

^{248}Cm SF decay **2007Ku23**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 1471 (2010)	1-May-2009

Parent: ^{248}Cm : $E=0$; $J^\pi=0^+$; $T_{1/2}=348\times 10^3$ y 6; %SF decay=?

^{248}Cm - $T_{1/2}$: From **2003Au03**.

Measured $E\gamma$, $\gamma\gamma$ coin using EUROAM2 array and IGISOL mass spectrometer.

 ^{113}Rh Levels

<u>E(level)[†]</u>	<u>J^π</u>	<u>E(level)[†]</u>	<u>J^π</u>	<u>E(level)[†]</u>	<u>J^π</u>	<u>E(level)[†]</u>	<u>J^π</u>
0.0	(7/2 ⁺)	578.6 [‡] 3	(7/2 ⁺)	786.3 5	(7/2 ⁺)	1071.1 [‡] 5	(11/2 ⁺)
211.6 3	(9/2 ⁺)	600.7 4	(3/2 ⁺)	834.4 3	(5/2 ⁺)	1138.3 11	(11/2 ⁺)
263.2 [‡] 2	(3/2 ⁺)	666.2 11	(1/2 ⁻)	883.2 15		1258.7 5	
351.1 [‡] 2	(5/2 ⁺)	784.6 [‡] 3	(9/2 ⁺)	911.6 4		1259.6 11	

[†] From least-squares fit to $E\gamma$'s, assuming an uncertainty of 0.3 keV when $E\gamma$ stated to tenth of a keV, 1 keV otherwise.

[‡] Band(A): 3/2⁺ band.

 $\gamma(^{113}\text{Rh})$

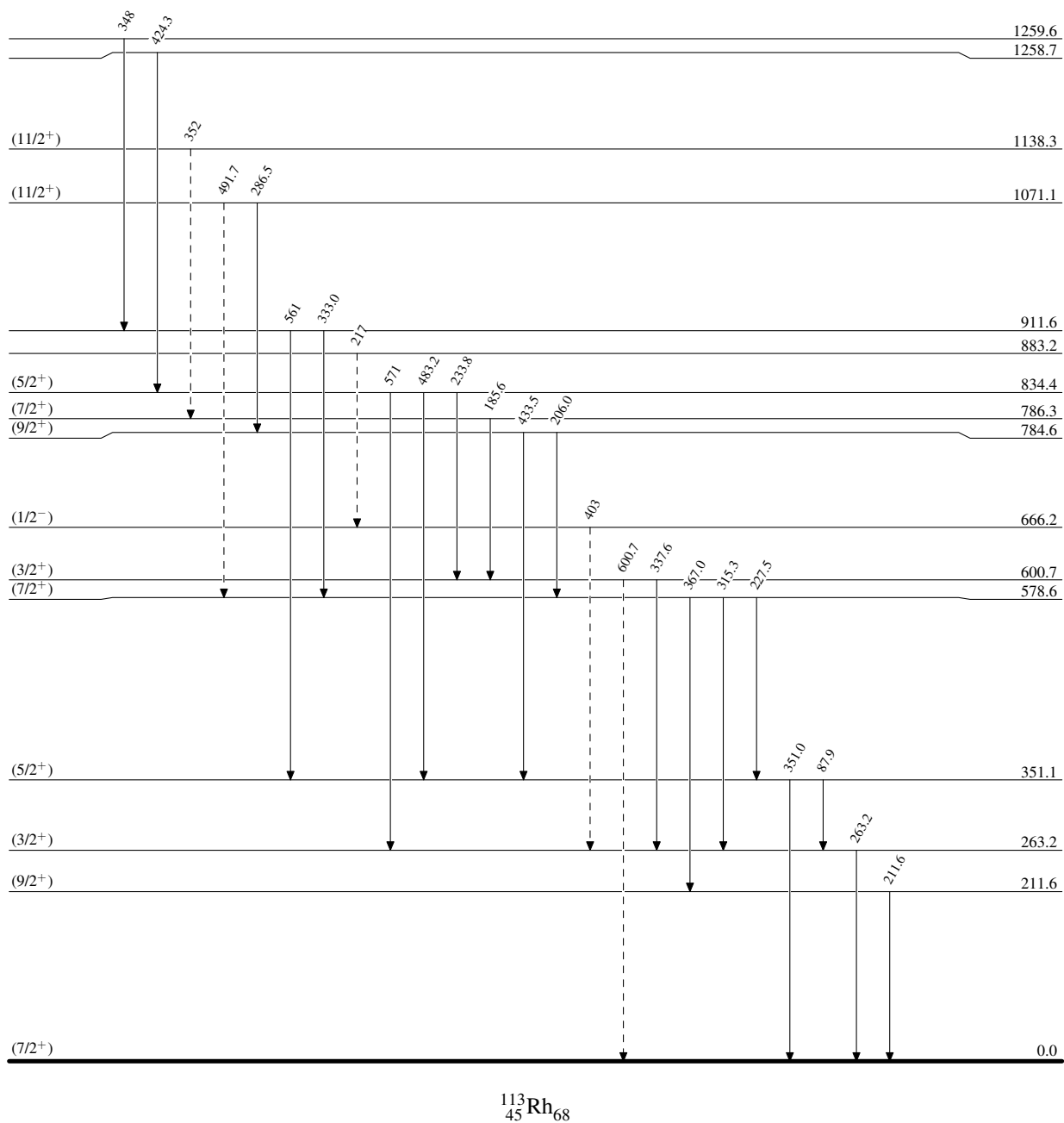
<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
87.9	351.1	(5/2 ⁺)	263.2	(3/2 ⁺)	348	1259.6		911.6	
185.6	786.3	(7/2 ⁺)	600.7	(3/2 ⁺)	351.0	351.1	(5/2 ⁺)	0.0	(7/2 ⁺)
206.0	784.6	(9/2 ⁺)	578.6	(7/2 ⁺)	352 [†]	1138.3	(11/2 ⁺)	786.3	(7/2 ⁺)
211.6	211.6	(9/2 ⁺)	0.0	(7/2 ⁺)	367.0	578.6	(7/2 ⁺)	211.6	(9/2 ⁺)
217 [†]	883.2		666.2	(1/2 ⁻)	403 [†]	666.2	(1/2 ⁻)	263.2	(3/2 ⁺)
227.5	578.6	(7/2 ⁺)	351.1	(5/2 ⁺)	424.3	1258.7		834.4	(5/2 ⁺)
233.8	834.4	(5/2 ⁺)	600.7	(3/2 ⁺)	433.5	784.6	(9/2 ⁺)	351.1	(5/2 ⁺)
263.2	263.2	(3/2 ⁺)	0.0	(7/2 ⁺)	483.2	834.4	(5/2 ⁺)	351.1	(5/2 ⁺)
286.5	1071.1	(11/2 ⁺)	784.6	(9/2 ⁺)	491.7 [†]	1071.1	(11/2 ⁺)	578.6	(7/2 ⁺)
315.3	578.6	(7/2 ⁺)	263.2	(3/2 ⁺)	561	911.6		351.1	(5/2 ⁺)
333.0	911.6		578.6	(7/2 ⁺)	571	834.4	(5/2 ⁺)	263.2	(3/2 ⁺)
337.6	600.7	(3/2 ⁺)	263.2	(3/2 ⁺)	600.7 [†]	600.7	(3/2 ⁺)	0.0	(7/2 ⁺)

[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

 - - - - - $\blacktriangleright$ γ Decay (Uncertain)


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