

²²⁵Pa

The first detection of ²²⁵Pa was reported in 1968 by Hahn et al. in “New neptunium isotopes, ²³⁰Np and ²²⁹Np” (1968Ha14). ²³³U was bombarded with 32–41.6 MeV protons from the Oak Ridge isochronous cyclotron forming ²²⁹Np in (p,5n) reactions. Reaction products were implanted on a catcher foil which was periodically rotated in front of a surface barrier Si(Au) detector which measured subsequent α decay. “The α -particle energies found for the ²²⁵Pa series are more precise than the previously available values: ²²⁵Pa, 7.25 ± 0.02 MeV (new value); ²²¹Ac, 7.63 ± 0.02 MeV; ²¹⁷Fr, 8.31 ± 0.02 MeV and ²¹³At, 9.06 ± 0.02 MeV.”

This assignment was changed from the original compilation (2013Fr03) which had incorrectly credited an earlier paper by Tove (1958To25) with the discovery of ²²⁵Pa.

- 1958To25 P. A. Tove, Ark. Fys. **13**, 549 (1958).
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