

$^{142}\text{Ce}(\mu^-, n\gamma)$ **1973Lu01**

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

Measured γ following μ^- capture.

 ^{141}La Levels

| E(level) | J^π [†] |
|----------|----------------------|
| 0.0 | $7/2^{(+)}$ |
| 190.5 5 | $5/2^{(+)}$ |
| 304.1 5 | $5/2^{(+)}$ |
| 467.4 7 | $3/2^{(+)}$ |
| 648.0 8 | $3/2^{(+)}$ |

[†] Adopted values.




 $\gamma(^{141}\text{La})$

| E_γ | I_γ | $E_i(\text{level})$ | J_i^π | E_f | J_f^π |
|------------|------------|---------------------|-------------|-------|-------------|
| 190.5 5 | 37.8 76 | 190.5 | $5/2^{(+)}$ | 0.0 | $7/2^{(+)}$ |
| 276.9 5 | 6.6 13 | 467.4 | $3/2^{(+)}$ | 190.5 | $5/2^{(+)}$ |
| 304.1 5 | 9.3 19 | 304.1 | $5/2^{(+)}$ | 0.0 | $7/2^{(+)}$ |
| 343.8 5 | 2.3 5 | 648.0 | $3/2^{(+)}$ | 304.1 | $5/2^{(+)}$ |

 $^{142}\text{Ce}(\mu^-, n\gamma)$ 1973Lu01Level Scheme

Intensities: Type not specified

Legend

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

