

$^{56}\text{Fe}(^3\text{He},\alpha)$  1980Za05,1975We07,1975Ri05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huo Junde	NDS 109, 787 (2008)	30-Apr-2007

1980Za05: E=18 MeV, FWHM=30 keV, measured  $\sigma(e^3\text{He},\theta)$ ; DWBA analyses.

1975We07: E=82.7 MeV; enriched target (99.95%); silicon detectors telescopes; measured  $\sigma(\theta)$  ( $10^\circ-140^\circ$ ); DWBA analyses.

1975Ri05: E=38.2 MeV; natural target; energy-loss spectrograph and helical cathode proportional chamber (FWHM: 45 keV); measured  $\sigma(\theta)$ ; DWBA analysis.

For studies of the J dependence of the cross section, see also 1962Bi06, 1966Le12, and 1967Gi01.

All data are from 1980Za05, except as noted.

 $^{55}\text{Fe}$  Levels

E(level)	L	C <sup>2</sup> S	E(level)	L	C <sup>2</sup> S	E(level)	L	C <sup>2</sup> S
0.0	1	0.63	3880 25			6053 15	3	0.21
410 <sup>†</sup>	1	0.47	3920 25			6159 15	3	0.16
930 <sup>†</sup>	3	0.43	4000 <sup>†</sup>			6323 15	3	0.23
1313 15	3	0.62	4140 25			6376 15		
1411 15	3	4.68	4270 25			7406 15		
2100 <sup>‡</sup>	3 <sup>‡</sup>	0.38 <sup>‡</sup>	4458 15	0 0	0.96	7480 <sup>‡</sup>	3 <sup>‡</sup>	0.44,0.61 <sup>‡</sup>
2220 25	3	0.062	4650 <sup>‡</sup>	2,3 <sup>‡</sup>	0.35,0.27 <sup>‡</sup>	7520 25		
2600 25			4663 15	3	0.12	7625 15	3	0.059
2880 <sup>‡</sup>	3 <sup>‡</sup>	0.73 <sup>‡</sup>	4809 15			7749 15	3	1.56
2946 15	3	1.21	4881 16	2	0.65	8420 15		
3327 15	3	0.093	5215 15	3	0.18	8527 15		
3570 25	1	0.038	5277 15	3	0.31	8892 15	2	0.13
3610 <sup>‡</sup>	1 <sup>‡</sup>	0.31 <sup>‡</sup>	5396 15	3	0.28	9115 15	1	0.10
3713 15	1	0.084	5444 15	3	0.14			
3815 15	3	0.22	5668 15	3	0.12			

<sup>†</sup> From 1975Ri05.

<sup>‡</sup> From 1975We07.