

¹⁵¹Lu

Hoffmann et al. discovered ¹⁵¹Lu as reported in the 1982 paper “Proton radioactivity of ¹⁵¹Lu” (1982Ho04). The GSI UNILAC accelerator was used to bombard enriched ⁹⁶Ru targets with 261–302 MeV ⁵⁸Ni beams to produce ¹⁵¹Lu in (p2n) fusion-evaporation reactions. Reaction products were separated with the SHIP velocity separator onto position sensitive surface barrier detectors for energy and time measurements as well as subsequent particle decays. “We conclude that, barring any effects not foreseen both by the systematics and by theory, the observed Q_P value is highly compatible with emissions from the ¹⁵¹Lu ground state or an isomeric state very close to it.”

Adapted from reference (2012Gr19)

1982Ho04 S. Hofmann, W. Reisdorf, G. Munzenberg, F. P. Hessberger *et al.*, *Z. Phys. A* **305**, 111 (1982).

2012Gr19 J. L. Gross and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 983 (2012).

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