

²⁸Mg

Sheline and Johnson identified ²⁸Mg for the first time in 1953 in “New long-lived magnesium-28 isotope” (1953Sh71). ²⁸Mg was produced in the reaction $\text{Si}^{30}(\gamma,2p)$ with 100 MeV γ -rays at the Chicago betatron and $\text{Mg}^{26}(\alpha,2p)\text{Mg}^{28}$ with 39 MeV α particles from the Berkeley 60-in. cyclotron. Activities were measured following chemical separation. “Magnesium–28, a 21-hr. β^- emitter, has been produced in both a betatron irradiation and a cyclotron bombardment.”

Adapted from reference (2012Th10)

1953Sh71 R. K. Sheline and N. R. Johnson, Phys. Rev. **89**, 520 (1953).

2012Th10 M. Thoennessen, At. Data Nucl. Data Tables **98**, 933 (2012).

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