

$^{248}\text{Cm}$  SF decay [1994Sh26](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

Parent:  $^{248}\text{Cm}$ :  $E=0.0$ ;  $J^\pi=0^+$ ;  $T_{1/2}=3.48\times 10^5$  y 6; %SF decay=?

Measured  $\gamma$ ,  $\gamma\gamma$  in Eurogam. B(E2) ratios compared with rigid triaxial rotor model.

 $^{114}\text{Ru}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$T_{1/2}$	Comments
0.0 <sup>‡</sup>	0 <sup>+</sup>	0.52 s 5	$T_{1/2}$ : Adopted value.
265.6 <sup>‡</sup> 5	2 <sup>+</sup>		
563.9 5	(2 <sup>+</sup> )		
708.8 5	(4 <sup>+</sup> )		
829.3 5	(3 <sup>+</sup> )		
1299.5 <sup>‡</sup> 5	(6 <sup>+</sup> )		
1373.3 5	(5 <sup>+</sup> )		
2008.6 <sup>‡</sup> 5	(8 <sup>+</sup> )		
2793.1 <sup>‡</sup> 5	(10 <sup>+</sup> )		

<sup>†</sup> Assignments based on systematics and similarity with lighter isotopes.

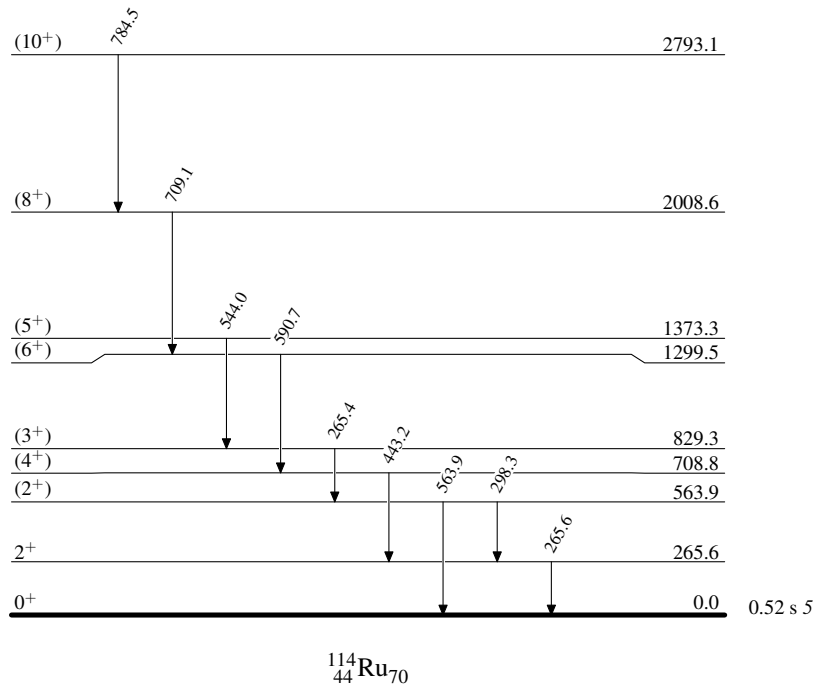
<sup>‡</sup> Band(A):  $\Delta J=2$  sequence built on g.s..

 $\gamma(^{114}\text{Ru})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
265.4 5	829.3	(3 <sup>+</sup> )	563.9	(2 <sup>+</sup> )
265.6 5	265.6	2 <sup>+</sup>	0.0	0 <sup>+</sup>
298.3 5	563.9	(2 <sup>+</sup> )	265.6	2 <sup>+</sup>
443.2 5	708.8	(4 <sup>+</sup> )	265.6	2 <sup>+</sup>
544.0 5	1373.3	(5 <sup>+</sup> )	829.3	(3 <sup>+</sup> )
563.9 5	563.9	(2 <sup>+</sup> )	0.0	0 <sup>+</sup>
590.7 5	1299.5	(6 <sup>+</sup> )	708.8	(4 <sup>+</sup> )
709.1 5	2008.6	(8 <sup>+</sup> )	1299.5	(6 <sup>+</sup> )
784.5 5	2793.1	(10 <sup>+</sup> )	2008.6	(8 <sup>+</sup> )

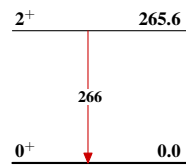
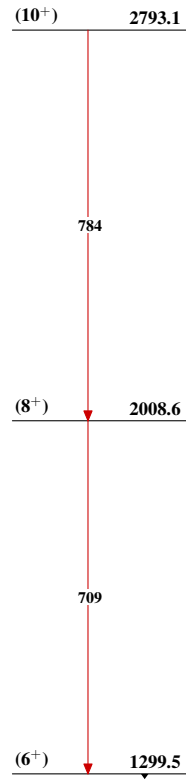
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## Level Scheme



$^{248}\text{Cm}$  SF decay 1994Sh26

Band(A):  $\Delta J=2$  sequence  
built on g.s.

 $^{114}_{44}\text{Ru}_{70}$