^{278}Nh

The first identification of ^{278}Nh was reported by Morita et al. in "Experiment on the synthesis of element 113 in the reaction ^{209}Bi(^{70}Zn,n)^{278}113" in 2004 (2004Mo42). Bismuth targets were bombarded with a 352.6 MeV ^{70}Zn beam from the RIKEN linear accelerator facility RILAC. Recoil products were separated with the gas-filled recoil ion separator GARIS and detected with micro-channel plates and a silicon strip detector. Spontaneous fission and α-decay events were recorded with a silicon semiconductor detector box consisting of the central detector plus four additional silicon strip detectors forming a box. "In conclusion, the reaction product, followed by the decay chain observed in our experiment, was considered to be most probably due to the ^{209}Bi(^{70}Zn,n)^{278}113 reaction. As a result, the members of the decay chain were consequently assigned as ^{278}113, ^{274}111, ^{270}Mt, ^{266}Bh, and ^{262}Db." A single decay chain was observed.

Adapted from reference (2013Th02)

2004Mo42 K. Morita, K. Morimoto, D. Kaji, T. Akiyama *et al.*, J. Phys. Soc. Jap. **73**, 2593 (2004).

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

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