^{101}Ag IT decay (3.10 s) 1970Hn03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

Parent: ^{101}Ag: E=274.3; $J^\pi=1/2^-$; $T_{1/2}$=3.10 s *10*; %IT decay=100.0
Activity: ^{102}Pd(p,2n) (1975Ca01,1978Ha11).
Measured: γ, γ(t) (1978Ha11), ce (1970Hn03).

^{101}Ag Levels

E(level)	J^π	$T_{1/2}$	Comments
0	$9/2^+$	11.1 min *3*	
98.1	$7/2^+$		
274.3	$1/2^-$	3.10 s *10*	$T_{1/2}$: from Adopted Levels.

$\gamma(^{101}Ag)$

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α[#]	$I_{(\gamma+ce)}$[‡]	Comments
97.7 *5*	61	98.1	$7/2^+$	0	$9/2^+$	M1+E2	0.39 *5*	0.59 *3*		α(K)=0.490 *25*; α(L)=0.082 *8*; α(M)=0.0158 *16*; α(N+..)=0.00273 *25* α(N)=0.00264 *25*; α(O)=8.5×10^{-5} *4* α(K)exp=0.47 *5* Mult.: from 1970Hn03. K/(L+M)= 3.9 *4*.
175.5 *5*	47.3	274.3	$1/2^-$	98.1	$7/2^+$	E3		1.105	21	α(K)=0.771 *14*; α(L)=0.271 *6*; α(M)=0.0542 *11*; α(N+..)=0.00878 *18* α(N)=0.00867 *18*; α(O)=0.0001149 *21* α(K)exp=0.69 *7* B(E3)(W.u.)=0.0597 *25* Mult.: from 1970Hn03. K/(L+M)= 2.6 *2*.

[†] From 1980Ka05.
[‡] 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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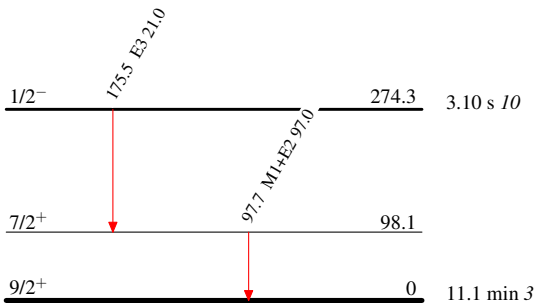
Decay Scheme

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

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



$^{101}_{47}Ag_{54}$