^{222}Ac

Meinke et al. reported the observation of ^{222}Ac in the 1949 paper "Three additional collateral alpha-decay chains" (1949Me54). Thorium was bombarded with 150 MeV deuterons from the Berkeley 184-inch cyclotron. The α-decay chains from ^{226}Pa was measured following chemical separation. "Although the mass type has not yet been identified through known daughters as above, general considerations with regard to the method of formation and half-life of the parent substance, and the energies of all the members of the series suggest a collateral branch of the 4n+2 family: $_{91}$Pa^{226} $\xrightarrow{\alpha}{}_{89}$Ac^{222} $\xrightarrow{\alpha}{}_{87}$Fr^{218} $\xrightarrow{\alpha}{}_{85}$At^{214} $\xrightarrow{\alpha}{}_{88}$Bi^{210}(RaE)."

Adapted from reference (2013Fr03)

1949Me54 W. W. Meinke, A. Ghiorso, and G. T. Seaborg, Phys. Rev. **75**, 314 (1949).

2013Fr03 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 345 (2013).

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