^{109}In IT decay (1.34 min) 1968Sm08,1966Ma39

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Kumar(a), J. Chen(b) and F. G. Kondev	NDS 137, 1 (2016)	31-May-2016

Parent: ^{109}In: E=649.79 *10*; $J^\pi=1/2^-$; $T_{1/2}$=1.34 min *6*; %IT decay=100.0

All data are taken from Adopted Levels, Gammas, unless otherwise noted.

^{109}In Levels

E(level)	J^π	$T_{1/2}$	Comments
0	$9/2^+$	4.159 h *10*	
649.79 *10*	$1/2^-$	1.34 min *6*	%IT=100 $T_{1/2}$: weighted average of 1.34 min *7* (651γ(t) in 1968Sm08), 1.35 min *20* (658γ(t) in 1966Ma39) and 1.3 min *2* (1956Ku51).

$\gamma(^{109}In)$

E_γ	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α †	$I_{(\gamma+ce)}$ ‡	Comments
649.8 *2*	93.51 *9*	649.79	$1/2^-$	0	$9/2^+$	M4	0.0694	100	ce(K)/(γ+ce)=0.0544 *8*; ce(L)/(γ+ce)=0.00854 *12*; ce(M)/(γ+ce)=0.001701 *24* ce(N)/(γ+ce)=0.000309 *5*; ce(O)/(γ+ce)=2.10×10^{-5} *3* α(K)=0.0581 *9*; α(L)=0.00914 *13*; α(M)=0.00182 *3* α(N)=0.000331 *5*; α(O)=2.25×10^{-5} *4* I_γ: from I(γ+ce)=100 and α(total)=0.0694.

† Additional information 1.

‡ Absolute intensity per 100 decays.

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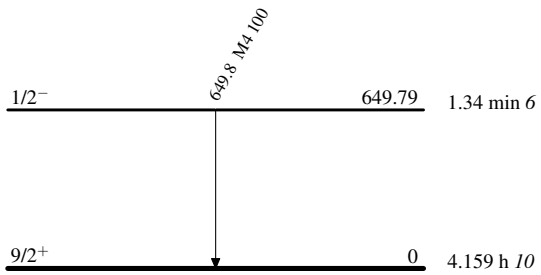
Decay Scheme

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



$^{109}_{49}In_{60}$