

## **$^{159}\text{Yb}$**

$^{159}\text{Yb}$  was observed in 1975 by Trautmann et al. and published in the paper “Spectroscopy on the gamma decay of highly excited high-spin states by angular-correlation and feeding-time measurements” (1975Tr08).  $^{18}\text{O}$  accelerated to 74.7 MeV by the Munich MP tandem Van de Graaff irradiated a  $^{144}\text{Sm}$  target and  $^{159}\text{Yb}$  was populated in the (3n) fusion evaporation reaction. Gamma-ray spectra were measured with a NaI(Tl)  $\gamma$  spectrometer and a Ge(Li) detector. “Unfortunately, our values for  $t_{1/2}^{feed}$  in  $^{159}\text{Yb}$  are only upper limits, also the intensity of E2 transitions has to be measured yet for this nucleus.” Five transitions of the  $i_{13/2}$  band in  $^{159}\text{Yb}$  were measured. The first measurement of the half-life of  $^{159}\text{Yb}$  was mentioned around the same time (1975Gr44), however, it was based on a conference report (1975GoYW).

Adapted from reference (2013Fr10)

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