

¹²¹La

Sekine et al. published the observation of ¹²¹La in their 1988 paper “Identification of a new isotope of ¹²¹La by means of element-selective mass separation” (1988Se08). An enriched ⁹²Mo target was bombarded with a 4.7 MeV/u ³²S beam from a tandem accelerator at the Japan Atomic Energy Research Institute. Gamma and beta singles as well as $\gamma - \beta$ coincidences were measured following on-line mass separation. “Some of the short-lived γ lines proved to coincide with Ba X-rays which are emitted in an electron-capture decay of ¹²¹La or in an internal conversion process associated with a transition in ¹²¹Ba, that is, the daughter of ¹²¹La. From these arguments we have assigned the observed 5.3-s activity to the ¹²¹La decay.”

Adapted from reference (2012Ma48)

1988Se08 T. Sekine, S. Ichikawa, M. Oshima, H. Iimura *et al.*, *Z. Phys. A* **331**, 105 (1988).

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

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”