

${}^{58}\text{Fe}({}^3\text{He,p})$ 1978Ta02

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

$E({}^3\text{He})=21$ MeV. Measured $\sigma(\theta)$ from 10° to 70° . Enriched target (82.5%), magnetic spectrograph, FWHM= 18 keV (1978Ta02).

$E({}^3\text{He})=15.1$ MeV. Measured $\sigma(\theta)$ for 3.8° to 86.3° in steps of 7.5° . Enriched target (82.5%), magnetic spectrograph, FWHM \approx 28 keV (1973Ca07).

$E({}^3\text{He})=12$ MeV. Measured $\sigma(\theta)$ for $\approx 10^\circ$ to 60° . Enriched target (82%), magnetic spectrograph, FWHM \approx 20– 25 keV (1972Se05). L-values from comparison with DWBA, except for 1973Ca07 where a semi-empirical classification was used.

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

E(A),L(A) From 1973Ca07.

E(B),L(B) From 1972Se05.

| E(level) [†] | L [†] | Comments |
|-----------------------|----------------|---|
| 0.0 | 4 | |
| 57 1 | 2 | |
| 294 2 | (4) | |
| 434 2 | (4) | |
| 506 2 | 2 | L: from 1972Se05. |
| 543 1 | 2 | |
| 614 1 | 2 | |
| 738 1 | 0+2 | |
| 781 2 | 4 | L: from 1972Se05, L=(2) in 1978Ta02. |
| 1006 2 | (4) | |
| 1149 2 | (2) | |
| 1212 3 | (6) | |
| 1339 2 | 0+2 | |
| 1379 2 | 2 | |
| 1450 2 | 2 | |
| 1510 2 | 2 | |
| 1685 2 | 0+2 | |
| 1804 2 | (3) | |
| 1883 10 | 2 | |
| 1981 2 | (3) | L: L=0+2 in 1972Se05. |
| 2030 2 | 2 | |
| 2181 2 | 2 | |
| 2221 2 | 0+2 | |
| 2433 10 | 2 | E(level): A level at 2425 10 with L=2 reported in 1972Se05. |
| 2596 [‡] 10 | | |
| 2720 10 | 0+2 | |
| 3456 10 | 0+2 | |
| 3529 10 | 2 | |
| 3606 [‡] 10 | | |
| 3663 [‡] 10 | | |
| 4369 10 | 0+2 | |
| 4485 10 | 0+2 | |
| 4617 [‡] 10 | | |

[†] From 1978Ta02, except as noted.

[‡] From 1973Ca07.