^{114}In ε decay (71.9 s)   **1969Co04**

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

Parent: ^{114}In: E=0.0; J^π=1$^+$; T$_{1/2}$=71.9 s 1; Q(ε)=1447.2 9; %ε+%β^+ decay=0.50 15

^{114}In-%ε+%β^+ decay: from Iβ^+=0.0035% 10 (1956Gr35) and ε/β^+=142 (theory).

Measured: T$_{1/2}$ (1968Ko25,1956Gr35,1956Br87,1937La05), β^+ s (1957Dz64), γ Ge(Li) (1969Co04).

See also ^{114}In β^- decay (71.9 s).

^{114}Cd Levels

E(level)	$J^{\pi\dagger}$	T$_{1/2}$
0.0	0$^+$	stable
558.43 3	2$^+$	
1134.2 2	0$^+$	
1305.7 4	0$^+$	

† From Adopted Levels.

ε,β^+ radiations

E(decay)	E(level)	I$\beta^{+\,\dagger}$	I$\varepsilon^\dagger$	Log ft	I($\varepsilon+\beta^+$)†	Comments
(141.5 10)	1305.7		<0.0002	>6.1	<0.0002	εK=0.8164 14; εL=0.1457 11; εM+=0.0380 3
(313.0 9)	1134.2		0.0042	5.5	0.0042	εK=0.8457 2; εL=0.12305 16; εM+=0.03127 5
(888.8 9)	558.43		≤0.07	≥5.3	≤0.07	εK=0.8586; εL=0.11306 2; εM+=0.028349 5
(1447.2 9)	0.0	0.0034 11	0.46 15	4.89 15	0.46 15	av Eβ=196.7 13; εK=0.8548 2; εL=0.11031 3; εM+=0.027581 8 E(decay): Eβ+=397 24 weighted average of 400 25 (1956Gr35) and 395 20 (1957Dz64).

† Absolute intensity per 100 decays.

$\gamma(^{114}$Cd)

E$_\gamma{}^\dagger$	I$_\gamma{}^{\ddagger\#}$	E$_i$(level)	J^π_i	E$_f$	J^π_f
558.43 3	<48	558.43	2$^+$	0.0	0$^+$
575.8 2	2.8 3	1134.2	0$^+$	558.43	2$^+$
747.8 2	<0.13	1305.7	0$^+$	558.43	2$^+$

† From 1969Co04, 1974HeYW.
‡ From 1969Co04.
$^\#$ For absolute intensity per 100 decays, multiply by 0.0014 4.

^{114}In ε decay (71.9 s)   1969Co04

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 decays through this branch

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

1^+ 0.0   71.9 s 1

$\%\varepsilon + \%\beta^+ = 0.50$ $Q_\varepsilon = 1447.2$ 9

$^{114}_{49}$In$_{65}$

		$I\beta^+$	$I\varepsilon$	Log ft
0^+	1305.7		<0.0002	>6.1
0^+	1134.2		0.0042	5.5
2^+	558.43		≤0.07	≥5.3
0^+	0.0	stable 0.0034	0.46	4.89

747.8 <0.036
575.8 0.78
558.43 <13

$^{114}_{48}$Cd$_{66}$