

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113,515 (2012)	1-Jan-2012

$Q(\beta^-) = -2.61 \times 10^3$ 4; $S(n) = 8.15 \times 10^3$ 3; $S(p) = 3456$ 22; $Q(\alpha) = -450$ 25 [2012Wa38](#)

Note: Current evaluation has used the following Q record $-2.61\text{E}+3$ 4 8.15×10^3 3 3455 22-449 25 [2011AuZZ](#).

The 90.0γ and the 45.6γ in (p,n γ) and ε decay are placed deexciting the 144.9-keV and 45.8-keV levels. This is different from IT decay ([1976Ka19](#)) where they are deexciting a 90-keV and a 136-keV level. It is possible that the 90-keV level from IT decay is different from that seen in ε decay and (p,n γ), in this case the 90γ could feed the 84-keV level and in turn be fed by the 321γ .

 ^{114}Sb LevelsCross Reference (XREF) Flags

A	^{114}Sb IT decay (219 μs)	E	$^{116}\text{Sn}(p,3n\gamma)$ E=21-52 MeV
B	^{114}Te ε decay	F	$^{111}\text{Cd}(^7\text{Li},4n\gamma)$ E=32-50 MeV
C	$^{114}\text{Sn}(p,n\gamma)$	G	$^{113}\text{In}(\alpha,3n\gamma)$ E=36-48 MeV
D	$^{115}\text{In}(^3\text{He},4n\gamma)$ E=72 MeV	H	(HI,xn γ)

E(level) [†]	J ^π #	T _{1/2}	XREF	Comments
0.0	3 ⁺	3.49 min 3	ABCDEF G	% ε +% β^+ =100 μ =+1.72 8 (1993Bo46 , 2005St24) T _{1/2} : weighted average of 3.3 min 5 (1959Se56), 3.5 min 5 (1960Ma20), 3.38 min 8 (1972Mi27), 3.52 min 8 (1972Si28), 3.51 min 4 (1976Wi10). J ^π : log ft<6 for ε + β^+ decay to 2 ⁺ and 4 ⁺ levels. μ : from 1992Zi05 (also 1993Bo46) and +1.74 12 (1992BaZU , 1993BaZJ). J ^π : M1,(E2) γ from 0 ⁺ and 2 ⁺ , $\gamma(\theta)$ in (p,n γ).
27.33 3	1 ⁺		BC	T _{1/2} : from ε decay (1996Zi01). J ^π : M1,E2 γ from 3 ⁺ , $\gamma(\theta)$ in (p,n γ).
45.86 2	(2 ⁺),4 ⁺	26 $\frac{1}{2}$ ns 3	BC	T _{1/2} : from ε decay (1996Zi01). J ^π : M1,(E2) γ from 2 ⁺ and 4 ⁺ , $\gamma(\theta)$ in (p,n γ).
54.64 3	3 ⁺	20.4 ns 9	BC	J ^π : decay to and from 4 ⁺ and decay from (6 ⁺).
83.48 3	(5)		C	J ^π : M1,(E2) γ from 1 ⁺ , 3 ⁺ .
83.84 3	2 ⁺	<2 $\frac{1}{2}$ ns	BC	J ^π : M1,(E2) γ from 1 ⁺ , 3 ⁺ , $\gamma(\theta)$ in (p,n γ).
144.95 2	2 ⁺	<1 $\frac{1}{2}$ ns	BC	J ^π : M2 γ from 8 ⁻ .
173.81 12	(6 ⁺)	<2 $\frac{1}{2}$ ns	A D G	J ^π : HFA gives 4, M1,(E2) γ to 3 ⁺ .
264.57 3	4 ⁺		BC	J ^π : M1,(E2) γ to 1,2 ⁺ , $\gamma(\theta)$ in (p,n γ).
272.00 3	1 ⁺	<1 $\frac{1}{2}$ ns	BC	J ^π : HFA gives 0,3, M1,(E2) γ to 3 ⁺ ,4 ⁺ .
344.48 2	3 ⁺	<1 $\frac{1}{2}$ ns	BC	J ^π : HFA gives 1,2, M1,(E2) γ to 2 ⁺ ,3 ⁺ , $\gamma(\theta)$ in (p,n γ).
492.00 2	2 ⁺		BC	%IT=100 μ =+2.265 5 (1976Ke07 , 1976Br40 , 2005St24) Q=0.66 11 (1982Ma29 , 2005St24) μ : from perturbed angular distributions. J ^π : from g factor. Syst of 8 ⁻ levels in Sb isotopes. T _{1/2} : from 1976Ka19 ; others: 275 μs 20 (1973Gi02), 210 μs 10 (1976Br40).
495.5+x ^b			H	
495.5+y ^c			H	
501.63 3	3 ⁻	<1 $\frac{1}{2}$ ns	C	J ^π : from E1 γ to 2 ⁺ ,3 ⁺ ,4 ⁺ .
506.88 3	(0 ⁺)		BC	J ^π : HFA gives 0,3; M1,(E2) γ to 1+? (3 ⁺) in ^{114}Te ε decay.
565.76 3	4 ⁺		C	J ^π : HFA gives 4; M1,E2 γ to 3 ⁺ .
572.65 4	(2,3)		BC	J ^π : HFA gives 0, 3; $\gamma(\theta)$ prefers 2.
641.50 6	5		C	J ^π : HFA gives 5.
664.80 4	4 ⁻	<1 $\frac{1}{2}$ ns	C	J ^π : HFA gives 4; M1,(E2) γ to 3 ⁻ , $\gamma(\theta)$ in (p,n γ).
664.85 3	3 ⁺		C	J ^π : HFA gives 0, 3; M1,E2 to 2 ⁺ , $\gamma(\theta)$ in (p,n γ).

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Adopted Levels, Gammas (continued) ^{114}Sb Levels (continued)

E(level) [†]	J ^π #	T _{1/2}	XREF	Comments
691.4 1	2 ⁺		BC	J ^π : HFA gives 1, 2; M1,E2 to 3 ⁺ .
756.21 12			B	
763.32 5	1 ⁺ ,2 ⁺		BC	J ^π : HFA gives 1, 2; M1,E2 to 1 ⁺ .
793.4 3	5,6 ⁺		C	J ^π : HFA gives 5,6; g to 4 ⁺ .
805.88 4	2 ⁺		BC	J ^π : HFA gives 1, 2; M1,E2 to 3 ⁺ , γ(θ) in (p,nγ).
809.21 7	3 ⁺		C	J ^π : HFA gives 0, 3; M1,E2 to 3 ⁺ .
869.85 6	0 ⁺		C	J ^π : HFA gives 0, 3; M1,E2 to 1 ⁺ .
871.91 5	1 ⁺		BC	J ^π : HFA gives 1, 2; log ft=5.06 from 0 ⁺ .
893.15 6	5 ⁻	<1 ⁺ ₂ ns	C	J ^π : HFA gives 5; M1,E2 to 4 ⁻ .
945.31 20	(3,4)		C	J ^π : HFA gives 3,4,5; γ to 2 ⁺ .
948.72 20	4,5,6 ⁺		C	J ^π : HFA gives 4,5,6, γ to 4 ⁺ .
988.7 8	(7 ⁻)		FG	J ^π : M1 γ to (8 ⁻), M1 γ from 8 ⁻ .
990.70 20	1,2		BC	J ^π : HFA gives 0,1,2,3; decay to 0 ⁺ .
1005.2 5			C	
1017.36 6	1,2		BC	J ^π : HFA gives 0,1,2,3; decay to 1 ⁺ .
1055+x ^b			H	
1080+y ^c			H	
1109.13 17	(2 ⁺)		B	J ^π : not fed from 0 ⁺ .
1184.4 5			B	
1244.6 8	(9 ⁻)		FG	J ^π : M1 γ to (8 ⁻), M1 γ from 10 ⁻ .
1471.77 6	(1 ⁺)		B	J ^π : log ft=5.8 from 0 ⁺ parent.
1562.3 @ 8	(8 ⁻)		FGH	J ^π : M1 γ's to 7 ⁻ and 8 ⁻ .
1666.5 3	10 ⁻		H	
1670.5 1	(1 ⁺)		B	J ^π : log ft=5.23 from 0 ⁺ .
1680.0 8	(10 ⁻)		FGH	J ^π : stretched E2 to 8 ⁻ .
1694+x ^b			H	
1757.51 5	(1 ⁺)		B	J ^π : log ft=5.0 from 0 ⁺ parent.
1769.6 & 8	(9 ⁻)		FGH	J ^π : M1 γ to 8 ⁻ , M1 γ from 10 ⁻ .
1771+y ^c			H	
1924.21 5	(1 ⁺)		B	J ^π : log ft=3.9 from 0 ⁺ parent.
1938.2 8	(11 ⁺)		FGH	J ^π : E1 γ to 10 ⁻ .
1971.2 5	(1 ⁺)		B	J ^π : fed from 0 ⁺ parent.
1985.94 8	(1 ⁺)		B	J ^π : log ft=4.6 from 0 ⁺ parent.
2072.5 ^d	(8 ⁻)		H	
2078.6 @ 8	(10 ⁻)		FGH	J ^π : M1 γ to 9 ⁻ .
2081.2 8	12		F H	J ^π : γ's to 11 ⁺ and 10 ⁻ .
2139.61 22	(1 ⁺)		B	J ^π : log ft=5.6 from 0 ⁺ parent.
2188.9 ^e 11	(9 ⁻)		H	
2261.8 8	(12 ⁺)		FG	J ^π : M1 γ to 11 ⁺ , M1 γ from (12,13) ⁺ .
2365.4 ^d 11	(10 ⁻)		H	
2374.4 8			FGH	
2421.6 & 8	(11 ⁻)		FGH	J ^π : M1 γ to 10 ⁻ , M1 γ from 42 ⁻ .
2435+x ^b			H	
2505.4 ^e 11	(11 ⁻)		H	
2538.5 8	(12 ⁺)		FGH	J ^π : M1 γ to 11 ⁺ , M1 γ from (12 ⁺ ,13 ⁺).
2554+y ^c			H	
2681.9 8	(12 ⁺ ,13 ⁺)		G	J ^π : M1 γ to 12 ⁺ .
2740.7 ^d 11	(12 ⁻)		H	
2794.1 @ 8	(12 ⁻)		FGH	J ^π : M1 γ to 11 ⁻ , γ from 13 ⁻ .
2933.4 ^e 11	(13 ⁻)		H	
3011.7 8	(12,13,14) ⁺		FGH	J ^π : M1,E2 γ to 12 ⁺ .
3099.9 13	(13 ⁺)		FGH	J ^π : E2 γ to 11 ⁺ , γ from 14 ⁻ .

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Adopted Levels, Gammas (continued) ^{114}Sb Levels (continued)

E(level) [†]	J ^π #	XREF	Comments
3185.2 ^{&} 8	(13 ⁻)	FGH	J ^π : M1 γ to 12 ⁻ , γ from 14 ⁻ .
3195.2 8		G	
3256+x ^b		H	
3256.3 ^d 11	(14 ⁻)	H	
3257.0	(12,13,14) ⁺	FG	J ^π : M1,E2 γ to 12 ⁺ .
3425+y ^c		H	
3533.8 ^e 11	(15 ⁻)	H	
3586.5 8		F H	
3588.5 13	(14 ⁻)	GH	J ^π : E1 γ to 13 ⁺ .
3614.8 [@] 8	(14 ⁻)	FGH	J ^π : E2 γ to 12 ⁻ .
3696.9 13	(15 ⁺)	FG	J ^π : E2 γ to 13 ⁺ .
3889.5 ^d 12	(16 ⁻)	H	
3949.9 13		G	
4080.2 8		G	
4085.3 ^{&} 5	(15 ⁻)	H	
4151.6 13	(16 ⁺)	FG	J ^π : M1 γ to 15 ⁺ .
4155+x ^b		H	
4266.3 ^e 12	(17 ⁻)	H	
4371+y ^c		H	
4591.9 [@] 5	(16 ⁻)	H	
4659.8 ^d 12	(18 ⁻)	H	
5107.1 ^{&} 5	(17 ⁻)	H	
5124+x ^b		H	
5130.0 ^e 12	(19 ⁻)	H	
5390+y ^c		H	
5548.7 ^d 12	(20 ⁻)	H	
5613.8 [@] 6	(18 ⁻)	H	
6118.7 ^e 12	(21 ⁻)	H	
6150.9 ^{&} 9	(19 ⁻)	H	
6171+x ^b		H	
6491+y ^c		H	
6550.0 ^d 12	(22 ⁻)	H	
7221.6 ^e 13	(23 ⁻)	H	
7307+x ^b		H	
7652.8 ^d 13	(24 ⁻)	H	
7680+y ^c		H	
8428.2 ^e 13	(25 ⁻)	H	
8526+x ^b		H	
8841.3 ^d 13	(26 ⁻)	H	
8957+y ^c		H	
9729.6 ^e 13	(27 ⁻)	H	
9806+x ^b		H	
10105.2 ^d 13	(28 ⁻)	H	
10316+y ^c		H	
11119.7 ^e 14	(29 ⁻)	H	
11150+x ^b		H	
11441.5 ^d 14	(30 ⁻)	H	

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Adopted Levels, Gammas (continued) ^{114}Sb Levels (continued)

E(level) [†]	XREF	E(level) [†]	J ^π [#]	XREF	E(level) [†]	J ^π [#]	XREF
11770+y ^c	H	12858.5 ^d 14	(32 ⁻)	H	14386.7 ^d 14	(34 ⁻)	H
12540+x ^b	H	13358+y ^c		H	16268+x ^a		H
12636+x ^a	H	14338+x ^a		H			

[†] From least-squares fit to E γ values.

[‡] From 1976Ka19 in (p,n γ).

[#] J^π without comments are based on band assignments and γ multiplicities. HFA refers to Hauser-Feshbach analysis.

@ Band(A): band 1.

& Band(B): band 2.

^a Band(C): band 3.

^b Band(D): band 4.

^c Band(E): band 5.

^d Band(F): band 6.

^e Band(G): band 7.

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sb})$

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. #	$\delta^\#$	$\alpha^@$	Comments
27.33	1 ⁺	27.33	100	0.0	3 ⁺				
45.86	(2 ⁺),4 ⁺	45.87 3	100	0.0	3 ⁺	M1,(E2)		17 11	
54.64	3 ⁺	54.65 3	100	0.0	3 ⁺	M1,(E2)		9 6	
83.48	(5)	37.4 4		45.86	(2 ⁺),4 ⁺				
83.84	2 ⁺	56.3 2	1.9 10	27.33	1 ⁺				
		83.83 2	100 4	0.0	3 ⁺	M1,E2		2.1 11	
144.95	2 ⁺	90.29 2	100 4	54.64	3 ⁺	M1,E2		1.6 8	
		144.99 3	2.13 11	0.0	3 ⁺				
173.81	(6 ⁺)	90 1	100	83.48	(5)				
264.57	4 ⁺	181.15 3	13.4 7	83.48	(5)				
		209.94 2	70 3	54.64	3 ⁺	M1,(E2)			
		218.8 3	1.6 3	45.86	(2 ⁺),4 ⁺				
		264.56 2	100 5	0.0	3 ⁺				
272.00	1 ⁺	188.18 2	100 2	83.84	2 ⁺	M1,(E2)			
		244.65 2	16.1 5	27.33	1 ⁺	M1,(E2)			
344.48	3 ⁺	79.94 2	22.7 7	264.57	4 ⁺				
		298.62 2	100 3	45.86	(2 ⁺),4 ⁺	M1,E2			
		344.49 2	27 6	0.0	3 ⁺	M1,E2			
492.00	2 ⁺	147.53 2	33.6 16	344.48	3 ⁺				
		347.12 6	100 3	144.95	2 ⁺	M1,E2			
		408.15 2	23.4 6	83.84	2 ⁺	M1,(E2)			
		437.39 3	42.5 13	54.64	3 ⁺	M1,E2			
495.5	(8 ⁻)	321.6	100	173.81	(6 ⁺)	M2+E3	≈-1		B(M2)(W.u.)=0; B(E3)(W.u.)=0.E+4 +4-0
501.63	3 ⁻	356.72 9	12.3 3	144.95	2 ⁺	E1			B(E1)(W.u.)>4.1×10 ⁻⁷
		455.79 2	100 3	45.86	(2 ⁺),4 ⁺	E1			B(E1)(W.u.)>1.6×10 ⁻⁶
		501.58 3	77 3	0.0	3 ⁺	E1			B(E1)(W.u.)>9.3×10 ⁻⁷
506.88	(0 ⁺)	234.93 3	15.1 7	272.00	1 ⁺				
		479.56 3	100 4	27.33	1 ⁺	M1,E2			
565.76	4 ⁺	565.76 3	100	0.0	3 ⁺	M1,E2			
572.65	(2,3)	301.0 3	5.5 8	272.00	1 ⁺				
		545.33 3	100 4	27.33	1 ⁺				
641.50	5	376.93 5	100	264.57	4 ⁺				
664.80	4 ⁻	163.24 3	100	501.63	3 ⁻	M1,(E2)			
664.85	3 ⁺	320.41 2	21.4 8	344.48	3 ⁺				
		519.89 3	100 7	144.95	2 ⁺	M1,(E2)			
		580.84 5	70 3	83.84	2 ⁺	(M1),E2			
691.4	2 ⁺	346.8 5	100 2	344.48	3 ⁺				
		419.35 3	15.1 4	272.00	1 ⁺	M1,(E2)			
		636.72 3	67 3	54.64	3 ⁺	M1,(E2)			
		664.26 4	69 3	27.33	1 ⁺				
756.21		264.28 15	88 4	492.00	2 ⁺				

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sb})$ (continued)							
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\dagger$	E_f	J_f^π	Mult.#	$\delta^\#$
756.21		483.9 3	73 4	272.00	1 ⁺		
		672.34 21	100 5	83.84	2 ⁺		
763.32	1 ⁺ ,2 ⁺	256.6 3	5.3 2	506.88	(0 ⁺)		
		618.9 5	6 3	144.95	2 ⁺		
		679.82 4	40.5 17	83.84	2 ⁺	M1,E2	
		736.00 9	100 4	27.33	1 ⁺	M1,(E2)	
805.88	2 ⁺	461.56 10	28.6 5	344.48	3 ⁺	M1,E2	
		534.03 14	20.1 7	272.00	1 ⁺		
		722.14 7	66 5	83.84	2 ⁺		
		751.4 3	20 3	54.64	3 ⁺		
		778.62 5	100 3	27.33	1 ⁺	M1,E2	
		806.2 3	10.8 5	0.0	3 ⁺		
809.21	3 ⁺	464.6 3	32.3 20	344.48	3 ⁺		
		544.3 5	71 3	264.57	4 ⁺		
		809.22 7	100 4	0.0	3 ⁺	M1,E2	
869.85	0 ⁺	597.98 12	100 15	272.00	1 ⁺	M1,E2	
		842.50 5	99 8	27.33	1 ⁺		
871.91	1 ⁺	379.93 6	29.9 8	492.00	2 ⁺		
		726.9 1	100 3	144.95	2 ⁺	M1,(E2)	
		844.4 5	28 7	27.33	1 ⁺		
893.15	5 ⁻	228.28 4	100	664.80	4 ⁻	M1,E2	
945.31	(3,4)	453.4 3	5.5 13	492.00	2 ⁺		
		600.7 5	25 10	344.48	3 ⁺		
		800.3 4	17 3	144.95	2 ⁺		
		861.4 5	100 4	83.84	2 ⁺		
948.72	4,5,6 ⁺	684.15 20	100	264.57	4 ⁺		
988.7	(7 ⁻)	494.1 2	100	495.5	(8 ⁻)	M1+(E2)	0.07 7
990.70	1,2	483.78 22	40.1 15	506.88	(0 ⁺)		
		718.8 9	100 66	272.00	1 ⁺		
		845.9 5	93 38	144.95	2 ⁺		
1005.2		860.2 5	100	144.95	2 ⁺		
1017.36	1,2	745.51 13	79 3	272.00	1 ⁺		
		933.74 18	100 5	83.84	2 ⁺		
		963.0 4	43 2	54.64	3 ⁺		
		990.0 3	51 3	27.33	1 ⁺		
		1017.3 3	57 3	0.0	3 ⁺		
1055+x		560.1 3	100	495.5+x			
1080+y		585.0 3	100	495.5+y			
1109.13	(2 ⁺)	352.1 11	12 2	756.21			
		602.2 4	29 2	506.88	(0 ⁺)		
		1024.7 7	27 2	83.84	2 ⁺		
		1054.56 18	100 5	54.64	3 ⁺		

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\dagger$	E_f	J_f^π	Mult.#	$\delta^\#$
1184.4		912.5 5	100	272.00	1 ⁺		
1244.6	(9 ⁻)	749.9 2	100	495.5	(8 ⁻)	M1+E2	-0.36 11
1471.77	(1 ⁺)	600.06 4	100 5	871.91	1 ⁺		
		666.07 10	45 2	805.88	2 ⁺		
		899.4 3	17 2	572.65	(2,3)		
		980.05 19	43 2	492.00	2 ⁺		
		1199.94 10	58 3	272.00	1 ⁺		
		1444.5 4	12 1	27.33	1 ⁺		
1562.3	(8 ⁻)	573.5 2	100 5	988.7	(7 ⁻)	M1,E2	
		1067.5 2	40.9 45	495.5	(8 ⁻)	M1,E2	
1666.5	10 ⁻	421		1244.6	(9 ⁻)		
		1171		495.5+x			
1670.5	(1 ⁺)	653.1 3	50 4	1017.36	1,2		
		864.5 3	6 2	805.88	2 ⁺		
		1097.9 4	37 2	572.65	(2,3)		
		1398.6 2	100 5	272.00	1 ⁺		
1680.0	(10 ⁻)	435.3 2	7 1	1244.6	(9 ⁻)	M1+(E2)	<0.10
		1185.3 2	100 10	495.5	(8 ⁻)	E2	
1694+x		639.9 3	100	1055+x		Q	
1757.51	(1 ⁺)	994.2 4	37 2	763.32	1 ⁺ ,2 ⁺		
		1184.85 14	100 5	572.65	(2,3)		
		1485.40 19	49 3	272.00	1 ⁺		
		1612.60 2	61 3	144.95	2 ⁺		
		1673.57 13	97 5	83.84	2 ⁺		
1769.6	(9 ⁻)	207.6 2	100 25	1562.3	(8 ⁻)	M1,E2	
		1275.1 2	88 8	495.5	(8 ⁻)	M1+E2	-0.30 13
1771+y		691.2 3	100	1080+y		Q	
1924.21	(1 ⁺)	452.3 3	2.8 2	1471.77	(1 ⁺)		
		906.87 6	19 1	1017.36	1,2		
		1118.49 24	6 1	805.88	2 ⁺		
		1160.78 12	14 4	763.32	1 ⁺ ,2 ⁺		
		1351.73 13	9.2 4	572.65	(2,3)		
		1417.41 4	77 3	506.88	(0 ⁺)		
		1432.27 11	11 1	492.00	2 ⁺		
		1652.21 5	32 2	272.00	1 ⁺		
		1779.02 21	4.4 4	144.95	2 ⁺		
		1840.8 3	32.8 10	83.84	2 ⁺		
		1896.77 4	100 5	27.33	1 ⁺		
1938.2	(11 ⁺)	258.3 2	100	1680.0	(10 ⁻)	E1	
1971.2	(1 ⁺)	1626.8 4	100	344.48	3 ⁺		
1985.94	(1 ⁺)	968.4 5	21 2	1017.36	1,2		
		1494.10 9	59 3	492.00	2 ⁺		

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sb})$ (continued)							
$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [#]	$\delta^\#$
1985.94	(1 ⁺)	1902.03 11	100 5	83.84	2 ⁺		
		1958.42 18	27 2	27.33	1 ⁺		
2072.5	(8 ⁻)	1577		495.5	(8 ⁻)		
2078.6	(10 ⁻)	309.2 2	100 5	1769.6	(9 ⁻)	M1+(E2)	+0.03 5
		515.7 2	14.4 4	1562.3	(8 ⁻)		
2081.2	12	143.1 2	100 23	1938.2	(11 ⁺)		
		401.3 2	92.3 15	1680.0	(10 ⁻)		
2139.61	(1 ⁺)	1376.2 3	99 6	763.32	1 ⁺ ,2 ⁺		
		1867.6 3	100 6	272.00	1 ⁺		
2188.9	(9 ⁻)	116.4 3	100 10	2072.5	(8 ⁻)	D	
		1693 1	10 3	495.5	(8 ⁻)		
2261.8	(12 ⁺)	323.0 2	100	1938.2	(11 ⁺)	(M1+E2)	
2365.4	(10 ⁻)	176.5 3	100	2188.9	(9 ⁻)	D	
		1869.9 3	60	495.5	(8 ⁻)		
2374.4		696		1680.0	(10 ⁻)		
		1129.8 2	100	1244.6	(9 ⁻)		
2421.6	(11 ⁻)	343.2 2	100 5	2078.6	(10 ⁻)	M1+(E2)	<0.07
		652.4 2	16 2	1769.6	(9 ⁻)		
2435+x		740.0 3	100	1694+x			
2505.4	(11 ⁻)	139.9 3	100 5	2365.4	(10 ⁻)	D	
		316.5 3	10 1	2188.9	(9 ⁻)	Q	
		423		2081.2	12		
		839.2 3	7 1	1666.5	10 ⁻	D	
2538.5	(12 ⁺)	600.3 2	100	1938.2	(11 ⁺)	M1+E2	-1.8 8
2554+y		782.7 3	100	1771+y		Q	
2681.9	(12 ⁺ ,13 ⁺)	143.4 2	100	2538.5	(12 ⁺)	M1,E2	
2740.7	(12 ⁻)	235.2 3	100 5	2505.4	(11 ⁻)	D	
		375.3 3	98 5	2365.4	(10 ⁻)	Q	
		658 1	2	2081.2	12		
		802 1	2	1938.2	(11 ⁺)		
2794.1	(12 ⁻)	372.5 2	100 18	2421.6	(11 ⁻)	M1+(E2)	<0.10
		715.0 2	36.3 9	2078.6	(10 ⁻)		
2933.4	(13 ⁻)	192.5 3	100 5	2740.7	(12 ⁻)	D	
		428.1 3	37 2	2505.4	(11 ⁻)	Q	
		850.4 3	7 1	2081.2	12	D	
3011.7	(12,13,14) ⁺	750.4 2	35 3	2261.8	(12 ⁺)	M1,E2	
		1073.1 2	100 5	1938.2	(11 ⁺)		
3099.9	(13 ⁺)	1161.7	100	1938.2	(11 ⁺)		
3185.2	(13 ⁻)	391.2 2	100 8	2794.1	(12 ⁻)	M1+E2	+0.07 5
		764.0 2	30.7 8	2421.6	(11 ⁻)		
3195.2		401.1 2	100	2794.1	(12 ⁻)		
3256+x		821.1 3	100	2435+x		Q	

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [#]	$\delta^\#$
3256.3	(14 ⁻)	322.6 3	57 3	2933.4	(13 ⁻)	D	
		515.7 3	100 5	2740.7	(12 ⁻)	Q	
3257.0	(12,13,14) ⁺	993.7 2	100	2261.8	(12 ⁺)	M1+(E2)	-0.52 15
3425+y		871.6 3	100	2554+y			
3533.8	(15 ⁻)	277.3 3	100 5	3256.3	(14 ⁻)	D	
		600.7 3	82 4	2933.4	(13 ⁻)	Q	
3586.5		401.3 2	100	3185.2	(13 ⁻)		
3588.5	(14 ⁻)	488.6 2	100	3099.9	(13 ⁺)	E1	
3614.8	(14 ⁻)	428.0 2	100 17	3185.2	(13 ⁻)	M1+E2	+0.30 7
		818.4 2	100 17	2794.1	(12 ⁻)		
3696.9	(15 ⁺)	597.0 2	100	3099.9	(13 ⁺)	E2	
3889.5	(16 ⁻)	355.6 3	71 4	3533.8	(15 ⁻)	D	
		633.1 3	100 5	3256.3	(14 ⁻)	Q	
3949.9		253.0 2	100	3696.9	(15 ⁺)		
4080.2		467.3 2	100	3614.8	(14 ⁻)		
4085.3	(15 ⁻)	470.1 3	100 5	3614.8	(14 ⁻)	D	
		897.8 3	65 3	3185.2	(13 ⁻)	Q	
4151.6	(16 ⁺)	454.6 2	100	3696.9	(15 ⁺)		
4155+x		899.2 3	100	3256+x		Q	
4266.3	(17 ⁻)	376.7 3	61 3	3889.5	(16 ⁻)	D	
		732.6 3	100 5	3533.8	(15 ⁻)	Q	
4371+y		945.9 3	100	3425+y		Q	
4591.9	(16 ⁻)	506.9 3	100 5	4085.3	(15 ⁻)	D	
		976.2 3	53 3	3614.8	(14 ⁻)	Q	
4659.8	(18 ⁻)	393.3 3	71 3	4266.3	(17 ⁻)	D	
		770.4 3	100 5	3889.5	(16 ⁻)	Q	
5107.1	(17 ⁻)	515.6 3	69 3	4591.9	(16 ⁻)	D	
		1021.6 3	100 5	4085.3	(15 ⁻)	Q	
5124+x		969.2 3	100	4155+x		Q	
5130.0	(19 ⁻)	470 1	<4	4659.8	(18 ⁻)	D	
		863.7 3	100 5	4266.3	(17 ⁻)	Q	
5390+y		1018.8 3	100	4371+y		Q	
5548.7	(20 ⁻)	419 1	<4	5130.0	(19 ⁻)	D	
		888.9 3	100 5	4659.8	(18 ⁻)	Q	
5613.8	(18 ⁻)	506.9 3	100 5	5107.1	(17 ⁻)	D	
		1021.6 3	67 3	4591.9	(16 ⁻)	Q	
6118.7	(21 ⁻)	570 1	<4	5548.7	(20 ⁻)	D	
		988.7 3	100 5	5130.0	(19 ⁻)	Q	
6150.9	(19 ⁻)	537 1	100 5	5613.8	(18 ⁻)	D	
		1044 1	55 3	5107.1	(17 ⁻)	Q	
6171+x		1046.8 3	100	5124+x		Q	
6491+y		1101.2 3	100	5390+y			

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [#]	$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [#]
6550.0	(22 ⁻)	431 1	<4	6118.7	(21 ⁻)	D	10316+y		1358.8 3	100	8957+y		
		1001.3 3	100 5	5548.7	(20 ⁻)	Q	11119.7	(29 ⁻)	1390.1 3	100	9729.6	(27 ⁻)	Q
7221.6	(23 ⁻)	1102.9 3	100	6118.7	(21 ⁻)	Q	11150+x		1343.9 3	100	9806+x		
7307+x		1135.4 3	100	6171+x		Q	11441.5	(30 ⁻)	1336.2 3	100	10105.2	(28 ⁻)	Q
7652.8	(24 ⁻)	1102.8 3	100	6550.0	(22 ⁻)	Q	11770+y		1454.1 3	100	10316+y		
7680+y		1189.3 3	100	6491+y			12540+x		1390 1	100	11150+x		
8428.2	(25 ⁻)	1206.6 3	100	7221.6	(23 ⁻)	Q	12636+x		1485.3 3	100	11150+x		
8526+x		1219.5 3	100	7307+x			12858.5	(32 ⁻)	1417.0 3	100	11441.5	(30 ⁻)	Q
8841.3	(26 ⁻)	1188.5 3	100	7652.8	(24 ⁻)	Q	13358+y		1587.9 3	100	11770+y		
8957+y		1276.4 3	100	7680+y			14338+x		1702.0 3	100	12636+x		
9729.6	(27 ⁻)	1301.4 3	100	8428.2	(25 ⁻)	Q	14386.7	(34 ⁻)	1528.2 3	100	12858.5	(32 ⁻)	Q
9806+x		1280.3 3	100	8526+x			16268+x		1930 1	100	14338+x		
10105.2	(28 ⁻)	1263.9 3	100	8841.3	(26 ⁻)	Q							

[†] Relative photon branching from each level.

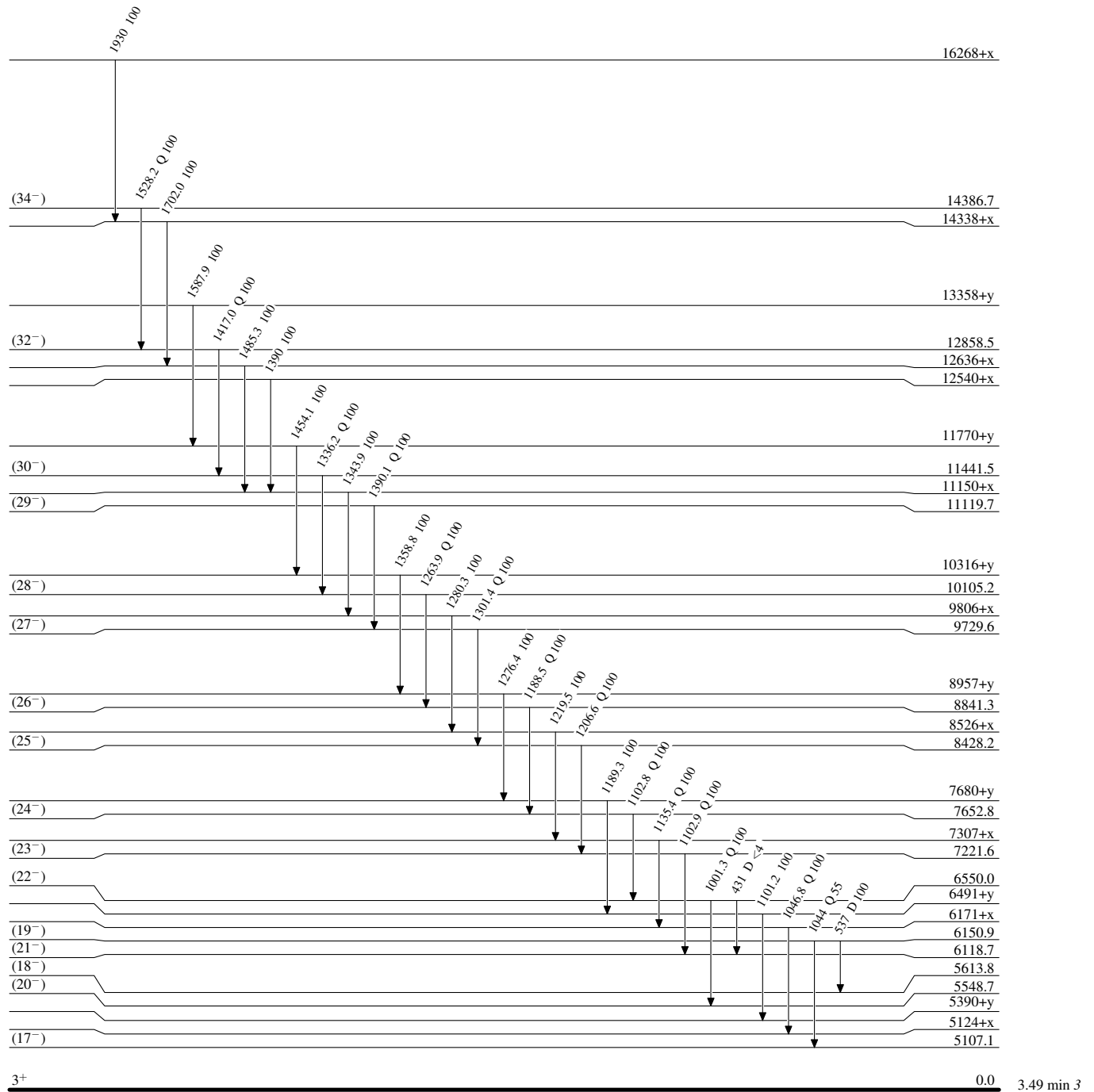
[‡] Average of all values. Below 1 MeV, they are from (p,n γ).

[#] From ce in (α ,3n γ), (p,n γ) and linear polarization in (^7Li ,4n) and DCO in (HI,xn γ).

[@] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

Adopted Levels, GammasLevel Scheme

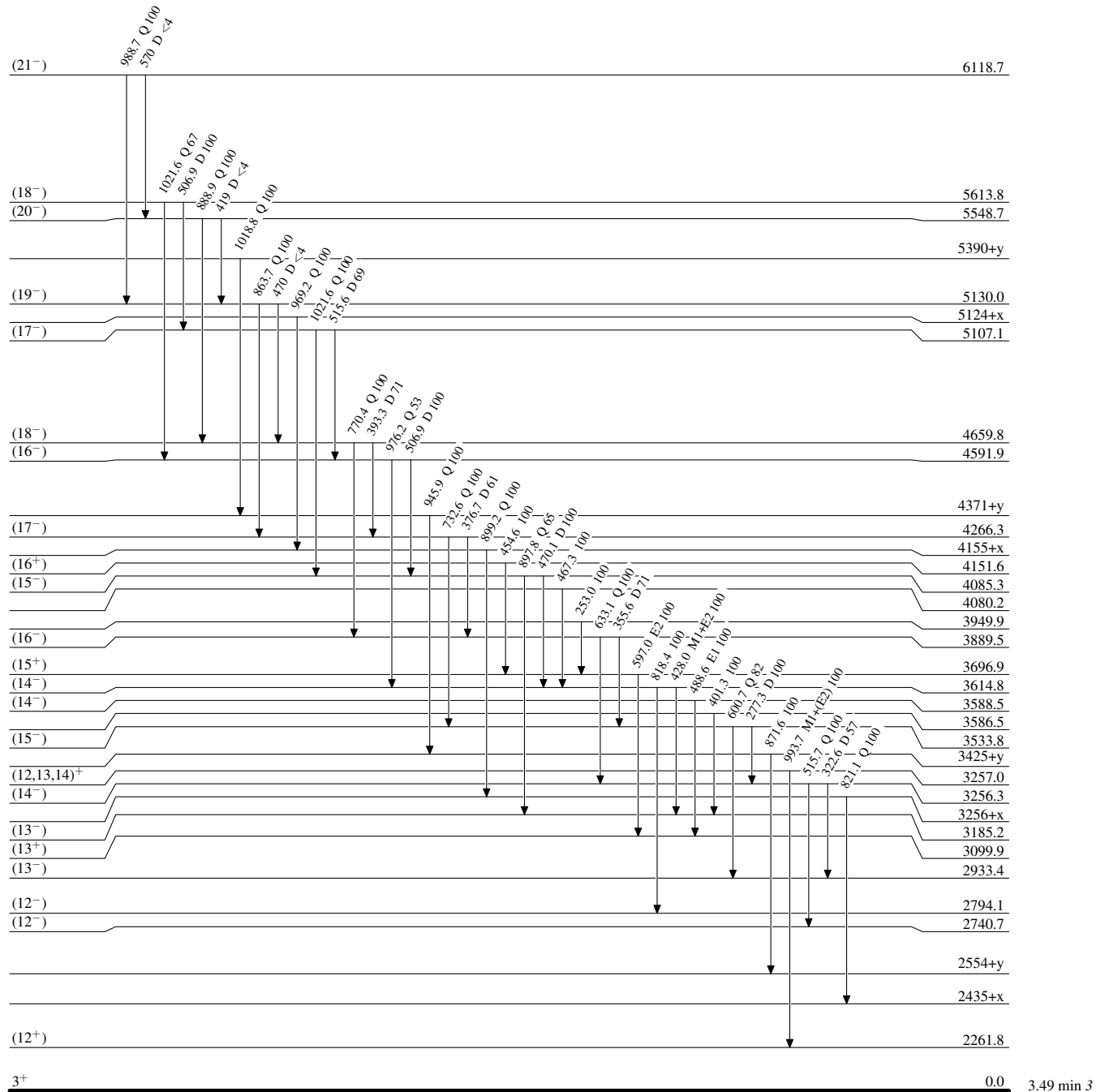
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

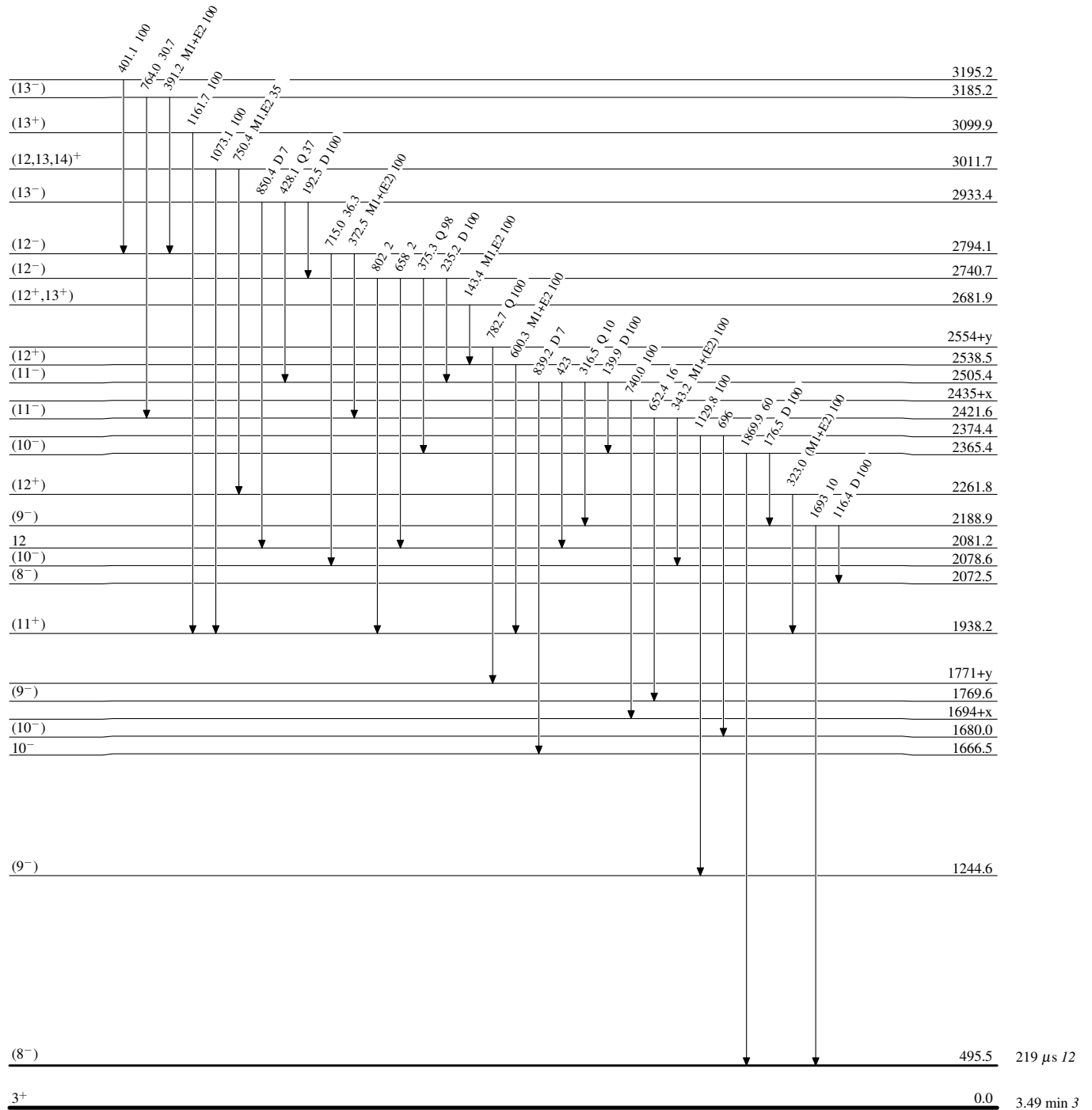
Level Scheme (continued)

Intensities: Relative photon branching from each level



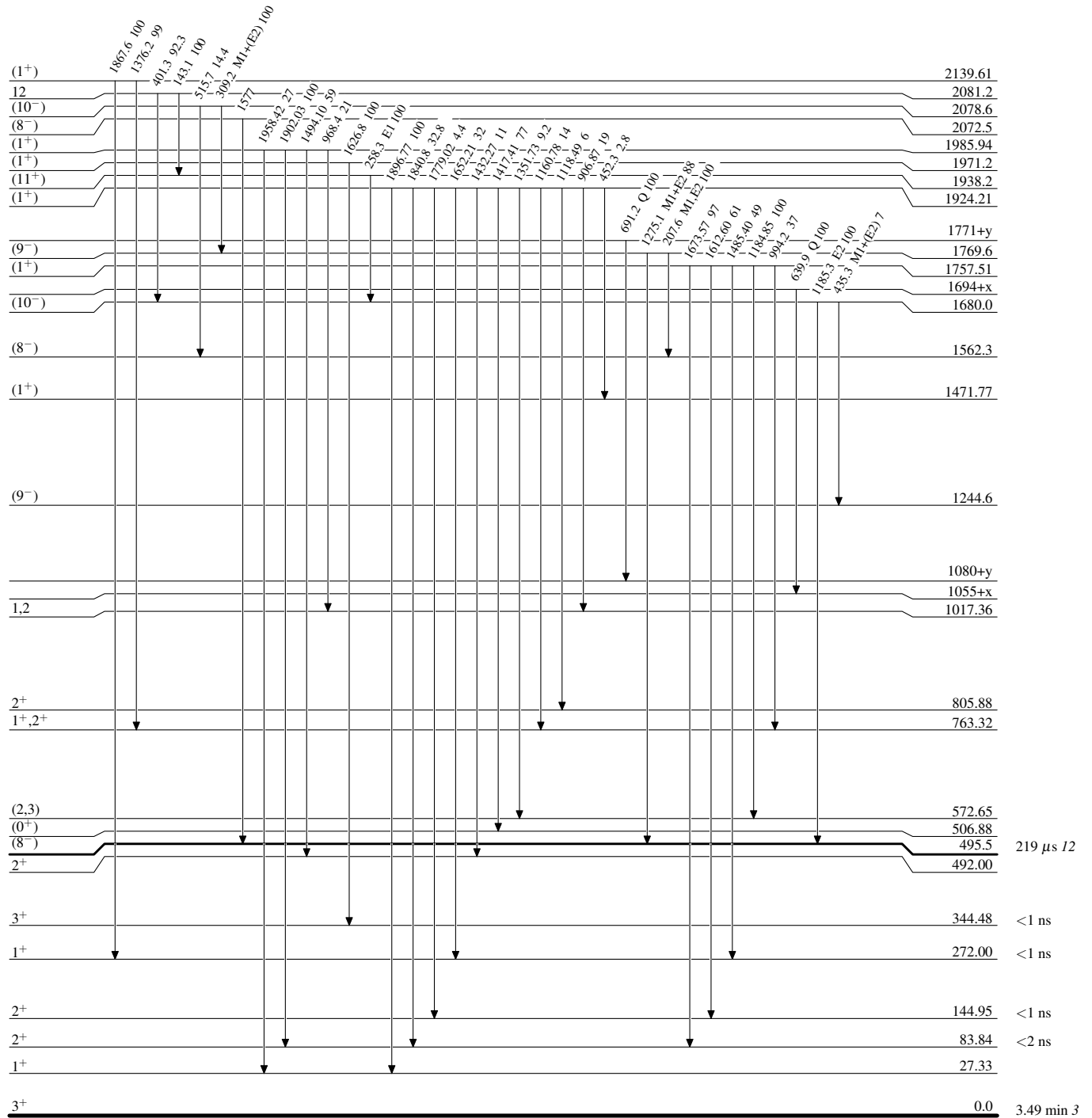
Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



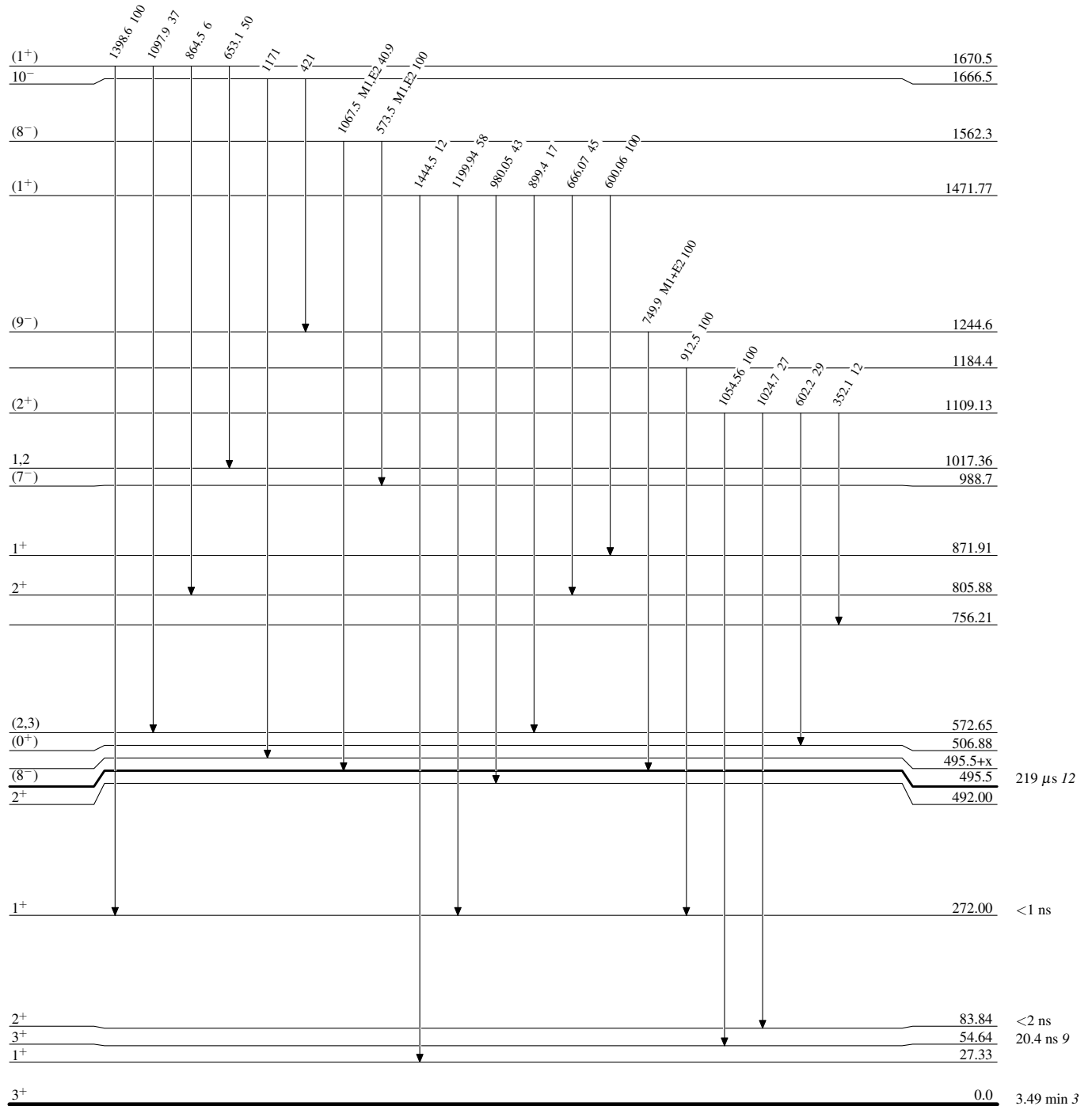
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



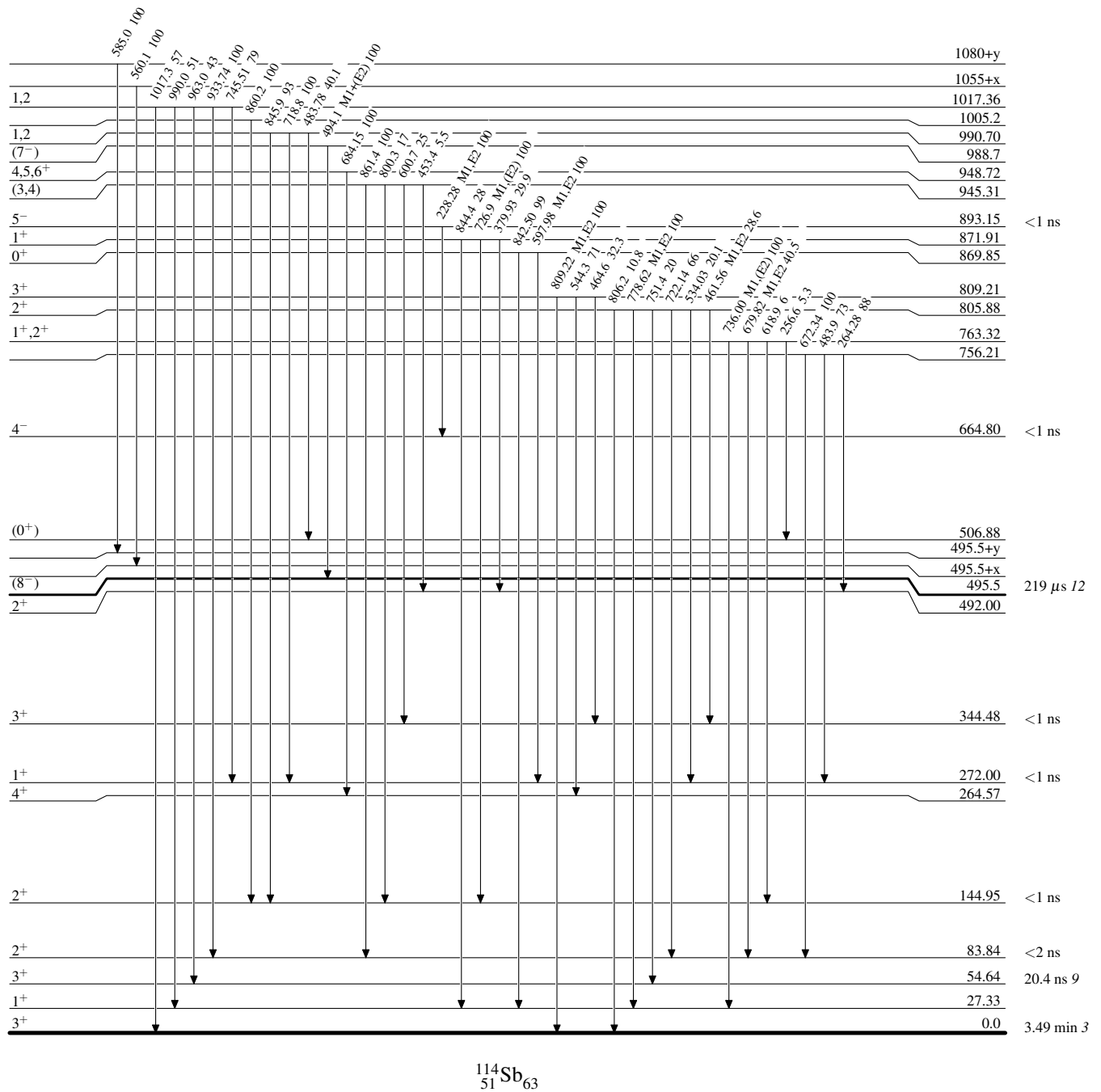
Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, GammasLevel Scheme (continued)

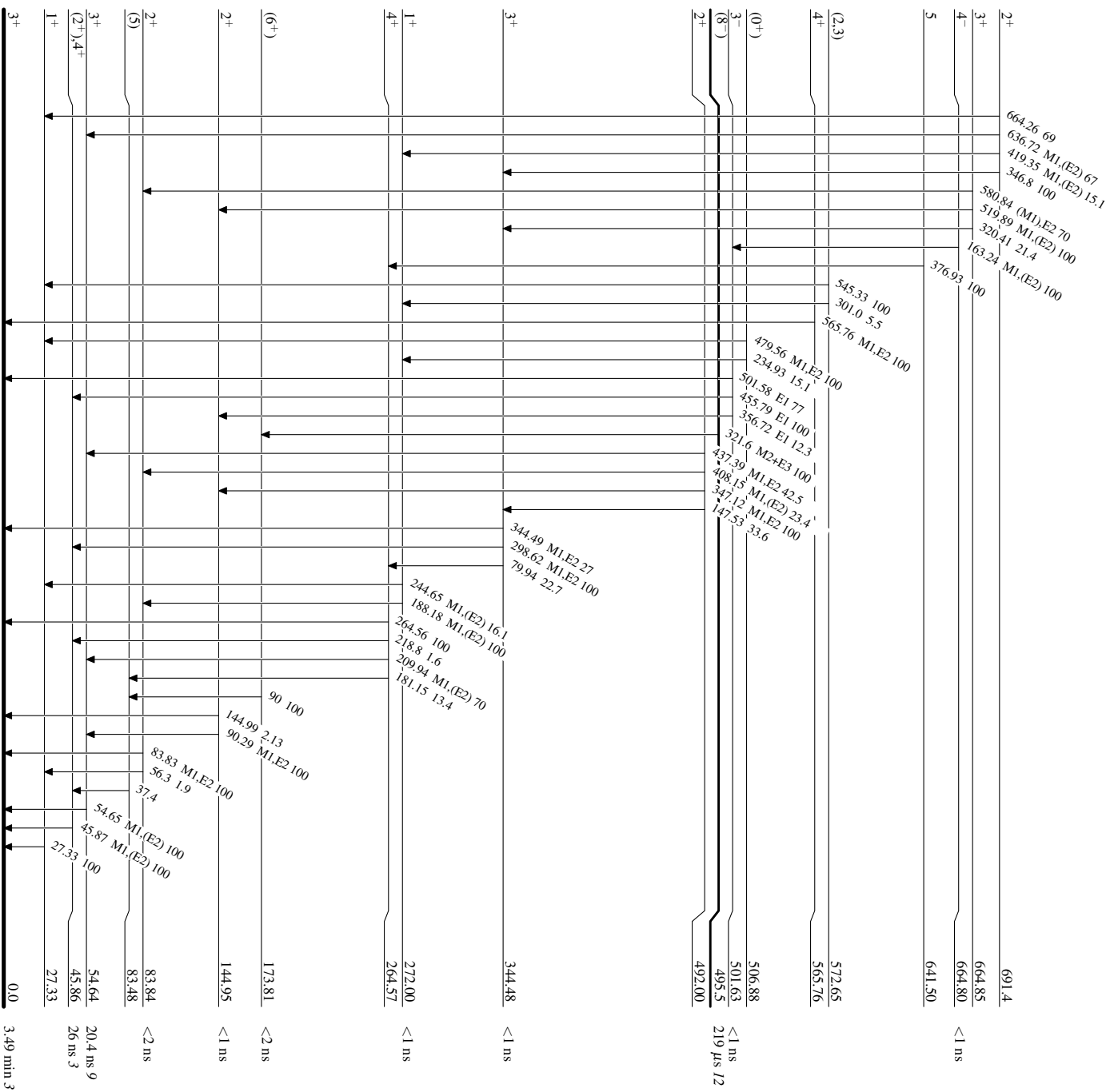
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

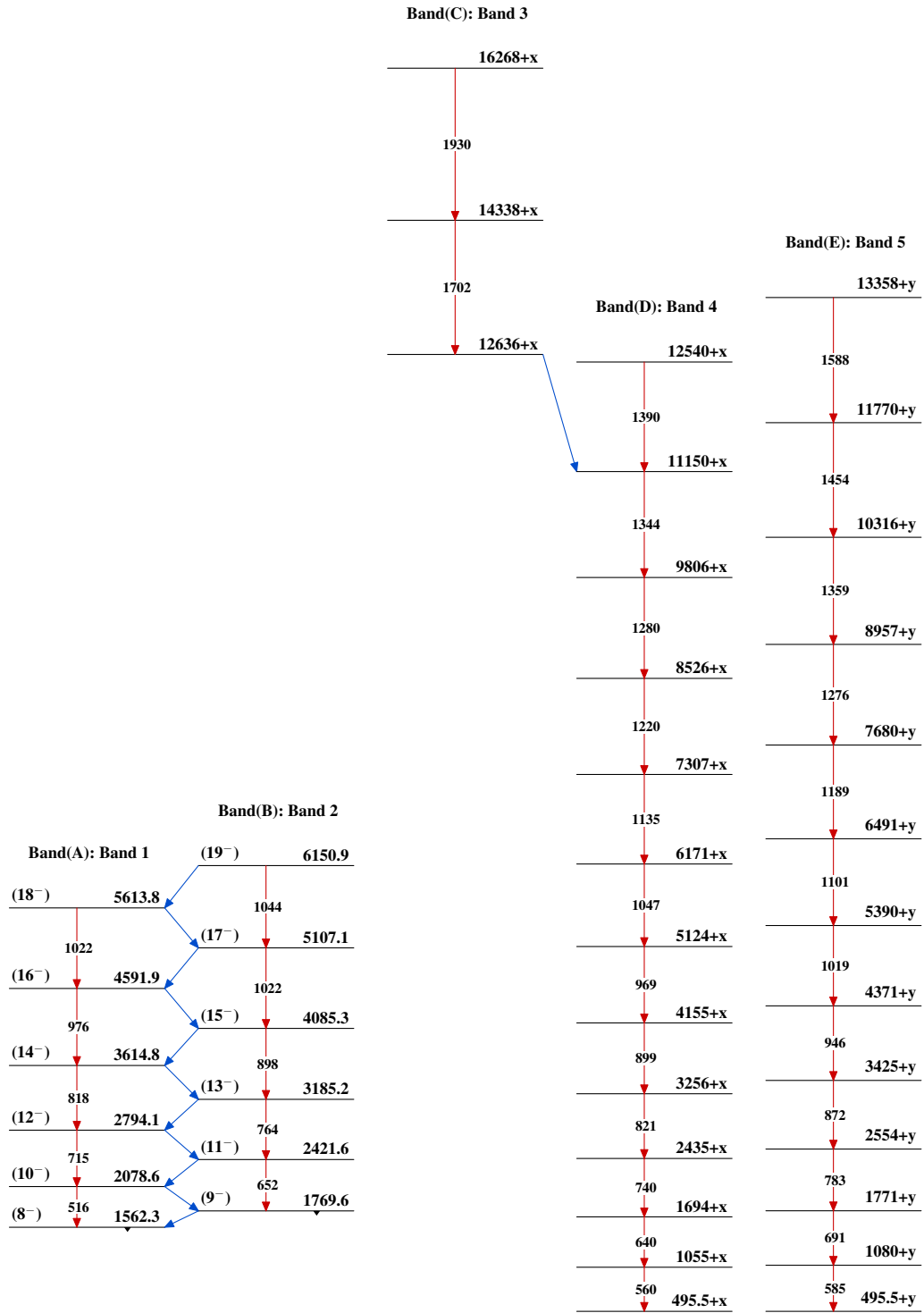
Level Scheme (continued)

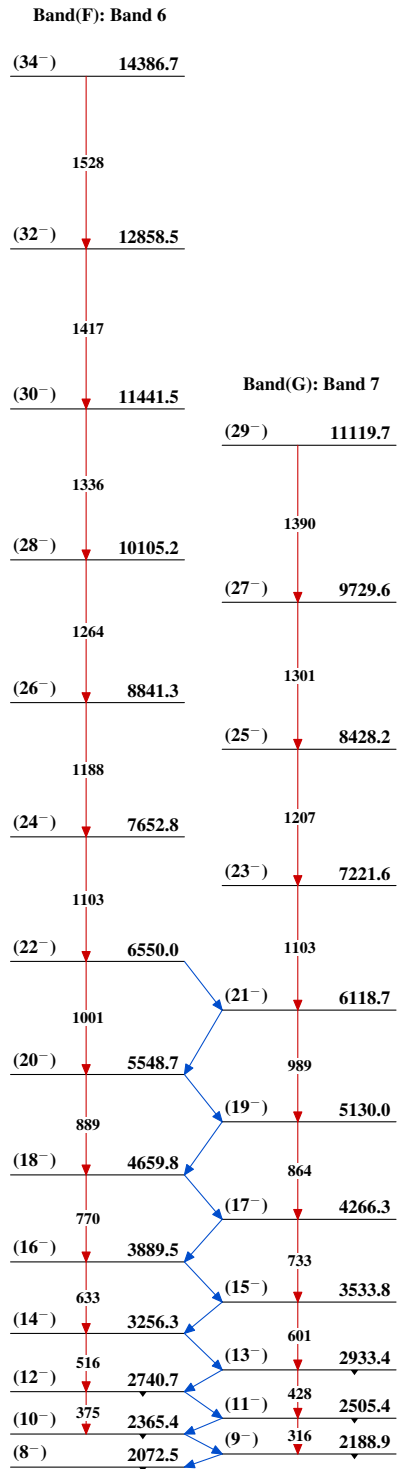
Intensities: Relative photon branching from each level



$^{114}\text{Sb}_{63}$

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Adopted Levels, Gammas

Adopted Levels, Gammas (continued) $^{114}_{51}\text{Sb}_{63}$