

$^{140}\text{Ce}(\text{d}, ^3\text{He})$ [1971Jo16](#)

| 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 |

[1971Jo16](#): E=28.9 MeV. Measured $\sigma(\theta)$; FWHM=30-50. DWBA. Other: [1971Wi04](#).

 ^{139}La Levels

| E(level) | J^π [†] | L | C^2S [‡] |
|----------|----------------------|---|---------------------|
| 0.0 | $7/2^+$ | 4 | 5.65 |
| 166 | $5/2^+$ | 2 | 1.53 |
| 1220 | $1/2^+$ | 0 | 0.018 |
| 1420 | $11/2^-$ | 5 | 0.75 |
| 1560 | $3/2^+$ | 2 | 0.043 |
| 1950 | $3/2^+$ | 2 | 0.017 |

[†] Assumed for extraction of C^2S .

[‡] Normalized to $\Sigma C^2S=8$, the number of protons beyond the closed Z=50 shell.