

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109,1655 (2008)	1-Apr-2008

$Q(\beta^-)=2904.3$ 16; $S(n)=6467.50$ 6; $S(p)=7094$ 3; $Q(\alpha)=-4.32\times 10^3$ 4 [2012Wa38](#)

Note: Current evaluation has used the following Q record 2904.3 156467.50 6 7088.8 29-4310 40 [2003Au03](#).

 ^{124}Sb LevelsCross Reference (XREF) Flags

A	^{124}Sb IT decay (93 s)	E	$^{123}\text{Sb}(n,\gamma)$ E=50.5 eV	I	$^{123}\text{Sb}(d,p)$
B	^{124}Sb IT decay (20.2 min)	F	$^{123}\text{Sb}(n,\gamma)$ E=76.7 eV	J	$^{124}\text{Sn}(^3\text{He},t)$
C	$^{123}\text{Sb}(n,\gamma)$ E=th	G	$^{123}\text{Sb}(n,\gamma)$ E=105.0 eV		
D	$^{123}\text{Sb}(n,\gamma)$ E=21.4 eV	H	$^{124}\text{Sn}(p,n\gamma)$		

E(level) [‡]	J ^π	T _{1/2} [†]	XREF	Comments
0.0	3 ⁻	60.20 d 3	ABCDEFGHI	$\% \beta^- = 100$ $\mu = 1.20$ 2; $Q = +1.87$ 38 XREF: i(15). T _{1/2} : from calorimetry of ^{124}Sb source using ^{123}Sb enriched target (1966F101); others: 60.11 d 7 (2000Kh04), 60.4 d 2 (1957Ma50), 59.9 d 5 (1958Jo01), 60.1 d 3 (1959Ca12), 60.3 d 2 (1968Re04). J ^π : atomic beam (1976Fu06); β^- to 2 ⁺ , 602.7-keV level in ^{124}Te indicates 1-yes shape. Expected 3 ⁻ member of multiplet with configuration=((π g _{7/2})(ν h _{11/2})). μ : From radiative detection of nuclear magnetic resonance, value is referenced to ^{122}Sb and recalculated (1974Ca06,1989Ra17). See also 2005St24 compilation. Q: from static nuclear orientation, value is referenced to ^{121}Sb and Sternheimer correction included (1985He16,1989Ra17). See also 2005St24 compilation.
10.8627 8	5 ⁺	93 s 5	ABCD Hi	$\% \text{IT} = 75$ 5; $\% \beta^- = 25$ 5 XREF: i(15). T _{1/2} : from $\gamma(t)$ (1962Va18); others: 78 s (1947De06), 96 s 12 (1963Br18). J ^π : log $f_t = 4.4$ to ^{124}Te 6 ⁺ ; strong primary γ from 4 ⁺ resonance. Expected 5 ⁺ member of multiplet with configuration=((π g _{7/2})(ν d _{3/2})).
36.8440 14	(8) ⁻	20.2 min 2	BC	$\% \text{IT} = 100$ T _{1/2} : from $\gamma(t)$ (1967Ha27); others: 21 min (1947De06), 21 min 1 (1962Va18). J ^π : E3 γ to 5 ⁺ , no γ to 3 ⁻ ; Expected 8 ⁻ member of multiplet with configuration=((π g _{7/2})(ν h _{11/2})).
40.8038 7	3 ⁺ , 4 ⁺	3.2 μ s 3	CD H	$\mu = +2.970$ 33 μ : For J=3. From differential perturbed angular distribution of γ rays following nuclear reactions (1981Io04,1989Ra17). See also 2005St24 compilation. J ^π : E2 γ to 5 ⁺ , E1 γ to 3 ⁻ ; Expected 3 ⁺ member of multiplet with configuration=((π g _{7/2})(ν d _{3/2})).
80.7638 8	3 ⁺ , 4 ⁺	4 ns 1	C E HI	J ^π : M1 γ to 3 ⁺ , 4 ⁺ ; γ to 3 ⁻ ; L=0+2 in (d,p); Expected 3 ⁺ member of multiplet with configuration=((π g _{7/2})(ν s _{1/2})).
87.6016 4	(4) ⁻		CD H	J ^π : see for comment to 125.2-keV level; Expected 4 ⁻ member of multiplet with configuration=((π g _{7/2})(ν h _{11/2})).
103.6514 6	2 ⁻ , 3 ⁻ , 4 ⁻		C E GH	J ^π : M1 γ to 3 ⁻ ; Expected 2 ⁻ member of multiplet with configuration=((π g _{7/2})(ν h _{11/2})).
125.2291 13	(6) ⁻	86 ns 2	C Hi	$\mu = +0.384$ 12 XREF: i(126).

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Adopted Levels, Gammas (continued)

^{124}Sb Levels (continued)				
E(level) [‡]	J^π	$T_{1/2}$ [†]	XREF	Comments
μ : From differential perturbed angular distribution of γ rays following nuclear reactions (1981Io04,1989Ra17). See also 2005St24 compilation. J^π : E2-M1 cascade via 87.6-keV level ($J^\pi=4^-$) to g.s. ($J^\pi=3^-$), and E2 γ to $(8)^-$; Expected 6^- member of multiplet with configuration= $((\pi g_{7/2})(\nu h_{11/2}))$. XREF: i(126). J^π : strong γ from 4^+ resonances; M1 γ to 4^- ; Expected 5^- member of multiplet with configuration= $((\pi g_{7/2})(\nu h_{11/2}))$.				
131.6928 8	$3^-, 4^-, 5^-$		CD F Hi	
150 30	$(1^+)^\#$			J
180.0509 16	$(7,8)^-$		C H	J^π : M1 γ to $(8)^-$, γ to 6^- ; Expected 7^- member of multiplet with configuration= $((\pi g_{7/2})(\nu h_{11/2}))$. XREF: i(205).
195.9822 11	$4^+, 5^+$		C E Hi	J^π : M1 γ to $3^+, 4^+$; M1+E2 γ to 5^+ ; Expected 4^+ member of multiplet with configuration= $((\pi g_{7/2})(\nu d_{3/2}))$. XREF: i(205).
214.6032 9	$3^+, 4^+, 5^+$		CDEF Hi	J^π : M1 γ to $3^+, 4^+$; γ to 5^+ ; L=0+2 in (d,p); Expected 4^+ member of multiplet with configuration= $((\pi g_{7/2})(\nu s_{1/2}))$.
221.5 20			D	
231.5 20			D	
248.3692 12	$+$	0.38 ns 7	C H	J^π : M1 γ to $2^+, 3^+, 4^+$; Expected 2^+ member of multiplet with configuration= $((\pi g_{7/2})(\nu d_{3/2}))$.
287.1286 17	$3^+, 4^+$		CDEF Hi	J^π : M1 γ to $3^+, 4^+$; γ to 5^+ ; L=0+2 in (d,p); Expected 4^+ member of multiplet with configuration= $((\pi g_{7/2})(\nu d_{3/2}))$.
368.333 8			C	
371.823 3	$6^-, 7^-, 8^-$		C H	J^π : M1,E2 γ to $(8)^-$; γ to 6^- . XREF: i(389).
384.5336 25	$4^-, 5^-$		C EFGHi	J^π : M1,E2 γ to 3^- ; M1+E2 γ to $(5)^-$. XREF: i(389).
386.2882 12	$2^+, 3^+, 4^+$		C EF Hi	J^π : M1 γ to $+$; γ to 3^- . XREF: i(389).
402.8775 16	$3^+, 4^+$		CD Hi	J^π : M1,E2 γ to $2^+, 3^+, 4^+$; γ 's to 3^- and 5^+ . J^π : strong γ from 3^+ resonances; M1,E2 γ to 4^- . J^π : strong γ from 4^+ resonance; M1,E2 γ to 6^- .
419.0624 18	$2^-, 3^-, 4^-$		C E GH	J^π : M1+E2 γ to $7^-, 8^-$; γ to 5^+ .
439.1717 24	$4^-, 5^-$		CD H	J^π : M1,E2 γ to $4^+, 5^+$.
445.672 3	6^-		C H	J^π : M1,E2 γ to $4^+, 5^+$; γ to 4^- .
471.2599 19	$+$		C H	J^π : M1 γ to $3^+, 4^+$.
483.9988 21	$3^+, 4^+, 5^+$		C GH	
522.6911 17	$+$		C H	
565.1? 24			C	
581.916 4			C H	
593 2			D FG	
598.658 4	$3^-, 4^-$		C H	J^π : M1+E2 γ to 3^- ; γ to $(5)^-$.
612.693 7			C H	
642.057 4	$5^-, 6, 7^-$		C	J^π : γ 's to $4^-, 5^-$ and $7^-, 8^-$.
642.652 4	$4^-, 5, 6^-$		C H	J^π : γ 's to 4^- and 6^- .
653 2			E	
744.950 6			C H	
757.196 9			C	
770 30	$(1^+)^\#$			J
804.266 13			C	
827.064 14	$5^-, 6, 7^{(-)}$		C Hi	XREF: i(839). J^π : γ 's to $(5)^-$ and $7^-, 8^-$. XREF: i(839).
855.969 5	$4^-, 5$		CD i	J^π : γ from 4^+ resonance; γ to 6^- . XREF: i(839).
863.003 7	$3, 4$		CDEFGHi	J^π : strong γ 's from 3^+ and 4^+ resonances.

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Adopted Levels, Gammas (continued) ^{124}Sb Levels (continued)

E(level) [‡]	J ^π	XREF	Comments
869.415 7	3 ⁻ ,4,5 ⁻	C Hi	XREF: i(839). J ^π : γ's to 3 ⁻ and (5) ⁻ .
881.1 11		C	
896.7 9		C EFG	
905.1 8		C	
917.5 14		C	
939 2		E	
968.0 4		C	
1020.948 10	3 ⁻ ,4,5 ⁻	C	J ^π : γ's to 3 ⁻ and (5) ⁻ .
1031.2 6		CDE i	
1053.067 16		CDEFGHi	
1059.645 16		CDEFG i	
1067.1 5		C i	XREF: i(1065).
1075.1 20		D i	
1097.3 5		C i	
1129.2 3		CDEFG	
1143.3 5		CD i	
1159.6 6		CD i	
1180.7 6		CD F i	XREF: i(1176).
1237.3 5		CDE G	
1242.5 3		CDE G	
1261 8		C i	
1267.8 12		C i	
1285.6 4		CD i	XREF: i(1286).
1301.8 20		D FG i	
1330 30	(1 ⁺) [#]	J	
1379? 40		I	
1446? 40	(⁺)	I	J ^π : L=(0+2) in (d,p).
1500 30	(1 ⁺) [#]	J	
1566 2		D i	XREF: i(1585).
1586 2		D i	XREF: i(1585).
1596 2		D F i	XREF: i(1585).
1605.2 20		D i	XREF: i(1585).
1616.8 20		DEF i	XREF: i(1585).
1689 2		D F i	XREF: i(1711).
1716.6 20		D i	XREF: i(1711).
1746.0 20		D i	XREF: i(1711).
1832.8 20		D i	XREF: i(1851).
1870 30	(1 ⁺) [#]	J	
1882.2 20		D i	XREF: i(1851).
1952.7 20	(⁺)	D I	J ^π : L=(0+2) in (d,p).
2038.6 20		D	
2050 30	(1 ⁺) [#]	D J	
2165.1 20		D	
2179.2 20		D	
2220.6 20		D	
2305 40		I	
2375 40		I	E(level): multiple with L=(4,3) in (d,p).
2410 30	(1 ⁺) [#]	J	
2465 40		I	
2555 40	(⁺)	I	J ^π : L=2 in (d,p).
2615 40	(⁻)	I	J ^π : L=3 in (d,p).
2685? 40	(⁻)	I	J ^π : L=(1) in (d,p).
2735 40	(⁻)	I	J ^π : L=(1) in (d,p).
2795 40	(⁻)	I	J ^π : L=3 in (d,p).

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Adopted Levels, Gammas (continued)

 ^{124}Sb Levels (continued)

<u>E(level)[‡]</u>	<u>J^π</u>	<u>XREF</u>	<u>Comments</u>
2850 30	(1 ⁺) [#]	J	
2875 40	(⁻)	I	J ^π : L=3 in (d,p).
2935 40	(⁻)	I	J ^π : L=3 in (d,p).
3090 30	(1 ⁺) [#]	J	
3280 30	(1 ⁺) [#]	J	
3600 30	(1 ⁺) [#]	J	
3970 30	(1 ⁺) [#]	J	
4150 30	(1 ⁺) [#]	J	

[†] From delayed coincidence in (n,γ) E=th, unless noted otherwise.

[‡] From (n,γ) E=th wherever available.

[#] L=0 in (³He,t); L=0 allows J=0⁺, 1⁺, J=1⁺ is expected to be strongly populated ([1995Ph01](#)).

Adopted Levels, Gammas (continued)

$\gamma(^{124}\text{Sb})$

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [‡]	$\delta^\ddagger$	$\alpha^\#$	Comments
10.8627	5 ⁺	10.8630 11	100	0.0	3 ⁻	[M2]		2.19×10 ⁴	B(M2)(W.u.)=3.0×10 ⁻⁶ 3
36.8440	(8) ⁻	25.981 3	100	10.8627	5 ⁺	E3		2.97×10 ⁴	B(E3)(W.u.)=0.00462 15
40.8038	3 ⁺ ,4 ⁺	29.940 1	1.9 2	10.8627	5 ⁺	E2		138.0	B(E2)(W.u.)=0.64 12
		40.8041 10	100 15	0.0	3 ⁻	E1		2.281	B(E1)(W.u.)=2.1×10 ⁻⁷ 5
80.7638	3 ⁺ ,4 ⁺	39.9601 5	100 17	40.8038	3 ⁺ ,4 ⁺	M1		8.95	B(M1)(W.u.)=0.009 3
		80.7646 15	6.7 8	0.0	3 ⁻	[E1]		0.346	B(E1)(W.u.)=9.E-7 3
87.6016	(4) ⁻	87.6014 4	100	0.0	3 ⁻	M1		0.911	
103.6514	2 ⁻ ,3 ⁻ ,4 ⁻	103.6512 6	100	0.0	3 ⁻	M1		0.565	
125.2291	(6) ⁻	37.629 3	2.0 2	87.6016	(4) ⁻	E2		59.8	B(E2)(W.u.)=9.8 12
		88.3852 6	100 3	36.8440	(8) ⁻	E2		2.57	B(E2)(W.u.)=6.8 5
		114.3679 13	6.9 3	10.8627	5 ⁺	[E1]		0.1297	B(E1)(W.u.)=3.00×10 ⁻⁸ 19
131.6928	3 ⁻ ,4 ⁻ ,5 ⁻	44.0905 7	100	87.6016	(4) ⁻	M1		6.70	
180.0509	(7,8) ⁻	54.73 @ 5	<9.7 @	125.2291	(6) ⁻				
		143.2076 10	100 2	36.8440	(8) ⁻	M1		0.2282	
195.9822	4 ⁺ ,5 ⁺	155.1782 11	100 2	40.8038	3 ⁺ ,4 ⁺	M1		0.1827	
		185.1226 22	14 1	10.8627	5 ⁺	M1+E2	<2.6	0.16 5	
214.6032	3 ⁺ ,4 ⁺ ,5 ⁺	127.0024 23	2.0 1	87.6016	(4) ⁻				
		133.8396 19	100 2	80.7638	3 ⁺ ,4 ⁺	M1		0.276	
		173.7992 9	31 1	40.8038	3 ⁺ ,4 ⁺	M1		0.1338	
		203.739 3	1.7 2	10.8627	5 ⁺				
248.3692	+	167.6049 12	100 1	80.7638	3 ⁺ ,4 ⁺	M1		0.1477	B(M1)(W.u.)=0.0107 20
287.1286	3 ⁺ ,4 ⁺	72.526 3	6.8 7	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺	M1		1.571	
		206.36 3	0.75 23	80.7638	3 ⁺ ,4 ⁺				
		246.3206 25	100 3	40.8038	3 ⁺ ,4 ⁺	M1		0.0528	
		276.269 6	20 1	10.8627	5 ⁺				
368.333		188.282 7	100	180.0509	(7,8) ⁻				
371.823	6 ⁻ ,7 ⁻ ,8 ⁻	246.586 5	23 2	125.2291	(6) ⁻				
		334.981 3	100 4	36.8440	(8) ⁻	M1,E2		0.0248 12	
384.5336	4 ⁻ ,5 ⁻	252.834 4	56 1	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻	M1(+E2)	<0.6	0.051 3	
		296.949 7	3.0 2	87.6016	(4) ⁻				
		384.533 8	100 4	0.0	3 ⁻	M1,E2		0.0168 1	
386.2882	2 ⁺ ,3 ⁺ ,4 ⁺	137.9186 13	100 2	248.3692	+	M1		0.253	
		171.6855 23	7.4 3	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺				
		305.518 8	9.8 10	80.7638	3 ⁺ ,4 ⁺				
		345.48 3	6.1 17	40.8038	3 ⁺ ,4 ⁺				
		386.288 2	16.0 13	0.0	3 ⁻				
402.8775	3 ⁺ ,4 ⁺	206.8958 17	13 1	195.9822	4 ⁺ ,5 ⁺				
		299.218 5	8.6 4	103.6514	2 ⁻ ,3 ⁻ ,4 ⁻				
		322.116 3	100 4	80.7638	3 ⁺ ,4 ⁺	M1,E2		0.0278 17	
		392.011 11	8.7 6	10.8627	5 ⁺				
		402.878 13	18.9 9	0.0	3 ⁻				

Adopted Levels, Gammas (continued)

$\gamma(^{124}\text{Sb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. ‡	$\delta^\ddagger$	$\alpha^\#$
419.0624	2 ⁻ ,3 ⁻ ,4 ⁻	34.528 4	3.9 10	384.5336	4 ⁻ ,5 ⁻			
		223.079 6	4.3 5	195.9822	4 ⁺ ,5 ⁺			
		315.36 5	2.3 9	103.6514	2 ⁻ ,3 ⁻ ,4 ⁻			
		331.4592 24	100 3	87.6016	(4) ⁻	M1,E2		0.0256 13
		338.301 4	28 2	80.7638	3 ⁺ ,4 ⁺			
		419.056 12	14 1	0.0	3 ⁻			
439.1717	4 ⁻ ,5 ⁻	54.73 @ 5	<7.9 @	384.5336	4 ⁻ ,5 ⁻			
		313.954 & 5	44 &	125.2291	(6) ⁻	M1,E2		0.0300 20
		351.567 3	100 4	87.6016	(4) ⁻	M1,E2		0.0216 7
445.672	6 ⁻	73.84 8	3.4 7	371.823	6 ⁻ ,7 ⁻ ,8 ⁻			
		265.631 4	100 3	180.0509	(7,8) ⁻	E2(+M1)	>0.71	0.045 3
		313.954 & 5	68 &	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻	M1,E2		0.0300 20
		434.82 5	5.2 10	10.8627	5 ⁺			
471.2599	+	84.972 3	13 2	386.2882	2 ⁺ ,3 ⁺ ,4 ⁺	M1,E2		2.0 10
		184.128 3	9.3 10	287.1286	3 ⁺ ,4 ⁺			
		256.650 5	32 2	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺			
		275.281 3	100 4	195.9822	4 ⁺ ,5 ⁺	M1,E2		0.044 5
		390.505 9	44 2	80.7638	3 ⁺ ,4 ⁺			
		430.482 21	40 4	40.8038	3 ⁺ ,4 ⁺			
483.9988	3 ⁺ ,4 ⁺ ,5 ⁺	196.870 4	21 1	287.1286	3 ⁺ ,4 ⁺			
		269.3965 25	53 1	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺	M1,E2		0.047 4
		288.013 5	100 3	195.9822	4 ⁺ ,5 ⁺	M1,E2		0.039 6
		396.40 4	8.7 13	87.6016	(4) ⁻			
		443.214 11	34 2	40.8038	3 ⁺ ,4 ⁺			
		473.122 9	76 5	10.8627	5 ⁺			
522.6911	+	119.8134 6	50 1	402.8775	3 ⁺ ,4 ⁺	M1		0.376
		441.919 8	100 4	80.7638	3 ⁺ ,4 ⁺			
		481.884 19	22 2	40.8038	3 ⁺ ,4 ⁺			
581.916		195.623 5	14 1	386.2882	2 ⁺ ,3 ⁺ ,4 ⁺			
		501.152 8	100 5	80.7638	3 ⁺ ,4 ⁺			
		541.120 24	26 4	40.8038	3 ⁺ ,4 ⁺			
		571.059 9	61 4	10.8627	5 ⁺			
598.658	3 ⁻ ,4 ⁻	159.484 10	0.7 2	439.1717	4 ⁻ ,5 ⁻			
		179.594 4	1.6 2	419.0624	2 ⁻ ,3 ⁻ ,4 ⁻			
		466.956 11	23 1	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻			
		598.666 10	100 6	0.0	3 ⁻	M1(+E2)	<0.46	0.00564 12
612.693		226.44 9	17 4	386.2882	2 ⁺ ,3 ⁺ ,4 ⁺			
		364.320 12	100 6	248.3692	+			
		398.09 3	54 8	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺			
		531.939 13	81 6	80.7638	3 ⁺ ,4 ⁺			
642.057	5 ⁻ ,6 ⁻ ,7 ⁻	202.886 3	25 3	439.1717	4 ⁻ ,5 ⁻			

Adopted Levels, Gammas (continued)

$\gamma(^{124}\text{Sb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
642.057	5 ⁻ ,6,7 ⁻	270.232 8	22 1	371.823	6 ⁻ ,7 ⁻ ,8 ⁻	855.969	4 ⁻ ,5	724.27 3	20 4	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻
		461.996 9	100 6	180.0509	(7,8) ⁻			768.404 18	39 3	87.6016	(4) ⁻
642.652	4 ⁻ ,5,6 ⁻	196.977 4	8.1 5	445.672	6 ⁻	863.003	3,4	264.334 10	25 2	598.658	3 ⁻ ,4 ⁻
		258.124 10	9.8 9	384.5336	4 ⁻ ,5 ⁻			443.938 9	51 3	419.0624	2 ⁻ ,3 ⁻ ,4 ⁻
		555.058 7	100 6	87.6016	(4) ⁻			759.38 4	26 3	103.6514	2 ⁻ ,3 ⁻ ,4 ⁻
744.950		132.258 6	14 2	612.693				775.445 25	100 7	87.6016	(4) ⁻
		273.75 7	22 6	471.2599	+			863.10 5	17 3	0.0	3 ⁻
		342.068 9	56 5	402.8775	3 ⁺ ,4 ⁺	869.415	3 ⁻ ,4,5 ⁻	226.78 3	17 2	642.652	4 ⁻ ,5,6 ⁻
		457.825 25	39 11	287.1286	3 ⁺ ,4 ⁺			270.759 13	22 2	598.658	3 ⁻ ,4 ⁻
		530.349 16	61 5	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺			430.258 13	100 7	439.1717	4 ⁻ ,5 ⁻
		548.978 22	100 5	195.9822	4 ⁺ ,5 ⁺			450.341 22	40 4	419.0624	2 ⁻ ,3 ⁻ ,4 ⁻
		664.11 4	23 7	80.7638	3 ⁺ ,4 ⁺			484.869 10	60 5	384.5336	4 ⁻ ,5 ⁻
		704.13 3	56 5	40.8038	3 ⁺ ,4 ⁺			737.704 21	73 5	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻
757.196		470.052 12	58 5	287.1286	3 ⁺ ,4 ⁺			781.94 6	39 5	87.6016	(4) ⁻
		561.231 19	100 7	195.9822	4 ⁺ ,5 ⁺			869.52 7	52 7	0.0	3 ⁻
		716.406 18	89 9	40.8038	3 ⁺ ,4 ⁺	1020.948	3 ⁻ ,4,5 ⁻	422.287 10	50 6	598.658	3 ⁻ ,4 ⁻
804.266		589.61 5	25 3	214.6032	3 ⁺ ,4 ⁺ ,5 ⁺			636.41 8	44 6	384.5336	4 ⁻ ,5 ⁻
		723.42 3	47 7	80.7638	3 ⁺ ,4 ⁺			889.27 4	88 11	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻
		763.481 14	100 6	40.8038	3 ⁺ ,4 ⁺			1020.97 6	100 28	0.0	3 ⁻
827.064	5 ⁻ ,6,7 ⁽⁻⁾	455.244 14	100 5	371.823	6 ⁻ ,7 ⁻ ,8 ⁻	1053.067		634.003 15	100	419.0624	2 ⁻ ,3 ⁻ ,4 ⁻
		646.96 5	19 5	180.0509	(7,8) ⁻	1059.645		477.688 25	31 4	581.916	
		695.38 5	32 6	131.6928	3 ⁻ ,4 ⁻ ,5 ⁻			620.48 3	67 6	439.1717	4 ⁻ ,5 ⁻
855.969	4 ⁻ ,5	213.913 5	8.4 7	642.057	5 ⁻ ,6,7 ⁻			675.26 7	28 4	384.5336	4 ⁻ ,5 ⁻
		410.280 11	100 5	445.672	6 ⁻			972.06 3	100 13	87.6016	(4) ⁻

[†] From (n, γ) E=th.

[‡] From $\alpha(\text{exp})$ and L-, M-subshell ratios in (n, γ) E=th.

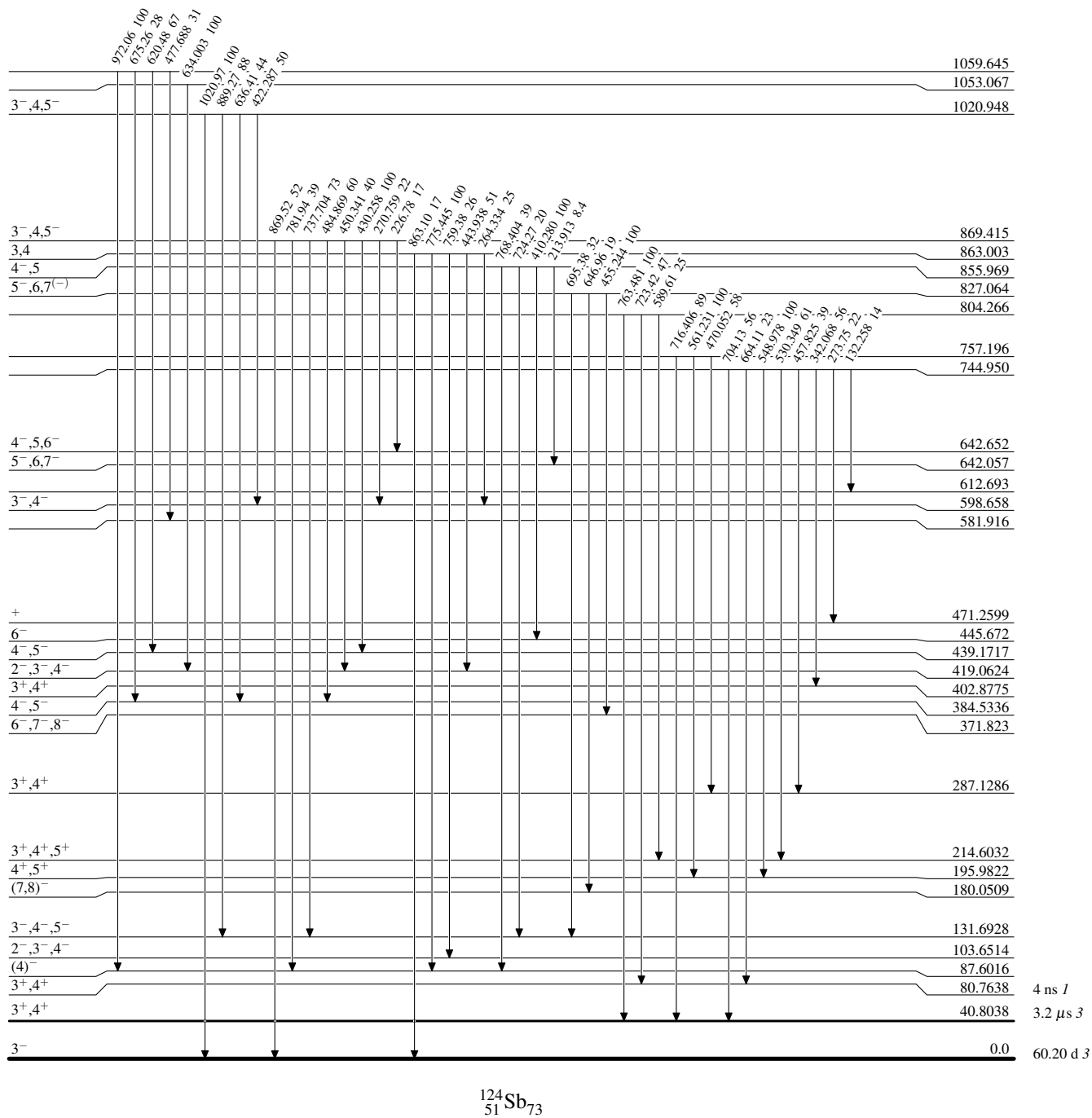
Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

@ Multiply placed with undivided intensity.

& Multiply placed with intensity suitably divided.

Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level

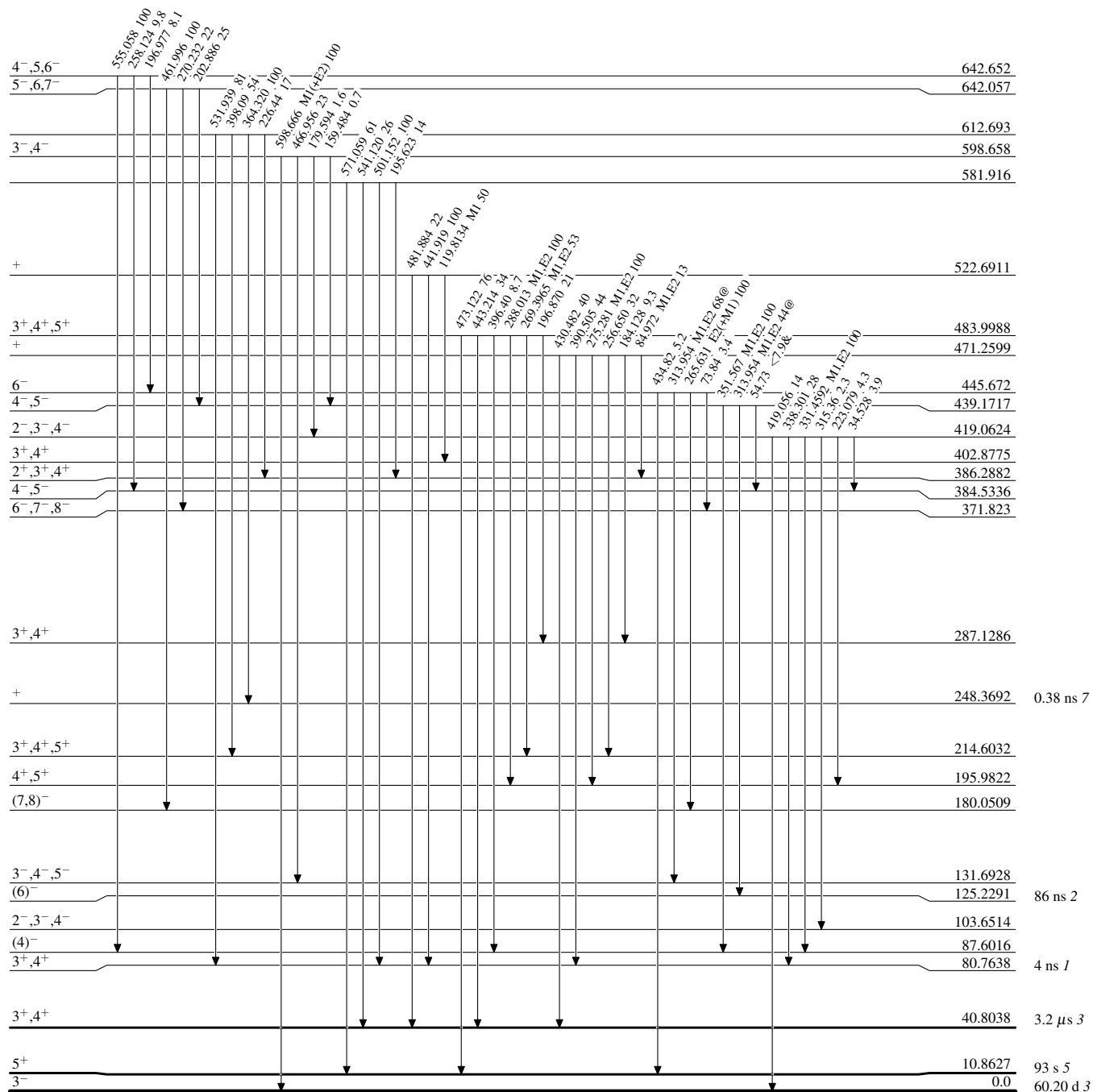


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

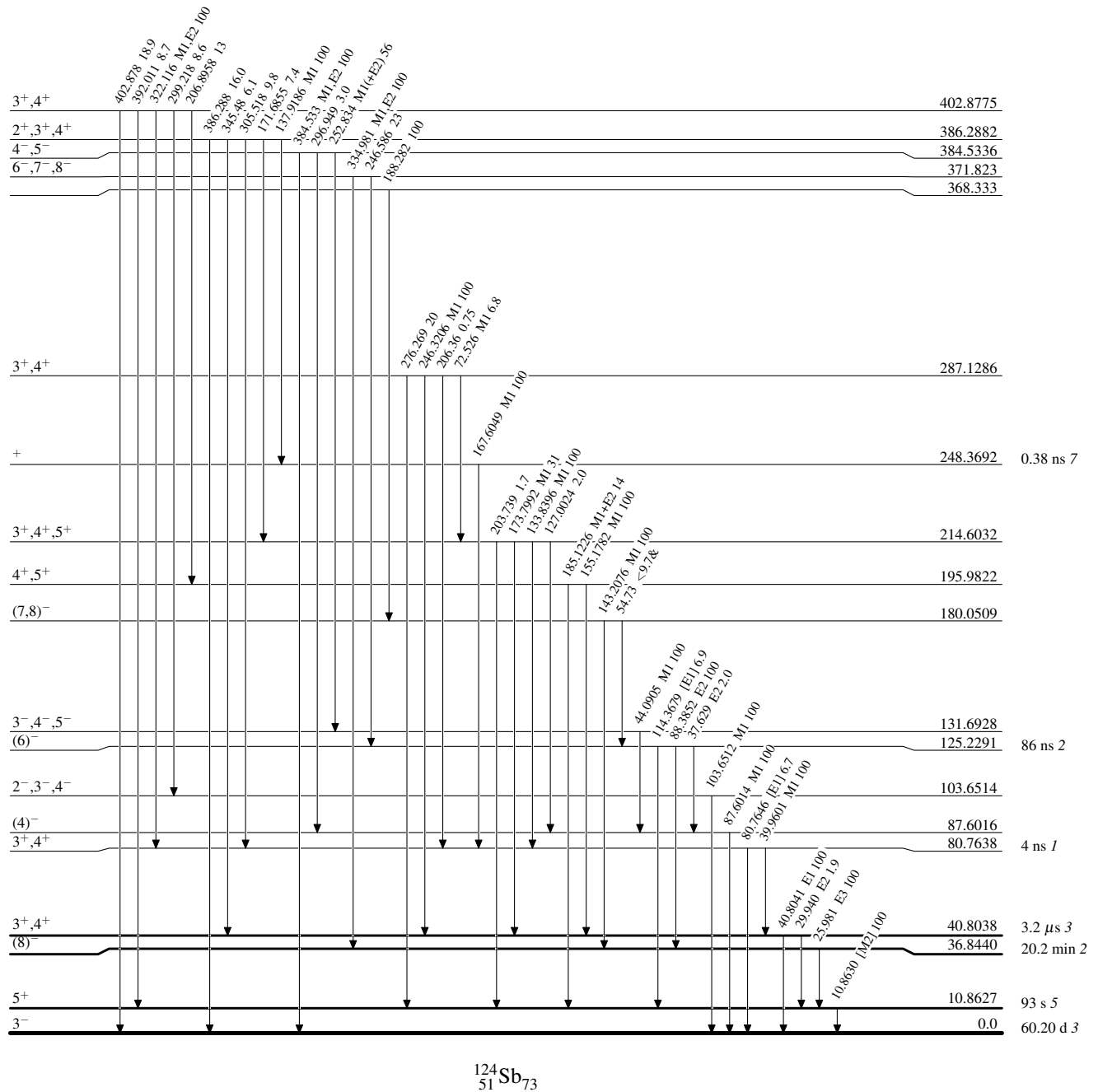
& Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided

 $^{124}_{51}\text{Sb}_{73}$

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

Intensities: Relative photon branching from each level
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

 $^{124}_{51}\text{Sb}_{73}$