

$^{142}\text{Ce}(\text{d,p})$ 1972Le17

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 113, 715 (2012)	31-May-2011

E=12.6 MeV.

Measured: $\sigma(E,\theta)$, DWBA analysis. FWHM=16 keV. ^{143}Ce Levels

E(level) [†]	L	C ² S'	E(level) [†]	L	C ² S'	E(level) [†]	L	C ² S'	E(level) [†]	L	C ² S'
0.0	1	0.13	1558 10	3	0.09	2040 10			2516 5	3	0.31
21 5	3	4.00	1580 10	1	0.13	2056 10			2552 10		
40 10			1635 5	3	0.47	2072 10	1	0.12	2571 10	1	0.07
637 10	(1)	0.08	1680 10			2112 10			2596 10		
668 10	5	2.65	1714 10	3	0.26	2143 10	1	0.07	2611 10		
815 5	1	2.00	1739 10	1	0.02	2160 10	1	0.07	2630 10		
869 10	1	0.60	1810 10	3	0.08	2219 10	1	0.09	2644 10		
1162 10	1	0.13	1855 10	1	0.02	2234 10	1	0.07	2660 10		
1178 10	1	0.09	1897 10	3	0.17	2252 10	1	0.29	2695 10		
1195 10	3	0.55	1922 10	1	0.07	2293 5	3	0.36	2712 10		
1221 10	5	4.40	1940 10	1	0.05	2314 10	1	0.05	2742 10	1	0.09
1298 5	3	0.73	1977 10			2348 10			2775 10		
1506 10	3	0.13	2006 10	1	0.09	2413 10					
1542 10			2028 10			2489 10	3	0.18			

[†] Other reported levels: 56 10 (L=3, C²S'=0.10), 598 10 not seen in ^{143}La β^- decay. An uncertain 56-keV level was reported in $^{142}\text{Ce}(\text{n},\gamma)$. Uncertainties are 5 keV for strong lines and 10 keV for weak ones.