^{286}Nh

In the 2010 paper "Synthesis of a new element with atomic number Z = 117", Oganessian et al. reported the first observation of ^{286}113 (2010Og01). A ^{249}Bk target was bombarded with 252 MeV and 247 MeV ^{48}Ca beam from the Dubna U400 cyclotron to form ^{293}117 and ^{294}117 in (4n) and (3n) evaporation reactions, respectively. ^{286}Nh was populated by subsequent α-decays. The residues were separated with a gas-filled recoil separator and implanted in a semiconductor detector array. Alpha particle decay and spontaneous fission events were recorded in this array and in eight detectors arranged in a box configuration around the implantation detector. "The decay properties of the neighboring isotopes ^{293}117 and ^{294}117, their daughters ^{289}115 and ^{290}115, as well as granddaughters ^{285}113 and ^{286}113, do not display substantial differences." One chain involving ^{286}Nh was observed.

Adapted from reference (2013Th02)

2010Og01 Yu. Ts. Oganessian, F. Sh. Abdullin, P. D. Bailey, D. E. Benker *et al.*, Phys. Rev. Lett. **104**, 142502 (2010).

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