## $^{170}$Er(d,d′) 1968Tj02

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | C. M. Baglin[1], E. A. Mccutchan[2], S. Basunia[1] | NDS 153, 1 (2018) | 1-Oct-2018 |

E(d)=12.1 MeV, $\theta$(lab)=60°, 90°, 125°, magnetic spectrograph, >99% $^{170}$Er target; measured $\sigma$ E(d′)($\theta$).

### $^{170}$Er Levels

| E(level)† | Jπ‡ | σ(90°)/σ(125°). | E(level)† | Jπ‡ | σ(90°)/σ(125°). |
|---|---|---|---|---|---|
| 0 | | 4.85 | 1539 | (1⁻) | |
| 79 | | 2.15 | 1575# | 3⁻ | 1.15 |
| 261 | | 0.76 | 1709 | (5⁻) | ≈0.67 |
| 541 | | 0.51 | 1931# | 3⁻ | 1.23 |
| 880 | (0⁺) | | 2019 | | |
| 931# | 2⁺ | 2.03 | 2068 | | |
| 959 | (2⁺) | 2.51 | 2112 | | |
| 1102 | 4⁺ | ≈0.78 | 2154 | | |
| 1122 | (4⁺) | 0.47 | 2190 | | |
| 1304# | 3⁻ | ≈1.36 | 2398 | | |
| 1335 | (4⁺) | ≈0.86 | 2606 | | |
| 1370 | | | 2657 | | 1.72 |
| 1399 | | | 2719 | | |
| 1477 | | 1.60 | | | |

† ΔE is unstated by authors. However, E differs from adopted value by≤7 keV, except for the 880 level whose energy is 11 keV low.

‡ Authors′ values, based on $\sigma(\theta)$ and $\sigma(90°)/\sigma(125°)$, and on band structure.

# See 1968Tj02 for B(EL) deduced for this level assuming $d\sigma/d\Omega \propto$ B(EL) in this mass region.