^{271}Bh

Oganessian et al. reported the first observation of ^{271}Bh in the 2013 paper "Investigation of the ^{243}Am + ^{48}Ca reaction products previously observed in the experiments on elements 113, 115, and 117" (2013Og01). The Dubna U400 cyclotron was used to bombard enriched ^{243}Am targets with ^{48}Ca beams to form ^{287}115 in (4n) fusion evaporation reactions. ^{271}Bh 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. "Here, the α-decay energy and lifetime of ^{271}Bh were detected for the first time."

Adapted from reference (2014Th03)

2013Og01 Yu. Ts. Oganessian, F. Sh. Abdullin, S. N. Dmitriev, J. M. Gostic *et al.*, Phys. Rev. C **87**, 014302 (2013).

2014Th03 M. Thoennessen, Int. J. Mod. Phys. E **23**, 1430002 (2014).

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