

$^{58}\text{Ni}(t,\alpha)$  E=15 MeV 1966BI15

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. R. Bhat	NDS 85, 415 (1998)	24-Sep-1998

Energy resolution (FWHM)=40– 55 keV; surface barrier detector, DWBA.

 $^{57}\text{Co}$  Levels

E(level)	$J^{\pi\dagger}$	L	$C^2S$	E(level)	$J^{\pi\dagger}$	L	$C^2S$	E(level)	$J^{\pi\dagger}$	L	$C^2S$
0	$7/2^-$	3	5.53	2302 20	$7/2^-$	3	0.20	3354 30	$7/2^-$	3	0.11
1218 15				2489 20				3539 30	$3/2^+$	2	2.33
1369 15	$3/2^-$	1	0.06	2591 20	$7/2^-$	3	0.07	3682 30	$7/2^-$	3	0.13
1683 15				2721 25	$(7/2^-)$	(3)	(0.04)	3906 30	$(3/2^+)$	(2)	(0.20)
1747 15	$3/2^-$	1	0.19	2970 25	$1/2^+$	0	1.31	4038 35			
1890 15	$7/2^-$	3	1.37	3171 25				5910 50	$3/2^+$	2	0.23
2130 20	$(3/2^+)$	(2)	(0.10)	3259 25	$(7/2^-)$	(3)	(0.14)	6010 50	$3/2^+$	2	0.29

$\dagger$  Assumed for DWBA analysis.