^{183}Os IT decay (9.9 h) 1960Ne03,1968Ha39,1970Ak01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Parent: ^{183}Os: E=170.70 *7*; $J^{\pi}=1/2^{-}$; $T_{1/2}$=9.9 h *3*; %IT decay=15 *2*

^{183}Os-%IT decay: The mean of 0.16 *2* (1960Ne03) and 0.14 *2* (1968Ha39). Other values: 0.29 *10* (1988Ro13), 0.16 (1970Ak01).

Total energy release for this decay scheme is 23.8 *19* cf. QxBR=25.6 *34*.

^{183}Os Levels

E(level)†	J^{π}‡	$T_{1/2}$	Comments
0	$9/2^{+}$		
170.7 *1*	$1/2^{-}$	9.9 h *3*	$T_{1/2}$: from 1960Ne03. Other values: 10 h *1* (1958Fo47), 9.1 h (1976Ka22).

† From Eγ.

‡ From Adopted Levels.

$\gamma(^{183}Os)$

E_{γ}‡	I_{γ}#	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α†	Comments
170.7 *1*	0.478 *7*	170.7	$1/2^{-}$	0	$9/2^{+}$	M4	208	α(K)=63.1 *9*; α(L)=105.1 *16*; α(M)=30.9 *5* α(N)=7.71 *12*; α(O)=1.194 *18*; α(P)=0.0386 *6* I_{γ}: from I(γ+ce)=100 and α. Mult.: from L1:L2:L3:M3:N3=0.69:0.21:1.00:0.39:0.17 (1960Ne03), K:L1:L2:L3=0.62:0.59:0.126:1.0 (1968Ha39), K:L1:L2:L3=0.7:0.6:0.15:1.0 (1970Ak01).

† Additional information 1.

‡ From Adopted Gammas.

For absolute intensity per 100 decays, multiply by 0.15 *2*.

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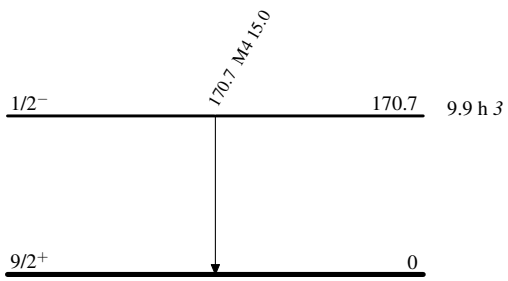
Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=15 *2*



$^{183}_{76}Os_{107}$