

$^{58}\text{Ni}(\gamma, n\gamma')$ 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}Ni Levels

E(level)	J^π †	Integrated σ (MeV.mb)
0.0	$3/2^-$	35 9
780	$5/2^-$	40 10
1110	$1/2^-$	0.4 2
2445	$5/2^-$	22 6
2580	$7/2^-$	6.3 20
3007	$3/2^-$	6.4 20
3230	$7/2^-$	2.2 5
3850	$3/2^-$	5.4 15
4230	$7/2^-$	2.0 5
5580	$1/2^+$	5.4 15

† From Adopted Levels.

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

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
1110	1110	$1/2^-$	0.0	$3/2^-$	3007	3007	$3/2^-$	0.0	$3/2^-$
1650	4230	$7/2^-$	2580	$7/2^-$	3230	3230	$7/2^-$	0.0	$3/2^-$
1730	5580	$1/2^+$	3850	$3/2^-$	3450	4230	$7/2^-$	780	$5/2^-$
2445	2445	$5/2^-$	0.0	$3/2^-$	3850	3850	$3/2^-$	0.0	$3/2^-$
2450	3230	$7/2^-$	780	$5/2^-$	4470	5580	$1/2^+$	1110	$1/2^-$
2580	2580	$7/2^-$	0.0	$3/2^-$	5580	5580	$1/2^+$	0.0	$3/2^-$
2740	3850	$3/2^-$	1110	$1/2^-$					

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Level Scheme

