^{211}Fr

In 1964, Griffioen and MacFarlane reported the identification of ^{211}Fr in the paper "Alpha-decay properties of some francium isotopes near the 126-neutron closed shell" (1964Gr04). ^{197}Au, ^{203,205}Tl, and ^{208}Pb targets were bombarded with ^{16}O, ^{12}C, and ^{11}B beams with energies up to 10.38 MeV/amu from the Berkeley HILAC. Recoil products were collected on a catcher foil which was positioned in front of gold surface-barrier detector which measured subsequent α decay. "Fr^{211} and Fr^{210}: ... These facts seem to indicate that this group is due to two different isotopes, Fr^{211} and Fr^{210}, which were formed by (C^{12},6n) and (C^{12},7n) reactions, respectively... " The measured half-life was 186(4) s.

Adapted from reference (2013Fr09)

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