of U²³⁵. Neither isotope has been mentioned in the published literature.”

Adapted from reference (2013Ma01)

1950Wi08 L. Winsberg, Nat. Nucl. Ener. Ser. **9**, paper197 p. 1292 (1950).

2013Ma01 E. May and M. Thoennessen, At. Data Nucl. Data Tables **99**, 1 (2013).

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