^{237}Cm

Ichikawa et al. reported the discovery of ^{237}Cm in the 2002 paper "Performance of the multiple target He/PbI_2 aerosol jet system for mass separation of neutron-deficient actinide isotopes" (2002Ic04). A stack of 21 ^{237}Np targets were bombarded with a 62 MeV ^{6}Li beam from the JAERI tandem accelerator forming ^{237}Cm in the (6n) fusion-evaporation reaction. ^{237}Cm was separated with the on-line separator JAERI-ISOL and implanted in a Si detector which also recorded subsequent α decay. "By comparing the α spectra [in the figures] the new α-line with the energy of (6660$\pm$10) keV observed at mass 237 fraction was assigned to ^{237}Cm."

Adapted from reference (2013Fr02)

2002Ic04 S. Ichikawa, K. Tsukada, M. Asai, H. Haba *et al.*, Nucl. Instrum. Methods Phys. Res. B **187**, 548 (2002).

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