^{163}Ho IT decay (1.09 s) 1967Ge09,1966Bo02,1958Go78

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich, Balraj Singh	NDS 111, 1211 (2010)	12-Apr-2010

Parent: ^{163}Ho: E=297.88 *10*; $J^{\pi}=1/2^+$; $T_{1/2}$=1.09 s *3*; %IT decay=100.0

Additional information 1.

1967Ge09: γ, $T_{1/2}$.

1966Bo02: x rays, γ, ce (mag spect).

1958Go78: x rays, γ, and excitation functions.

1957Ha12: γ, $T_{1/2}$.

^{163}Ho Levels

E(level)	J^{π} †	$T_{1/2}$	Comments
0.0	$7/2^-$		π7/2[523] bandhead.
297.88 *10*	$1/2^+$	1.09 s *3*	π1/2[411] bandhead.

† From Adopted Levels.

γ(^{163}Ho)

E_γ	I_γ †	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α ‡	$I_{(\gamma+ce)}$ †	Comments
297.88 *10*	77.7 *5*	297.88	$1/2^+$	0.0	$7/2^-$	E3	0.287	100	ce(K)/(γ+ce)=0.1182 *15*; ce(L)/(γ+ce)=0.0801 *11*; ce(M)/(γ+ce)=0.0195 *3*; ce(N+)/(γ+ce)=0.00498 *8* ce(N)/(γ+ce)=0.00443 *7*; ce(O)/(γ+ce)=0.000548 *8*; ce(P)/(γ+ce)=6.94×10^{-6} *10* E_γ: from the Adopted Values. I_γ: from I(γ+ce) and α. Mult.: from α(K)exp= 0.17 *6* (1958Go78), 0.2 (1966Bo02).

† 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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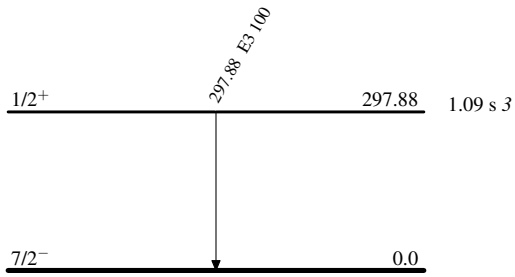
Decay Scheme

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

%IT=100.0



$^{163}_{67}Ho_{96}$