

## $^{135}\text{I}$

Wu described the identification of  $^{135}\text{I}$  at the University of California at Berkeley in the 1940 article “Identification of two radioactive xenons from uranium fission” (1940Wu05). Barium and cesium targets were irradiated with neutrons produced by bombarding beryllium with 16 MeV deuterons. Resulting activities were measured with an ionization chamber following chemical separation. “Based on these results, the two chains found in uranium and thorium fission may be identified as... and  $^{52}\text{Te}^{135} \sim 10$  min.  $\rightarrow^{53}\text{I}^{135}$  6.6 hr.  $\rightarrow^{54}\text{Xe}^{135}$  9.4 hr.  $\rightarrow^{55}\text{Cs}^{135}$ .” The 6.6-h iodine activity itself was observed by bombarding uranium with neutrons produced by the Berkeley cyclotron and reported earlier in 1940 (1940Se06).

Adapted from reference (2013Ka01)

- 1940Se06 E. Segre and C. S. Wu, Phys. Rev. **57**, 552 (1940).  
1940Wu05 C. S. Wu, Phys. Rev. **58**, 926 (1940).  
2013Ka01 J. Kathawa, C. Fry, and M. Thoennessen, At. Data Nucl. Data Tables **99**, 22 (2013).

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