

¹²⁵Xe

The first observation of ¹²⁵Xe was published in the 1950 paper “Radioactive xenon 125, and xenon 127” by Anderson and Pool ([1950An05](#)). Enriched ¹²²Te and ¹²⁴Te targets were bombarded with alpha particles and ¹²⁵Xe was formed in the reaction ¹²²Te(α ,n). The experiment was most likely performed at Ohio State University. Absorption spectra and decay curves were measured with a Wulf electrometer following chemical separation. “From absorption measurements repeated at intervals it was possible to show that the intensity of the x-radiation decayed with a half-life of the order of 20 hours. This would seem to establish that the 20-hour Xe¹²⁵ activity decays, in large measure, by K-capture.”

Adapted from reference ([2013Ka01](#))

- [1950An05](#) D. L. Anderson and M. L. Pool, Phys. Rev. **77**, 142 (1950).
[2013Ka01](#) J. Kathawa, C. Fry, and M. Thoennessen, At. Data Nucl. Data Tables **99**, 22 (2013).

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