

$^{140}\text{Ce}(\text{pol p,p}),(\text{pol p,p}') \text{ IAS}$ 1977CI02

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

Others: [1968Ve07](#), [1971CI08](#). See also [1978St13](#).

Measured: $\sigma(E,\theta)$ for pol protons, deduced: J,L,S for IAR.

 ^{141}Ce Levels

<u>E(level)[†]</u>	<u>Jπ[‡]</u>	<u>L</u>	<u>E(level)[†]</u>	<u>Jπ[‡]</u>	<u>L</u>	<u>E(level)[†]</u>	<u>Jπ[‡]</u>	<u>L</u>	<u>E(level)[†]</u>	<u>Jπ[‡]</u>	<u>L</u>
0.0	7/2 ⁻	3	1750	7/2 ⁻	3	2200	3/2 ⁻	1	2410?	(5/2 ⁻)	(3)
654	3/2 ⁻	1	1820	3/2 ⁻	1	2260?	(1/2 ⁻)	(1)	2430	3/2 ⁻	1
1131	1/2 ⁻	1	1830	5/2 ⁻	3	2330	7/2 ⁻	3	2450?	(1/2 ⁻)	(1)
1384	9/2 ⁻	5	2070?	(5/2 ⁻)	(3)	2360	3/2 ⁻	1			
1500	5/2 ⁻	3	2130	5/2 ⁻	3	2400	1/2 ⁻	1			

[†] Energies of IAS in ^{141}Ce deduced from E(res)-9750 (E(res) of the lowest IAR).

[‡] From $\sigma(\theta)$ for pol p.