^{211}Th

In 1995, Uusitalo et al. described the observation of ^{211}Th in "α decay of the new isotopes ^{210}Th and ^{211}Th" (1995Uu01). ^{35}Cl beams with energies of 5.2−5.7 MeV/nucleon from the Jyväskylä K-130 cyclotron bombarded a ^{181}Ta target to form ^{211}Th in (5n) fusion-evaporation reactions. Recoil products were separated with the gas-filled recoil separator RITU and implanted in a position sensitive PIPS detector which also measured subsequent α decay. "The measured α energies of ^{211}Th and ^{210}Th are (7792±14) and (7899±17) keV, respectively. The half-lives were found to be (37^{+28}_{-11}) ms (^{211}Th) and (9^{+17}_{-4}) ms (^{210}Th)."

Adapted from reference (2013Fr03)

1995Uu01 J. Uusitalo, T. Enqvist, M. Leino, W. H. Trzaska *et al.*, Phys. Rev. C **52**, 113 (1995).

2013Fr03 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 345 (2013).

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