

## <sup>142</sup>La

Vanden Bosch reported the observation of <sup>142</sup>La at the Instituut voor Kernfysisch Onderzoek in Amsterdam in the 1953 paper “Radiations from <sup>142</sup>Lanthanum” (1953Va04). Barium was separated from uranium fission products and decay and absorption curves as well as  $\gamma$ -ray spectra were recorded following chemical separation of lanthanum from the barium. “...the second barium precipitate yields only <sup>141</sup>Lanthanum and <sup>142</sup>Lanthanum with half lives of 3.6 hours and 77 minutes.” In 1942, Hahn and Strassmann reported a lanthanum activity of 74(5) min following the decay of a 6-min barium isotope (1942Ha06), however, they could not assign the mass number of this decay chain.

Adapted from reference (2012Ma48)

- 1942Ha06 O. Hahn and F. Strassmann, *Naturwissenschaften* **30**, 324 (1942).  
1953Va04 A. Vanden Bosch, *Physica* **19**, 374 (1953).  
2012Ma48 E. May and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 960 (2012).

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