

^{166}Lu IT decay (1.41 min) 1974De09

Type	Author	History	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 109, 1103 (2008)	1-Mar-2008

Parent: ^{166}Lu : E=34.37 22; $J^\pi=3^{(-)}$; $T_{1/2}=1.41$ min 10; %IT decay=42 5 ^{166}Lu -%IT decay: The 34.37-keV level decays 42% 5 by IT decay and 58% 5 by ($\varepsilon+\beta^+$). ^{166}Lu Levels

E(level) [†]	$J^\pi\ddagger$	$T_{1/2}$	Comments
0.0	6^-	2.65 min 10	
34.37 22	$3^{(-)}$	1.41 min 10	%IT=42 5; % ε =58 5 (1974De09)

[†] From E γ .[‡] From Adopted Levels. $\gamma(^{166}\text{Lu})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α^\ddagger	$I_{(\gamma+ce)}\dagger$	Comments
34.37 22	34.37	$3^{(-)}$	0.0	6^-	(M3)	8.6×10^4 4	100	$\text{ce(L)}/(\gamma+ce)=0.725$ 24; $\text{ce(M)}/(\gamma+ce)=0.217$ 12; $\text{ce(N+)}/(\gamma+ce)=0.058$ 4 $\text{ce(N)}/(\gamma+ce)=0.052$ 4; $\text{ce(O)}/(\gamma+ce)=0.0064$ 4; $\text{ce(P)}/(\gamma+ce)=0.000118$ 7 $E_\gamma, \text{Mult.}$: from Adopted Gammas.

[†] For absolute intensity per 100 decays, multiply by 0.42 5.[‡] 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.

$^{166}\text{Lu IT decay (1.41 min)}$ **1974De09**Decay Scheme

%IT=42.5

