^{185}Pb

Cabot et al. announced the first observation of ^{185}Pb in the 1975 paper "Ca induced reactions on ^{141}Pr and ^{150}Sm: new gold and lead isotopes ^{176}Au, ^{175}Au, ^{185}Pb" (1975Ca06). ^{150}Sm targets were bombarded with 200−245 MeV ^{40}Ca beams from the Orsay ALICE accelerator. Recoil nuclei were collected with a helium jet and subsequent α decay was measured. "Thus we conclude that the 6.40 and 6.48 MeV activities are characteristic of the new isotope ^{185}Pb produced by the (Ca,5n) reaction. This assignment is supported by the systematics of α-decay for the Pb isotopes, as shown in [the figure]." The two α-decay energies correspond to the ground state and an isomeric state.

Adapted from reference (2013Fr04)

1975Ca06 C. Cabot, C. Deprun, H. Gauvin, B. Lagarde *et al.*, Nucl. Phys. A **241**, 341 (1975).

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