^{122}Ag

In 1978, Shih et al. reported the first correct identification of ^{122}Ag in "Structure of neutron-rich even-even Cd Nuclei. I. Decay of ^{122}Ag" (1978Sh03). ^{122}Ag was produced via neutron induced fission in an $^{235}UO_2$ target at the Ames Laboratory research reactor and separated with the TRISTAN on-line mass-separator system. Gamma-ray singles and coincidences were measured with Ge(Li) detectors. "The half-life of ^{122}Ag was measured by γ multispectral scaling... Our value of 0.48±0.08 sec obtained from a weighted least-squares fit to the data is in poor agreement with the earlier value of 1.5±0.5 sec." The quoted previously measured half-life of 1.5(5) s (1971Fo22), and another value of ∼1 s (1976Lu02) could not be confirmed.

Adapted from reference (2010Sc10)

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