

## **<sup>158</sup>Sm**

<sup>158</sup>Sm was discovered by Wilhelmy et al. from the University of California at Berkeley in 1970 in “Ground-state bands in neutron-rich even Te, Xe, Ba, Ce, Nd, and Sm isotopes produced in the fission of <sup>252</sup>Cf” ([1970Wi16](#)). The isotope was observed in the spontaneous fission of a <sup>252</sup>Cf source. The identification was based on coincidence measurements of both fission fragments and K-x-rays. Gamma-rays for several isotopes were measured and the results were only displayed in a table. The first 4 transitions up to the decay of the 8<sup>+</sup> state were measured for <sup>158</sup>Sm.

Adapted from reference ([2013Ma01](#))

[1970Wi16](#) J. B. Wilhelmy, S. G. Thompson, R. C. Jared, and E. Cheifetz, Phys. Rev. Lett. **25**, 1122 (1970).

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

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”