^{170}Lu

In "Radioactive isotopes of lutetium and hafnium" Wilkinson and Hicks described the identification of ^{170}Lu in 1951 (1951Wi08). Targets of rare earth elements were irradiated with various light particles produced with the Berkeley 60-in. cyclotron and the linear accelerator. ^{170}Lu was primarily produced by bombarding thulium targets with 15−38 MeV α particles. Decay curves, absorption curves, and electron spectra were measured following chemical separation. "1.7±0.1-day Lu^{170} — This activity was observed in bombardments of thulium with alpha-particles of energy greater than about 30 Mev. It was also found in the decay of a short-lived hafnium parent (112-min Hf^{170}). Allocation to mass 170 thus seems fairly certain."

Adapted from reference (2012Gr19)

1951Wi08 G. Wilkinson and H. G. Hicks, Phys. Rev. **81**, 540 (1951).

2012Gr19 J. L. Gross and M. Thoennessen, At. Data Nucl. Data Tables **98**, 983 (2012).

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