

$^{207}\text{Pb IT decay}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Lalkovski	NDS 112, 707 (2011)		1-Aug-2010

Parent: ^{207}Pb : E=1633.368 5; $J^\pi=13/2^+$; $T_{1/2}=0.806 \text{ s } 5$; %IT decay=100.0 $^{207}\text{Pb Levels}$

E(level) [†]	$J^\pi\ddagger$	$T_{1/2}$	Comments
0	$1/2^-$	stable	
569.7028 20	$5/2^-$		
1633.368 5	$13/2^+$	0.806 s 5	$T_{1/2}$: Weighted average of 0.81 s 4, 0.775 s 38 (1986Al11), 0.810 s 8 (1973Sa22), 0.80 s 1 (1971Sc38), 0.77 s 3 (1971Gl09), 0.81 s 2 (1961Gl16), 0.84 s 2 (1956Ca50), 0.799 s 13 (1955Be24), 0.80 s 2 (1952Ho41), 0.82 s 2 (1951La18). Others: 0.743 s 22 (1967Yu01), 0.797 s (1958Fa08), 0.948 s 14 (1956Ve10), 0.8 s 1 (1954Re33), 0.88 s 10 (1953Fr17).

[†] From a least-squares fit to E γ .[‡] From the Adopted Levels. $\gamma(^{207}\text{Pb})$

$E_\gamma\#$	$I_\gamma @\&$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	$\delta^{\ddagger\#}$	α^\dagger	Comments
569.698 2	97.9 14	569.7028	$5/2^-$	0	$1/2^-$	E2		0.0216	$\alpha(K)=0.01583 \text{ 23}; \alpha(L)=0.00439 \text{ 7};$ $\alpha(M)=0.001081 \text{ 16}$ $\alpha(N)=0.000274 \text{ 4}; \alpha(O)=5.21\times 10^{-5}$ $8; \alpha(P)=4.29\times 10^{-6} \text{ 6}$
1063.656 3	88.8 13	1633.368	$13/2^+$	569.7028	$5/2^-$	M4+E5	+0.02 I	0.1257	$\alpha(K)=0.0942 \text{ 14}; \alpha(L)=0.0238 \text{ 4};$ $\alpha(M)=0.00589 \text{ 9}$ $\alpha(N)=0.001508 \text{ 22}; \alpha(O)=0.000296$ $5; \alpha(P)=2.87\times 10^{-5} \text{ 4}$

[†] Additional information 1.[‡] If No value given it was assumed $\delta=1.00$ for E2/M1, $\delta=1.00$ for E3/M2 and $\delta=0.10$ for the other multipolarities.

From adopted gammas.

@ From $Ti(570\gamma)=Ti(1064\gamma)=100$, and α' s.

& Absolute intensity per 100 decays.

