

^{129}Ce

The first identification of ^{129}Ce was reported in 1977 by Gizon et al. in the paper “The $h_{11/2}$ and $g_{7/2}$ band structures in ^{131}Ce and ^{129}Ce ” (1977Gi17). The isotope was produced in the fusion-evaporation reaction $^{116}\text{Sn}(^{16}\text{O},3n)$ with an ^{16}O beam from the 88” sector-focussed cyclotron at Berkeley. ^{129}Ce was identified by $\gamma\gamma$ coincidence measurements of excitation functions. Two prior reports of half-life measurements mentioned in the paper “Before this work, no information was available on the energies and spin assignments of levels in ^{131}Ce and ^{129}Ce ; only their half-lives had been determined” were not published in refereed journals (1963La03, 1969ArZZ).

Adapted from reference (2009Gi07)

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