

^{127}Nd

Nitschke et al. discovered ^{127}Nd in the 1983 paper “New Beta-Delayed Proton Emitter in the Lanthanide Region” (1983Ni05). A ^{40}Ca beam from the Berkeley SuperHILAC bombarded a gas-cooled ^{92}Mo target. ^{127}Nd was produced in the fusion-evaporation reaction $^{92}\text{Mo}(^{40}\text{Ca},\alpha n)$ and identified with the on-line isotope separator OASIS. “From the growth and decay data, a half-life of 1.9 ± 0.4 s was deduced, which is in good agreement with the calculated value of 1.8 s for ^{127}Nd .”

Adapted from reference (2012Gr02)

1983Ni05 J. M. Nitschke, M. D. Cable, and W. D. Zeitz, *Z. Phys. A* **312**, 265 (1983).

2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 75 (2012).

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