

$^{58}\text{Ni}(\gamma, p\gamma')$ 1993Is02,1993Is05

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

Beam of bremsstrahlung gammas with an upper limit of 32 MeV. Ge(Li) detector. Measured E_γ , integrated cross-sections for populating final levels.

 ^{57}Co Levels

E(level)	J^π^\dagger	Integrated σ (MeV.mb)	E(level)	J^π^\dagger	Integrated σ (MeV.mb)
0	$7/2^-$	31 8	2730	$3/2^-, 5/2$	3.1 10
1224	$9/2^-$		2743	($9/2, 11/2, 13/2$)	5.3 15
1377	$3/2^-$	30 8	2804	($3/2^-, 5/2$)	11 3
1690	$11/2^-$		2879	$3/2^-$	12 3
1757	$3/2^-$	10 3	2980	$1/2^+$	10 3
1896	$7/2^-$	7.7 20	3108	($3/2^-$)	5.8 15
1919	$5/2^-$	11 3	3176	$5/2^-, 7/2^-$	2.5 8
2132	$5/2^-$	12 3	3262	($3/2^-, 5/2, 7/2^-$)	2.4 8
2311	$7/2^-$	6.1 15			

† From Adopted Levels.

 $\gamma(^{57}\text{Co})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
755	2132	$5/2^-$	1377	$3/2^-$	1690	1690	$11/2^-$	0	$7/2^-$
908	2804	($3/2^-, 5/2$)	1896	$7/2^-$	1731	3108	($3/2^-$)	1377	$3/2^-$
934	2311	$7/2^-$	1377	$3/2^-$	1757	1757	$3/2^-$	0	$7/2^-$
960	2879	$3/2^-$	1919	$5/2^-$	1896	1896	$7/2^-$	0	$7/2^-$
1047	2804	($3/2^-, 5/2$)	1757	$3/2^-$	1919	1919	$5/2^-$	0	$7/2^-$
1084	2980	$1/2^+$	1896	$7/2^-$	2132	2132	$5/2^-$	0	$7/2^-$
1087	2311	$7/2^-$	1224	$9/2^-$	2311	2311	$7/2^-$	0	$7/2^-$
1122	2879	$3/2^-$	1757	$3/2^-$	2730	2730	$3/2^-, 5/2$	0	$7/2^-$
1223	2980	$1/2^+$	1757	$3/2^-$	2804	2804	($3/2^-, 5/2$)	0	$7/2^-$
1224	1224	$9/2^-$	0	$7/2^-$	2879	2879	$3/2^-$	0	$7/2^-$
1280	3176	$5/2^-, 7/2^-$	1896	$7/2^-$	3176	3176	$5/2^-, 7/2^-$	0	$7/2^-$
1377	1377	$3/2^-$	0	$7/2^-$	3262	3262	($3/2^-, 5/2, 7/2^-$)	0	$7/2^-$
1505	3262	($3/2^-, 5/2, 7/2^-$)	1757	$3/2^-$					

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Level Scheme

