^{25}Mg(n,γ) E=thermal   **1992Wa06**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia and A. M. Hurst	NDS 134,1 (2016)	1-Feb-2016

Other references: 1991Ki04,1982Hu02,1980Is02,1969Se08,1967Sp05, 1987Gl06,2014MaZL.

Target J^{π}=5/2^{+}.

1992Wa06: measured Eγ, Iγ with a Ge(Li)-NaI(Tl) In Compton-suppressed mode and pair spectrometer mode; deduced neutron separation energy S(n)=11093.18 keV *3*.

Other measured S(n)=11093.10 keV *9* (1990Pr02), 11091.91 keV *44* (1982Hu02), 11092.9 keV *5* (1980Is02).

Evaluated S(n)=11093.09 keV *4* (2012Wa38).

Measured thermal-neutron capture cross section σ(n,γ)=200 mb *3* (1992Wa06).

^{26}Mg Levels

E(level)[†]	J^{π}[‡]	$T_{1/2}$[‡]
0.0	0$^+$	stable
1808.74 *4*	2$^+$	476 fs *21*
2938.33 *4*	2$^+$	141 fs *8*
3588.56 *9*	0$^+$	6.45 ps *48*
3941.55 *4*	3$^+$	0.83 ps *12*
4318.88 *6*	4$^+$	272 fs *16*
4332.57 *5*	2$^+$	20 fs *3*
4350.08 *4*	3$^+$	105 fs *28*
4835.13 *5*	2$^+$	28 fs *6*
4901.30 *9*	4$^+$	29 fs *6*
4972.30 *5*	0$^+$	446 fs *70*
5291.74 *5*	2$^+$	<10 fs
5476.11 *7*	4$^+$	21 fs *6*
5691.11 *17*	(1$^+$)	<8 fs
5715.60 *10*	4$^+$	87 fs *24*
6125.48 *4*	3$^+$	14 fs *6*
6634.31 *15*		≤7 fs
6745.76 *16*	2$^+$	16 fs *8*
6876.42 *4*	3$^-$	83 fs *35*
7061.95 *11*	1$^-$	≤7 fs
7099.65 *10*	2$^+$	≤14 fs
7261.39 *4*		≤7 fs
7282.74 *5*	(4$^-$)	24 fs *8*
7348.87 *5*	3$^-$	
7371.20 *22*	2$^+$	
7541.73 *5*		≤7 fs
7697.3 *6*		
7725.74 *16*	3$^+$	
8052.9 *6*		
8184.96 *10*		
8227.56 *16*	1$^-$	1.0 fs *2*
8250.73 *10*	(3$^+$)	
8458.87 *13*		
8503.74 *9*		
8532.27 *9*		
8705.73 *9*		
8863.8 *5*		
8903.50 *6*		
8959.4 *5*		
9044.7 *3*		
9238.7 *5*	1$^{(+)}$	314 as *40*
9325.51 *6*		

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^{25}Mg(n,γ) E=thermal　　　1992Wa06 (continued)

^{26}Mg Levels (continued)

E(level)[†]	J$^\pi$[‡]	Comments
9427.74 7		
9574.02 6		
9617.0 9		
9856.52 6		
10102.41 15		
10126.69 11		
10220.1 3		
10350.37 13		
10362.42 7		
10599.95 7		
10681.9 3		
10718.75 9		
10745.98 13		
10805.9 4		
11093.18 4	2$^+$,3$^+$	E(level): observed deexcitation intensity is 100% of g.s. feeding.
		E(level): S(n)=11093.09 4 (2012Wa38).

[†] From least-squares fit to γ-ray energies.
[‡] From Adopted Levels.

γ(^{26}Mg)

Iγ normalization: from 1992Wa06.

E$_\gamma$[†]	I$_\gamma$[‡&]	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.[@]	δ[@]
287.5 4	0.07 2	11093.18	2$^+$,3$^+$	10805.9			
347.20 12	0.124 19	11093.18	2$^+$,3$^+$	10745.98			
374.43 8	0.23 3	11093.18	2$^+$,3$^+$	10718.75			
391.0[b]	<0.03	4332.57	2$^+$	3941.55	3$^+$		
409.4[a] 5	0.05[a] 1	4350.08	3$^+$	3941.55	3$^+$		
409.4[a] 5	0.05[a] 1	6125.48	3$^+$	5715.60	4$^+$		
411.3 3	0.070 10	11093.18	2$^+$,3$^+$	10681.9			
493.23 6	0.74 9	11093.18	2$^+$,3$^+$	10599.95			
502.5 4	0.20 4	4835.13	2$^+$	4332.57	2$^+$		
730.74 6	1.59 6	11093.18	2$^+$,3$^+$	10362.42			
742.79 12	0.22 4	11093.18	2$^+$,3$^+$	10350.37			
744.0[b]	<0.05	4332.57	2$^+$	3588.56	0$^+$		
^{x}767.86 22	0.18 3						
814.3[b]	<0.03	5715.60	4$^+$	4901.30	4$^+$		
833.68 9	0.48 6	6125.48	3$^+$	5291.74	2$^+$		
873.0 3	0.08 2	11093.18	2$^+$,3$^+$	10220.1			
(959.5)	0.12[#] 3	4901.30	4$^+$	3941.55	3$^+$		
966.47 10	0.39 4	11093.18	2$^+$,3$^+$	10126.69			
990.76 16	0.30 3	11093.18	2$^+$,3$^+$	10102.41			
1003.25 4	16.4 6	3941.55	3$^+$	2938.33	2$^+$		
1129.61 4	92.0 3	2938.33	2$^+$	1808.74	2$^+$	M1+E2	−0.12 2
1157.23 6	1.36 10	5476.11	4$^+$	4318.88	4$^+$	M1+E2	+0.09 7
1224.0 3	0.18 3	6125.48	3$^+$	4901.30	4$^+$		
1236.64 5	1.16 5	11093.18	2$^+$,3$^+$	9856.52			
1290.40 7	0.71 6	6125.48	3$^+$	4835.13	2$^+$		
1350.20 16	0.16 3	5291.74	2$^+$	3941.55	3$^+$		

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^{25}Mg(n,γ) E=thermal   1992Wa06 (continued)

$\gamma(^{26}\text{Mg})$ (continued)

E_γ[†]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[@]
1358.4 9	0.035 12	5691.11	(1$^+$)	4332.57	2$^+$		
1365.54 20	0.63 8	5715.60	4$^+$	4350.08	3$^+$	M1+E2	−0.17 3
1394.28 7	2.01 10	4332.57	2$^+$	2938.33	2$^+$		
1411.72 4	13.4 5	4350.08	3$^+$	2938.33	2$^+$	M1+E2	−0.31 6
^{x}1468.9 3	0.11 3						
1519.12 5	2.62 10	11093.18	2$^+$,3$^+$	9574.02			
1534.49 15	0.31 4	5476.11	4$^+$	3941.55	3$^+$	M1+E2	−0.27 4
1554.8 4	0.13 2	8903.50		7348.87	3$^-$		
1567.06 11	0.46 4	7282.74	(4$^-$)	5715.60	4$^+$		
1620.8 3	0.35 4	8903.50		7282.74	(4$^-$)		
1642.09 25	0.37 5	8903.50		7261.39			
1665.39 6	1.22 7	11093.18	2$^+$,3$^+$	9427.74			
1767.61 4	3.14 14	11093.18	2$^+$,3$^+$	9325.51			
1774.0 9	0.79 12	5715.60	4$^+$	3941.55	3$^+$	M1+E2	−0.12 4
1775.31 5	13.6 5	6125.48	3$^+$	4350.08	3$^+$		
1779.74 8	1.30 6	3588.56	0$^+$	1808.74	2$^+$		
1792.87 12	0.88 8	6125.48	3$^+$	4332.57	2$^+$		
1808.68 4	186.0 6	1808.74	2$^+$	0.0	0$^+$	E2	
1854.5 5	0.24 5	11093.18	2$^+$,3$^+$	9238.7	1$^{(+)}$		
1873.1 5	0.10 2	7348.87	3$^-$	5476.11	4$^+$		
1896.72 5	9.6 5	4835.13	2$^+$	2938.33	2$^+$	M1(+E2)	−0.04 6
(1961.8)	0.06$^\#$ 2	4901.30	4$^+$	2938.33	2$^+$		
2033.88 12	0.59 7	4972.30	0$^+$	2938.33	2$^+$	E2	
2041.44 16	0.47 6	6876.42	3$^-$	4835.13	2$^+$		
2048.2 3	0.21 3	11093.18	2$^+$,3$^+$	9044.7			
^{x}2064.2 5	0.10 3						
2132.71 4	9.4 5	3941.55	3$^+$	1808.74	2$^+$		
2133.7 9	0.32 5	11093.18	2$^+$,3$^+$	8959.4			
2183.83 6	1.87 9	6125.48	3$^+$	3941.55	3$^+$		
2189.59 5	6.16 20	11093.18	2$^+$,3$^+$	8903.50			
2264.25 21	0.37 5	7099.65	2$^+$	4835.13	2$^+$		
2290.8 4	0.23 4	9574.02		7282.74	(4$^-$)		
2353.27 5	4.72 25	5291.74	2$^+$	2938.33	2$^+$		
2381.28 15	0.51 5	7282.74	(4$^-$)	4901.30	4$^+$		
2387.33 8	1.14 7	11093.18	2$^+$,3$^+$	8705.73			
^{x}2410.8 3	0.14 3						
2426.09 6	5.34 17	7261.39		4835.13	2$^+$		
2510.01 5	6.0 3	4318.88	4$^+$	1808.74	2$^+$		
2513.52 8	2.93 23	7348.87	3$^-$	4835.13	2$^+$		
2523.69 6	10.4 5	4332.57	2$^+$	1808.74	2$^+$		
2541.18 6	14.4 9	4350.08	3$^+$	1808.74	2$^+$	M1+E2	−0.10 4
2543.7 4	0.61 8	6876.42	3$^-$	4332.57	2$^+$		
2557.2 3	0.44 5	6876.42	3$^-$	4318.88	4$^+$		
2560.77 8	1.60 8	11093.18	2$^+$,3$^+$	8532.27			
2589.30 8	0.99 6	11093.18	2$^+$,3$^+$	8503.74			
2634.17 13	0.82 6	11093.18	2$^+$,3$^+$	8458.87			
2697.7 3	0.40 4	9574.02		6876.42	3$^-$		
2752.56 25	0.24 4	5691.11	(1$^+$)	2938.33	2$^+$		
2776.82 20	0.51 6	5715.60	4$^+$	2938.33	2$^+$		
2842.20 12	2.35 13	11093.18	2$^+$,3$^+$	8250.73	(3$^+$)		
2865.27 21	1.70 12	11093.18	2$^+$,3$^+$	8227.56	1$^-$		
2908.02 11	2.80 15	11093.18	2$^+$,3$^+$	8184.96			
2911.12 19	1.72 15	7261.39		4350.08	3$^+$		
2928.56 17	2.01 15	7261.39		4332.57	2$^+$		
2932.5 4	0.91 10	7282.74	(4$^-$)	4350.08	3$^+$		

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^{25}Mg(n,γ) E=thermal　　1992Wa06 (continued)

$\gamma(^{26}$Mg) (continued)

E_γ[†]	I_γ[‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[@]
2934.8 6	0.42 9	6876.42	3$^-$	3941.55	3$^+$		
2938.15 5	9.9 5	2938.33	2$^+$	0.0	0$^+$	E2	
2942.3[b]	<0.20	7261.39		4318.88	4$^+$		
2963.61 9	3.08 22	7282.74	(4$^-$)	4318.88	4$^+$	[E1]	
3016.18 23	0.84 8	7348.87	3$^-$	4332.57	2$^+$		
3021.3 9	0.10 3	7371.20	2$^+$	4350.08	3$^+$		
3026.3 6	0.46 6	4835.13	2$^+$	1808.74	2$^+$		
3029.6 8	0.22 3	7348.87	3$^-$	4318.88	4$^+$		
3039.5 8	1.27 4	11093.18	2$^+$,3$^+$	8052.9			
3092.31 11	2.72 20	4901.30	4$^+$	1808.74	2$^+$	E2	
3158.4 6	0.17 4	7099.65	2$^+$	3941.55	3$^+$		
(3163.1)	0.05[#] 3	4972.30	0$^+$	1808.74	2$^+$	E2	
3187.14 28	0.78 8	6125.48	3$^+$	2938.33	2$^+$		
3191.2 6	0.36 5	7541.73		4350.08	3$^+$		
3208.98 8	4.13 19	7541.73		4332.57	2$^+$		
3261.8 4	0.38 4	10362.42		7099.65	2$^+$		
3319.66 5	10.1 4	7261.39		3941.55	3$^+$		
3341.01 7	5.0 4	7282.74	(4$^-$)	3941.55	3$^+$	E1(+M2)	+0.03 7
3367.45 22	0.87 6	11093.18	2$^+$,3$^+$	7725.74	3$^+$		
3395.3 7	0.24 3	11093.18	2$^+$,3$^+$	7697.3			
3406.87 22	1.02 9	7725.74	3$^+$	4318.88	4$^+$		
3428.7 4	0.54 7	7371.20	2$^+$	3941.55	3$^+$		
3448.8 7	0.34 4	9574.02		6125.48	3$^+$		
3472.9 3	0.92 7	7061.95	1$^-$	3588.56	0$^+$		
3482.4 6	0.31 4	5291.74	2$^+$	1808.74	2$^+$		
3500.6 9	0.06 2	10599.95		7099.65	2$^+$		
3551.19 4	11.2 4	11093.18	2$^+$,3$^+$	7541.73			
3599.86 14	1.58 10	7541.73		3941.55	3$^+$		
3611.5 4	0.49 5	8903.50		5291.74	2$^+$		
3667.1 9	0.18 4	5476.11	4$^+$	1808.74	2$^+$		
3672.6[b]	<0.20	7261.39		3588.56	0$^+$		
3695.63 25	0.93 8	6634.31		2938.33	2$^+$		
3721.4 3	0.77 6	11093.18	2$^+$,3$^+$	7371.20	2$^+$		
3744.01 4	14.3 5	11093.18	2$^+$,3$^+$	7348.87	3$^-$		
3760.0[b]	<0.20	7348.87	3$^-$	3588.56	0$^+$		
3783.8 9	0.20 4	7725.74	3$^+$	3941.55	3$^+$		
3807.8 9	0.33 6	6745.76	2$^+$	2938.33	2$^+$		
3810.13 5	10.1 4	11093.18	2$^+$,3$^+$	7282.74	(4$^-$)		
3831.48 4	43.6 14	11093.18	2$^+$,3$^+$	7261.39			
[x]3847.0 6	0.44 10						
3882.0 3	0.60 7	5691.11	(1$^+$)	1808.74	2$^+$		
3937.80 11	2.64 12	6876.42	3$^-$	2938.33	2$^+$		
3993.24 13	1.76 9	11093.18	2$^+$,3$^+$	7099.65	2$^+$		
4001.8 3	0.50 4	8903.50		4901.30	4$^+$		
4030.88 12	1.82 9	11093.18	2$^+$,3$^+$	7061.95	1$^-$		
4122.9 6	0.26 5	7061.95	1$^-$	2938.33	2$^+$		
4139.7 5	0.28 4	8458.87		4318.88	4$^+$		
4160.96 20	0.91 8	7099.65	2$^+$	2938.33	2$^+$		
4181.9 7	0.23 4	8532.27		4350.08	3$^+$		
4216.38 4	15.0 5	11093.18	2$^+$,3$^+$	6876.42	3$^-$		
4316.39 24	0.66 7	6125.48	3$^+$	1808.74	2$^+$		
4322.68 8	3.23 17	7261.39		2938.33	2$^+$		
4332.2 3	0.79 8	4332.57	2$^+$	0.0	0$^+$	E2	
4346.98 18	0.67 5	11093.18	2$^+$,3$^+$	6745.76	2$^+$		

^{25}Mg(n,γ) E=thermal   **1992Wa06** (continued)

$\gamma(^{26}$Mg) (continued)

E_γ [†]	I_γ [‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]
4355.3 6	0.26 4	8705.73		4350.08	3$^+$	
4410.15 5	7.0 4	7348.87	3$^-$	2938.33	2$^+$	
4424.2 8	0.22 3	9325.51		4901.30	4$^+$	
4458.43 17	0.94 6	11093.18	2$^+$,3$^+$	6634.31		
4489.4 9	0.22 3	9325.51		4835.13	2$^+$	
4544.5 [b]	<0.03	8863.8		4318.88	4$^+$	
4553.02 13	1.67 13	8903.50		4350.08	3$^+$	
4584.2 [b]	<0.06	8903.50		4318.88	4$^+$	
4602.93 7	3.74 16	7541.73		2938.33	2$^+$	
(4825)	0.06 [#] 1	6634.31		1808.74	2$^+$	
4834.61 18	1.26 11	4835.13	2$^+$	0.0	0$^+$	E2
4886.3 5	0.29 4	10362.42		5476.11	4$^+$	
[x]4891.9 4	0.20 4					
4936.3 3	0.66 6	6745.76	2$^+$	1808.74	2$^+$	
4961.42 22	1.57 12	8903.50		3941.55	3$^+$	
4967.19 4	17.0 6	11093.18	2$^+$,3$^+$	6125.48	3$^+$	
4975.3 9	0.26 4	9325.51		4350.08	3$^+$	
4992.4 8	0.39 5	9325.51		4332.57	2$^+$	
5020.7 8	0.20 3	9856.52		4835.13	2$^+$	
5067.13 4	10.1 4	6876.42	3$^-$	1808.74	2$^+$	
5077.4 9	0.13 4	9427.74		4350.08	3$^+$	
5223.37 12	1.64 14	9574.02		4350.08	3$^+$	
5245.9 3	0.56 7	8184.96		2938.33	2$^+$	
5252.9 3	0.55 6	7061.95	1$^-$	1808.74	2$^+$	
5290.3 5	0.29 4	7099.65	2$^+$	1808.74	2$^+$	
5291.1 5	0.18 3	5291.74	2$^+$	0.0	0$^+$	E2
5311.66 16	1.77 11	8250.73	(3$^+$)	2938.33	2$^+$	
5376.1 8	0.13 3	11093.18	2$^+$,3$^+$	5715.60	4$^+$	
5383.8 7	0.13 3	9325.51		3941.55	3$^+$	
5401.3 4	0.45 4	11093.18	2$^+$,3$^+$	5691.11	(1$^+$)	
5452.03 4	21.3 7	7261.39		1808.74	2$^+$	
5523.6 7	0.32 4	9856.52		4332.57	2$^+$	
5539.53 15	2.22 14	7348.87	3$^-$	1808.74	2$^+$	
5562.9 9	0.12 3	7371.20	2$^+$	1808.74	2$^+$	
5593.2 4	0.35 4	8532.27		2938.33	2$^+$	
5616.8 3	0.54 5	11093.18	2$^+$,3$^+$	5476.11	4$^+$	
5632.3 6	0.24 3	9574.02		3941.55	3$^+$	
5691.1 9	0.05 2	5691.11	(1$^+$)	0.0	0$^+$	D
5732.37 15	1.72 13	7541.73		1808.74	2$^+$	
5766.6 3	0.65 6	8705.73		2938.33	2$^+$	
5800.69 9	3.15 12	11093.18	2$^+$,3$^+$	5291.74	2$^+$	
5915.8 9	0.10 3	9856.52		3941.55	3$^+$	
5924.8 9	0.11 2	8863.8		2938.33	2$^+$	
5964.31 20	0.59 5	8903.50		2938.33	2$^+$	
[x]5975.3 7	0.08 2					
6011.2 5	0.30 4	10362.42		4350.08	3$^+$	
6104.3 9	0.13 3	9044.7		2938.33	2$^+$	
6120.11 4	0.50 4	11093.18	2$^+$,3$^+$	4972.30	0$^+$	
6191.11 25	0.53 4	11093.18	2$^+$,3$^+$	4901.30	4$^+$	
6242.9 7	0.25 3	8052.9		1808.74	2$^+$	
6249.7 9	0.09 2	10599.95		4350.08	3$^+$	
6257.1 3	0.68 5	11093.18	2$^+$,3$^+$	4835.13	2$^+$	
6267.0 6	0.28 4	10599.95		4332.57	2$^+$	
6375.38 16	2.04 16	8184.96		1808.74	2$^+$	
6386.34 23	0.82 6	9325.51		2938.33	2$^+$	

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^{25}Mg(n,γ) E=thermal   **1992Wa06** (continued)

γ(^{26}Mg) (continued)

E_γ [†]	I_γ [‡&]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]
6417.9 3	0.67 8	8227.56	1$^-$	1808.74	2$^+$	
6441.1 8	0.069 14	8250.73	(3$^+$)	1808.74	2$^+$	
6488.6 4	0.57 5	9427.74		2938.33	2$^+$	
6649.1 7	0.51 3	8458.87		1808.74	2$^+$	
6657.3 5	0.24 4	10599.95		3941.55	3$^+$	
6694.0 7	0.22 3	8503.74		1808.74	2$^+$	
6722.1 7	0.16 3	8532.27		1808.74	2$^+$	
6742.21 7	4.21 16	11093.18	2$^+$,3$^+$	4350.08	3$^+$	
6759.73 11	2.29 15	11093.18	2$^+$,3$^+$	4332.57	2$^+$	
6773.1 3	0.69 5	11093.18	2$^+$,3$^+$	4318.88	4$^+$	
7054.0 6	0.16 2	8863.8		1808.74	2$^+$	
7060.6 7	0.097 19	7061.95	1$^-$	0.0	0$^+$	
7098.9 5	0.10 3	7099.65	2$^+$	0.0	0$^+$	
7150.61 7	2.29 14	11093.18	2$^+$,3$^+$	3941.55	3$^+$	
7162.4 9	0.08 2	10102.41		2938.33	2$^+$	
7187.4 8	0.12 2	10126.69		2938.33	2$^+$	
7260.3 [b]	<0.03	7261.39		0.0	0$^+$	
7347.7 [b]	<0.03	7348.87	3$^-$	0.0	0$^+$	
7369.8 7	0.18 3	7371.20	2$^+$	0.0	0$^+$	
7617.8 7	0.19 3	9427.74		1808.74	2$^+$	
7660.4 9	0.11 2	10599.95		2938.33	2$^+$	
7695.6 8	0.10 2	7697.3		0.0	0$^+$	
7807.0 9	0.10 2	9617.0		1808.74	2$^+$	
8153.54 5	29.8 10	11093.18	2$^+$,3$^+$	2938.33	2$^+$	
8225.6 4	0.43 4	8227.56	1$^-$	0.0	0$^+$	
8316.4 8	0.23 3	10126.69		1808.74	2$^+$	
8409.7 9	0.11 2	10220.1		1808.74	2$^+$	
8502.2 3	0.65 5	8503.74		0.0	0$^+$	
8539.2 9	0.10 2	10350.37		1808.74	2$^+$	
8552.2 3	0.61 6	10362.42		1808.74	2$^+$	
8957.7 5	0.32 3	8959.4		0.0	0$^+$	
8996.5 9	0.04 1	10805.9		1808.74	2$^+$	
9237.1 8	0.41 2	9238.7	1$^{(+)}$	0.0	0$^+$	M1
9282.68 6	4.55 16	11093.18	2$^+$,3$^+$	1808.74	2$^+$	
9854.5 7	0.14 3	9856.52		0.0	0$^+$	
10100.5 4	0.23 3	10102.41		0.0	0$^+$	
11090.7 7	0.28 4	11093.18	2$^+$,3$^+$	0.0	0$^+$	

[†] From 1992Wa06.
[‡] In units of mb (1992Wa06).
[#] Estimated by evaluators from branching ratio in Adopted Gammas.
[@] From Adopted Gammas.
[&] For intensity per 100 neutron captures, multiply by 0.50 2.
[a] Multiply placed with undivided intensity.
[b] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

^{25}Mg(n,γ) E=thermal   1992Wa06

Level Scheme

Intensities: Relative I$_γ$

Legend

→ I$_γ$ < 2%×I$_γ^{max}$
→ I$_γ$ < 10%×I$_γ^{max}$
→ I$_γ$ > 10%×I$_γ^{max}$

Gamma labels (top, slanted):
11090.7 0.28, 9282.68 4.55, 8153.54 29.8, 7150.61 2.29, 6773.1 0.69, 6759.73 2.29, 6742.21 4.21, 6257.1 0.68, 6191.11 0.53, 6120.11 0.50, 5800.69 3.15, 5616.8 0.54, 5401.3 0.45, 5376.1 0.13, 4967.19 17.0, 4458.43 0.67, 4346.98 0.94, 4216.38 15.0, 4030.88 1.82, 3993.24 1.76, 3831.48 43.6, 3810.13 10.1, 3744.01 14.3, 3721.4 0.77, 3551.19 11.2, 3395.3 0.24, 3367.45 0.87, 3039.5 1.27, 2908.02 2.80, 2865.27 1.70, 2842.20 2.35, 2634.17 0.82, 2589.30 0.99, 2560.77 1.60, 2387.33 1.14, 2189.59 6.16, 2133.7 0.32, 2048.2 0.21

Levels (right side):

J^π	Energy	Lifetime
2$^+$,3$^+$	11093.18	
	9044.7	
	8959.4	
	8903.50	
	8705.73	
	8532.27	
	8503.74	
	8458.87	
(3$^+$)	8250.73	
1$^-$	8227.56	1.0 fs 2
	8184.96	
	8052.9	
3$^+$	7725.74	
	7697.3	
	7541.73	≤7 fs
2$^+$	7371.20	
3$^-$	7348.87	
(4$^-$)	7282.74	24 fs 8
	7261.39	≤7 fs
2$^+$	7099.65	≤14 fs
1$^-$	7061.95	≤7 fs
3$^-$	6876.42	83 fs 35
2$^+$	6745.76	16 fs 8
	6634.31	≤7 fs
3$^+$	6125.48	14 fs 6
4$^+$	5715.60	87 fs 24
(1$^+$)	5691.11	<8 fs
4$^+$	5476.11	21 fs 6
2$^+$	5291.74	<10 fs
0$^+$	4972.30	446 fs 70
4$^+$	4901.30	29 fs 6
2$^+$	4835.13	28 fs 6
3$^+$	4350.08	105 fs 28
2$^+$	4332.57	20 fs 3
4$^+$	4318.88	272 fs 16
3$^+$	3941.55	0.83 ps 12
2$^+$	2938.33	141 fs 8
2$^+$	1808.74	476 fs 21
0$^+$	0.0	stable

$^{26}_{12}$Mg$_{14}$

^{25}Mg(n,γ) E=thermal   1992Wa06

Level Scheme (continued)

Intensities: Relative I$_\gamma$

Legend

I$_\gamma$ <   2%×I$_\gamma^{max}$
I$_\gamma$ < 10%×I$_\gamma^{max}$
I$_\gamma$ > 10%×I$_\gamma^{max}$

^{25}**Mg(n,γ) E=thermal**   **1992Wa06**

Legend

Level Scheme (continued)

Intensities: Relative I$_\gamma$

I$_\gamma$ < 2%×I$_\gamma^{max}$
I$_\gamma$ < 10%×I$_\gamma^{max}$
I$_\gamma$ > 10%×I$_\gamma^{max}$
γ Decay (Uncertain)

5632.3 0.24
5223.37 1.64
3448.8 0.34
2697.7 0.40
2290.8 0.23
7017.8 0.19
6488.6 0.57
5077.4 0.13
6886.34 0.82
5383.8 0.13
4992.4 0.39
4975.3 0.26
4489.4 0.22
4424.2 0.22
9237.1 M1 0.41
6104.3 0.13
8957.7 0.32
5964.31 0.59
4901.42 1.57
4584.2 <0.06
4553.02 1.67
4001.8 0.50
3611.5 0.49
1642.09 0.37
1620.8 0.35
1554.8 0.13
7054.0 0.16
5924.8 0.11
4544.5 <0.03
5766.6 0.65
4455.3 0.26
6722.1 0.16
5593.2 0.35
4181.9 0.23
8502.2 0.65
6604.0 0.22
6649.1 0.51
4139.7 0.28
6441.1 0.069
5311.66 1.7
8225.6 0.43
6417.9 0.67

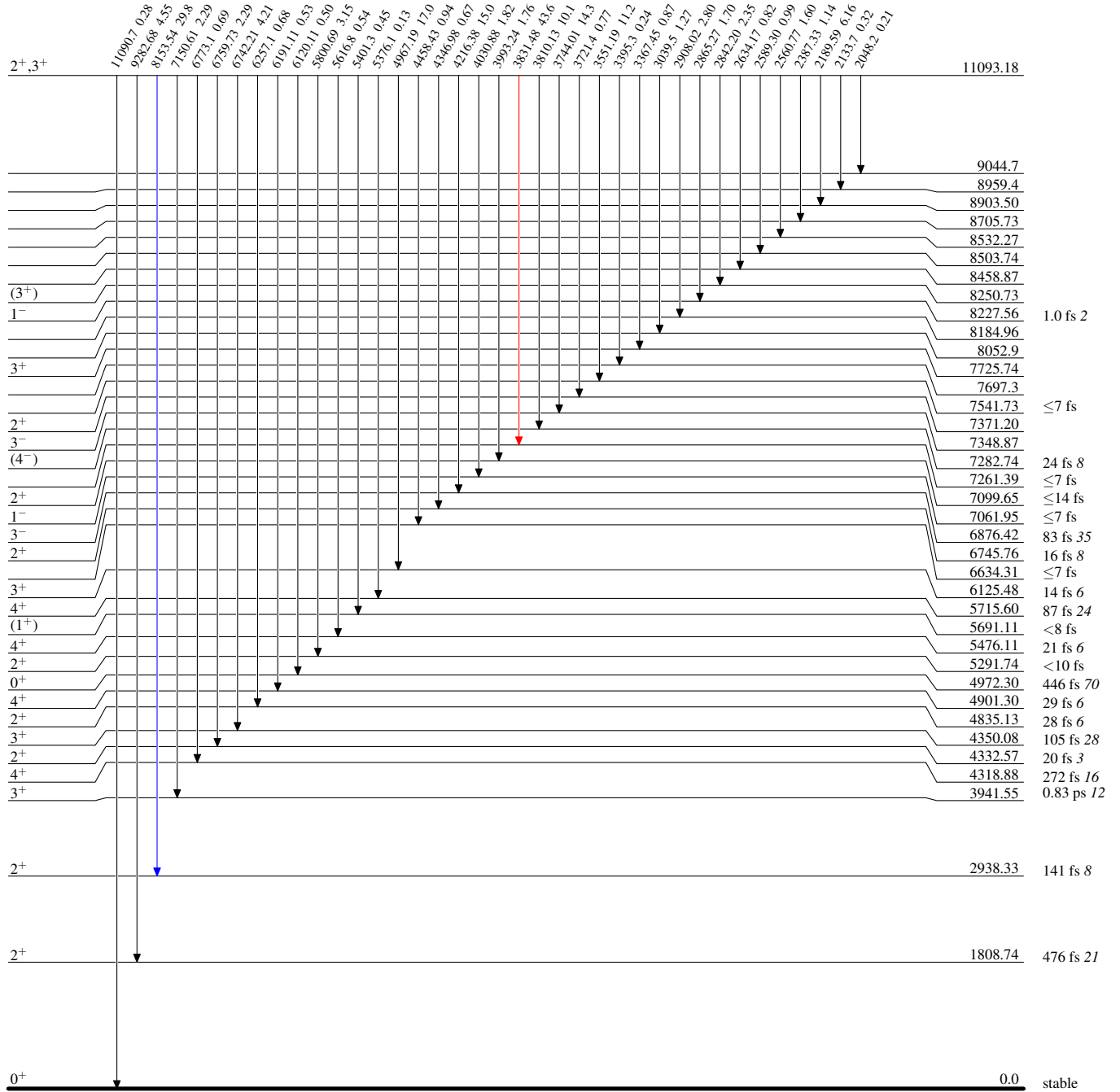| Level (keV)	J$^\pi$	Lifetime
9574.02		
9427.74		
9325.51		
9238.7	1$^{(+)}$	314 as 40
9044.7		
8959.4		
8903.50		
8863.8		
8705.73		
8532.27		
8503.74		
8458.87		
8250.73	(3$^+$)	
8227.56	1$^-$	1.0 fs 2
7348.87	3$^-$	
7282.74	(4$^-$)	24 fs 8
7261.39		≤7 fs
6876.42	3$^-$	83 fs 35
6125.48	3$^+$	14 fs 6
5291.74	2$^+$	<10 fs
4901.30	4$^+$	29 fs 6
4835.13	2$^+$	28 fs 6
4350.08	3$^+$	105 fs 28
4332.57	2$^+$	20 fs 3
4318.88	4$^+$	272 fs 16
3941.55	3$^+$	0.83 ps 12
2938.33	2$^+$	141 fs 8
1808.74	2$^+$	476 fs 21
0.0	0$^+$	stable

$^{26}_{12}$Mg$_{14}$

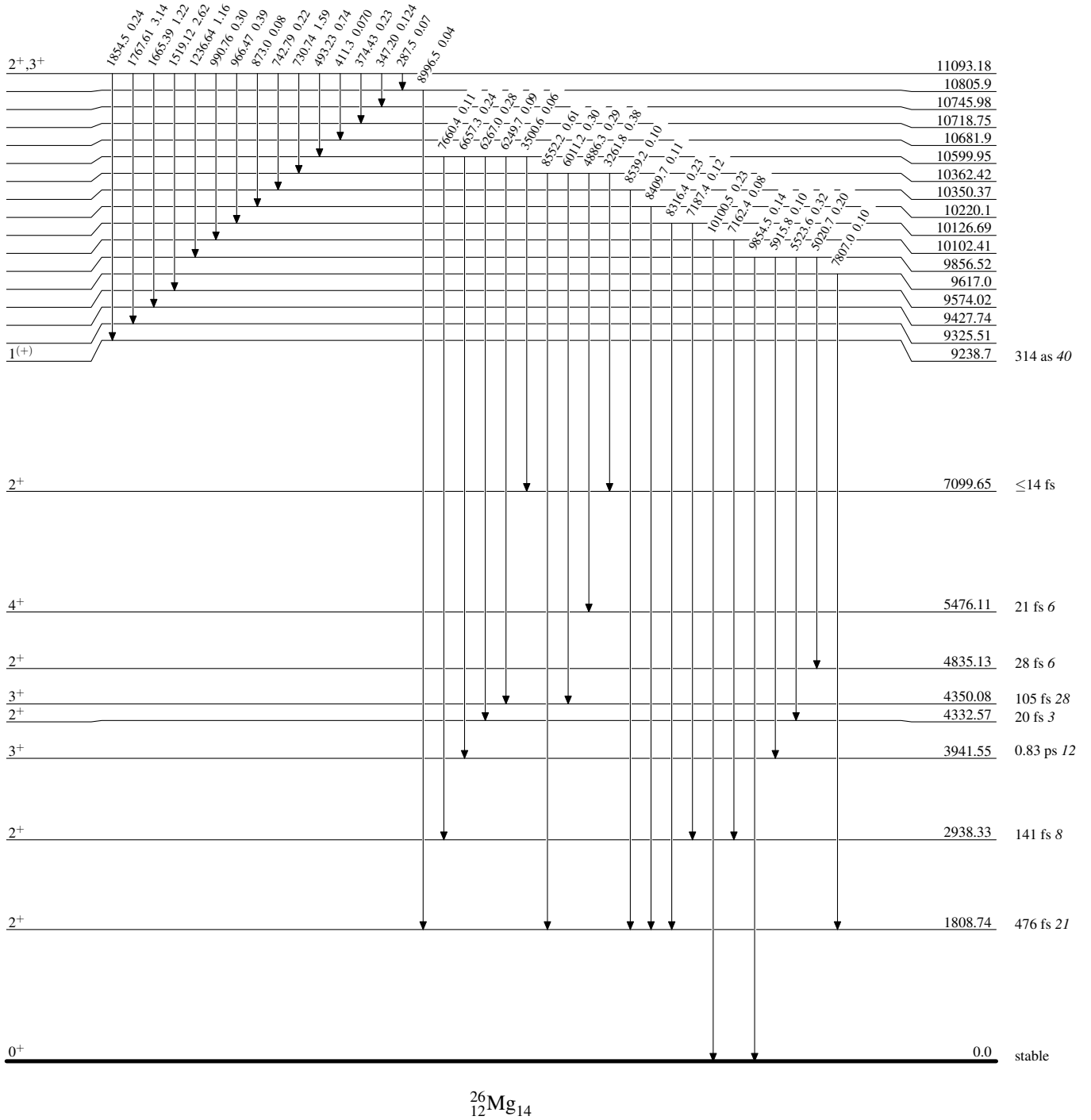^{25}Mg(n,γ) E=thermal   1992Wa06

Level Scheme (continued)

Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
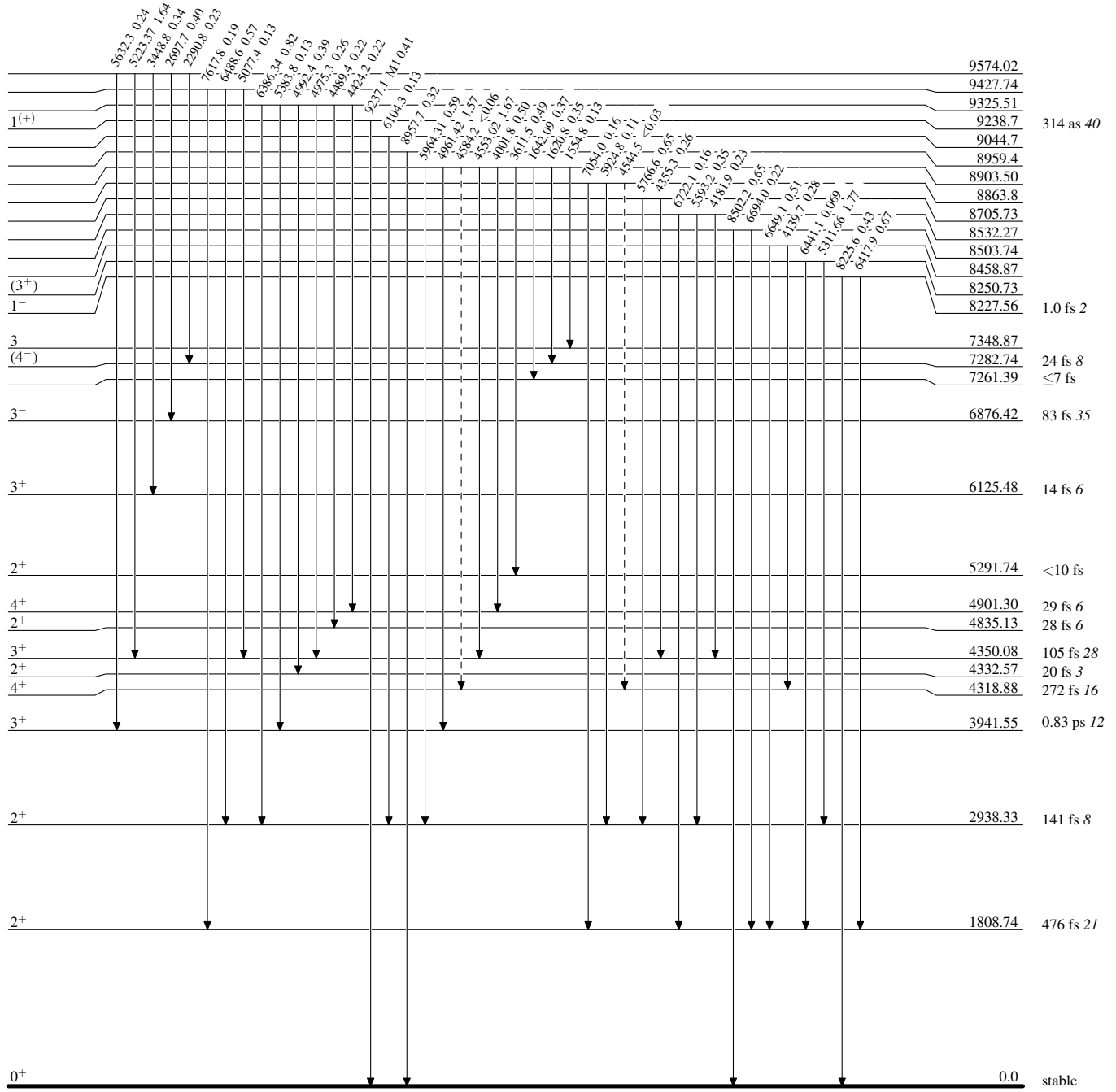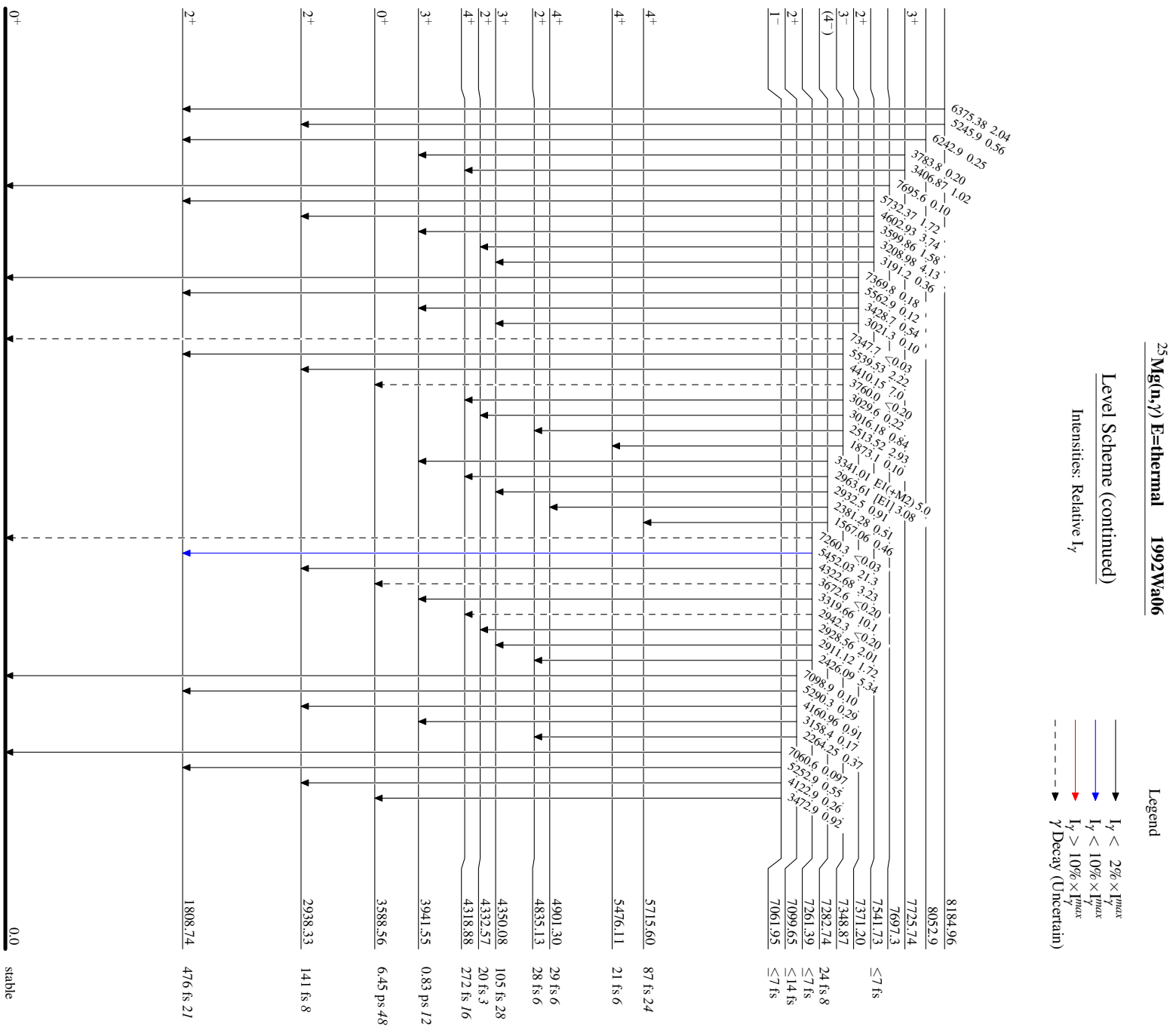$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)

$^{25}Mg(n,\gamma)$ E=thermal   1992Wa06

Level Scheme (continued)

Intensities: Relative I_γ

& Multiply placed: undivided intensity given

Legend

→	$I_\gamma < 2\% \times I_\gamma^{max}$
→	$I_\gamma < 10\% \times I_\gamma^{max}$
→	$I_\gamma > 10\% \times I_\gamma^{max}$
⇢	γ Decay (Uncertain)

5067.13 10.1
3937.80 2.64
2934.8 0.42
2557.2 0.44
2543.7 0.61
2041.44 0.47

4936.3 0.66
3807.8 0.33

4825 0.06
3695.63 0.93

4316.39 0.66
3187.14 0.78
2183.83 1.87
1792.87 0.88
1775.31 13.6
1290.40 0.71
1224.0 0.18
833.68 0.48
409.4 0.05&

2776.82 0.51
1774.0 M1+E2 0.79
1365.54 M1+E2 0.63
814.3 <0.03

5691.1 D 0.05
3882.0 0.60
2752.56 0.24
1358.4 0.035

3667.1 0.18
1534.49 M1+E2 0.31
1157.23 M1+E2 1.36

5291.1 E2 0.18
3482.4 0.31
2355.27 4.72
1350.20 0.16

3163.1 E2 0.05
2033.88 E2 0.59

3092.31 E2 2.72
1961.8 0.06
959.5 0.12

4834.61 E2 1.26
3026.3 0.46
1896.72 M1(+E2) 9.6
502.5 0.20

2541.18 M1+E2 14.4
1411.72 M1+E2 13.4
409.4 0.05&

Level energies and spins (left side):
3⁻ 5067.13
2⁺
3⁺
3⁺
4⁺
(1⁺)
4⁺
2⁺
0⁺
4⁺
3⁺
2⁺
4⁺
2⁺
3⁺
2⁺ 2938.33
2⁺ 1808.74
0⁺ 0.0

Right side labels:
6876.42   83 fs 35
6745.76   16 fs 8
6634.31   ≤7 fs

6125.48   14 fs 6

5715.60   87 fs 24
5691.11   <8 fs

5476.11   21 fs 6

5291.74   <10 fs

4972.30   446 fs 70
4901.30   29 fs 6
4835.13   28 fs 6

4350.08   105 fs 28
4332.57   20 fs 3
4318.88   272 fs 16

3941.55   0.83 ps 12

2938.33   141 fs 8
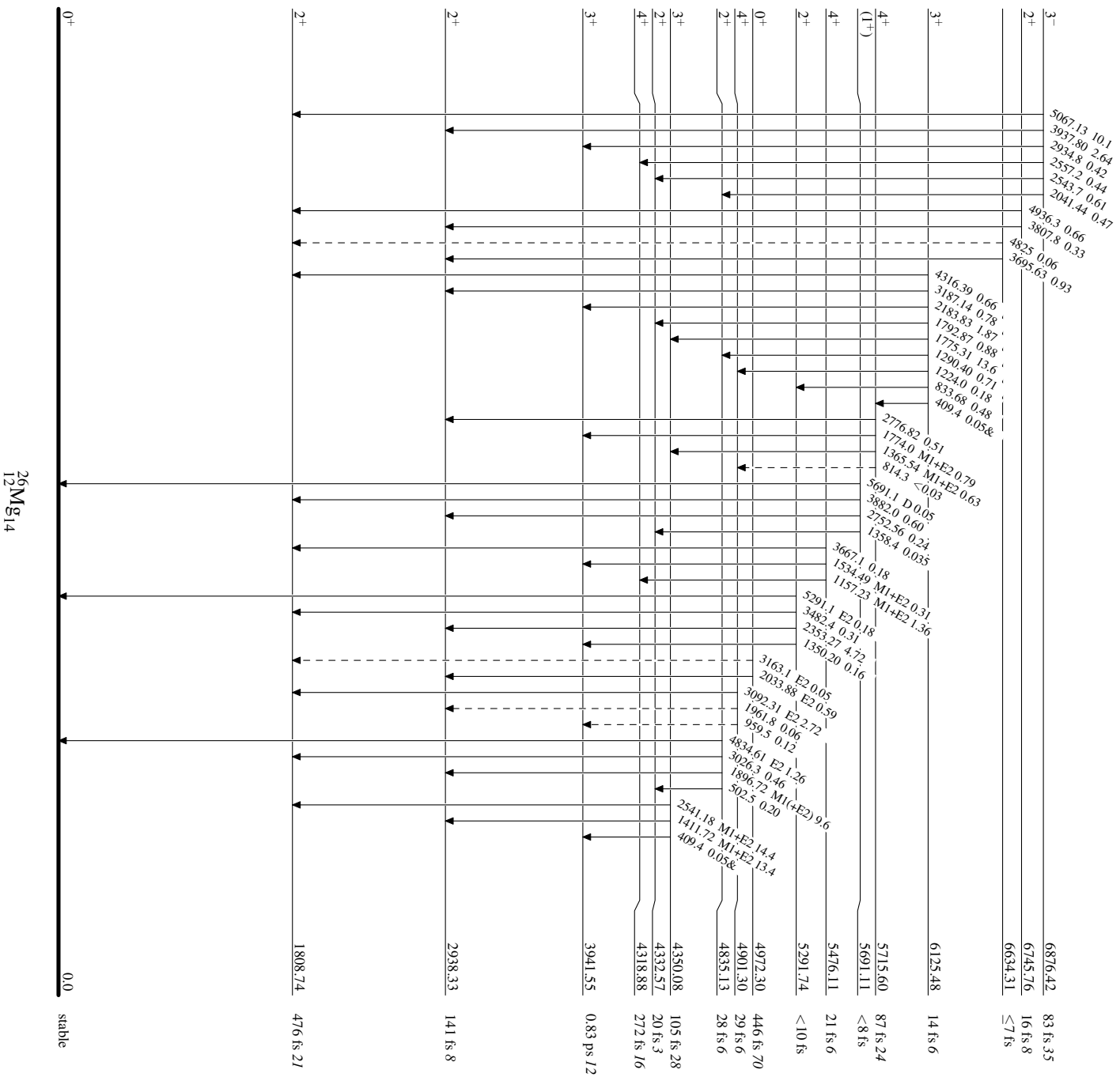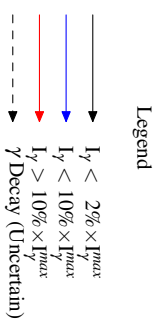
1808.74   476 fs 21

0.0   stable

$^{26}_{12}Mg_{14}$

^{25}Mg(n,γ) E=thermal   1992Wa06

Level Scheme (continued)

Intensities: Relative I$_\gamma$
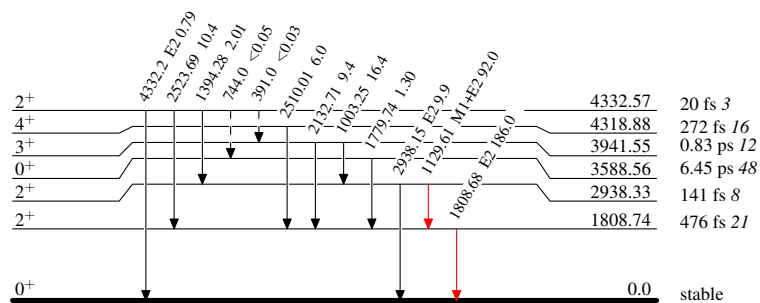& Multiply placed: undivided intensity given

Legend

$I_\gamma <$ 2%$\times I_\gamma^{max}$
$I_\gamma <$ 10%$\times I_\gamma^{max}$
$I_\gamma >$ 10%$\times I_\gamma^{max}$
γ Decay (Uncertain)

2$^+$	4332.57	20 fs 3
4$^+$	4318.88	272 fs 16
3$^+$	3941.55	0.83 ps 12
0$^+$	3588.56	6.45 ps 48
2$^+$	2938.33	141 fs 8
2$^+$	1808.74	476 fs 21
0$^+$	0.0	stable

$^{26}_{12}$Mg$_{14}$

Transition labels: 4332.2 E2 0.79, 2523.69 10.4, 1394.28 2.01, 744.0 <0.05, 391.0 <0.03, 2510.01 6.0, 2132.71 9.4, 1003.25 16.4, 1779.74 1.30, 2938.15 E2 9.9, 1129.61 M1+E2 92.0, 1808.68 E2 86.0