

## <sup>127</sup>In

In 1975, the first identification of <sup>127</sup>In was reported by Aleklett et al. “Beta-Decay Properties of Strongly Neutron-Rich Nuclei” (1975A111). The isotopes were produced by thermal-neutron induced fission of <sup>235</sup>U and identified using Studsvik’s OSIRIS separator. In Table 2, listing heavy fission fragments from silver to lanthanum, <sup>127</sup>In is identified with a half-life of 3.1 s. The table quotes a previous paper by Grapengiesser (1974Gr29) who observed two half-lives for mass 127 (1.3(2) s and 3.7(1) s) assigning them to either indium or cadmium. The 3.1 s half-life corresponds to an isomeric state. The 1.3 s half-life was assigned to the ground state of <sup>127</sup>In by Aleklett et al. three years later (1978A118).

Adapted from reference (2011Am01)

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