
 $^{54}\text{Fe}(^{12}\text{C}, ^{11}\text{B})$ [1974Be58](#)

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

E=78 MeV, enriched targets, thin carbon backings; multiwire position sensitive proportional counter, energy-loss magnetic spectrometer; measured σ E($^{11}\text{B},\theta$); DWBA analyses, compared heavy-ion with light-ion analyses. Evaluator notes that DWBA fits to angular distributions tend to be poor, particularly at high excitation energies.

 ^{55}Co Levels

<u>E(level)</u>	<u>J^π[†]</u>	<u>L</u>	<u>C²S'</u>	<u>Comments</u>
0.0	7/2 ⁻	3	2.00	
2570 50	3/2 ⁻	1	0.52	
2950 50	1/2 ⁻	1	0.40	
3300 50	(5/2 ⁻)	3	5.52	
4170 50	(5/2 ⁻)	3	2.28	E(level): probable isobaric analog of ^{55}Fe .
5740 50	5/2 ⁻	3	1.74	
6070 50	9/2 ⁺	4	2.10	

[†] From J dependence of cross section. As for discussion of J and Q dependent effects, see also [1973Po07](#).