

## <sup>82</sup>Ge

In the 1972 paper “Identification of new germanium isotopes in fission: Decay properties and nuclear charge distribution in the A = 78 to 84 mass region” del Marmol and Fettweis identified <sup>82</sup>Ge ([1972De43](#)). A uranyl nitrate solution of <sup>235</sup>U was irradiated with neutrons from the Mol BR1 graphite reactor. Gamma-ray spectra were recorded with a Ge(Li) detector following chemical separation. “By applying the ‘milking’ method to this same  $\gamma$ -ray, a half-life of  $4.60 \pm 0.35$  s was found for <sup>82</sup>Ge as shown in [the figure]”

Adapted from reference ([2012Gr19](#))

- [1972De43](#) P. Del Marmol and P. Fettweis, Nucl. Phys. A **194**, 140 (1972).  
[2012Gr19](#) J. L. Gross and M. Thoennessen, At. Data Nucl. Data Tables **98**, 983 (2012).

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