

${}^{56}\text{Fe}({}^6\text{Li,d})$ 1977Fu03,1977St05

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|-----------------------|---------|----------------------|------------------------|
| Full Evaluation | E. Browne, J. K. Tuli | | NDS 114, 1849 (2013) | 31-Dec-2012 |

$E({}^6\text{Li})=28$ MeV. Measured $\sigma(\theta)$, $\theta(\text{c.m.})\approx 5^\circ$ to 65° . Magnetic spectrograph, FWHM=50– 125 keV (1977Fu03).

$E({}^6\text{Li})=34$ MeV. Measured $\sigma(\theta)$, $\theta(\text{c.m.})\approx 7^\circ$ to 45° . Magnetic spectrograph, FWHM \approx 50– 60 keV (1977St05).

For systematics of the g.s. α particle spectroscopic strengths from ${}^{20}\text{Ne}$ to ${}^{66}\text{Zn}$, see 1975An13.

 ${}^{60}\text{Ni}$ Levels

| E(level) [†] | L [‡] | Comments |
|-----------------------|----------------|-----------------------------|
| 0.0 | 0 | |
| 1332 | 2 | |
| 2159 | 2 | |
| 2285 | 0 | |
| 2506 | 4 | |
| 3120 | | |
| 3269 | 2 | |
| 3339 | 0 | |
| 3570 | | |
| 4040 | 3 | |
| 4770 | | L: possibly L=1 (1977Fu03). |
| 5060 | | |
| 5210 | | |
| 5640 | | |
| 5950 | | |
| 6170 | | |
| 6610 | | |
| 6870 | | |
| 7100 | | |
| 7310 | | |
| 7570 | | |

[†] Levels below 3400 keV from 1977St05, others from 1977Fu03.

[‡] From comparison of $\sigma(\theta)$ to the DWBA calculation (1977St05).