

## $^{270}\text{Ds}$

The first observation of  $^{270}\text{Ds}$  was reported in 2001 in “The new isotope  $^{270}110$  and its decay products  $^{266}\text{Hs}$  and  $^{262}\text{Sg}$ ” by Hofmann et al. (2001Ho06). A 317 MeV  $^{64}\text{Ni}$  beam accelerated by the GSI UNILAC bombarded an enriched  $^{207}\text{Pb}$  target.  $^{270}\text{Ds}$  was produced in the (1n) fusion evaporation reaction and identified with a detector system at the velocity filter SHIP. “The ground state of  $^{270}110$  decays by  $\alpha$  emission with an energy of  $(11.03\pm 0.05)$  MeV and a half life of  $(100^{+140}_{-40}) \mu\text{s}$ .” In addition, Hofmann et al. reported an isomer half-life of  $6.0^{+8.2}_{-2.2}$  ms.

Adapted from reference (2013Th02)

2001Ho06 S. Hofmann, F. P. Hessberger, D. Ackermann, S. Antalic *et al.*, Eur. Phys. J. A **10**, 5 (2001).

2013Th02 M. Thoennessen, At. Data Nucl. Data Tables **99**, 312 (2013).

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