

$^{57}\text{Fe}(\text{}^3\text{He,d})$ 1972Sc13

Type	History	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja and B. Singh	ENSDF	31-Oct-2015

E=18 MeV, FWHM \approx 14 keV.
 $J^\pi(^{57}\text{Fe})=1/2^-$.

Additional information 1.

Other: 1969Tr06.

Measured: $\sigma(E,\theta)$.

 ^{58}Co Levels

E(level) †	L	C ² S'#	E(level) †	L	C ² S'#	E(level) †	L	C ² S'#
0.0	1	0.02	2444 7	(1)	0.012	3517 11	1	0.033
54 2	3	0.86	2477 7	1	0.015	3526 11	(1+3)	0.010+0.077
111 2	3	0.52	2524 8	1	0.12	3548 11	1	0.018
366 2	3	0.17	2624 8	1	0.20	3559 11	(0)	0.005
371 2			2646 8	3+(1)	0.42+0.007	3607 11	(1+3)	0.005+0.036
455 2			2695 8	1	0.09	3619 11		
882 3	3+(1)	0.07	2733 8	(1+3)	0.62+0.035	3639 11	1	0.048
1038 3			2781 8	1	0.05	3668 11	1	0.16
1042 3	1	0.41	2844 9	4	0.12	3685 11	1	0.019
1233 4	1	0.56	2884 9	1	0.004	3725 11	3+(1)	0.067+0.002
1350 4	1	0.07	2946 9	3	0.19	3775 11	1	0.068
1369 4	1	0.26	2995 9	(0)	0.002	3790 11	(0)	0.01
1383 4	1	0.05	3007 9	3	0.096	3806 11	2	0.13
1431 4	1	0.34	3062 9	3	0.17	3853 12	1	0.049
1517 ‡ 5	1	0.007	3096 9	1	0.03	3869 12	1	0.008
1602 5	3	0.14	3123 9	1+3	0.007+0.046	3898 12	0	0.005
1665 5	1+(3)	0.07+0.5	3186 10	3	0.075	3916 12	2	0.06
1729 5	1	0.04	3199 10	0	0.004	3943 12	1	0.009
1743 5	1+(3)	0.035	3226 10	1+(3)	0.038+0.088	3957 12	1+(3)	0.039+0.08
1811 5	1	0.006	3243 10	(1)	0.013	4006 12	1	0.065
1863 6	1	0.15	3261 10	1+(3)	0.010+0.023	4082 12	1+(3)	0.045+0.14
1974 6	3+(1)	0.49+0.007	3337 10	1+(3)	0.12+0.27	4097 12	(1+4)	0.026+0.62
2007 6	3	0.041	3376 10	1+3	0.023+0.20	4110 12	(4+2)	0.71+0.055
2070 6	3	0.073	3414 10	1+(3)	0.048+0.11	6140 18	(0)	0.035
2166 6	3	0.10	3442 10	1	0.032			
2242 7	1	0.037	3455 10	3	0.35			

† Authors quote a single set of energies for their (d, α) and ($^3\text{He,d}$) work, uncertainties are stated as 0.3% or 2 keV, whichever is higher.

‡ Labeled as 1512+1522 in both (d, α) and ($^3\text{He,d}$), based on known levels, but only one peak is resolved. The evaluators assign energy of 1517 keV.

$\#$ Calculated average of values for J=L+1 and L-1 if J is not known.