

^{267}Sg

The observation of ^{267}Sg was reported in 2008 by Dvorak et al. in “Observation of the 3n evaporation channel in the complete hot-fusion reaction $^{26}\text{Mg} + ^{248}\text{Cm}$ leading to the new superheavy nuclide ^{271}Hs ” (2008Dv02). ^{26}Mg beams accelerated by the GSI linear accelerator UNILAC to 130 and 140 MeV bombarded a ^{248}Cm target to form ^{271}Hs in the (3n) fusion-evaporation reaction. ^{271}Sg was populated by subsequent α decay. Alpha-decay chains were measured with the online chemical separation and detection system COMPACT. “A relatively long half-life was measured for ^{267}Sg , which is consistent with the observed low α -particle energy, causing α /SF branching in this nucleus.” In a table a half-life of 80_{-20}^{+60} s is quoted for ^{267}Sg .

Adapted from reference (2013Th02)

2008Dv02 J. Dvorak, W. Bruchle, M. Chelnokov, Ch. E. Düllmann *et al.*, Phys. Rev. Lett. **100**, 132503 (2008).

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