^{182}Pb

The first observation of ^{182}Pb was reported in 1986 by Keller et al. in "Cold fusion in symmetric ^{90}Zr-induced reactions" (1986Ke03). A ^{94}Mo target was bombarded with a ^{90}Zr beam from the GSI UNILAC facility forming ^{182}Pb in the (2n) fusion evaporation reaction. Recoil products were identified with the velocity filer SHIP and implanted in two concentric surface-barrier detectors which also measured subsequent α decay. "It was possible to identify some new α-lines. The identification was based on cross-bombardments as well as on a comparison of excitation functions for several α-lines..." The measured α-decay energy of 6921(10) keV for ^{182}Pb was later confirmed by Toth et al. (6919(15) keV) (1987To09) who, however, did not acknowledge the work by Keller et al.

Adapted from reference (2013Fr04)

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