

$^{142}\text{Ce}(\text{d,t})$ 1979Li12

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

E=17 MeV (1979Li12), 12.6 MeV (1972Le17).

Measured: $\sigma(E,\theta)$, DWBA analysis.

All data from 1979Li12.

 ^{141}Ce Levels

E(level)	J^π^\dagger	L	S	E(level)	J^π^\dagger	L	S
0.0	$7/2^-$	3	0.91	2543 5			
661 3	$3/2^-$	1	0.18	2649 5	$3/2^+, 5/2^+$	2	0.05
1139 3	$1/2^-$	1	0.06	2841 5	$1/2^+$	0	0.014
1361 3	$13/2^+$	6	(0.2)	2886 5	$3/2^+, 5/2^+$	2	0.15
1380 3	$(11/2^-)$	(5)	(0.38)	2987 7	$1/2^+$	0	0.27
1498 3	$5/2^-$	3	0.11	3055 7	$3/2^+, 5/2^+$	2	0.90
1626 3	$3/2^+$	2	2.2	3071 7	$3/2^+, 5/2^+$	2	0.43
1738 3	$7/2^-$	3	0.018	3114 7	$11/2^-$	5	0.75
1785 3	$1/2^+$	0	1.0	3210 7	$3/2^+, 5/2^+$	2	0.07
1915 3	$11/2^-$	5	0.86	3413 9	$1/2^+$	0	0.046
1942 3	$1/2^+$	0	0.078	3609 9			
2165 5	$11/2^-$	5	2.1	3660 9	$(3/2^+, 5/2^+)$	(2)	(0.059)
2203 5	$(7/2^+)$	(4)	(0.42)	3686 9			
2403 5	$3/2^+, 5/2^+$	2	0.050	3704 9			
2458 5	$3/2^+, 5/2^+$	2	0.27				

† Values used in calculations of S.