

¹³⁶Ce(n,γ) E=66 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.

¹³⁷Ce Levels

E(level)	J ^π †	E(level)	J ^π †	E(level)	J ^π †	E(level)	J ^π †
0.0	3/2 ⁺	1887.6 5	3/2	2135.8 12	3/2 ⁽⁺⁾	2565.5 6	(1/2)
1271.7 4	3/2	1909.0 5	(1/2)	2142.7 5	(1/2)	2767.7 9	(1/2)
1602.6 12	3/2	1934.3 6	3/2	2277.4 15	3/2 ⁽⁺⁾	(≈7480.7)	1/2 ⁺
1643.0 3	(1/2)	1951.7 5	3/2	2293.5 7	(1/2)		
1687.1 18	(1/2)	2040.6 8	(1/2)	2302.5 12	3/2 ⁽⁺⁾		
1728.1 4	(1/2)	2061.1 3	(1/2)	2454.1 3	(1/2)		

† Adopted values.

γ(¹³⁷Ce)

E _γ	I _γ †	E _i (level)	J _i ^π	E _f	J _f ^π	E _γ	I _γ †	E _i (level)	J _i ^π	E _f	J _f ^π
4713.8 9	0.21 5	(≈7480.7)	1/2 ⁺	2767.7	(1/2)	5529.8 5	0.20 4	(≈7480.7)	1/2 ⁺	1951.7	3/2
4916.0 6	0.15 4	(≈7480.7)	1/2 ⁺	2565.5	(1/2)	5547.2 6	0.17 4	(≈7480.7)	1/2 ⁺	1934.3	3/2
5027.4 3	0.45 7	(≈7480.7)	1/2 ⁺	2454.1	(1/2)	5572.5 5	0.15 3	(≈7480.7)	1/2 ⁺	1909.0	(1/2)
5179.0 12	0.23 3	(≈7480.7)	1/2 ⁺	2302.5	3/2 ⁽⁺⁾	5593.9 5	0.32 4	(≈7480.7)	1/2 ⁺	1887.6	3/2
5188.0 7	0.16 3	(≈7480.7)	1/2 ⁺	2293.5	(1/2)	5753.4 4	0.13 4	(≈7480.7)	1/2 ⁺	1728.1	(1/2)
5204.1 15	0.37 3	(≈7480.7)	1/2 ⁺	2277.4	3/2 ⁽⁺⁾	5794.4 18	0.16 3	(≈7480.7)	1/2 ⁺	1687.1	(1/2)
5338.8 5	0.19 4	(≈7480.7)	1/2 ⁺	2142.7	(1/2)	5838.5 3	0.13 4	(≈7480.7)	1/2 ⁺	1643.0	(1/2)
5345.7 12	0.22 7	(≈7480.7)	1/2 ⁺	2135.8	3/2 ⁽⁺⁾	5878.9 12	0.18 3	(≈7480.7)	1/2 ⁺	1602.6	3/2
5420.4 3	0.11 2	(≈7480.7)	1/2 ⁺	2061.1	(1/2)	6209.8 4	0.65 6	(≈7480.7)	1/2 ⁺	1271.7	3/2
5440.9 8	0.21 5	(≈7480.7)	1/2 ⁺	2040.6	(1/2)	7480.7 4	0.19 3	(≈7480.7)	1/2 ⁺	0.0	3/2 ⁺

† Photons/100 neutron captures.

$^{136}\text{Ce}(n,\gamma)$ E=66 eV res 1981KoZW

