^{114}In IT decay (43.1 ms)

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

Parent: ^{114}In: E=501.948 *3*; $J^\pi=8^-$; $T_{1/2}$=43.1 ms *6*; %IT decay=100.0

Activity produced from: In(γ,γ') E=9.7 MeV (1958Du80); Cd(p,γ) E=10 MeV (1967Iv04); In(n,γ) E=th (1968Al08); In(n,γ) E=14 MeV (1968Ko25).

Other measurements: 1956Le46, 1957Le20, 1959Ca13, 1959Gl56, 1960Mo19, 1972Br53.

^{114}In Levels

E(level)	J^π †	$T_{1/2}$ †	Comments
0.0	1^+	71.9 s *1*	
190.34 *6*	5^+	49.51 d *1*	
501.98 *6*	8^-	43.1 ms *6*	$T_{1/2}$: weighted average: 43.5 ms *10* (1968Ko25), 43.5 ms *20* (1966MoZZ), 42 ms *2* (1968Al08), 39.4 ms (1967Iv04), 42 ms *5* (1958Du80), 41.8 ms *14* (1960Mo19), 46.5 ms *20* (1966Me02), 42 ms *2* (1959Gl56).

† From Adopted Levels.

$\gamma(^{114}In)$

Iγ normalization: from ΣI(γ+ce) to g.s.=100.

E_γ	I_γ †	E_i(level)	J^π_i	E_f	J^π_f	Mult.	α ‡	$I_{(\gamma+ce)}$ †	Comments
190.34 *6*	15.56 *15*	190.34	5^+	0.0	1^+	E4	5.22 *6*		ce(K)/(γ+ce)=0.420; ce(L)/(γ+ce)=0.333; ce(M)/(γ+ce)=0.0699; ce(N)/(γ+ce)=0.01409 B(E4)(W.u.)=0.0244 *7* I_γ: from 1994Co02.
311.652 *13*	89.85 *24*	501.98	8^-	190.34	5^+	E3	0.1130	100	ce(K)/(γ+ce)=0.0793; ce(L)/(γ+ce)=0.01793; ce(M)/(γ+ce)=0.00359; ce(N)/(γ+ce)=0.00074 α(K)exp=0.10 *2*; K/L=4.5 *5* (1965Kh05) B(E3)(W.u.)=0.1111 *16* E_γ: from 1975Ra07. I_γ: from I(γ+ce)=100, α=0.113 *3*.

† 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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