^{73}Ge(n,γ) E=332-367 eV 1974Ch18

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan	NDS 107, 1923 (2006)	30-Apr-2006

See ^{73}Ge(n,γ) E=102 also.

^{74}Ge Levels

E(level)[†]	J$^\pi$	Comments
0.0		
1464.3 *5*		
1696.7 *4*		
2165.8 *5*		
2537.8 *6*		
2830.7 *5*		
2936.2 *5*		
2974.7[‡] *5*		
3084.1 *6*		
3105.6 *4*		
3272.5[‡] *5*		
3358.8[‡] *11*		
3481.2[‡] *6*		
3501.7[‡] *10*		
3654.4[‡] *11*		
3699.0 *6*		
3774.8[‡] *10*		
3836.7[‡] *5*		
3957.5[‡] *7*		
4030.2[‡] *10*		
4206.1[‡] *8*		
4236.1[‡] *10*		
(S(n)+332-367)	(4$^+$)	E(level): S(n)=10196.22 *6* (2003Au03), E(n)=332-367 eV (1974Ch18). J$^\pi$: from 1974Ch18.

[†] Based on S(n)=10196.31 *7* from (n,γ) E=thermal and Eγ's of 1974Ch18. Values are systematically lower by ≈2 keV compared to values from (n,γ) E=thermal (1985HoZQ,1991Is01).

[‡] Level included by evaluators on the basis of (n,γ) E=thermal.

γ(^{74}Ge)

E$_\gamma$[†]	I$_\gamma$[#]	E$_i$(level)	J$_i^\pi$	E$_f$	E$_\gamma$[†]	I$_\gamma$[#]	E$_i$(level)	J$_i^\pi$	E$_f$
[x]5158.7 *3*	0.7 *3*				[x]6040.7[‡] *6*	0.43 *23*			
[x]5580.2 *6*	0.47 *21*				[x]6156.3[‡] *10*	0.23 *27*			
[x]5594.2[‡] *3*	0.90 *12*				6166.2[‡] *9*	0.9 *4*	(S(n)+332-367)	(4$^+$)	4030.2
[x]5673.0 *7*	0.35 *6*				6238.8[‡] *6*	0.8 *4*	(S(n)+332-367)	(4$^+$)	3957.5
[x]5692.8 *5*	0.3 *3*				[x]6268.9[‡] *6*	0.7 *4*			
[x]5780.7 *5*	0.43 *35*				6359.6[‡] *4*	0.9 *4*	(S(n)+332-367)	(4$^+$)	3836.7
[x]5852.6[‡] *3*	1.0 *2*				6421.6[‡] *10*	0.3 *3*	(S(n)+332-367)	(4$^+$)	3774.8
[x]5899.0 *4*	0.6 *4*				6497.4 *5*	0.4 *3*	(S(n)+332-367)	(4$^+$)	3699.0
5960.3[‡] *9*	0.23 *20*	(S(n)+332-367)	(4$^+$)	4236.1	6542.0[‡] *9*	0.7 *4*	(S(n)+332-367)	(4$^+$)	3654.4
5990.3[‡] *7*	0.47 *45*	(S(n)+332-367)	(4$^+$)	4206.1	6694.7[‡] *10*	0.7 *5*	(S(n)+332-367)	(4$^+$)	3501.7

Continued on next page (footnotes at end of table)

^{73}Ge(n,γ) E=332-367 eV 1974Ch18 (continued)

γ(^{74}Ge) (continued)

E_γ †	I_γ #	E_i(level)	J_i^π	E_f	E_γ †	I_γ #	E_i(level)	J_i^π	E_f
6715.2‡ *5*	0.5 *5*	(S(n)+332-367)	(4$^+$)	3481.2	7260.2‡ *3*	2.1 *7*	(S(n)+332-367)	(4$^+$)	2936.2
6837.6‡ *12*	0.4 *3*	(S(n)+332-367)	(4$^+$)	3358.8	7365.7‡ *3*	2.5 *8*	(S(n)+332-367)	(4$^+$)	2830.7
6923.9‡ *4*	0.6 *3*	(S(n)+332-367)	(4$^+$)	3272.5	7658.6‡ *4*	0.4 *2*	(S(n)+332-367)	(4$^+$)	2537.8
7090.8‡ *2*	0.7 *6*	(S(n)+332-367)	(4$^+$)	3105.6	8030.6‡ *3*	0.7 *6*	(S(n)+332-367)	(4$^+$)	2165.8
7112.3‡ *5*	1.0 *4*	(S(n)+332-367)	(4$^+$)	3084.1	8499.7‡ *2*	0.35 *18*	(S(n)+332-367)	(4$^+$)	1696.7
7221.7‡ *3*	2.0 *7*	(S(n)+332-367)	(4$^+$)	2974.7	8732.1‡ *3*	1.6 *3*	(S(n)+332-367)	(4$^+$)	1464.3

† Energies are systematically higher by 2 to 3 keV compared to values from (n,γ) E=thermal (1985HoZQ).
‡ γ seen in (n,γ) E=thermal also.
# Intensity per 100 neutron captures.
^{x} γ ray not placed in level scheme.

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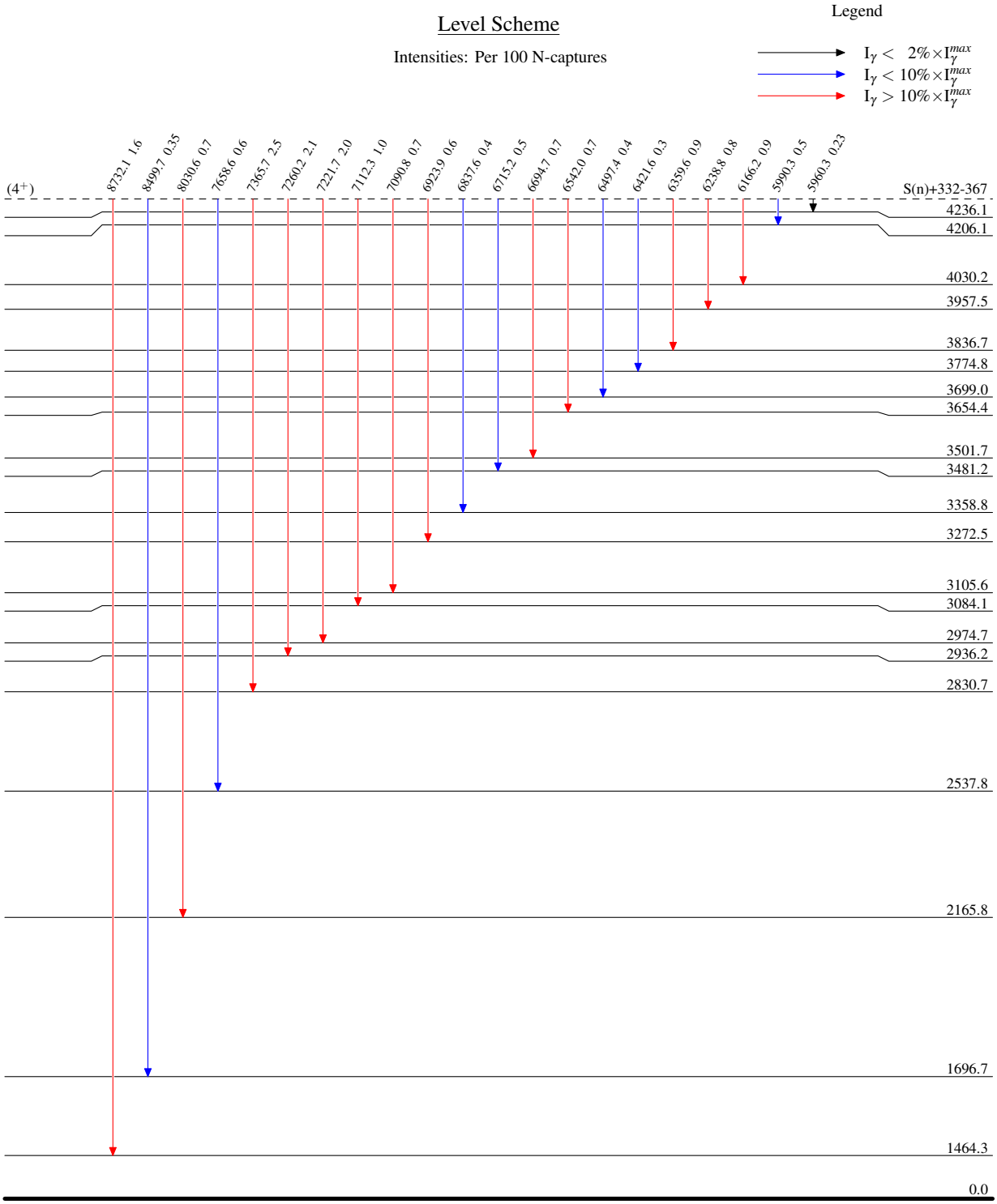
Level Scheme

Intensities: Per 100 N-captures



$^{74}_{32}Ge_{42}$