

$^{54}\text{Fe}(^7\text{Li}, ^6\text{He})$ [1982Ke12](#), [1992Ka38](#)

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

[1982Ke12](#): E=48 MeV, enriched targets(97%), 100- $\mu\text{g}/\text{cm}^2$ into 10- μg carbon backings. A heavy-ion gas counter used in the light-ion mode provided mass and Z identification of the reaction products after their momentum analysis by the Enge spectrograph (energy resolution: 55 keV); measured $\sigma(\theta)$; DWBA analysis.

[1992Ka38](#): E=50 MeV, measured $\sigma(\theta)$ and analyzing powers, an array of position-sensitive semiconductor detector telescopes; CCBA analysis.

All data are from [1982Ke12](#), except as noted.

 ^{55}Co Levels

E(level) [†]	J π [#]	C ² S	E(level) [†]	J π [#]	C ² S	E(level) [†]	J π [#]	C ² S	E(level) [†]	J π [#]
0.0	7/2 ⁻	0.21	3323	1/2 ⁻	0.17	5170	1/2 ⁻	0.08	8.49 $\times 10^3$ [‡]	9/2 ⁺
2165	3/2 ⁻	0.22	3641	3/2 ⁻	0.03	5765	5/2 ⁻	0.15	8.81 $\times 10^3$ [‡]	
2565	3/2 ⁻	0.11	4164	1/2 ⁻	0.13	6080	9/2 ⁺	0.21		
2939	1/2 ⁻	0.083	4177	5/2 ⁻	0.13	6918	5/2 ⁻	0.04		
3302	5/2 ⁻	0.32	4724	3/2 ⁻	0.11	7.13 $\times 10^3$ [‡]				

[†] No uncertainty is available.

[‡] From [1992Ka38](#).

[#] Based on $\sigma(\theta)$ forward angle J-dependence DWBA analysis. Also quoted [1978LeZA](#) (J π) and [1977Fo06](#) (L).