

$^{140}\text{Ce}(\mu^-, n\gamma)$ 1973Lu01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	P. K. Joshi, B. Singh, S. Singh, A. K. Jain		NDS 138, 1 (2016)	15-Oct-2016

1973Lu01: muons at 100 MeV/c, Measured $E\gamma$, $I\gamma$.

 ^{139}La Levels

E(level)	J^π [†]
0.0	7/2 ⁺
165.3 7	5/2 ⁺
1219.6 7	9/2 ⁺
1256.8 6	(5/2) ⁺
1381.7 9	(9/2 ⁺)
1421.4 6	5/2 ⁺ , 7/2 ⁺

[†] From the Adopted Levels.

 $\gamma(^{139}\text{La})$

E_γ	I_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
165.4 9	49 10	165.3	5/2 ⁺	0.0	7/2 ⁺
1091.6 7	2.3 5	1256.8	(5/2) ⁺	165.3	5/2 ⁺
1216.4 6	1.1 2	1381.7	(9/2 ⁺)	165.3	5/2 ⁺
1219.6 7	2.7 10	1219.6	9/2 ⁺	0.0	7/2 ⁺
1256.7 6	1.8 4	1256.8	(5/2) ⁺	0.0	7/2 ⁺
1421.4 6	1.2 2	1421.4	5/2 ⁺ , 7/2 ⁺	0.0	7/2 ⁺

[†] Photons per 100 stopped muons.

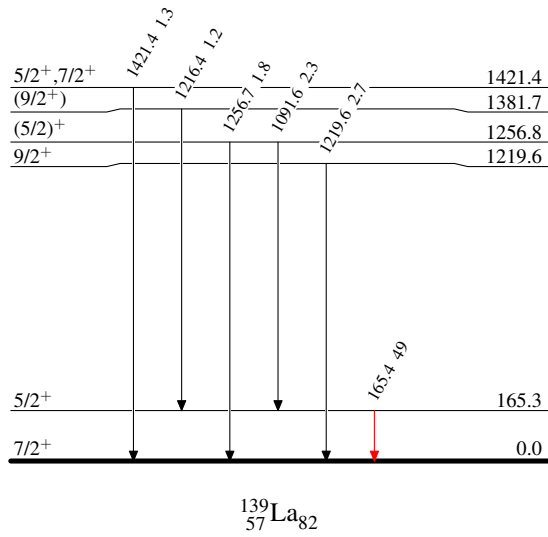
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Level Scheme

Intensities: I_{γ} per 100 parent decays

Legend

- \longrightarrow $I_{\gamma} < 2\% \times I_{\gamma}^{\max}$
- \longrightarrow $I_{\gamma} < 10\% \times I_{\gamma}^{\max}$
- \longrightarrow $I_{\gamma} > 10\% \times I_{\gamma}^{\max}$

 $^{139}_{57}\text{La}_{82}$