

## **<sup>142</sup>Pr**

<sup>142</sup>Pr was identified by Marsh and Sugden in 1935 at the Old Chemistry Laboratory in Oxford, and published in the paper “Artificial radioactivity of the rare earth elements” (1935Ma03). Praseodymium oxide was irradiated with neutrons from a 400 mCi radon source in contact with powdered beryllium. “We have confirmed the 19 hour period of praseodymium and the 40 minute period of samarium discovered by Fermi and his co-workers...” Fermi and his co-workers mentioned in the quote did report a 18 h half-life but did not assign it to a specific nuclide (1935Am01).

Adapted from reference (2012Ma48)

- 1935Am01 E. Amaldi, O. D’Agostino, E. Fermi, B. Pontecorvo *et al.*, Proc. Roy. Soc. (London) A **149**, 522 (1935).  
1935Ma03 J. K. Marsh and S. Sugden, Nature **136**, 102 (1935).  
2012Ma48 E. May and M. Thoennessen, At. Data Nucl. Data Tables **98**, 960 (2012).

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