

^{248}Cm SF decay **1995Du10**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 1745 (2009)	31-Dec-2008

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

^{248}Cm - $T_{1/2}$: From [1989Ho24](#).

Experiment performed at EUROGAM Daresbury. Measured E_γ , I_γ , $\gamma\gamma\gamma$.

 ^{102}Zr Levels

<u>E(level)</u>	<u>J^π^\dagger</u>	<u>E(level)</u>	<u>J^π^\dagger</u>	<u>E(level)</u>	<u>J^π^\dagger</u>	<u>E(level)</u>	<u>J^π^\dagger</u>
0.0	0^+	1242.4	(3^+)	1980.6	(5^-)	2962.8	(9^-)
151.9	2^+	1538.1	(4^+)	2174.7	(6^-)	3205	12^+
478.6	4^+	1596.0	8^+	2353	10^+		
965.2	6^+	1793.4	$(3,4)$	2402.8	(7^-)		
1036.4	(2^+)	1821.3	(4^-)	2665.5	(8^-)		

† From Adopted Levels.

 $\gamma(^{102}\text{Zr})$

<u>E_γ^\dagger</u>	<u>I_γ^\ddagger</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>E_γ^\dagger</u>	<u>I_γ^\ddagger</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
152		151.9	2^+	0.0	0^+	560		2962.8	(9^-)	2402.8	(7^-)
160		1980.6	(5^-)	1821.3	(4^-)	579		1821.3	(4^-)	1242.4	(3^+)
194		2174.7	(6^-)	1980.6	(5^-)	630.5	17 I	1596.0	8^+	965.2	6^+
228		2402.8	(7^-)	2174.7	(6^-)	757		1793.4	$(3,4)$	1036.4	(2^+)
262.6	1.8 5	2665.5	(8^-)	2402.8	(7^-)	757		2353	10^+	1596.0	8^+
283		1821.3	(4^-)	1538.1	(4^+)	764		1242.4	(3^+)	478.6	4^+
297		2962.8	(9^-)	2665.5	(8^-)	852		3205	12^+	2353	10^+
327		478.6	4^+	151.9	2^+	885		1036.4	(2^+)	151.9	2^+
354		2174.7	(6^-)	1821.3	(4^-)	1036		1036.4	(2^+)	0.0	0^+
422.5	1.5 5	2402.8	(7^-)	1980.6	(5^-)	1060		1538.1	(4^+)	478.6	4^+
487		965.2	6^+	478.6	4^+	1090		1242.4	(3^+)	151.9	2^+
490.9	1.3 4	2665.5	(8^-)	2174.7	(6^-)	1343		1821.3	(4^-)	478.6	4^+

† No uncertainties given.

‡ No values given.

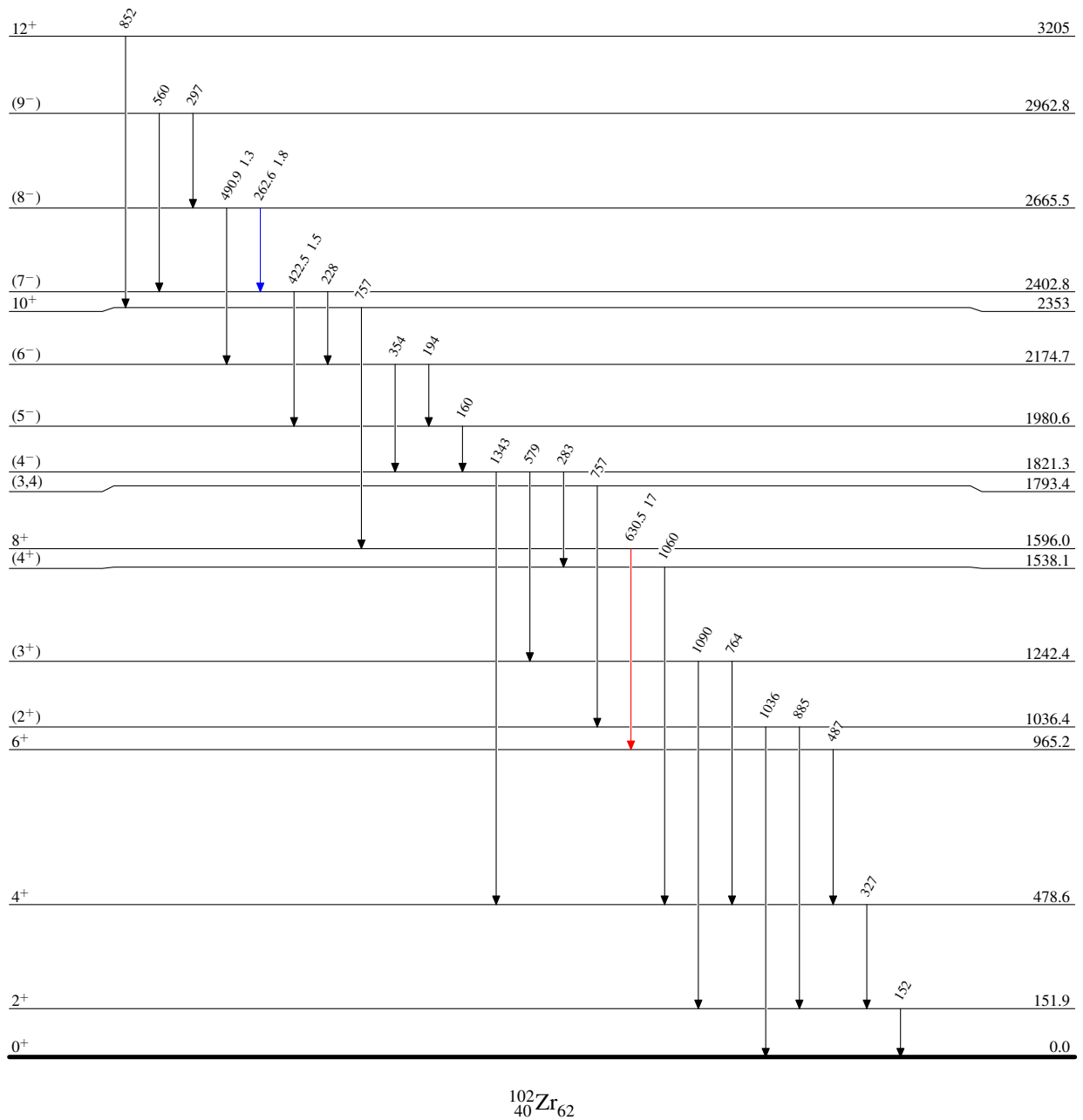
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Level Scheme

Intensities: Relative I_γ

Legend

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

 $^{102}_{40}\text{Zr}_{62}$