

^{172}Lu IT decay (3.7 min) 1962Va07

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

Parent: ^{172}Lu : E=41.86 4; $J^\pi=1^-$; $T_{1/2}=3.7$ min 5; %IT decay=100.0 ^{172}Lu -%IT decay: $\%\varepsilon+\%\beta^+ < 0.18$ from $\%\beta^+ < 0.015$ (1967Dz10) and $\varepsilon/\beta^+=11.2$ (1971Go40).1962Va07: measured $T_{1/2}$, G.Other: 1967Dz10 (% β^+ limit measured). ^{172}Lu Levels

E(level)	J^π [†]	$T_{1/2}$		Comments
0.0	4^-			
41.86 4	1^-	3.7 min 5	$T_{1/2}$: L x ray(t) (1962Va07).	

[†] From Adopted Levels. $\gamma(^{172}\text{Lu})$

E_γ	I_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α [‡]	$I_{(\gamma+ce)}$ [†]	Comments
41.86 4	0.0039 2	41.86	1^-	0.0	4^-	M3	2.58×10^4	100	$\alpha(L)=1.85 \times 10^4$; $\alpha(M)=5.43 \times 10^3$ E_γ : from ce data (1962Va07). I_γ : $I(\gamma+ce)/(1+\alpha)$. Mult.: from L-subshell ratios in ^{172}Hf ε decay (1966Ha23, 1962Va07).

[†] 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.

$^{172}\text{Lu IT decay (3.7 min)}$ **1962Va07**Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=100.0

