^{162}Lu

In "Decay of ^{162,164,165}Lu isotopes" Burman et al. reported the discovery of ^{162}Lu in 1978 (1978Bu13). A ∼105 MeV ^{16}O beam from the Yale heavy ion accelerator bombarded enriched $^{151}Eu_2O_3$ powder to produce ^{162}Lu in the reaction ^{151}Eu(^{16}O,5n). Decay curves, γ-ray singles spectra and $\gamma-\gamma$ coincidence spectra were recorded using multiple Ge(Li) detectors. "Only two γ rays at 167.0 and 320.3 keV have been observed in the decay of ^{162}Lu to the levels of ^{162}Yb. The half-life of ^{162}Lu (1.40±0.15 min) has been verified in the present work. No gamma rays have been reported earlier from the decay of ^{162}Lu isotope." Previous measurements were only published in an internal report (1969NeZW) and a conference proceeding (1976ErZY).

Adapted from reference (2012Gr19)

1969NeZW M. Neiman and D. Ward, REPT-UCRL-18667 **18667**, p. 59 (1969).

1976ErZY J. Ernst, R. Ibowski, H. Machner, T. Mayer-Kuckuk, and U. Seeberger, Proc. Intern. Conf. Selected Topics in Nucl. Struct. , Dubna (1976).

1978Bu13 C. Burman, P. Sen, and H. Bakhru, Can. J. Phys. **56**, 786 (1978).

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

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