^{141}Nd IT decay (62.0 s) 1988Ch39

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

Parent: ^{141}Nd: E=756.51 *5*; $J^{\pi}=11/2^{-}$; $T_{1/2}$=62.0 s *8*; %IT decay=99.975 *25*

^{141}Nd-%IT decay: according to 1988Ch39 the sum of the three estimated branches from the ^{141}Nd ε decay (62.0 s) is less then 0.05% (see β^{+},ε Data table in ^{141}Nd ε decay (62.0 s) dataset) leaving the difference to 100% to the ^{141}Nd IT decay (62.0 s) here adopted.

Measured: γ, γ(t), K x ray (1968Be28,1967Ge09,1969Ja02,1972De23).

^{141}Nd Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	$3/2^{+}$	2.49 h *3*	
756.51 *5*	$11/2^{-}$	62.0 s *8*	%IT=99.975 *25*

γ(^{141}Nd)

E_{γ}	I_{γ} ‡	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α †	$I_{(\gamma+ce)}$ ‡	Comments
756.51 *5*	91.59 *11*	756.51	$11/2^{-}$	0.0	$3/2^{+}$	M4	0.0916 *13*	99.975 *25*	ce(K)/(γ+ce)=0.0679 *9*; ce(L)/(γ+ce)=0.01257 *17*; ce(M)/(γ+ce)=0.00277 *4* ce(N)/(γ+ce)=0.000620 *9*; ce(O)/(γ+ce)=9.20×10^{-5} *13*; ce(P)/(γ+ce)=5.28×10^{-6} *7* α(K)=0.0741 *10*; α(L)=0.01373 *19*; α(M)=0.00302 *4* α(N)=0.000676 *9*; α(O)=0.0001004 *14*; α(P)=5.76×10^{-6} *8* E_{γ}: from 1988Ch39. Mult.: α(K)exp=0.084 *12* from K x ray/Iγ (1970Gr23).

† Additional information 1.
‡ Absolute intensity per 100 decays.

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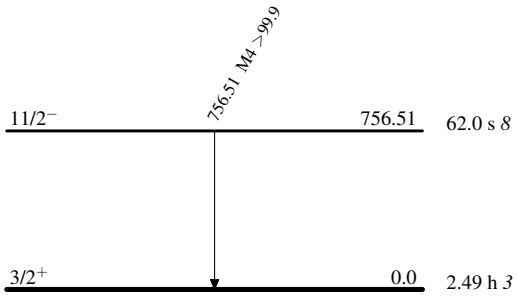
Decay Scheme

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

%IT=99.975 *25*



$^{141}_{60}Nd_{81}$