^{194}Rn

Andreyev et al. reported the first observation of ^{194}Rn in the 2006 paper "α decay of the new isotopes ^{193,194}Rn" (2006An36). A ^{144}Sm target was bombarded with 231−252 MeV ^{52}Cr beams from the GSI UNILAC forming ^{194}Rn in the (2n) fusion-evaporation reactions. Recoil products were separated with the velocity filter SHIP and implanted into a position-sensitive silicon detector which also recorded subsequent α decay. "By using all 26 full-energy correlated recoil-α_1 decays a half-life of $T_{1/2}$=0.78(16) ms was deduced for ^{194}Rn"

Adapted from reference (2013Fr09)

2006An36 A. N. Andreyev, S. Antalic, M. Huyse, P. Van Duppen *et al.*, Phys. Rev. C **74**, 064303 (2006).

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