

^{189}Os IT decay (5.81 h) [1960Ne04](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, Balraj Singh		NDS 142, 1 (2017)	15-Apr-2017

Parent: ^{189}Os : E=30.81 4; $J^\pi=9/2^-$; $T_{1/2}=5.81$ h 10; %IT decay=100.0

^{189}Os -%IT decay: %IT=100.

 ^{189}Os Levels

E(level)	J^π^\dagger	$T_{1/2}^\dagger$
0.0	$3/2^-$	
30.81 4	$9/2^-$	5.81 h 10

† From Adopted Levels.

 $\gamma(^{189}\text{Os})$

I(γ +ce) normalization: I(γ +ce)(30.8 γ)=100.

E_γ^\ddagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	δ	α^\dagger	$I_{(\gamma+ce)}^\#$	Comments
30.81 4	30.81	$9/2^-$	0.0	$3/2^-$	M3+E4	0.04 2	3.12×10^5 10	100	ce(L)/(γ +ce)=0.707 19; ce(M)/(γ +ce)=0.227 11 ce(N)/(γ +ce)=0.057 3; ce(O)/(γ +ce)=0.0085 5; ce(P)/(γ +ce)=0.000152 6 $\alpha(\text{L})=2.21 \times 10^5$ 6; $\alpha(\text{M})=7.1 \times 10^4$ 4 $\alpha(\text{N})=1.78 \times 10^4$ 9; $\alpha(\text{O})=2.66 \times 10^3$ 10; $\alpha(\text{P})=47.5$ 8 L1:L2:L3:M1:M3:N1:N3:O3=30:2:100:7:33: 3:12:3. Mult.: deduced by the evaluators assuming 50% uncertainty for the conversion electron intensities. In 1960Ne04 , the authors state the uncertainties are large due to a steep efficiency curve, but do not give the values. δ : from Adopted Gammas. Other: >0.46 from subshell ratios in 1960Ne04 .

† From BrIcc v2.3b (16-Dec-2014) [2008Ki07](#), "Frozen Orbitals" appr.

‡ Weighted average of values from β -decay ([1962Cr02](#)), IT decay ([1960Ne04](#)) and ^{189}Ir ε decay ([1970Ma37](#)).

$^\#$ Absolute intensity per 100 decays.

 ^{189}Os IT decay (5.81 h) $^{196}\text{Ne04}$ Decay Scheme

%IT=100.0

