

^{252}Cf SF decay [1999Sa58](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 110, 507 (2009)		1-Oct-2008

Parent: ^{252}Cf : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=2.645$ y; %SF decay=?

[Additional information 1.](#)

Measured E_γ , and $\gamma\gamma$ using the Gammasphere array of 72 Compton suppressed Ge detectors.

 ^{145}Ce Levels

E(level)	J^π	Comments
0		$J^\pi: J^\pi=(5/2^-)$ in Adopted Levels.
381.0		
946.3	$(9/2^+)$	
1044.6 [†]	$(13/2^+)$	
1427.7 [†]	$(17/2^+)$	
1948.4 [†]	$(21/2^+)$	
2621.7 [†]	$(25/2^+)$	
3360.2 [†]	$(29/2^+)$	

[†] Band(A): Yrast band built on $\nu i_{13/2}$ state.

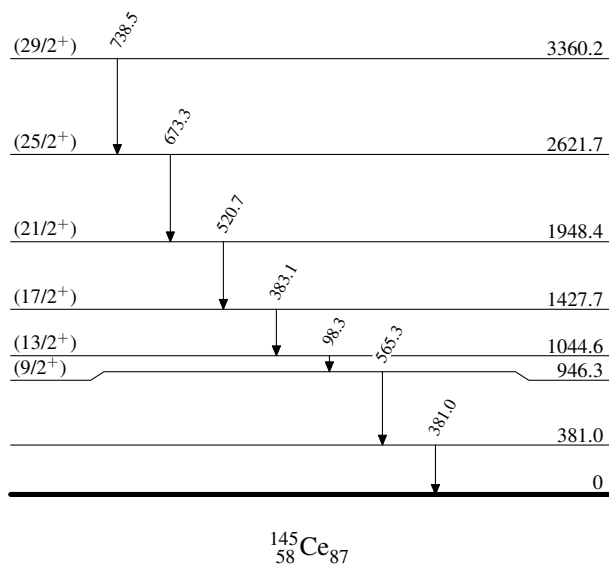
 $\gamma(^{145}\text{Ce})$

E_γ [†]	$E_i(\text{level})$	J^π_i	E_f	J^π_f	Comments
98.3	1044.6	$(13/2^+)$	946.3	$(9/2^+)$	
381.0	381.0		0		
383.1	1427.7	$(17/2^+)$	1044.6	$(13/2^+)$	
520.7	1948.4	$(21/2^+)$	1427.7	$(17/2^+)$	
565.3	946.3	$(9/2^+)$	381.0		
673.3	2621.7	$(25/2^+)$	1948.4	$(21/2^+)$	
738.5	3360.2	$(29/2^+)$	2621.7	$(25/2^+)$	This γ -ray transition does not belong to the yrast band (2005Ve09).

[†] Different level scheme placement in $^{208}\text{Pb}(^{18}\text{O}, X\gamma)$ ([2005Ve09](#)).

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Level Scheme



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