

$^{139}\text{La}(\text{d},\text{p})$ [1967Ke02](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 154, 1 (2018)	20-Nov-2018

$J^\pi(^{139}\text{La})=7/2^+$.

$E=10$ MeV.

Measured: $\sigma(E,\theta)$; for details of cross-section analysis see [1967Ke02](#). For configuration from IAR data see [1973La09](#).

Other measurements: [1962Bi17](#), [1974No05](#).

 ^{140}La Levels

E(level)	J^π †	L	E(level)	L	E(level)	L	E(level)	L
0.0	3^-	3	912.6 8		1328.0 22		1600.1 9	
30.6 2	2^-	3	930.3 8		1343.0 13 (3)		1616.6 11 (3)	
37.5 4	5^-	3	1035.8 6 1		1352.2 10 (3)		1630.2 10 (3)	
49.2 3	6^-	3	1056.9 8 1		1370.2 9		1643.6 11 (3)	
63.2 2	4^-	3	1076.9 14 1		1388.0 15		1657.4 11 (1)	
92.8? 15			1102.4 9 1		1403.3 6 3		1672.7 11 (1)	
106.3 7			1118.2 9 1		1418.4 9 3		1685.2 8 (1)	
161.6 3	2^-	3	1137.0 10		1431.5 5 3		1702.2 8 1	
284.2 4	7^-	3	1149.9 14		1444.0 10 3		1718.1 8 1	
319.2 7	3^-	(3)	1169.1 10		1461.1 8 3		1730.1 16	
466.6 10	1^-	3	1191.8 8		1479.2 9 3		1742.1 12	
578.6 14	0^-	(3)	1212.0 10		1493.0 14 3		1758.2 10	
601.6 6		1	1227.1 17		1508.2 22 3		1778.4 10 1	
658.3 5		1	1245.6 6		1519.3 9 3		1794.8 9 1	
711.6 7		1	1262.4 6		1529.2 6 3		1810.4 8	
744.5 7		1	1279.9 8		1554.6 6 3		1826.2 10	
771.7 6		1	1295.4 10		1568.9 7 3		1844.0 13	
794.2 8			1312.5 14		1583.6 26 3		1858.0 15	

† Authors' assignments are based on L values and σ proportional to $(2J+1)$ rule.