^{54}Fe(^{16}O,^{15}N) 1974Be58

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

E=104 MeV, enriched targets, thin carbon backings; multiwire position sensitive proportional counter, energy-loss magnetic spectrometer; measured σ(E(^{15}N),θ); DWBA analyses, compared heavy-ion with light-ion analyses.

^{55}Co Levels

E(level)	J^{π}‡	L	C^2S'	E(level)	J^{π}‡	L	C^2S'	E(level)	J^{π}‡	L	C^2S'
0.0	$7/2^-$	3	2.80	3220 *50*	$(5/2^-)$	3	4.98	5610† *50*	$5/2^-$	3	2.52
2130 *50*	$3/2^-$	1	1.76	3650 *50*	$3/2^-$	1	0.48	6000 *50*	$9/2^+$	4	4.00
2500 *50*	$3/2^-$	1	0.88	4140 *50*	$(5/2^-)$	3	1.98	8440† *50*	$9/2^+$	4	1.90
2900 *50*	$1/2^-$	1	1.12	4700† *50*	$3/2^-$	1	0.56	8960 *50*	$9/2^+$	4	0.40

† Probable isobaric analog of ^{55}Fe.

‡ From J dependence of cross section. As for discussion of J and Q dependent effects, see also 1973Po07. Evaluator notes that DWBA fits to angular distributions tend to be poor, particularly at high excitation energies.