^{73}Ge(t,p) 1987Fo09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 114, 841 (2013)	30-Jun-2013

$J^{\pi}(^{73}Ge\ g.s.)=9/2^{+}$.

E=15.0 MeV. Measured $\sigma(\theta)$; FWHM=30-35 keV; L inferred from DWBA analysis using DWUCK code.

^{75}Ge Levels

E(level)	L	S[†]	Comments
0	5	0.025	
136 *4*	2+4	0.43,0.23	
202 *4*	0	0.56	
587 *3*	2(+6)	0.18,0.06	
983 *4*	2(+6)	0.49,0.21	
1062 *4*	2	0.41	
1190 *5*	0(+2)	0.026,0.17	
1408 *4*	0+2	0.011,0.27	
1531 *4*	2+4	0.47,0.54	
1682 *4*	0	0.026	
1723 *5*	2	1.21	
1901 *8*	0(+2)	0.005,0.09	
2012 *4*	4(+2)	0.22,0.07	L,S: alternative L=(1+3+5); S=0.024 (L=1), 0.15 (L=3), 0.10 (L=5).
2127 *5*	2+6	0.08,0.10	
2208 *7*	2	0.24	
2320 *6*	0+2	0.003,0.06 *4*	
2388 *5*	0+2+4	0.005,0.12	S: 0.15 for L=4.
2484 *4*	2	0.54	
2667 *5*	3	0.66	
2740 *6*	3	0.63	
2781 *10*	0+2(+4)	0.006,0.09	S: 0.12 for L=4.
2835 *8*	3	0.73	
2939 *7*	3	1.54	
3042 *9*	0(+2)	0.006,0.62	L,S: alternate L=1(+3) with S=0.22 (L=1), 0.61 (L=3).
3092 *16*	3	0.87	
3136 *11*	0+(2,3)	0.006,0.50	S: 0.008 (L=0), 0.91 (L=3).
3213 *5*	2	1.06	
3278 *7*	1+3	0.20,1.56	
3370 *16*	1	0.26	
3449 *7*	1+3+5	0.08,0.90	S: 0.28 for L=5.

[†] $(2J+1)\epsilon/10(2L+1)$, where ϵ=enhancement factor.