

¹³³La

The 1950 paper “Mass spectrographic identification of radioactive lanthanum isotopes” by Naumann et al. from the University of California at Berkeley described the observation of ¹³³La ([1950Na09](#)). Cesium was bombarded with 50 MeV α particles and ¹³³La was identified with a mass spectrograph and by measuring positrons, electrons, X- and γ -rays. “The irradiation of cesium with 50-Mev alpha-particles resulted in a new lanthanum activity of 4.0-hour half life.”

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

[1950Na09](#) R. A. Naumann, F. L. Reynolds, and I. Perlman, Phys. Rev. **77**, 398 (1950).

[2012Ma48](#) E. May and M. Thoennessen, At. Data Nucl. Data Tables **98**, 960 (2012).

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