

^{248}Cm SF decay 2007Ku23

Type	Author	History		Literature Cutoff Date
		Citation		
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=? $^{248}\text{Cm-T}_{1/2}$: From 2003Au03.Measured $E\gamma$, $\gamma\gamma$ coin using EUROGAM2 array and IGISOL mass spectrometer. ^{113}Ru Levels

E(level) [†]	J^π	$T_{1/2}$	Comments
0+x [#]	(7/2 ⁻)	0.51 s	% $\beta^- \approx 100$; %IT=?
			E(level): x≈120 (2007Ku23), the energy is above the 98.5 level and below the 164.3 level in ^{103}Ru .
113.0+x [‡] 3	(9/2 ⁻)		
259.7+x [#] 3	(11/2 ⁻)		
521.2+x [‡] 3	(13/2 ⁻)		
675.5+x [#] 4	(15/2 ⁻)		
1080.7+x [‡] 5	(17/2 ⁻)		
1237.6+x [#] 5	(19/2 ⁻)		
1934.3+x [‡] 6	(23/2 ⁻)		

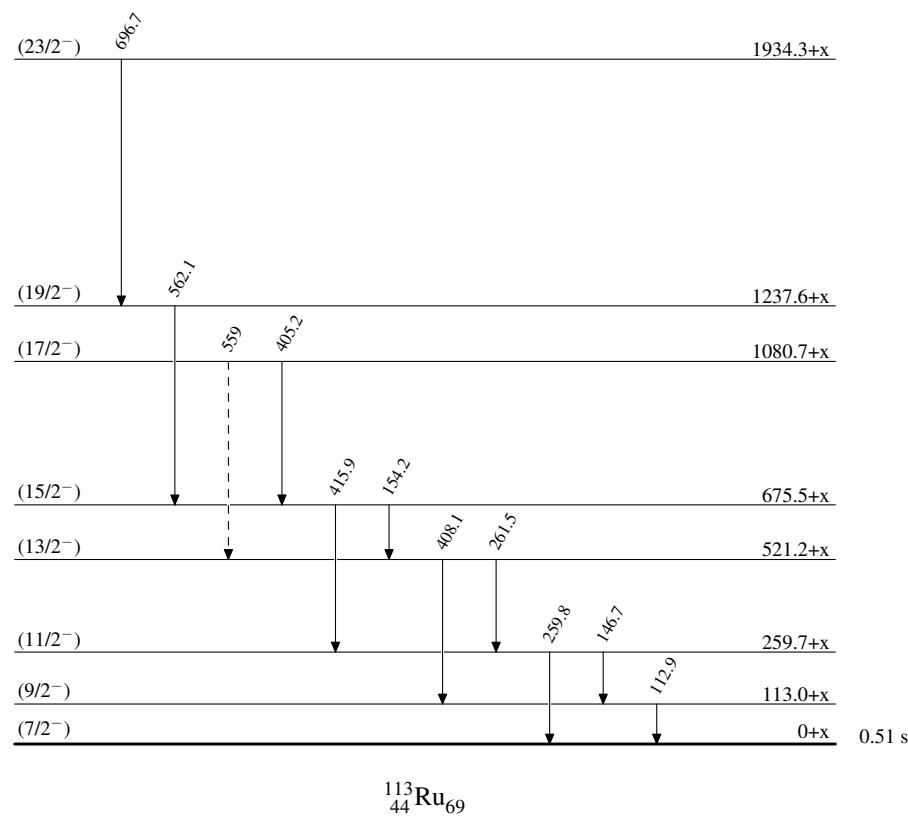
[†] From least-squares fit to $E\gamma$'s, assuming an uncertainty of 0.3 keV.[‡] Band(A): 7/2[523], $\alpha=+1/2$.# Band(a): 7/2[523], $\alpha=-1/2$. $\gamma(^{113}\text{Ru})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
112.9	113.0+x	(9/2 ⁻)	0+x	(7/2 ⁻)	408.1	521.2+x	(13/2 ⁻)	113.0+x	(9/2 ⁻)
146.7	259.7+x	(11/2 ⁻)	113.0+x	(9/2 ⁻)	415.9	675.5+x	(15/2 ⁻)	259.7+x	(11/2 ⁻)
154.2	675.5+x	(15/2 ⁻)	521.2+x	(13/2 ⁻)	559 [‡]	1080.7+x	(17/2 ⁻)	521.2+x	(13/2 ⁻)
259.8	259.7+x	(11/2 ⁻)	0+x	(7/2 ⁻)	562.1	1237.6+x	(19/2 ⁻)	675.5+x	(15/2 ⁻)
261.5	521.2+x	(13/2 ⁻)	259.7+x	(11/2 ⁻)	696.7	1934.3+x	(23/2 ⁻)	1237.6+x	(19/2 ⁻)
405.2	1080.7+x	(17/2 ⁻)	675.5+x	(15/2 ⁻)					

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

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Legend

 γ Decay (Uncertain)

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Band(A): $7/2[523]$,
 $\alpha=+1/2$

