

## <sup>76</sup>Ga

The observation of <sup>76</sup>Ga was described by Takashi et al. in the 1961 paper “Some new activities produced by fast neutron bombardments” (1961Ta08). Fast neutrons produced by bombarding graphite targets with 20 MeV deuterons from the Tokyo 160 cm variable energy cyclotron irradiated a metallic germanium sample. Gamma- and beta-ray spectra were measured with NaI(Tl) and plastic scintillators, respectively. “Since no other product of fast neutron reaction on Ge can give such a high energy electron radiation and the cross section to produce the activity is equal in order of magnitude to that of  $\text{Ge}^{74}(n, p)\text{Ga}^{74}$  reaction, the activity is safely assigned to  $\text{Ga}^{76}$ .”

Adapted from reference (2012Gr19)

- 1961Ta08 K. Takahashi, T. Kuroyanagi, H. Yuta, K. Kotajima *et al.*, J. Phys. Soc. Jap. **16**, 1664 (1961).  
2012Gr19 J. L. Gross and M. Thoennessen, At. Data Nucl. Data Tables **98**, 983 (2012).

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