

$^{136}\text{Ce}(n,\gamma)$ E=136 eV res 1981KoZW

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 108,2173 (2007)	1-Oct-2006

Measured: G.

 ^{137}Ce Levels

E(level)	$J^{\pi\dagger}$
0.0	$3/2^+$
826.5 2	$(1/2^+)$
1271.7 4	$3/2$
1728.1 4	$(1/2)$
2040.6 8	$(1/2)$
2061.1 3	$(1/2)$
2277.4 15	$3/2^{(+)}$
2565.5 6	$(1/2)$
(≈ 7480.7)	$1/2^+$

 \dagger Adopted values. $\gamma(^{137}\text{Ce})$

E_{γ}	I_{γ}^{\dagger}	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}
4916.0 6	0.28 14	(≈ 7480.7)	$1/2^+$	2565.5	$(1/2)$
5204.1 15	0.34 7	(≈ 7480.7)	$1/2^+$	2277.4	$3/2^{(+)}$
5420.4 3	0.24 6	(≈ 7480.7)	$1/2^+$	2061.1	$(1/2)$
5440.9 8	0.21 4	(≈ 7480.7)	$1/2^+$	2040.6	$(1/2)$
5753.4 4	0.19 5	(≈ 7480.7)	$1/2^+$	1728.1	$(1/2)$
6209.8 4	0.76 10	(≈ 7480.7)	$1/2^+$	1271.7	$3/2$
6655.0 2	0.20 7	(≈ 7480.7)	$1/2^+$	826.5	$(1/2^+)$
7480.7 4	0.37 5	(≈ 7480.7)	$1/2^+$	0.0	$3/2^+$

 \dagger Photons/100 neutron captures.

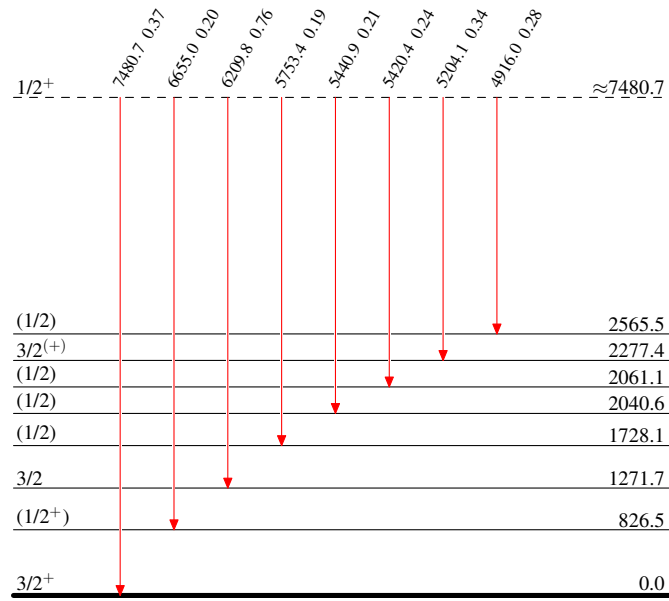
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Level Scheme

Intensities: Photons/100 neutron captures

Legend

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

 $^{137}_{58}\text{Ce}_{79}$