

¹⁹⁹Pb

In 1950, Neumann and Perlman described the first observation of ¹⁹⁹Pb in “Isotopic assignments of bismuth isotopes produced with high energy particles” ([1950Ne77](#)). Lead targets were bombarded with 100 MeV protons and deuterons from the Berkeley 184-inch cyclotron and ¹⁹⁹Pb was identified following chemical separation measuring activities with a mica end-window Geiger tube. “In order to determine the half-life for Pb¹⁹⁹, one of the lead fractions was subjected to successive removals of thallium at 60-min. intervals, and the yields of the 7-hr. component were used to define the half-life of the Pb¹⁹⁹ parent. A value of ~80 min. was obtained for the half-life of Pb¹⁹⁹ in this manner.”

Adapted from reference ([2013Fr04](#))

[1950Ne77](#) H. M. Neumann and I. Perlman, Phys. Rev. **78**, 191 (1950).

[2013Fr04](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

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