^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13

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Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

2002Sc13: Measured Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$(DCO), γ(lin pol), lifetimes by Doppler-shift attenuation (DSA) method using an array of six EUROBALL CLUSTERS positioned at different angles.

^{79}Br Levels

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	Comments
0[c]	3/2$^-$		
207.57[@] *10*	9/2$^+$	4.85 s *4*	%IT=100 T$_{1/2}$: from Adopted Levels.
217.07[b] *9*	5/2$^-$		
261.20[h] *24*	3/2$^-$		J$^{\pi}$: from Adopted Levels. 2002Sc13 give 5/2$^{(-)}$.
523.25[f] *24*	5/2$^-$		J$^{\pi}$: from Adopted Levels.
761.09[c] *12*	7/2$^-$		
796.68[@] *13*	13/2$^+$		
953.80[h] *21*	(7/2$^-$)		
1068.24[b] *12*	9/2$^-$		
1180.65[&] *23*	11/2$^+$		
1332.47[f] *21*			
1682.51[a] *24*	13/2$^+$		
1713.41[c] *18*	11/2$^-$		
1731.95[@] *15*	17/2$^+$	0.76 ps *21*	
1780.67[h] *17*	(11/2$^-$)		
1948.16[b] *14*	13/2$^-$		
1957.08[&] *16*	15/2$^+$	0.21 ps *7*	
2279.3[f] *4*			
2392.64[d] *22*	13/2$^-$		
2421.06[a] *22*	17/2$^+$		
2468.61[c] *19*	15/2$^-$		
2477.6 *4*	13/2$^-$		
2580.10[d] *16*	15/2$^-$		
2725.35[b] *22*	17/2$^-$	0.55 ps *28*	
2773.93[d] *17*	17/2$^-$		
2866.18[@] *17*	21/2$^+$	0.28 ps *4*	
2902.25[&] *23*	19/2$^+$	0.17 ps *5*	
3087.96[d] *19*	(19/2)$^-$	0.76 ps *21*	
3169.21[c] *22*	19/2$^-$		
3235.1[f] *6*			
3365.36[a] *23*	21/2$^+$		
3534.81[d] *25*	(21/2)$^-$	0.38 ps *10*	
3559.31[b] *22*	21/2$^{(-)}$	0.42 ps *14*	
3670.8[g] *3*	(21/2$^+$)		
3816.8 *4*			
3908.3[e] *4*			
3935.98[&] *24*	(23/2)$^+$	0.187 ps *35*	
4066.6[c] *3*	23/2$^-$		
4116.93[@] *20*	25/2$^+$	0.159 ps *21*	

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^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13 (continued)

^{79}Br Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	Comments
4152.6[d] *3*	(23/2)$^-$	0.139 ps *28*	
4340.8 *4*			
4529.9[a] *4*	25/2$^+$	0.35 ps *7*	T$_{1/2}$: effective lifetime, not corrected for side feeding.
4580.9[b] *3*	(25/2)$^-$	0.26 ps *6*	
4720.9[g] *3*	(25/2$^+$)		
4803.1[d] *4*	(25/2)$^-$	0.118 ps *21*	
4896.0 *7*			
4965.0[e] *6*			
5131.9[&] *3*	(27/2$^+$)		
5214.0[c] *4*	(27/2$^-$)		
5505.5[@] *4*	29/2$^+$	0.049 ps *21*	
5578.8[d] *5*	(27/2$^-$)		
5823.7[b] *5*	(29/2$^-$)	0.097 ps *28*	
5863.5[a] *6*	(29/2$^+$)		
6019.3[g] *4*	(29/2$^+$)		
6199.3[e] *8*			
6384.1[d] *6*	(29/2$^-$)		
6526.9[&] *5*	(31/2$^+$)	0.17 ps *6*	
6536.8[c] *7*	(31/2$^-$)		
7066.8[@] *6*	(33/2$^+$)		
7224.0[b] *7*	(33/2$^-$)		
7379.7[a] *8*	(33/2$^+$)		
7591.7[e] *10*			
8061.6[c] *9*	(35/2$^-$)		
8149.4[&] *6*	(35/2$^+$)		
8777.5[b] *9*	(37/2$^-$)		
8811.5[@] *8*	(37/2$^+$)		

[†] From least-squares fit to Eγ data.
[‡] As proposed by 2002Sc13 based on $\gamma\gamma(\theta)$(DCO), γ(lin pol) and band assignments. The parentheses, In some cases, have been added by the evaluator when strong arguments for J^{π} assignments are lacking (see Adopted Levels for details).
[#] From DSA (2002Sc13).
[@] Band(A): Band based on 9/2$^+$, α=+1/2.
[&] Band(a): Band based on 9/2$^+$, α=−1/2.
[a] Band(B): Band based on 13/2$^+$, α=+1/2.
[b] Band(C): Band based on 3/2$^-$, α=+1/2.
[c] Band(c): Band based on 3/2$^-$, α=−1/2.
[d] Band(D): Magnetic dipole (rotational) band based on 13/2$^-$.
[e] Band(E): Band structure.
[f] Band(F): Band structure.
[g] Band(G): Band based on 21/2$^{(+)}$.
[h] Band(H): Band based on 3/2$^-$.

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13 (continued)

$\gamma(^{79}Br)$

All DCO values correspond to gates on ΔJ=2, quadrupole transitions, unless otherwise stated. DCO(1)=ΔJ=1, dipole gated, DCO(2)=ΔJ=2, quadrupole gated.

E_γ †	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α‡	Comments
104.3 *5*	0.5 *1*	2580.10	15/2$^-$	2477.6	13/2$^-$	D		DCO(1)=0.9 *2* E_γ: poor fit. Level-energy difference=102.5.
187.6 *3*	3.2 *3*	2580.10	15/2$^-$	2392.64	13/2$^-$	D		DCO(1)=1.02 *9*
193.8 *1*	11 *1*	2773.93	17/2$^-$	2580.10	15/2$^-$	D		DCO(2)=0.55 *3*
207.5 *1*		207.57	9/2$^+$	0	3/2$^-$	E3	0.311	α(K)=0.263 *4*; α(L)=0.0410 *6*; α(M)=0.00653 *10* α(N)=0.000541 *8* E_γ,Mult.: from Adopted Gammas.
217.1 *1*	36 *4*	217.07	5/2$^-$	0	3/2$^-$			
234.9 *5*	0.4 *1*	1948.16	13/2$^-$	1713.41	11/2$^-$			
238.0 *5*	1.1 *1*	761.09	7/2$^-$	523.25	5/2$^-$			
256.9 *5*	1.0 *1*	2725.35	17/2$^-$	2468.61	15/2$^-$			
261.1 *3*	2.9 *4*	261.20	3/2$^-$	0	3/2$^-$	D		DCO(1)=0.9 *2*
300.7 *5*	0.6 *1*	2580.10	15/2$^-$	2279.3		D		DCO(1)=1.0 *2*
304.9 *5*	1.6 *2*	2773.93	17/2$^-$	2468.61	15/2$^-$	D		DCO(1)=1.0 *1*
306.6 *5*	1.9 *2*	1068.24	9/2$^-$	761.09	7/2$^-$	D		DCO(2)=0.65 *8*
314.0 *1*	11 *1*	3087.96	(19/2)$^-$	2773.93	17/2$^-$	D		DCO(2)=0.50 *3*
348.6 *5*	0.6 *1*	3908.3		3559.31	21/2$^{(-)}$			
362.2 *5*	0.7 *1*	3087.96	(19/2)$^-$	2725.35	17/2$^-$	D		DCO(2)=0.6 *1*
380.6 *5*	0.9 *1*	1713.41	11/2$^-$	1332.47				
383.2 *5*	0.9 *1*	1180.65	11/2$^+$	796.68	13/2$^+$	(M1)	0.00361	α(K)=0.00320 *5*; α(L)=0.000342 *5*; α(M)=5.44×10^{-5} *8* α(N)=5.08×10^{-6} *8* POL=−0.02 *1*.
389.9 *5*	1.3 *1*	3559.31	21/2$^{(-)}$	3169.21	19/2$^-$	D		DCO(2)=0.5 *1*
395.0 *3*	2.1 *2*	3169.21	19/2$^-$	2773.93	17/2$^-$	D		DCO(2)=0.49 *8*
442.8 *5*	0.2 *1*	3169.21	19/2$^-$	2725.35	17/2$^-$			
444.2 *5*	1.9 *2*	2392.64	13/2$^-$	1948.16	13/2$^-$	(D)		DCO(2)=0.8 *1* DCO influenced by 446.7γ+447.6γ doublet.
446.7 *3*	4.6 *5*	3534.81	(21/2)$^-$	3087.96	(19/2)$^-$	(M1)	0.00251	DCO(2)=0.49 *7* α(K)=0.00223 *4*; α(L)=0.000237 *4*; α(M)=3.77×10^{-5} *6* α(N)=3.53×10^{-6} *5* DCO for 446.7γ+447.6γ. POL=−0.03 *1*.
447.6 *5*	1.3 *1*	1780.67	(11/2$^-$)	1332.47		(D)		DCO(2)=0.49 *7* DCO for 446.7γ+447.6γ.
462.6 *5*	0.5 *1*	3365.36	21/2$^+$	2902.25	19/2$^+$			
464.0 *5*	1.4 *1*	2421.06	17/2$^+$	1957.08	15/2$^+$	D		DCO(2)=0.46 *6*
471.2 *3*	3.1 *3*	3559.31	21/2$^{(-)}$	3087.96	(19/2)$^-$	D		DCO(2)=0.46 *7*
501.7 *3*	3.2 *3*	1682.51	13/2$^+$	1180.65	11/2$^+$	(M1)	0.00191	α(K)=0.001702 *24*; α(L)=0.000181 *3*; α(M)=2.87×10^{-5} *4* α(N)=2.69×10^{-6} *4* POL=−0.10 *3*.
508.1 *5*	1.3 *1*	4066.6	23/2$^-$	3559.31	21/2$^{(-)}$			
512.9 *5*	0.4 *1*	6019.3	(29/2$^+$)	5505.5	29/2$^+$			
513.6 *5*	1.6 *2*	4580.9	(25/2)$^-$	4066.6	23/2$^-$			
521.9 *5*	0.5 *1*	2468.61	15/2$^-$	1948.16	13/2$^-$	D		DCO(2)=0.5 *2*
523.3 *3*	2.7 *5*	523.25	5/2$^-$	0	3/2$^-$			
530.3 *5*	1.5 *2*	2477.6	13/2$^-$	1948.16	13/2$^-$	(D)		DCO(2)=1.0 *2*
543.9 *1*	7.7 *8*	761.09	7/2$^-$	217.07	5/2$^-$	M1	1.59×10^{-3}	DCO(2)=0.7 *1*

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^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13 (continued)

$\gamma(^{79}Br)$ (continued)

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α[‡]	Comments
								α(K)=0.001414 *20*; α(L)=0.0001498 *21*; α(M)=2.38×10^{-5} *4* α(N)=2.23×10^{-6} *4* POL=−0.10 *1*.
565.3 *5*	1.8 *2*	2279.3		1713.41	11/2$^-$			
570.6 *5*	1.1 *1*	3935.98	(23/2)$^+$	3365.36	21/2$^+$			
571.2 *3*	3.5 *4*	1332.47		761.09	7/2$^-$			DCO(2)=0.9 *2*
589.0 *1*	100 *2*	796.68	13/2$^+$	207.57	9/2$^+$	E2	0.00182	α(K)=0.001618 *23*; α(L)=0.0001750 *25*; α(M)=2.78×10^{-5} *4* α(N)=2.57×10^{-6} *4* POL=+0.08 *1*.
593.5 *3*	3.8 *4*	4152.6	(23/2)$^-$	3559.31	21/2$^{(-)}$			
603.9 *5*	1.8 *2*	4720.9	(25/2$^+$)	4116.93	25/2$^+$			
611.6 *5*	1.8 *2*	2392.64	13/2$^-$	1780.67	(11/2$^-$)	D		DCO(2)=0.5 *1*
617.4 *3*	3.0 *3*	4152.6	(23/2)$^-$	3534.81	(21/2)$^-$	M1		DCO(2)=0.5 *1* POL=−0.01 *1*.
631.7 *5*	1.9 *2*	2580.10	15/2$^-$	1948.16	13/2$^-$	D		DCO(2)=0.49 *8*
644.9 *3*	2.4 *2*	1713.41	11/2$^-$	1068.24	9/2$^-$	D		DCO(2)=0.57 *7* POL=−0.08 *2*.
649.9 *5*	1.5 *2*	4803.1	(25/2)$^-$	4152.6	(23/2)$^-$	M1		DCO(2)=0.4 *1* POL=−0.06 *3*.
669.6 *5*	0.9 *1*	4340.8		3670.8	(21/2$^+$)			
687.7 *3*	3.6 *4*	2468.61	15/2$^-$	1780.67	(11/2$^-$)			
692.5 *3*	2.1 *2*	953.80	(7/2$^-$)	261.20	3/2$^-$			
700.7 *3*	5.1 *5*	3169.21	19/2$^-$	2468.61	15/2$^-$	E2		DCO(2)=0.9 *2* POL=+0.07 *1*.
712.3 *5*	1.2 *1*	1780.67	(11/2$^-$)	1068.24	9/2$^-$			
736.7 *5*	1.4 *1*	2468.61	15/2$^-$	1731.95	17/2$^+$	(D)		DCO(2)=0.5 *1*
737.1 *5*	1.5 *2*	953.80	(7/2$^-$)	217.07	5/2$^-$			
738.5 *3*	3.7 *4*	2421.06	17/2$^+$	1682.51	13/2$^+$	E2		DCO(2)=1.0 *1* POL=+0.05 *1*.
754.9 *3*	4.8 *5*	2468.61	15/2$^-$	1713.41	11/2$^-$	E2		DCO(2)=0.9 *1* POL=+0.07 *2*.
759.4 *5*	1.4 *1*	1713.41	11/2$^-$	953.80	(7/2$^-$)			
760.3 *5*	0.8 *1*	3534.81	(21/2)$^-$	2773.93	17/2$^-$			
761.5 *3*	4.4 *4*	761.09	7/2$^-$	0	3/2$^-$	(E2)		DCO(2)=0.9 *3* POL=+0.01 *1*.
769.3 *5*	0.4 *1*	3670.8	(21/2$^+$)	2902.25	19/2$^+$			
775.4 *5*	0.7 *1*	5578.8	(27/2$^-$)	4803.1	(25/2)$^-$	D		DCO(1)=1.0 *4*
776.5 *5*	0.8 *1*	1957.08	15/2$^+$	1180.65	11/2$^+$	E2		DCO(2)=1.1 *4* POL=+0.03 *1*.
777.4 *3*	5.9 *6*	2725.35	17/2$^-$	1948.16	13/2$^-$	(E2)		DCO(2)=0.87 *6* POL=+0.03 *1*.
785.3 *5*	1.0 *1*	4720.9	(25/2$^+$)	3935.98	(23/2)$^+$			
785.8 *5*	1.0 *1*	3559.31	21/2$^{(-)}$	2773.93	17/2$^-$			
799.4 *3*	2.4 *2*	2580.10	15/2$^-$	1780.67	(11/2$^-$)	Q		DCO(1)=1.5 *1*
804.7 *5*	1.8 *2*	3670.8	(21/2$^+$)	2866.18	21/2$^+$			
805.4 *5*	0.4 *1*	6384.1	(29/2$^-$)	5578.8	(27/2$^-$)			
809.2 *5*	1.0 *1*	1332.47		523.25	5/2$^-$			DCO(2)=1.0 *2* DCO for 809.9γ+809.2γ.
809.9 *5*	1.6 *2*	3534.81	(21/2)$^-$	2725.35	17/2$^-$	(E2)		DCO(2)=1.0 *2* DCO for 809.9γ+809.2γ.
820.5 *5*	0.5 *1*	3908.3		3087.96	(19/2)$^-$			
825.7 *3*	2.1 *2*	2773.93	17/2$^-$	1948.16	13/2$^-$	Q		DCO(2)=1.0 *2*
827.0 *3*	2.5 *3*	1780.67	(11/2$^-$)	953.80	(7/2$^-$)			

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^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13 (continued)

$\gamma(^{79}Br)$ (continued)

E_γ †	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
834.6 *3*	2.5 *2*	3559.31	$21/2^{(-)}$	2725.35	$17/2^-$	(E2)	DCO(2)=0.9 *2*
847.5 *3*	2.3 *2*	2580.10	$15/2^-$	1731.95	$17/2^+$		
851.3 *1*	19 *2*	1068.24	$9/2^-$	217.07	$5/2^-$	(E2)	POL=+0.05 *1*.
866.7 *5*	1.6 *2*	2580.10	$15/2^-$	1713.41	$11/2^-$	Q	DCO(1)=1.5 *3*
880.0 *1*	15 *2*	1948.16	$13/2^-$	1068.24	$9/2^-$	E2	DCO(2)=0.91 *4* POL=+0.07 *1*.
885.8 *5*	1.8 *2*	1682.51	$13/2^+$	796.68	$13/2^+$	(D)	DCO(2)=1.0 *2*
888.7 *5*	0.7 *1*	6019.3	$(29/2^+)$	5131.9	$(27/2^+)$		
897.0 *3*	4.3 *4*	4066.6	$23/2^-$	3169.21	$19/2^-$	E2	DCO(2)=0.9 *1* POL=+0.06 *1*.
914.4 *5*	1.1 *1*	3816.8		2902.25	$19/2^+$		
935.2 *1*	51 *5*	1731.95	$17/2^+$	796.68	$13/2^+$	E2	DCO(2)=1.00 *2* POL=+0.07 *1*.
944.3 *3*	3.6 *4*	3365.36	$21/2^+$	2421.06	$17/2^+$	(E2)	DCO(2)=0.9 *1* DCO and POL=+0.11 *1* for 945.4γ+944.3γ.
945.4 *5*	1.9 *2*	2902.25	$19/2^+$	1957.08	$15/2^+$	(E2)	DCO(2)=0.9 *1* DCO and POL=+0.11 *1* for 945.4γ+944.3γ.
947.4 *5*	1.9 *2*	2279.3		1332.47			
950.8 *5*	0.9 *1*	3816.8		2866.18	$21/2^+$		
952.3 *3*	4.8 *5*	1713.41	$11/2^-$	761.09	$7/2^-$	E2	DCO(2)=1.1 *2* POL=+0.06 *1*.
953.9 *5*	1.0 *1*	953.80	$(7/2^-)$	0	$3/2^-$		
955.8 *5*	1.1 *1*	3235.1		2279.3			
973.2 *3*	7 *1*	1180.65	$11/2^+$	207.57	$9/2^+$	(M1)	DCO(2)=0.7 *2* POL=+0.04 *1*.
977.9 *5*	0.8 *1*	4066.6	$23/2^-$	3087.96	$(19/2)^-$		
1015.4 *5*	1.7 *2*	5131.9	$(27/2^+)$	4116.93	$25/2^+$	D	DCO(2)=0.4 *1*
1019.3 *3*	2.8 *3*	1780.67	$(11/2^-)$	761.09	$7/2^-$	Q	DCO(2)=1.1 *2*
1021.0 *5*	0.6 *1*	6526.9	$(31/2^+)$	5505.5	$29/2^+$		
1021.8 *3*	2.5 *3*	4580.9	$(25/2)^-$	3559.31	$21/2^{(-)}$	E2	DCO(2)=1.0 *3* POL=+0.08 *1*.
1034.1 *3*	2.1 *2*	3935.98	$(23/2)^+$	2902.25	$19/2^+$	(E2)	POL=+0.02 *1*.
1046.2 *3*	2.7 *3*	4580.9	$(25/2)^-$	3534.81	$(21/2)^-$	E2	DCO(2)=1.0 *2*
1050.0 *5*	0.9 *1*	4720.9	$(25/2^+)$	3670.8	$(21/2^+)$		
1056.7 *5*	1.3 *1*	4965.0		3908.3		(Q)	DCO(1)=1.6 *5*
1064.9 *5*	0.7 *1*	4152.6	$(23/2)^-$	3087.96	$(19/2)^-$	E2	DCO(1)=1.7 *4*
1069.9 *3*	3.3 *3*	3935.98	$(23/2)^+$	2866.18	$21/2^+$	M1+E2	DCO(2)=0.36 *4* POL=+0.04 *3*.
1079.2 *5*	0.9 *1*	4896.0		3816.8		Q	DCO(2)=1.0 *4*
1082.8 *5*	0.2 *1*	8149.4	$(35/2^+)$	7066.8	$(33/2^+)$		
1115.5 *5*	0.3 *1*	1332.47		217.07	$5/2^-$		
1134.2 *1*	24 *2*	2866.18	$21/2^+$	1731.95	$17/2^+$	E2	DCO(2)=1.02 *3* POL=+0.07 *1*.
1134.6 *5*	1.0 *1*	3908.3		2773.93	$17/2^-$		
1147.4 *3*	2.7 *3*	5214.0	$(27/2^-)$	4066.6	$23/2^-$	Q	DCO(2)=0.8 *2*
1160.4 *1*	7.7 *8*	1957.08	$15/2^+$	796.68	$13/2^+$	D	DCO(2)=0.50 *3*
1164.4 *3*	3.4 *3*	4529.9	$25/2^+$	3365.36	$21/2^+$	E2	DCO(2)=0.9 *2* POL=+0.08 *3*.
1170.9 *3*	4.9 *5*	2902.25	$19/2^+$	1731.95	$17/2^+$	M1+E2	DCO(2)=0.42 *4* POL=−0.01 *1*.
1196.3 *3*	1.5 *2*	5131.9	$(27/2^+)$	3935.98	$(23/2)^+$		
1234.3 *5*	0.6 *1*	6199.3		4965.0			
1242.8 *3*	2.1 *2*	5823.7	$(29/2^-)$	4580.9	$(25/2)^-$	E2	DCO(1)=1.5 *2*
1250.7 *1*	9.0 *9*	4116.93	$25/2^+$	2866.18	$21/2^+$	E2	DCO(2)=0.97 *5* POL=+0.09 *1*.
1268.6 *5*	0.4 *1*	4803.1	$(25/2)^-$	3534.81	$(21/2)^-$		

Continued on next page (footnotes at end of table)

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13 (continued)

$\gamma(^{79}Br)$ (continued)

E_γ †	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
1298.3 *5*	0.4 *1*	6019.3	(29/2$^+$)	4720.9	(25/2$^+$)		
1322.8 *5*	1.1 *1*	6536.8	(31/2$^-$)	5214.0	(27/2$^-$)	Q	DCO(2)=1.0 *3*
1325.1 *5*	1.2 *1*	2392.64	13/2$^-$	1068.24	9/2$^-$	E2	DCO(2)=1.1 *2* POL=+0.02 *2*.
1333.6 *5*	1.4 *1*	5863.5	(29/2$^+$)	4529.9	25/2$^+$	(Q)	DCO(2)=0.9 *3*
1388.2 *3*	2.6 *3*	5505.5	29/2$^+$	4116.93	25/2$^+$	E2	DCO(2)=0.9 *1* POL=+0.07 *2*.
1392.4 *5*	0.3 *1*	7591.7		6199.3			
1395.0 *5*	0.7 *1*	6526.9	(31/2$^+$)	5131.9	(27/2$^+$)	E2	DCO(2)=1.0 *2*
1400.2 *5*	0.9 *1*	7224.0	(33/2$^-$)	5823.7	(29/2$^-$)		
1410.2 *5*	0.4 *1*	2477.6	13/2$^-$	1068.24	9/2$^-$		
1426.5 *5*	0.5 *1*	5578.8	(27/2$^-$)	4152.6	(23/2)$^-$		
1437.6 *5*	1.3 *1*	3169.21	19/2$^-$	1731.95	17/2$^+$		
1439.3 *5*	0.6 *1*	4340.8		2902.25	19/2$^+$		
1474.2 *5*	0.6 *1*	4340.8		2866.18	21/2$^+$		
1475.3 *5*	2.0 *2*	1682.51	13/2$^+$	207.57	9/2$^+$	(E2)	POL=+0.04 *2*.
1516.1 *5*	0.4 *1*	7379.7	(33/2$^+$)	5863.5	(29/2$^+$)		
1524.8 *5*	0.3 *1*	8061.6	(35/2$^-$)	6536.8	(31/2$^-$)		
1553.5 *5*	0.2 *1*	8777.5	(37/2$^-$)	7224.0	(33/2$^-$)		
1561.6 *5*	0.7 *1*	7066.8	(33/2$^+$)	5505.5	29/2$^+$	(Q)	DCO(2)=0.8 *2*
1580.9 *5*	0.3 *1*	6384.1	(29/2$^-$)	4803.1	(25/2)$^-$		
1596.3 *5*	1.5 *2*	2392.64	13/2$^-$	796.68	13/2$^+$	(D)	DCO(2)=1.2 *3*
1622.2 *5*	0.3 *1*	8149.4	(35/2$^+$)	6526.9	(31/2$^+$)		
1624.4 *3*	2.8 *3*	2421.06	17/2$^+$	796.68	13/2$^+$	E2	DCO(2)=0.9 *1* POL=+0.07 *2*.
1633.4 *3*	2.8 *3*	3365.36	21/2$^+$	1731.95	17/2$^+$	E2	DCO(2)=1.0 *1* POL=+0.06 *2*.
1664.2 *5*	0.7 *1*	4529.9	25/2$^+$	2866.18	21/2$^+$	E2	DCO(2)=1.3 *5* POL=+0.17 *8*.
1744.6 *5*	0.2 *1*	8811.5	(37/2$^+$)	7066.8	(33/2$^+$)		
1783.1 *3*	3.5 *4*	2580.10	15/2$^-$	796.68	13/2$^+$	E1	DCO(2)=0.57 *5* POL=+0.04 *1*.
1854.5 *5*	0.7 *1*	4720.9	(25/2$^+$)	2866.18	21/2$^+$		
1902.1 *5*	0.3 *1*	6019.3	(29/2$^+$)	4116.93	25/2$^+$		
1937.5 *5*	1.1	3670.8	(21/2$^+$)	1731.95	17/2$^+$	(Q)	DCO(2)=1.1 *3*

† Uncertainties are assigned as follows based on a general comment by 2002Sc13: 0.1 keV for Iγ>7, 0.3 keV for Iγ=2-7 and 0.5 for Iγ<2.

‡ From BrIcc v2.3b (16-Dec-2014) 2008Ki07, "Frozen Orbitals" appr.

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13

Level Scheme

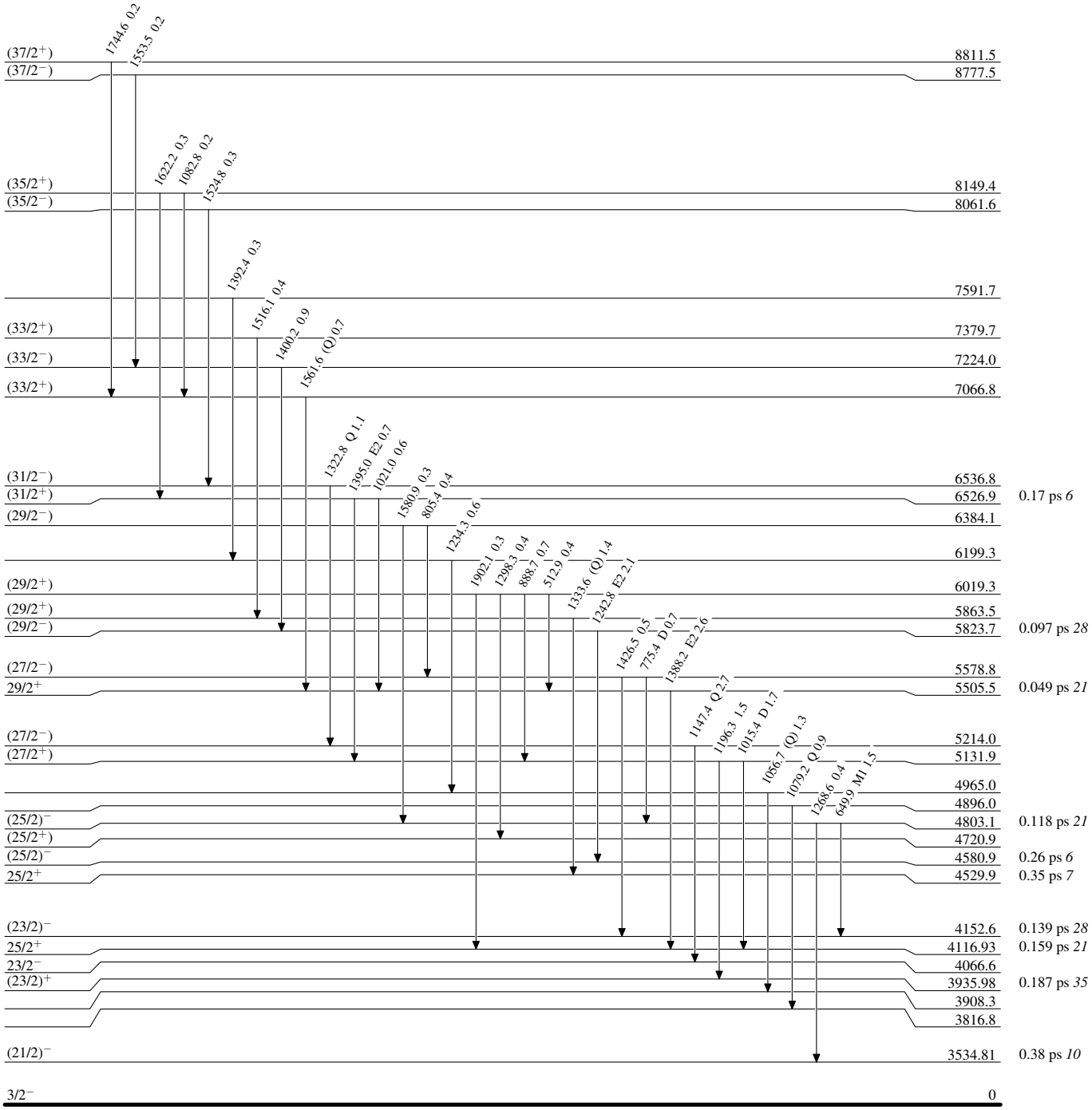
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{79}_{35}Br_{44}$

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13

Level Scheme (continued)

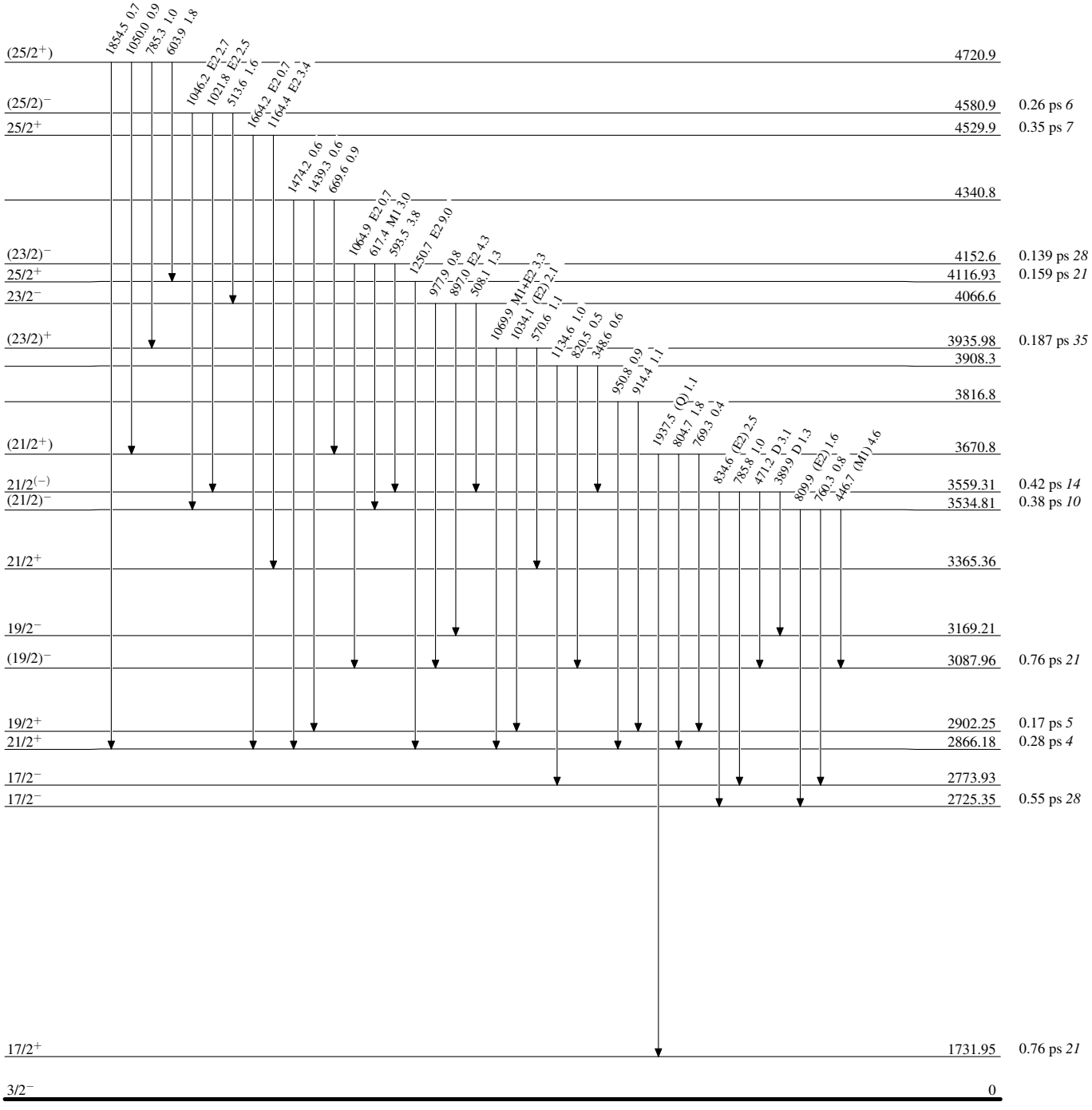
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



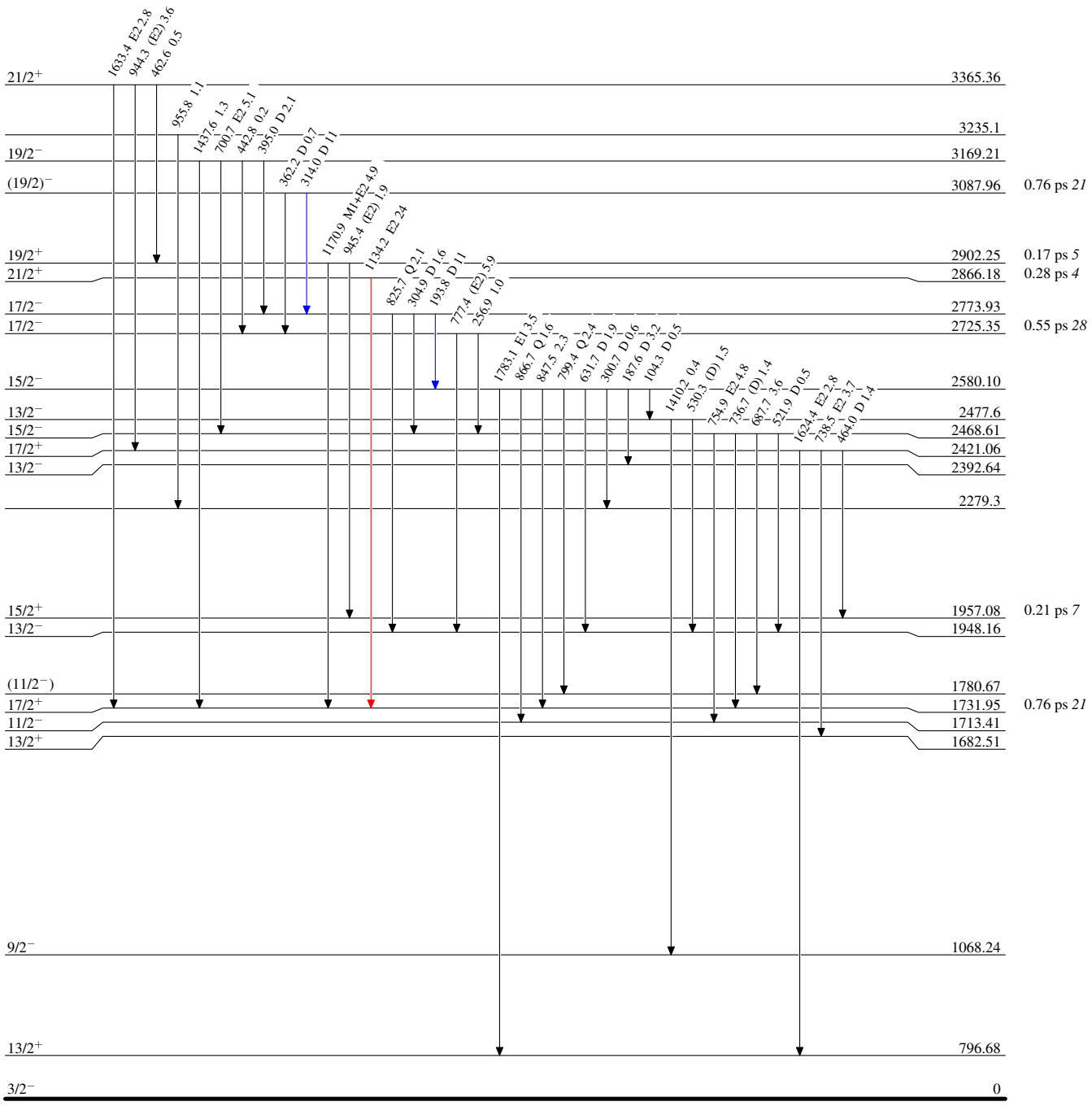
$^{79}_{35}Br_{44}$

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13

Level Scheme (continued)

Intensities: Relative I_γ

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$



$^{79}_{35}Br_{44}$

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13

Level Scheme (continued)

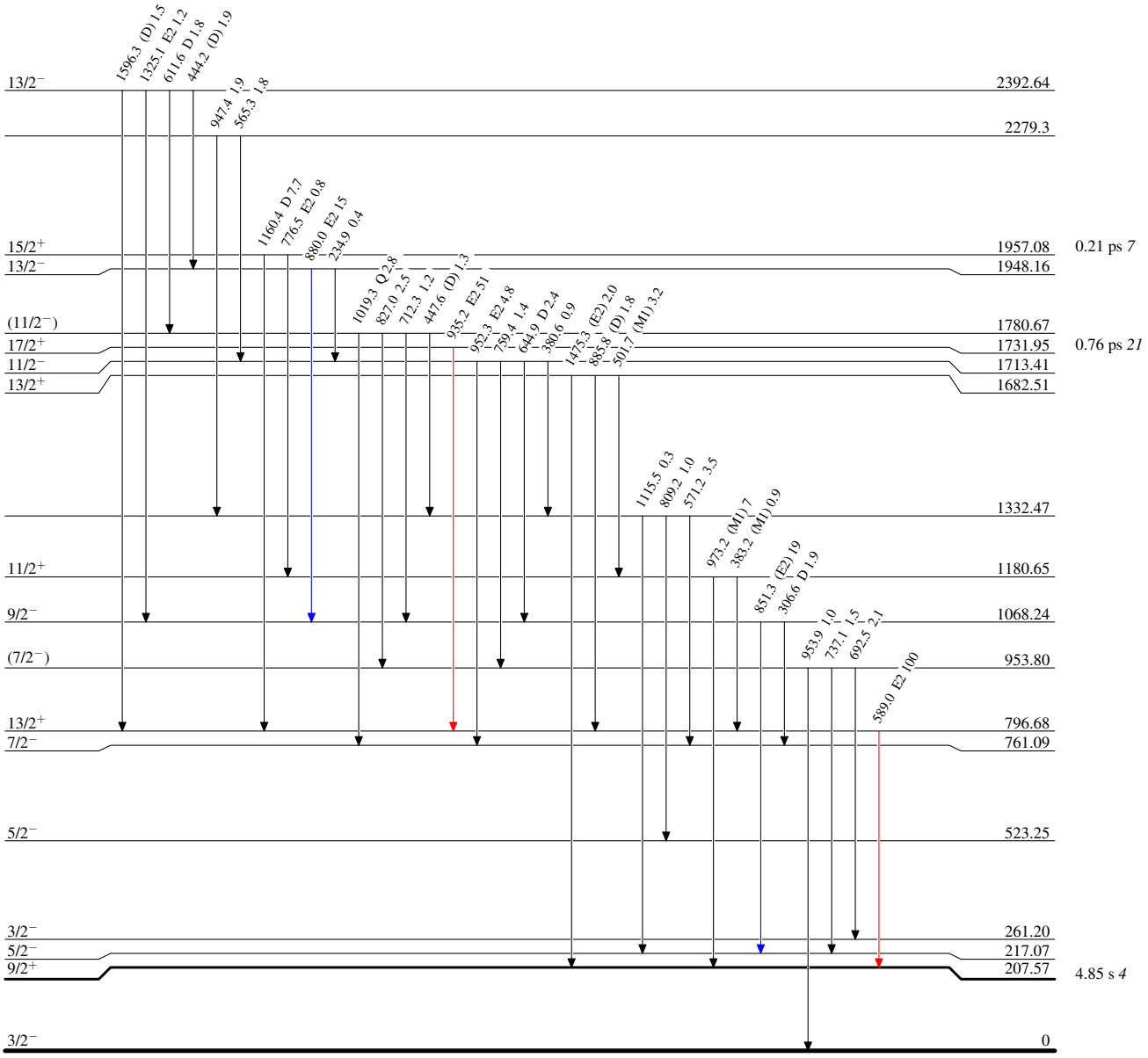
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$

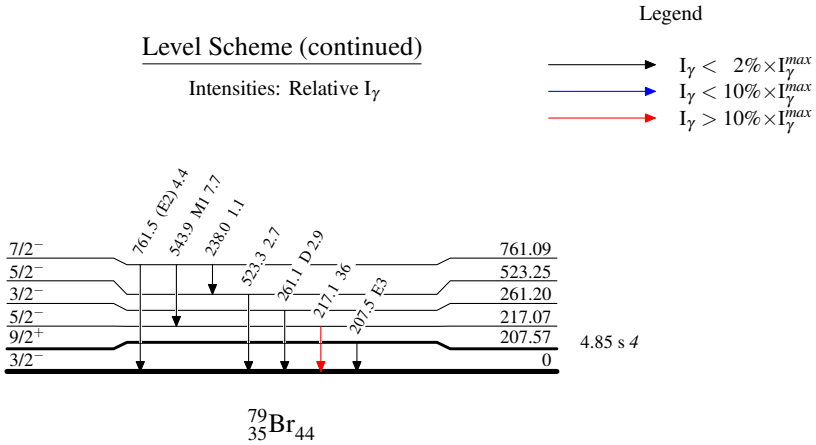


$^{79}_{35}Br_{44}$

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13

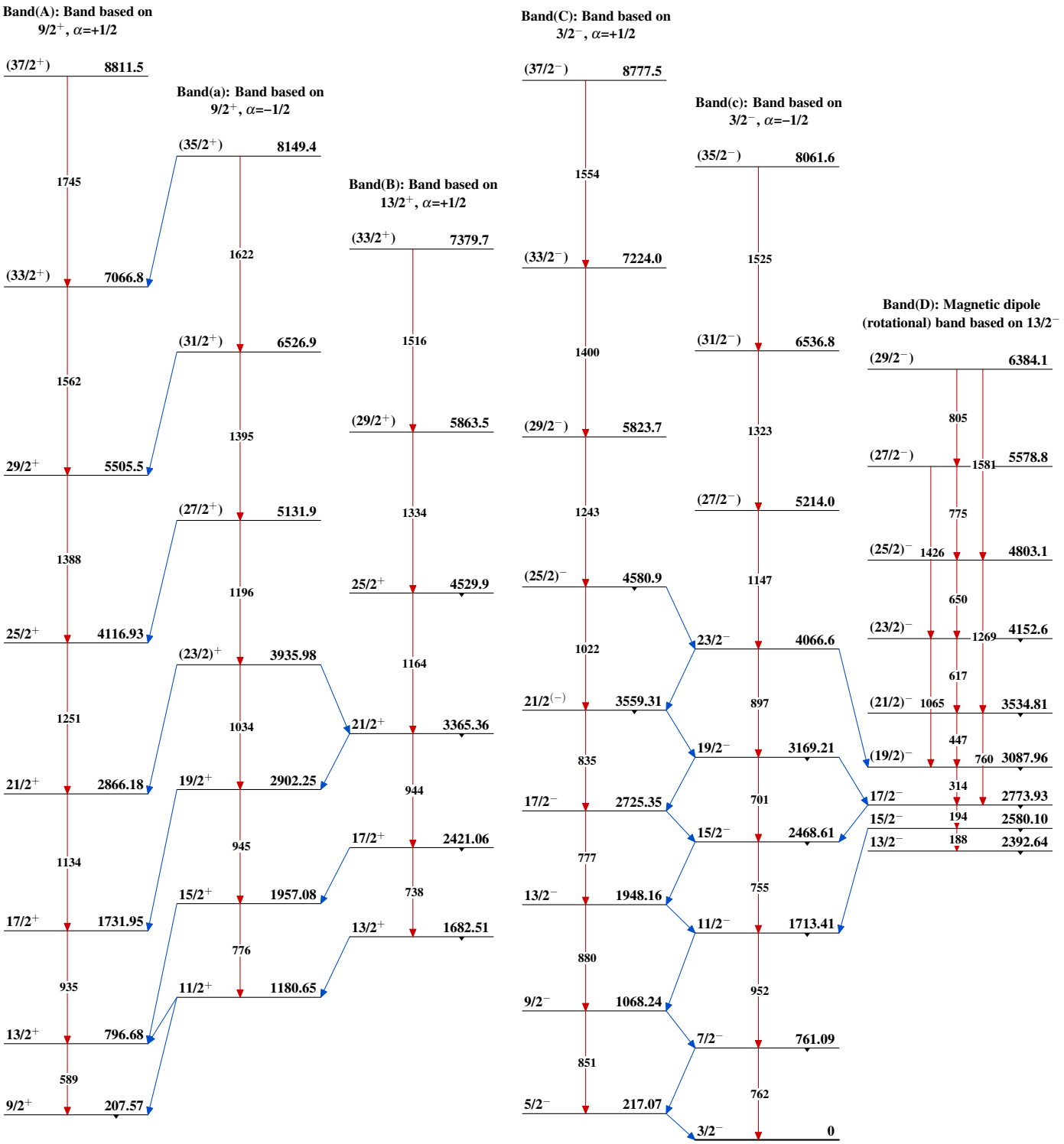
Level Scheme (continued)

Intensities: Relative I_γ



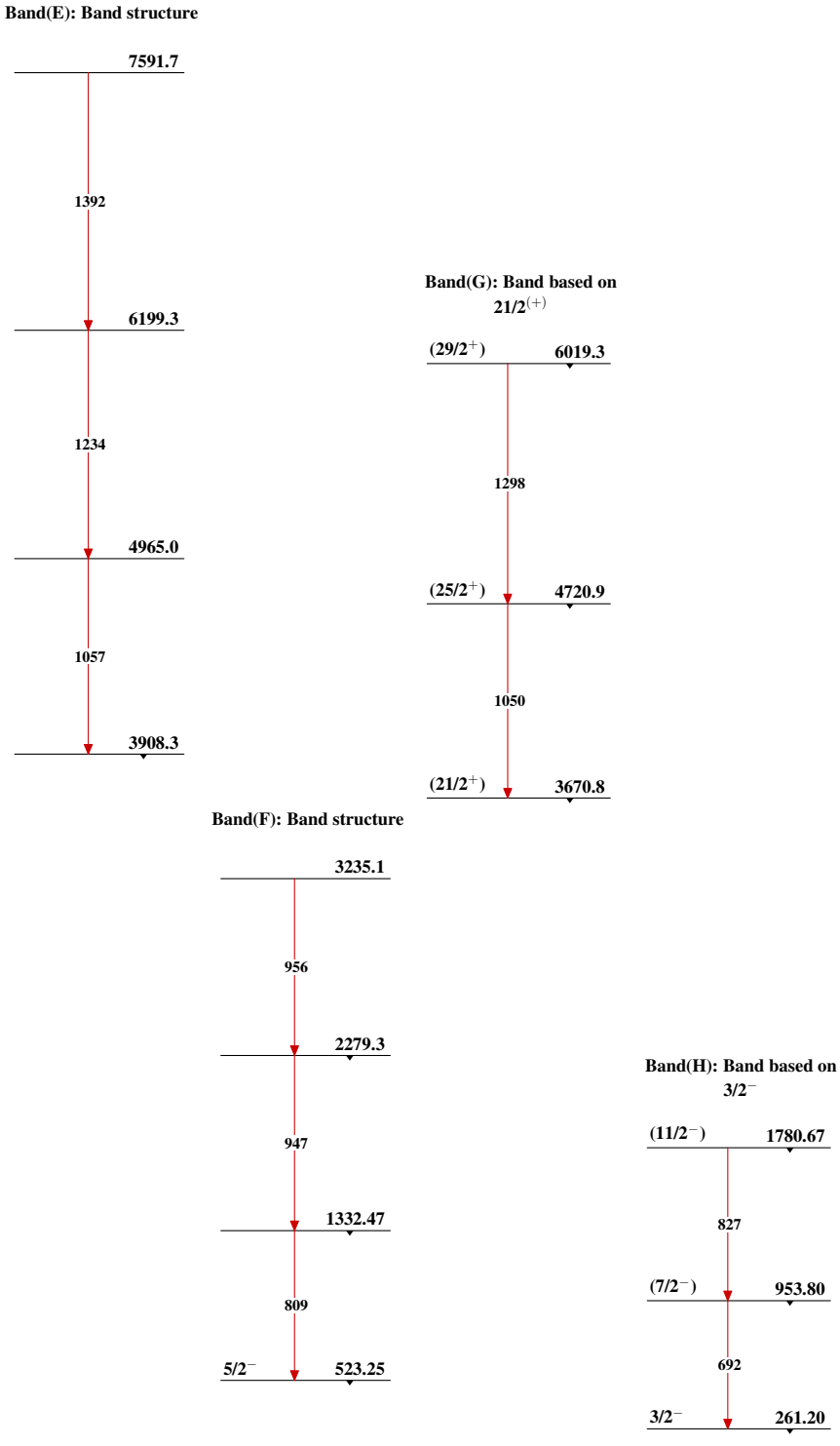
$^{79}_{35}Br_{44}$

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13



$^{79}_{35}Br_{44}$

^{76}Ge(^{7}Li,4nγ) E=35 MeV 2002Sc13 (continued)



$^{79}_{35}Br_{44}$