

⁶³Ga

The first observation of ⁶³Ga was published by Nurmia and Fink in 1965 in “A new short-lived isotope of gallium” (1965Nu02). The Argonne 66-in. cyclotron was used to bombard nickel targets with a 66 MeV ⁶Li beam and ⁶³Ga was formed in the reactions ⁵⁸Ni(⁶Li,n) and ⁶⁰Ni(⁶Li,3n). Beta-ray decay curves were measured with an end-window proportional counter following chemical separation. “The half-life is 33±4 s, and its assignment to Ga⁶³ has been established by radiochemical separations, including isolation of the 38.3 m Zn⁶³ daughter activity, and by cross bombardments.”

Adapted from reference (2012Gr19)

1965Nu02 M. Nurmia and R. W. Fink, Phys. Lett. **14**, 136 (1965).

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

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