

¹⁸⁰Au

“On-line γ -ray spectroscopic investigation of the ¹⁸⁰Hg($T_{1/2} = 3$ s) Decay Chain” reported the discovery of ¹⁸⁰Au by Husson et al. in 1977 at CERN ([1977Hu05](#)). ¹⁸⁰Au was produced following the β -decay of ¹⁸⁰Hg produced in the (p,3pxn) spallation reaction from a 600 MeV proton beam on a lead target. The identification was achieved with $\beta - \gamma$ coincidence measurements of the separated ¹⁸⁰Hg ions. “...no ambiguity occurs for the γ lines attributed to the ¹⁸⁰Hg \rightarrow ¹⁸⁰Au decay.” The half-life was determined to be 8.1(3) s.

Adapted from reference ([2010Sc35](#))

[1977Hu05](#) J. P. Husson, C. F. Liang, and C. Richard-Serre, J. Phys. (Paris), Lett. **38**, L-245 (1977).

[2010Sc35](#) A. Schuh, A. Fritsch, J. Q. Ginepro, M. Heim *et al.*, At. Data Nucl. Data Tables **96**, 307 (2010).

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