

## **<sup>246</sup>Md**

In 1996, Ninov et al. discovered <sup>246</sup>Md as reported in the paper “Identification of new mendelevium and einsteinium isotopes in bombardments of <sup>209</sup>Bi with <sup>40</sup>Ar” (1996Ni09). <sup>40</sup>Ar beams were accelerated to 4.78, 4.93, and 5.12 A·MeV with the GSI UNILAC accelerator and bombarded <sup>209</sup>Bi targets to form <sup>246</sup>Md in (3n) fusion-evaporation reactions. Recoil products were separated with the velocity filter SHIP and implanted in a position sensitive PIPS detector which also recorded subsequent  $\alpha$  decay and spontaneous fission. “From these data we obtained for <sup>246</sup>Md an  $\alpha$  energy of  $E_\alpha = (8740 \pm 20)$  keV and a half-life of  $T_{1/2} = (1.0 \pm 0.4)$  s, and for <sup>242</sup>Es  $E_\alpha = (7920 \pm 20)$  keV and  $T_{1/2} = (16_{-4}^{+6})$  s.”

Adapted from reference (2013Th02)

- 1996Ni09 V. Ninov, F. P. Hessberger, S. Hofmann, H. Folger *et al.*, Z. Phys. A **356**, 11 (1996).  
2013Th02 M. Thoennessen, At. Data Nucl. Data Tables **99**, 312 (2013).

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