^{143}Sm IT decay (66 s) 1970Fe01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 113, 715 (2012)	31-May-2011

Parent: ^{143}Sm: E=753.99 *16*; J^π=11/2$^-$; $T_{1/2}$=66 s *2*; %IT decay=99.76 *5*
^{143}Sm-%IT decay: See ^{143}Sm ε Decay (66 s).
^{143}Sm-%IT decay: Additional information 1.
Measured: γ.

^{143}Sm Levels

E(level)	J^π[†]	$T_{1/2}$	Comments
0.0	3/2$^+$		
754.4 *7*	11/2$^-$	66 s *2*	%IT=99.76 *6* See ^{143}Sm ε decay (66 s). $T_{1/2}$ weighted average: 67 s *2* (1969Ja02), 67 s *3* (1967Go06), 65 s *3* (1963Al05), 64 s *3* (1960Ko02).

[†] From Adopted Levels.

γ(^{143}Sm)

E_γ	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[‡]	Comments
754.4 *7*	100	754.4	11/2$^-$	0.0	3/2$^+$	(M4)	0.1069	%Iγ=90.1 *1* α(K)=0.0857 *13*; α(L)=0.01657 *24*; α(M)=0.00370 *6*; α(N+..)=0.000970 *14* α(N)=0.000840 *13*; α(O)=0.0001228 *18*; α(P)=6.67×10^{-6} *10* I_γ: From decay scheme. E_γ: from 1969Ja02.

[†] From Adopted Gammas.
[‡] Additional information 2.
[#] For absolute intensity per 100 decays, multiply by 0.9012 *5*.

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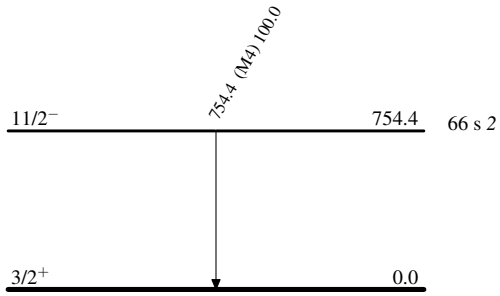
Decay Scheme

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

%IT=99.76 *5*



$^{143}_{62}Sm_{81}$