

^{252}Cf SF decay 1998ZhZH,1997Ha64,1995Zh39

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 117, 1 (2014)	1-Oct-2013

Parent: ^{252}Cf : E=0.0; $J^\pi=0^+$; $T_{1/2}=2.645$ y 8; %SF decay=?1998ZhZH,1997Ha64,1995Zh39: measured E γ , I γ , x-ray x-ray coin, γ x-ray coin, $\gamma\gamma(\theta)$, $\gamma\gamma\gamma(\theta)$.

All data are from 1998ZhZH and 1997Ha64.

 ^{148}Ba Levels

E(level)	J^π [†]	Comments
0.0	0^+	
141.6	2^+	
423.0	4^+	
808.0	6^+	$J^\pi: 6^+$.
962.8	(5^-)	$J^\pi: (5^-)$.
1256.0	7^-	$J^\pi: (7^-)$.
1265.0	8^+	$J^\pi: 8^+$.
1645.7	9^-	$J^\pi: (9^-)$.
1768.3	10^+	$J^\pi: 10^+$.
2118.1	(11^-)	$J^\pi: (11^-)$.
2304.2	(12^+)	$J^\pi: 12^+$.

[†] From Adopted Levels; supporting assignments from this data set based on $\gamma\gamma(\theta)$, $\gamma\gamma\gamma(\theta)$, and systematics are given in the table comments.

 $\gamma(^{148}\text{Ba})$

E γ	I γ [†]	E i (level)	J^π_i	E f	J^π_f	E γ	I γ [†]	E i (level)	J^π_i	E f	J^π_f
141.6		141.6	2^+	0.0	0^+	447.4		1256.0	7^-	808.0	6^+
281.4	100	423.0	4^+	141.6	2^+	457.0	28	1265.0	8^+	808.0	6^+
293.2		1256.0	7^-	962.8	(5^-)	472.4		2118.1	(11^-)	1645.7	9^-
350.8		2118.1	(11^-)	1768.3	10^+	503.3	11	1768.3	10^+	1265.0	8^+
380.4		1645.7	9^-	1265.0	8^+	535.9		2304.2	(12^+)	1768.3	10^+
385.0	80	808.0	6^+	423.0	4^+	539.8		962.8	(5^-)	423.0	4^+
389.7		1645.7	9^-	1256.0	7^-						

[†] Relative intensity.

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Legend

Level SchemeIntensities: Relative I_γ

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

