

^{109}Te α decay (4.4 s) 1977Ki11

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes		NDS 161, 1 (2019)	1-Apr-2019

Parent: ^{109}Te : E=0; $J^\pi=(5/2^+)$; $T_{1/2}=4.4$ s 2; $Q(\alpha)=3198$ 6; % α decay=3.9 13

Facility: GSI; Source: on-line mass separated ^{109}Te from (HI,xn) reaction; Beam: E(^{58}Ni)=290 MeV; Target: 3 mg/cm² thick ^{58}Ni and ^{63}Cu ; Detectors: mass separator, mylar tape, plastic scintillator, one Ge(Li), one x-ray Ge detector, windmill system, ΔE -E telescope; Measured: β , p, α , γ , E γ , E α .

 ^{105}Sn Levels

E(level)	J^π	Comments
0	(5/2 ⁺)	J^π : from the Adopted Levels.

 α radiations

E α	E(level)	I α [‡]	HF [†]	Comments
3040 30	0	100	0.58 20	E α : From 1977Ki11.

[†] $r_0(^{105}\text{Sn})=1.627$ 13 weighted average of $r_0(^{106}\text{Sn})=1.57$ $r_0(^{106}\text{Sn})=1.57$ 5 and $r_0(^{104}\text{Sn})=1.632$ 14.

[‡] For absolute intensity per 100 decays, multiply by 0.039 13.