

^{248}Cm SF decay **1995Rz01**

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

Parent: ^{248}Cm : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=3.40\times 10^5$ y 4; %SF decay=?

Measured triple γ -ray and x-ray- γ coin using the EUROGAM-1 array of 45 Compton-suppressed germanium detectors and 5 low-energy photon spectrometers (LEPS). Gating on x-rays was used to identify the chemical element, and on γ rays from niobium complementary fission fragments, to identify actual γ rays in ^{145}Cs .

 ^{145}Cs Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0 [†]	3/2 ⁺	0.587 s 5	$J^\pi, T_{1/2}$: From Adopted Levels. $\mu=0.95$ 15, deduced from experimental γ -ray branching ratios.
88.7 [†]			
203.8 [†]			
359.4 [†]			
550.8 [†]			
742.8 [‡]			
1068.1 [‡]			
1510.8 [‡]			

[†] Band(A): 3/2[422].

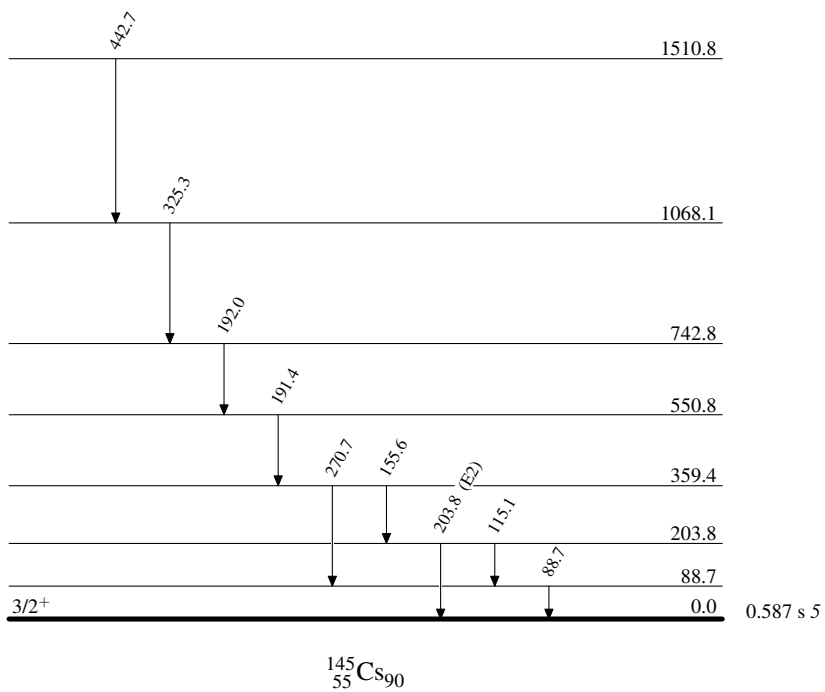
[‡] Band(B): Band Sequence.

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

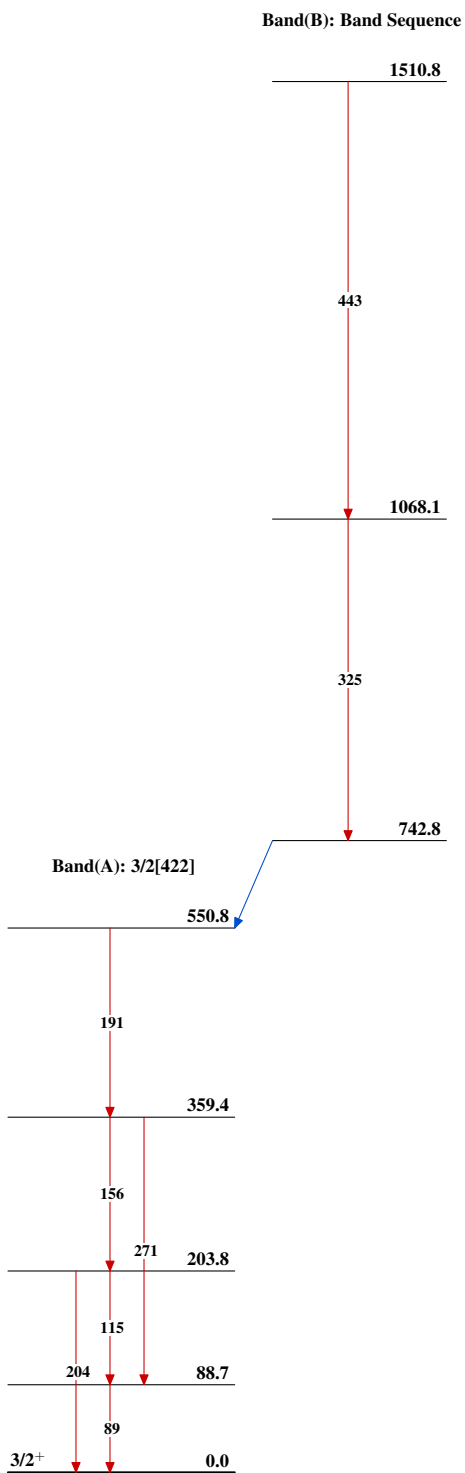
E_γ	$E_i(\text{level})$	E_f	J^π_f	Mult.	Comments
88.7	88.7	0.0	3/2 ⁺		
115.1	203.8	88.7			
155.6	359.4	203.8			
191.4	550.8	359.4			
192.0	742.8	550.8			
203.8	203.8	0.0	3/2 ⁺	(E2)	Mult.: From systematics in ^{141}Cs and ^{143}Cs .
270.7	359.4	88.7			
325.3	1068.1	742.8			
442.7	1510.8	1068.1			

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Level Scheme



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 $^{145}_{55}\text{Cs}_{90}$