^{172}Lu IT decay (440 μs) 1967Co26,1966Gr22,1965Bj01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 75,199 (1995)	31-May-1995

Parent: ^{172}Lu: E=109.21 *11*; J^π=(1)$^+$; $T_{1/2}$=440 μs *12*; %IT decay=100.0

Measured $T_{1/2}$, G.

Other: 1967Co20.

^{172}Lu Levels

E(level)	J^{π} †	$T_{1/2}$	Comments
0.0	4$^-$		
41.86 *4*	1$^-$		
109.21 *11*	(1)$^+$	440 μs *12*	$T_{1/2}$: weighted average of 430 μs *50* (1965Bj01), 450 μs *20* (1966Gr22) and 434 μs *15* (1967Co26).

† From Adopted Levels.

γ(^{172}Lu)

E_γ	I_γ †‡	E_i(level)	J^π_i	E_f	J^π_f	Mult.	α #	$I_{(\gamma+ce)}$ ‡	Comments
41.86 *4*	0.0039 *2*	41.86	1$^-$	0.0	4$^-$	M3	2.58×10^4	100	α(L)=1.85×10^4; α(M)=5.43×10^3 E_γ: from ce data in ^{172}Hf ε decay (1962Va07). Mult.: from L-subshell ratios in ^{172}Hf ε decay.
67.35 *10*	50.4 *8*	109.21	(1)$^+$	41.86	1$^-$	E1	0.99	100	α(K)=0.800; α(L)=0.1452; α(M)=0.0326; α(N+..)=0.00896 E_γ: from ^{172}Hf ε decay (1979To18). Mult.: from ce data in ^{172}Hf ε decay.

† From I(γ+ce)/(1+α).

‡ Absolute intensity per 100 decays.

Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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