

## <sup>140</sup>Cs

The paper “Short-lived fission products. II. Cs<sup>139</sup> and Cs<sup>140</sup>” by Sugarman and Richter from Argonne National Laboratory was published in 1950 reporting the first identification of <sup>140</sup>Cs ([1950Su04](#)). <sup>140</sup>Cs was identified by timed precipitations of cesium silicotungstate precipitate from uranium. “A plot of the normalized 12.8-day Ba<sup>140</sup> activity versus time of Cs precipitation is given in [the figure]. A least squares analysis of the data yielded 66±2 sec. for the half-life of Cs<sup>140</sup>.” Previously, Hahn and Strassman observed a 40 s cesium activity without a unique mass assignment ([1940Ha23](#)).

Adapted from reference ([2012Ma48](#))

- [1940Ha23](#) O. Hahn and F. Strassmann, *Naturwissenschaften* **28**, 54 (1940).  
[1950Su04](#) N. Sugarman and H. Richter, *J. Chem. Phys.* **18**, 174 (1950).  
[2012Ma48](#) E. May and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 960 (2012).

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