

$^{138}\text{La}(\text{d,p})$ 1971Du02

| 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 |

Target $J^\pi=5^+$. Measured: $\sigma(\theta)$; $\theta=45^\circ, 65^\circ, 72^\circ, 78^\circ, \text{ and } 92^\circ$, FWHM=11. DWBA.

 ^{139}La Levels

| E(level) | J^π | L | Comments |
|----------|---------------------|-------|--|
| 0.0 | | 2 | |
| 1535 | 4 | | |
| 3147 | 4 | | |
| 3355 | 2 | † | |
| 3375 | 2 | † | |
| 3433 | 2 | | |
| 3485 | 2 | 3 | |
| 3517 | 2 | 3 | |
| 3555 | 2 | 3 | |
| 3611 | 2 | 3 | |
| 3688 | ‡ 2 | 3 | |
| 3748 | 2 | 3 | |
| 3785 | 2 | 3 | |
| 3805 | 2 | 3 | |
| 3841 | 2 | | |
| 3868 | 2 | | |
| 3905 | 2 | 3 | |
| 3927 | (17/2) ⁻ | 3 | J^π : (17/2) ⁻ from comparison with theory. |
| 3952 | 2 | 3 | |
| 3980 | ‡ 2 | 3 | |
| 4014 | 2 | 3 | |
| 4095 | 2 | 3 | |
| 4148 | 2 | 3 | |
| 4230 | 2 | 3 | |
| 4336 | 2 | (1+3) | |
| 4394 | 2 | (1+3) | |

† L=3 for doublet.

‡ Possible doublet.