^{121}Sb(γ,γ') 1973Bo12,2002Br05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

1973Bo12: bremsstrahlung E=0.6-3.0 MeV, semi γ, θ=125°, deduced Γ.
2002Br05: E=4.1 MeV bremsstrahlung. Measured Eγ, Iγ and scattering cross sections using the bremsstrahlung Nuclear-resonance fluorescence (NRF) facility at 4.3 MeV Dynamitron accelerator and 3 HPGe detectors located at 90, 127 and 150 degrees.
1963Me13: 17-d ^{121}Te source, centrifuge method for recoil energy compensation, scin γ, $\gamma(\theta)$.
1981En03: ^{60}Co source, centrifuge method (preliminary result is given in 1980Mu05).
1981Ca10: bremsstrahlung excitation, natural Sb target, measured cross section and Γ, deduced $T_{1/2}$.
2000Ki15: synchrotron radiation, avalanche photodiode detectors, measured resonance energy.

^{121}Sb Levels

E(level)[†]	J$^\pi$[&]	$T_{1/2}$	g$\Gamma(\gamma_0)^2/\Gamma$ (eV)[a]	Comments
0.0	$5/2^+$			
37.1298 *2*	$7/2^+$	3.47 ns *39*		E(level): from 2006Wi04. Other: 37.147 *23* (2000Ki15). $T_{1/2}$: from γ(t) (2000Ki15).
509.0 *15*	$3/2^+$	1.93 ps *19*	0.133×10^{-3} *13*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): Other: 0.00011 eV *5* (1973B012). $T_{1/2}$: from $\Gamma(\gamma_0)^2/\Gamma$ and $\Gamma(\gamma_0)/\Gamma$=0.9184 *20* from adopted gammas.
573.0[#] *15*	$1/2^+$	8.5 ps *10*	0.0173×10^{-3} *20*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1963Me13. $T_{1/2}$: from $\Gamma(\gamma_0)^2/\Gamma$ and $\Gamma(\gamma_0)/\Gamma$=0.984 *4* from adopted gammas.
947	$9/2^+$	>0.15 ps	$<0.05\times10^{-3}$	E(level): rounded-off value from Adopted Levels. g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1973Bo12. $T_{1/2}$: from $\Gamma(\gamma_0)^2/\Gamma$ and $\Gamma(\gamma_0)/\Gamma$=0.105 *3* from adopted gammas.
1023.5[‡] *10*	$7/2^+$	0.18 ps *4*	3.3×10^{-3} *7*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): Weighted average of 0.00385 eV *35* (1981Ca10) and 0.0025 eV *3* (1973Bo12) with external uncertainty. $T_{1/2}$: from $\Gamma(\gamma_0)^2/\Gamma$.
1035	$9/2^+$	$>0.3\times10^{-3}$ ps	$<0.08\times10^{-3}$	E(level): rounded-off value from Adopted Levels. g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1973Bo12. $T_{1/2}$: from $\Gamma(\gamma_0)^2/\Gamma$ and $\Gamma(\gamma_0)/\Gamma$=0.007 *3* from adopted gammas.
1142.5[‡] *10*	$9/2^+$	0.46 ps *+15−9*	0.88×10^{-3} *8*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1981Ca10; other: 0.000.9 eV *2* (1973Bo12). $T_{1/2}$: from $\Gamma(\gamma_0)^2/\Gamma$ and $\Gamma(\gamma_0)/\Gamma$=0.73 *8* from adopted gammas.
1385.2 *3*	$^+$		4.0×10^{-3} *3*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): others: 0.0049 eV *5* (1981Ca10), 0.0046 eV *6* (1973Bo12).

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^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

^{121}Sb Levels (continued)

E(level)[†]	J$^{\pi}$[&]	g$\Gamma(\gamma_0)^2/\Gamma$ (eV)[a]	Comments
1408[@] *3*	1/2$^+$,3/2,5/2$^+$	0.19×10^{-3}[@] *6*	
1423[@] *3*		0.16×10^{-3}[@] *8*	
1446		<0.04×10^{-3}	E(level),g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1973Bo12; 1979Bo12 report E=1446 *5* with J^{π}=(11/2$^-$) using an early version of the Nuclear Data Sheets. There is a level at 1447.51 with J^{π}=3/2$^+$,5/2$^+$,7/2$^+$ and the (11/2$^-$) level is at 1426.88. It isn′t clear to which of these levels the authors′ width data applies.
1471.2 *3*	+	<0.2×10^{-3}	E(level): from Adopted Levels. g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1973Bo12.
1474.4 *6*	+	<1.0×10^{-3}	E(level): from Adopted Levels. g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1973Bo12.
1518.9 *3*	+	3.9×10^{-3} *3*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0043 eV *7* (1973B012).
1590.4 *4*		2.0×10^{-3} *3*	
1628.4 *3*	+	2.9×10^{-3} *3*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0020 eV *3* (1973Bo12).
1736.3 *2*	+	7.0×10^{-3} *5*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0075 eV *10* (1973B012).
1758.5 *4*	+	0.40×10^{-3} *13*	
1810.8 *5*	1/2$^+$,3/2$^+$	4.1×10^{-3} *4*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0042 eV *8* (1973B012).
1910.6 *3*		0.64×10^{-3} *20*	
1927.1 *5*		0.58×10^{-3} *19*	
1981.6 *4*	3/2$^+$,5/2$^+$	0.43×10^{-3} *18*	
2016.5 *9*		0.75×10^{-3} *28*	
2025.7 *7*		2.4×10^{-3} *7*	
2048[@] *3*		2.6×10^{-3}[@] *6*	
2063.4 *5*	+	2.8×10^{-3} *7*	
2075 *5*	−	<1.0×10^{-3}	E(level): from Adopted Levels. This level has been reported only in (p,t) and in (d,d′),(α,α'). g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1973Bo12.
2093.0 *7*	−	1.0×10^{-3} *3*	
2097.9 *5*	3/2$^+$,5/2$^+$	1.2×10^{-3} *3*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0022 eV *10* (1973B012).
2114.1 *4*	+	1.27×10^{-3} *25*	
2121.3 *7*		1.0×10^{-3} *3*	
2140.2 *7*		1.3×10^{-3} *3*	
2235.5 *3*	+	3.8×10^{-3} *4*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0048 eV *7* (1973B012).
2255.2 *6*		0.67×10^{-3} *25*	
2259.1 *3*		2.6×10^{-3} *3*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0030 eV *7* (1973B012).
2265.9 *4*	+	1.4×10^{-3} *3*	
2280.4 *6*		2.6×10^{-3} *7*	
2289.8 *4*	+	0.33×10^{-3} *14*	
2323.5 *4*		2.1×10^{-3} *5*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0041 eV *10* (1973B012).
2329[@] *3*		3.1×10^{-3}[@] *16*	
2371[@] *2*		5.0×10^{-3}[@] *10*	
2398.8 *3*	+	10.9×10^{-3} *9*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0076 eV *10* (1973B012).
2435.8 *3*	+	13.2×10^{-3} *13*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0040 eV *10* (1973B012).
2442.0 *3*		0.78×10^{-3} *22*	
2447.7 *4*		0.74×10^{-3} *22*	
2459.2 *6*		0.68×10^{-3} *25*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0016 eV *7* (1973B012).
2477.0 *4*	−	0.76×10^{-3} *21*	
2497.7 *3*		5.1×10^{-3} *5*	g$\Gamma(\gamma_0)^2/\Gamma$ (eV): 0.0048 eV *16* (1973B012).
2573.8 *7*		1.7×10^{-3} *4*	
2579.2 *14*		1.4×10^{-3} *8*	
2585.6 *8*	+	1.4×10^{-3} *4*	
2649.0 *7*	+	0.7×10^{-3} *3*	

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^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

^{121}Sb Levels (continued)

E(level)[†]	J$^{\pi}$[&]	g$\Gamma(\gamma_0)^2/\Gamma$ (eV)[a]	Comments
2663.0 *7*		3.1×10^{-3} *8*	
2668.1 *7*		1.1×10^{-3} *3*	
2678.1 *4*		3.3×10^{-3} *4*	
2690.4 *3*	$3/2^+,5/2^+$	9.6×10^{-3} *8*	
2698.8 *8*		1.0×10^{-3} *3*	
2713.5 *4*		3.3×10^{-3} *4*	
2721.4 *6*		1.1×10^{-3} *3*	
2725.8 *12*		0.9×10^{-3} *3*	
2733.0 *9*			E(level): Authors′ value of 2723.0 is possibly a misprint.
2740.4 *10*		2.6×10^{-3} *12*	
2745.0 *9*		0.9×10^{-3} *3*	
2775.1 *6*		0.55×10^{-3} *24*	
2783.7 *7*		0.53×10^{-3} *24*	
2798.8 *6*		2.3×10^{-3} *7*	
2810.0 *7*		0.8×10^{-3} *3*	
2828.2 *5*		4.6×10^{-3} *14*	
2835.6 *8*		2.8×10^{-3} *11*	
2843.6 *3*		8.2×10^{-3} *8*	
2860.1 *5*		0.53×10^{-3} *21*	
2865.2 *6*		4.1×10^{-3} *19*	
2873.4 *9*		2.1×10^{-3} *11*	
2911.6 *11*		1.4×10^{-3} *8*	
2917.3 *6*		1.4×10^{-3} *3*	
2931.5 *6*		2.6×10^{-3} *6*	
2937.4 *4*	$1/2^+,3/2^+$	3.4×10^{-3} *5*	
2947.3 *12*		1.3×10^{-3} *8*	
2964.0 *7*		1.5×10^{-3} *4*	
2973.6 *3*		6.9×10^{-3} *7*	
2994.1 *3*		4.1×10^{-3} *5*	
3024.6 *6*		3.7×10^{-3} *13*	
3033.1 *10*		3.8×10^{-3} *15*	
3050.4 *3*		8.1×10^{-3} *7*	
3064.1 *6*		1.6×10^{-3} *3*	
3072.9 *5*		2.9×10^{-3} *4*	
3082.7 *8*		1.0×10^{-3} *3*	
3098.7 *3*		10.5×10^{-3} *9*	
3105.9 *12*		1.6×10^{-3} *10*	
3116.0 *6*		2.7×10^{-3} *9*	
3122.9 *4*		4.1×10^{-3} *5*	
3132.0 *7*		0.9×10^{-3} *3*	
3148.8 *7*		2.6×10^{-3} *7*	
3151.7 *8*		2.1×10^{-3} *7*	
3159.5 *3*		9.6×10^{-3} *9*	
3186.9 *4*		3.4×10^{-3} *6*	
3193.7 *4*		6.2×10^{-3} *8*	
3206.6 *4*		7.5×10^{-3} *11*	
3210.1 *5*		1.7×10^{-3} *7*	
3232.5 *3*		10.9×10^{-3} *9*	
3252.1 *7*		3.2×10^{-3} *8*	
3259.9 *7*		0.7×10^{-3} *3*	
3290.3 *9*		6.5×10^{-3} *14*	

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^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

^{121}Sb Levels (continued)

E(level)[†]	J$^{\pi}$[&]	g$\Gamma(\gamma_0)^2/\Gamma$ (eV)[a]	Comments
3302.7 *6*		1.7×10^{-3} *10*	
3313.7 *5*		10×10^{-3} *4*	
3345.8 *8*		4.2×10^{-3} *13*	
3351.7 *7*		1.7×10^{-3} *6*	
3363.6 *4*		3.8×10^{-3} *6*	
3384.9 *6*		1.7×10^{-3} *5*	
3451.068 *4*	(3/2$^+$,5/2$^+$)	1.0×10^{-3} *2*	E(level): 1981En03 use a Doppler-shifted 3451γ in ^{56}Fe from ^{56}Co source to excite the 3451 level. Eγ=3451.119 *4* (2004He14), the resonance energy is 2 eV and the recoil correction is 53 eV. g$\Gamma(\gamma_0)^2/\Gamma$ (eV): from 1981En03. $T_{1/2}$: from g$\Gamma(\gamma_0)^2/\Gamma$ and $\Gamma(\gamma_0)/\Gamma$=0.63 *4* one gets $T_{1/2}$=0.18g ps *4*. J$^{\pi}$: γ's to 7/2$^+$, 1/2$^+$.
3474.2 *4*		6.7×10^{-3} *13*	
3485.8 *5*		3.5×10^{-3} *9*	
3495.6 *8*		1.2×10^{-3} *4*	
3503.2 *6*		1.6×10^{-3} *5*	
3512.7 *11*		1.1×10^{-3} *5*	
3517.0 *11*		6.1×10^{-3} *15*	
3521.3 *5*		3.7×10^{-3} *7*	
3544.9 *7*		3.6×10^{-3} *8*	
3570.2 *13*		1.2×10^{-3} *5*	
3575.0 *7*		3.2×10^{-3} *7*	
3580.7 *4*		6.9×10^{-3} *9*	
3587.6 *10*		1.5×10^{-3} *5*	
3614.5 *6*		3.1×10^{-3} *7*	
3621.4 *11*		1.1×10^{-3} *5*	
3642.0 *7*		1.8×10^{-3} *6*	
3648.5 *8*		1.1×10^{-3} *5*	
3672.6 *11*		2.1×10^{-3} *7*	
3677.3 *10*		4.2×10^{-3} *14*	
3706.3 *7*		1.9×10^{-3} *6*	
3731.7 *5*		5.0×10^{-3} *16*	
3748.9 *5*		4.8×10^{-3} *15*	
3755.6 *7*		3.2×10^{-3} *15*	
3759.4 *9*		1.1×10^{-3} *5*	
3771.8 *8*		1.8×10^{-3} *7*	
3781.3 *5*		3.0×10^{-3} *7*	
3787.3 *7*		2.0×10^{-3} *7*	
3792.6 *8*		3.3×10^{-3} *14*	
3804.3 *10*		1.6×10^{-3} *7*	
3812.9 *6*		4.6×10^{-3} *20*	
3838.1 *9*		3.5×10^{-3} *18*	
3844.6 *8*		1.7×10^{-3} *7*	
3849.1 *7*		2.1×10^{-3} *7*	
3854.2 *7*		2.1×10^{-3} *7*	
3858.1 *7*		2.0×10^{-3} *7*	
3863.8 *6*		2.8×10^{-3} *9*	
3867.0 *8*		2.2×10^{-3} *8*	
3870.1 *8*		2.1×10^{-3} *8*	

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^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

^{121}Sb Levels (continued)

E(level)†	gΓ(γ_0)^2/Γ (eV)[a]	E(level)†	gΓ(γ_0)^2/Γ (eV)[a]
3894.0 *9*	2.3×10^{-3} *9*	3923.4 *7*	3.6×10^{-3} *12*
3899.6 *10*	2.1×10^{-3} *9*	3929.1 *8*	3.9×10^{-3} *12*
3905.2 *6*	4.9×10^{-3} *13*	3933.3 *9*	3.1×10^{-3} *12*
3909.4 *11*	2.2×10^{-3} *10*	3940.9 *7*	3.6×10^{-3} *13*
3916.0 *8*	2.9×10^{-3} *10*	3972.7 *11*	6.9×10^{-3} *26*

† E(levels) are from 2002Br05, unless otherwise noted.
‡ From 1981Ca10.
# From Adopted Levels (rounded-off value).
@ From 1973Bo12.
& From Adopted Levels.
[a] In the equation of Γ(γ_0)^2/Γ, Γ(γ_0) is the decay Γ to g.s. and g=(2J+1)/(2J(g.s.)+1). Presented values are from 2002Br05, except where noted otherwise.

^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

$\gamma(^{121}Sb)$

E_γ	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α[@]	Comments
37[†]	[†]	37.1298	$7/2^+$	0.0	$5/2^+$				
70[†]	2.0[†] *7*	573.0	$1/2^+$	509.0	$3/2^+$				
469[†]	100[†]	509.0	$3/2^+$	37.1298	$7/2^+$				
509[†]	≈10[†]	509.0	$3/2^+$	0.0	$5/2^+$	M1+E2	0.29 *9*	0.00820 *13*	α=0.00820 *13*; α(K)=0.00711 *11*; α(L)=0.000880 *13*; α(M)=0.0001737 *25*; α(N+..)=3.69×10^{-5} α(N)=3.35×10^{-5} *5*; α(O)=3.32×10^{-6} *5* δ: from 1963Me13. However, adopted value is 0.137 *11*.
576[†]	100[†]	573.0	$1/2^+$	0.0	$5/2^+$				
1385.2 *3*		1385.2	$^+$	0.0	$5/2^+$				
1518.9 *3*		1518.9	$^+$	0.0	$5/2^+$				
1590.4 *4*		1590.4		0.0	$5/2^+$				
1628.4 *3*		1628.4	$^+$	0.0	$5/2^+$				
1736.3 *2*		1736.3	$^+$	0.0	$5/2^+$				
1758.5 *4*		1758.5	$^+$	0.0	$5/2^+$				
1810.8 *5*		1810.8	$1/2^+,3/2^+$	0.0	$5/2^+$				
1910.6 *3*		1910.6		0.0	$5/2^+$				
1927.1 *5*		1927.1		0.0	$5/2^+$				
1933[&]	16[#]	3451.068	$(3/2^+,5/2^+)$	1518.9	$^+$				
1981.6 *4*		1981.6	$3/2^+,5/2^+$	0.0	$5/2^+$				
1988.9 *8*	92 *31*	2025.7		37.1298	$7/2^+$				
2016.5 *9*		2016.5		0.0	$5/2^+$				
2025.7 *7*	100	2025.7		0.0	$5/2^+$				
2025.7 *7*	94 *26*	2063.4	$^+$	37.1298	$7/2^+$				
2063.4 *5*	100	2063.4	$^+$	0.0	$5/2^+$				
2093.0 *7*		2093.0	$^-$	0.0	$5/2^+$				
2097.9 *5*		2097.9	$3/2^+,5/2^+$	0.0	$5/2^+$				
2114.1 *4*		2114.1	$^+$	0.0	$5/2^+$				
2121.3 *7*		2121.3		0.0	$5/2^+$				
2140.2 *7*		2140.2		0.0	$5/2^+$				
2235.5 *3*		2235.5	$^+$	0.0	$5/2^+$				
2243.1 *7*	93 *28*	2280.4		37.1298	$7/2^+$				
2255.2 *6*		2255.2		0.0	$5/2^+$				
2259.1 *3*		2259.1		0.0	$5/2^+$				
2265.9 *4*		2265.9	$^+$	0.0	$5/2^+$				
2280.4 *6*	100	2280.4		0.0	$5/2^+$				
2286.3 *5*	81 *24*	2323.5		37.1298	$7/2^+$				
2289.8 *4*		2289.8	$^+$	0.0	$5/2^+$				
2323.5 *4*	100	2323.5		0.0	$5/2^+$				
2361.7 *3*	45 *4*	2398.8	$^+$	37.1298	$7/2^+$				
2398.8 *3*	100	2398.8	$^+$	0.0	$5/2^+$				
2398.8 *3*	153 *10*	2435.8	$^+$	37.1298	$7/2^+$				

$^{121}_{51}Sb_{70}$-6

^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

$\gamma(^{121}Sb)$ (continued)

E_γ	I_γ‡	E_i(level)	J_i^π	E_f	J_f^π
2435.8 *3*	100	2435.8	+	0.0	5/2+
2442.0 *3*		2442.0		0.0	5/2+
2447.7 *4*		2447.7		0.0	5/2+
2459.2 *6*		2459.2		0.0	5/2+
2477.0 *4*		2477.0	−	0.0	5/2+
2497.7 *3*		2497.7		0.0	5/2+
2541.6 *6*	98 *52*	2579.2		37.1298	7/2+
2573.8 *7*		2573.8		0.0	5/2+
2579.2 *14*	100	2579.2		0.0	5/2+
2585.6 *8*		2585.6	+	0.0	5/2+
2626.1 *5*	151 *38*	2663.0		37.1298	7/2+
2649.0 *7*		2649.0	+	0.0	5/2+
2653.5 *6*	23 *4*	2690.4	3/2+,5/2+	37.1298	7/2+
2663.0 *7*	100	2663.0		0.0	5/2+
2668.1 *7*		2668.1		0.0	5/2+
2678.1 *4*		2678.1		0.0	5/2+
2690.4 *3*	100	2690.4	3/2+,5/2+	0.0	5/2+
2698.8 *8*		2698.8		0.0	5/2+
2703.8 *6*	226 *82*	2740.4		37.1298	7/2+
2713.5 *4*		2713.5		0.0	5/2+
2721.4 *6*		2721.4		0.0	5/2+
2725.8 *12*		2725.8		0.0	5/2+
2733.0 *9*		2733.0		0.0	5/2+
2740.4 *10*	100	2740.4		0.0	5/2+
2745.0 *9*		2745.0		0.0	5/2+
2761.2 *9*	63 *26*	2798.8		37.1298	7/2+
2775.1 *6*		2775.1		0.0	5/2+
2783.7 *7*		2783.7		0.0	5/2+
2791.9 *9*	47 *20*	2828.2		37.1298	7/2+
2798.8 *6*	100	2798.8		0.0	5/2+
2798.8 *6*	121 *44*	2835.6		37.1298	7/2+
2806.2 *7*	10 *4*	2843.6		37.1298	7/2+
2810.0 *7*		2810.0		0.0	5/2+
2828.2 *5*	100	2828.2		0.0	5/2+
2828.2 *5*	4.2×10^2 *17*	2865.2		37.1298	7/2+
2835.6 *8*	100	2835.6		0.0	5/2+
2835.6 *8*	166 *77*	2873.4		37.1298	7/2+
2843.6 *3*	100	2843.6		0.0	5/2+
2860.1 *5*		2860.1		0.0	5/2+
2865.2 *6*	100	2865.2		0.0	5/2+
2873.4 *9*	100	2873.4		0.0	5/2+
2873.4 *9*	147 *79*	2911.6		37.1298	7/2+
2879	21# *2*	3451.068	(3/2+,5/2+)	573.0	1/2+
2895.2 *9*	33 *15*	2931.5		37.1298	7/2+
2911.6 *11*	100	2911.6		0.0	5/2+
2911.6 *11*	89 *54*	2947.3		37.1298	7/2+
2917.3 *6*		2917.3		0.0	5/2+
2931.5 *6*	100	2931.5		0.0	5/2+
2937.4 *4*		2937.4	1/2+,3/2+	0.0	5/2+
2943	20# *3*	3451.068	(3/2+,5/2+)	509.0	3/2+
2947.3 *12*	100	2947.3		0.0	5/2+
2964.0 *7*		2964.0		0.0	5/2+
2973.6 *3*		2973.6		0.0	5/2+
2994.1 *3*		2994.1		0.0	5/2+
3024.6 *6*		3024.6		0.0	5/2+
3033.1 *10*		3033.1		0.0	5/2+
3050.4 *3*		3050.4		0.0	5/2+
3064.1 *6*		3064.1		0.0	5/2+
3068.9 *9*	1.9×10^2 *11*	3105.9		37.1298	7/2+
3072.9 *5*		3072.9		0.0	5/2+
3078.2 *10*	42 *18*	3116.0		37.1298	7/2+
3082.7 *8*		3082.7		0.0	5/2+
3098.7 *3*		3098.7		0.0	5/2+
3105.9 *12*	100	3105.9		0.0	5/2+
3116.0 *6*	100	3116.0		0.0	5/2+
3122.9 *4*		3122.9		0.0	5/2+
3132.0 *7*		3132.0		0.0	5/2+
3148.8 *7*		3148.8		0.0	5/2+
3151.7 *8*		3151.7		0.0	5/2+
3159.5 *3*		3159.5		0.0	5/2+
3186.9 *4*		3186.9		0.0	5/2+
3193.7 *4*		3193.7		0.0	5/2+
3206.6 *4*		3206.6		0.0	5/2+
3210.1 *5*		3210.1		0.0	5/2+
3215.0 *7*	47 *18*	3252.1		37.1298	7/2+
3232.5 *3*		3232.5		0.0	5/2+
3252.1 *7*	100	3252.1		0.0	5/2+
3252.1 *7*	55 *14*	3290.3		37.1298	7/2+
3259.9 *7*		3259.9		0.0	5/2+
3265.9 *5*	137 *76*	3302.7		37.1298	7/2+
3277.1 *3*	6.0×10^2 *18*	3313.7		37.1298	7/2+
3290.3 *9*	100	3290.3		0.0	5/2+
3302.7 *6*	100	3302.7		0.0	5/2+
3308.5 *12*	59 *29*	3345.8		37.1298	7/2+
3313.7 *5*	100	3313.7		0.0	5/2+
3345.8 *8*	100	3345.8		0.0	5/2+

$^{121}_{51}Sb_{70}$-7

^{121}Sb(γ,γ') 1973Bo12,2002Br05 (continued)

$\gamma(^{121}Sb)$ (continued)

E_γ	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π
3351.7 *7*		3351.7		0.0	$5/2^+$
3363.6 *4*		3363.6		0.0	$5/2^+$
3384.9 *6*		3384.9		0.0	$5/2^+$
3414	11[#] *1*	3451.068	$(3/2^+,5/2^+)$	37.1298	$7/2^+$
3437.1 *8*	23 *11*	3474.2		37.1298	$7/2^+$
3452	100[#]	3451.068	$(3/2^+,5/2^+)$	0.0	$5/2^+$
3474.2 *4*	100	3474.2		0.0	$5/2^+$
3480.5 *9*	63 *29*	3517.0		37.1298	$7/2^+$
3485.8 *5*		3485.8		0.0	$5/2^+$
3495.6 *8*		3495.6		0.0	$5/2^+$
3503.2 *6*		3503.2		0.0	$5/2^+$
3512.7 *11*		3512.7		0.0	$5/2^+$
3517.0 *11*	100	3517.0		0.0	$5/2^+$
3521.3 *5*		3521.3		0.0	$5/2^+$
3544.9 *7*		3544.9		0.0	$5/2^+$
3570.2 *13*		3570.2		0.0	$5/2^+$
3575.0 *7*		3575.0		0.0	$5/2^+$
3580.7 *4*		3580.7		0.0	$5/2^+$
3587.6 *10*		3587.6		0.0	$5/2^+$
3614.5 *6*		3614.5		0.0	$5/2^+$
3621.4 *11*		3621.4		0.0	$5/2^+$
3638.9 *8*	66 *27*	3677.3		37.1298	$7/2^+$
3642.0 *7*		3642.0		0.0	$5/2^+$
3648.5 *8*		3648.5		0.0	$5/2^+$
3672.6 *11*		3672.6		0.0	$5/2^+$
3677.3 *10*	100	3677.3		0.0	$5/2^+$
3693.7 *9*	96 *34*	3731.7		37.1298	$7/2^+$
3706.3 *7*		3706.3		0.0	$5/2^+$
3712.1 *9*	79 *32*	3748.9		37.1298	$7/2^+$
3719.2 *11*	114 *64*	3755.6		37.1298	$7/2^+$
3731.7 *5*	100	3731.7		0.0	$5/2^+$
3748.9 *5*	100	3748.9		0.0	$5/2^+$
3755.6 *7*	100	3755.6		0.0	$5/2^+$
3755.6 *7*	68 *39*	3792.6		37.1298	$7/2^+$
3759.4 *9*		3759.4		0.0	$5/2^+$
3771.8 *8*		3771.8		0.0	$5/2^+$
3775.1 *7*	163 *68*	3812.9		37.1298	$7/2^+$
3781.3 *5*		3781.3		0.0	$5/2^+$
3787.3 *7*		3787.3		0.0	$5/2^+$
3792.6 *8*	100	3792.6		0.0	$5/2^+$
3800.4 *9*	119 *64*	3838.1		37.1298	$7/2^+$
3804.3 *10*		3804.3		0.0	$5/2^+$
3812.9 *6*	100	3812.9		0.0	$5/2^+$
3838.1 *9*	100	3838.1		0.0	$5/2^+$
3844.6 *8*		3844.6		0.0	$5/2^+$
3849.1 *7*		3849.1		0.0	$5/2^+$
3854.2 *7*		3854.2		0.0	$5/2^+$
3858.1 *7*		3858.1		0.0	$5/2^+$
3863.8 *6*		3863.8		0.0	$5/2^+$
3867.0 *8*		3867.0		0.0	$5/2^+$
3870.1 *8*		3870.1		0.0	$5/2^+$
3894.0 *9*		3894.0		0.0	$5/2^+$
3899.6 *10*		3899.6		0.0	$5/2^+$
3905.2 *6*		3905.2		0.0	$5/2^+$
3909.4 *11*		3909.4		0.0	$5/2^+$
3916.0 *8*		3916.0		0.0	$5/2^+$
3923.4 *7*		3923.4		0.0	$5/2^+$
3929.1 *8*		3929.1		0.0	$5/2^+$
3933.3 *9*		3933.3		0.0	$5/2^+$
3940.9 *7*		3940.9		0.0	$5/2^+$
3972.7 *11*		3972.7		0.0	$5/2^+$

† From 1963Me13.
‡ From Γ_1/Γ_0 (2002Br05), except where noted otherwise.
# From 1981En03.
@ 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.
& Placement of transition in the level scheme is uncertain.

$^{121}_{51}Sb_{70}$-8

^{121}Sb(γ,γ′) 1973Bo12,2002Br05

Level Scheme

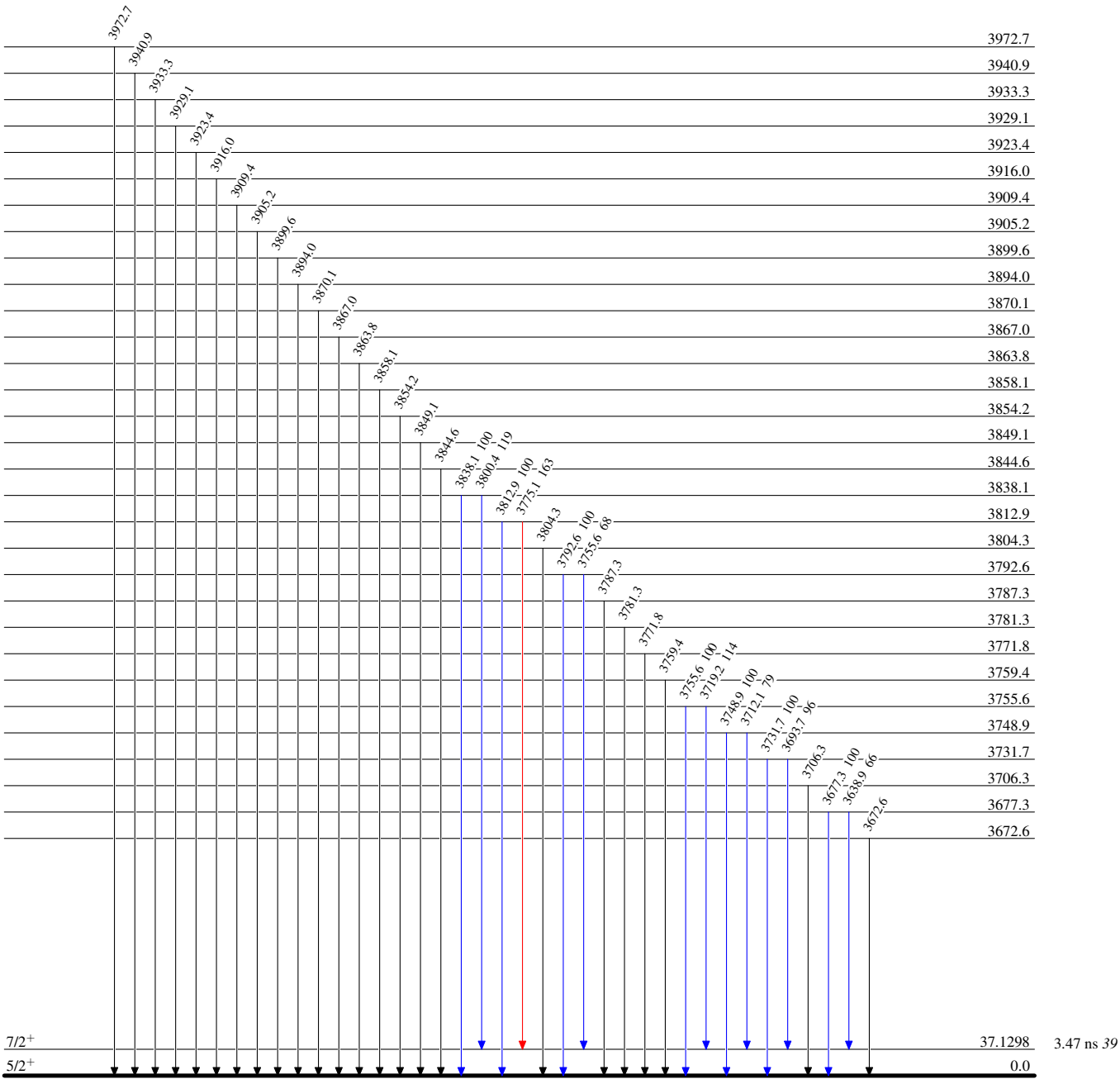
Intensities: Type not specified

Legend

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

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

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



$^{121}_{51}Sb_{70}$

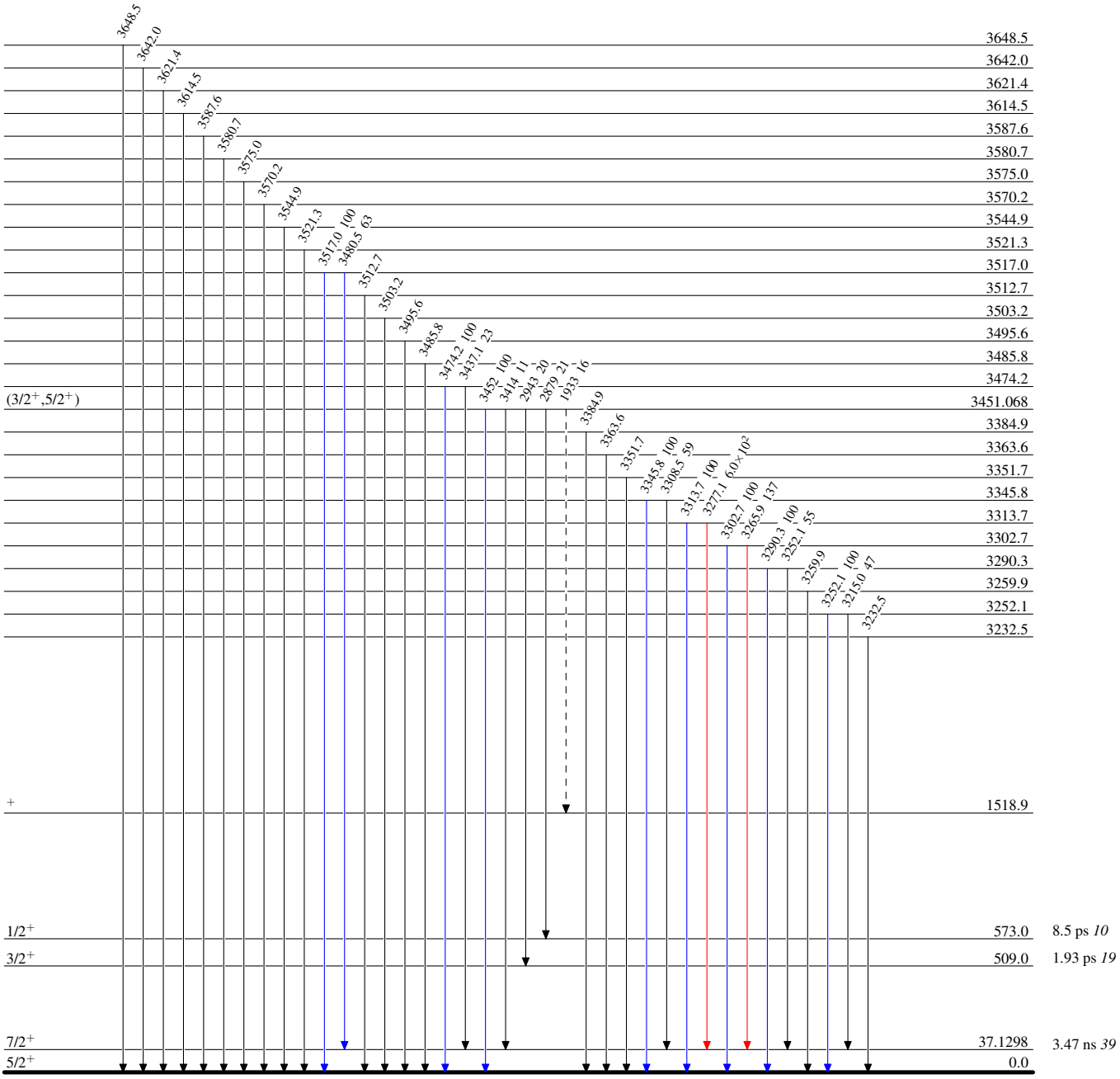
^{121}Sb(γ,γ') **1973Bo12,2002Br05**

Level Scheme (continued)

Intensities: Type not specified

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)



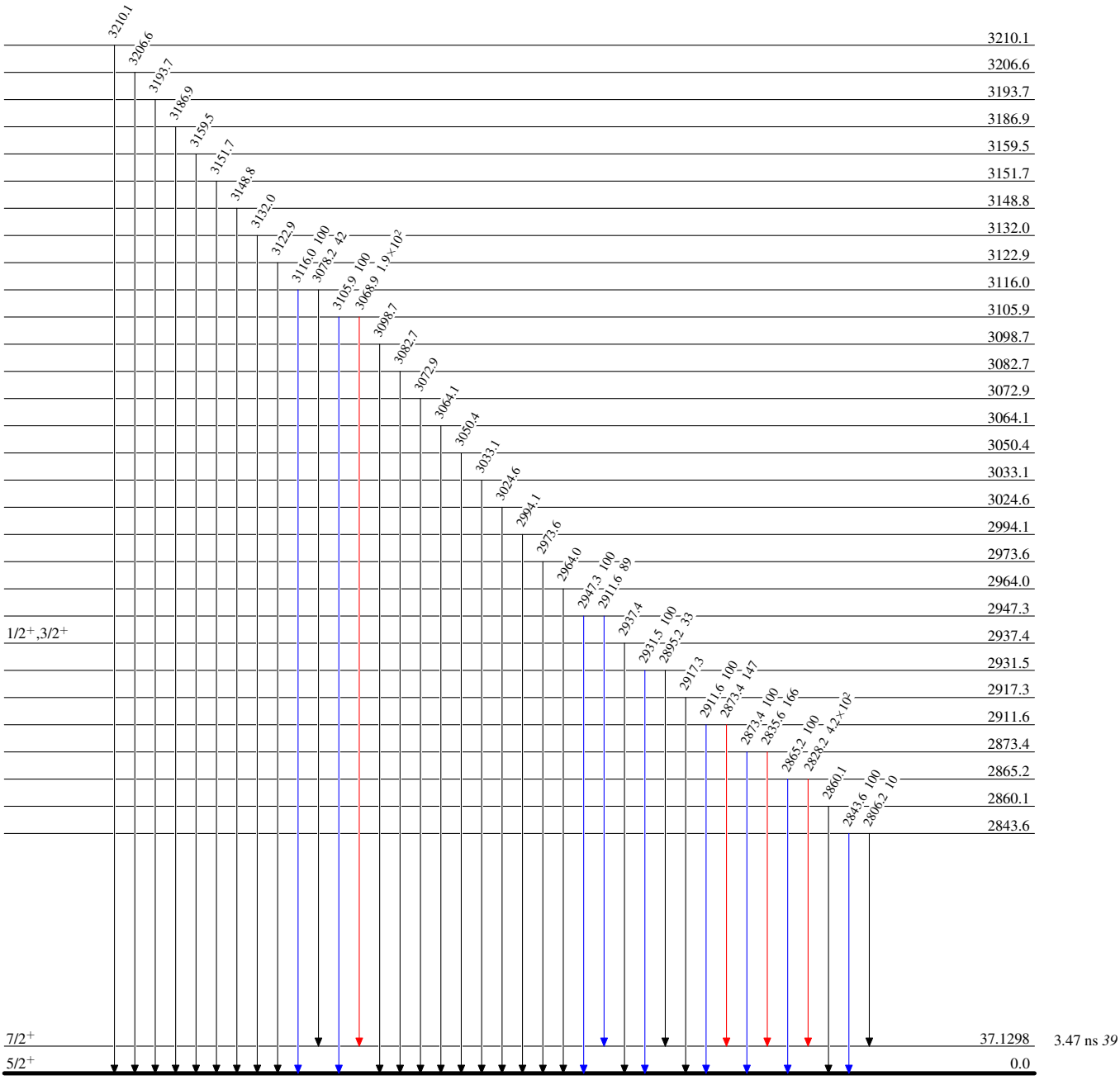
$^{121}_{51}Sb_{70}$

^{121}Sb(γ,γ′) 1973Bo12,2002Br05

Level Scheme (continued)

Intensities: Type not specified

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



$^{121}_{51}Sb_{70}$

^{121}Sb(γ,γ') 1973Bo12,2002Br05

Level Scheme (continued)

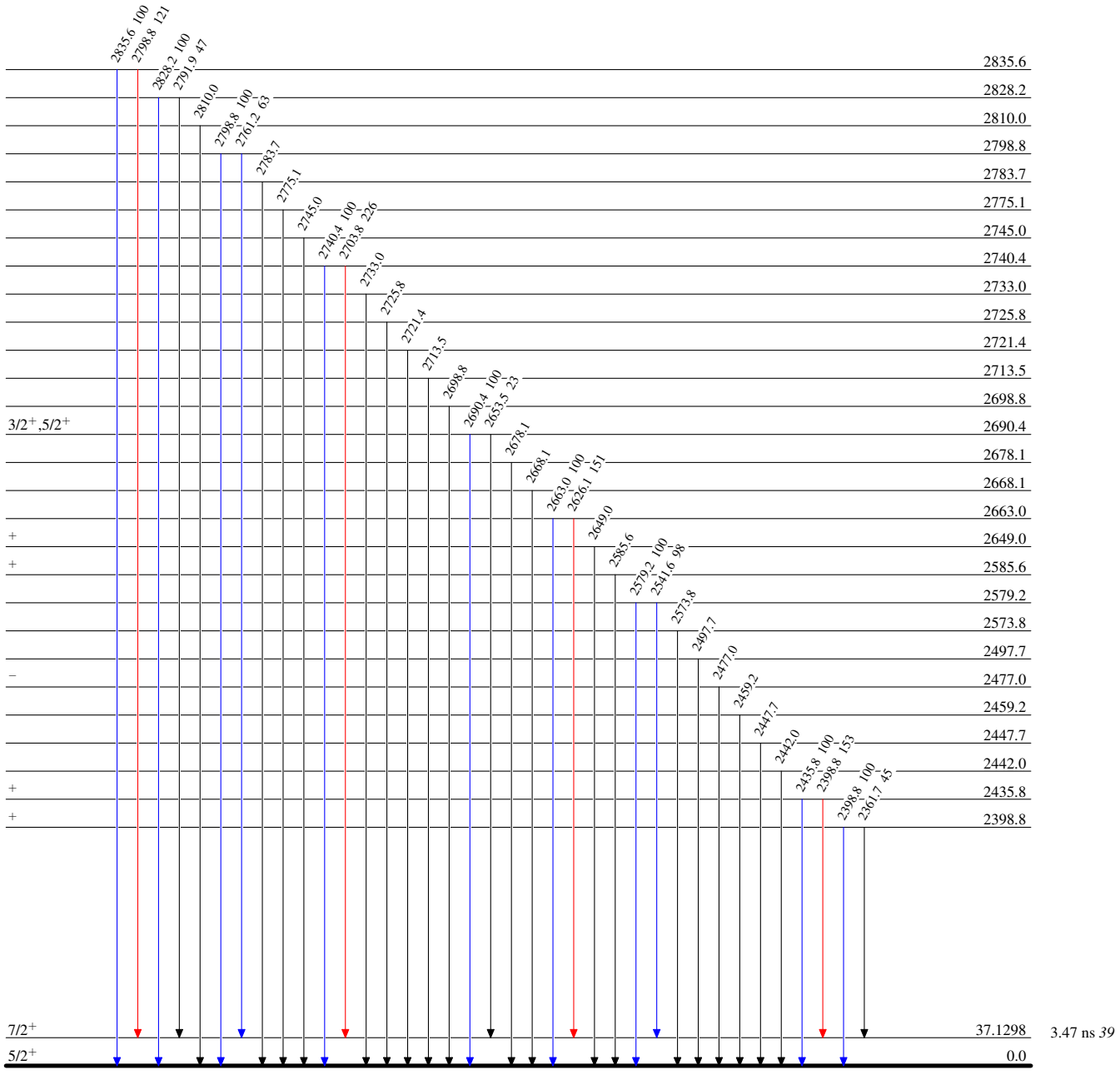
Intensities: Type not specified

Legend

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

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

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

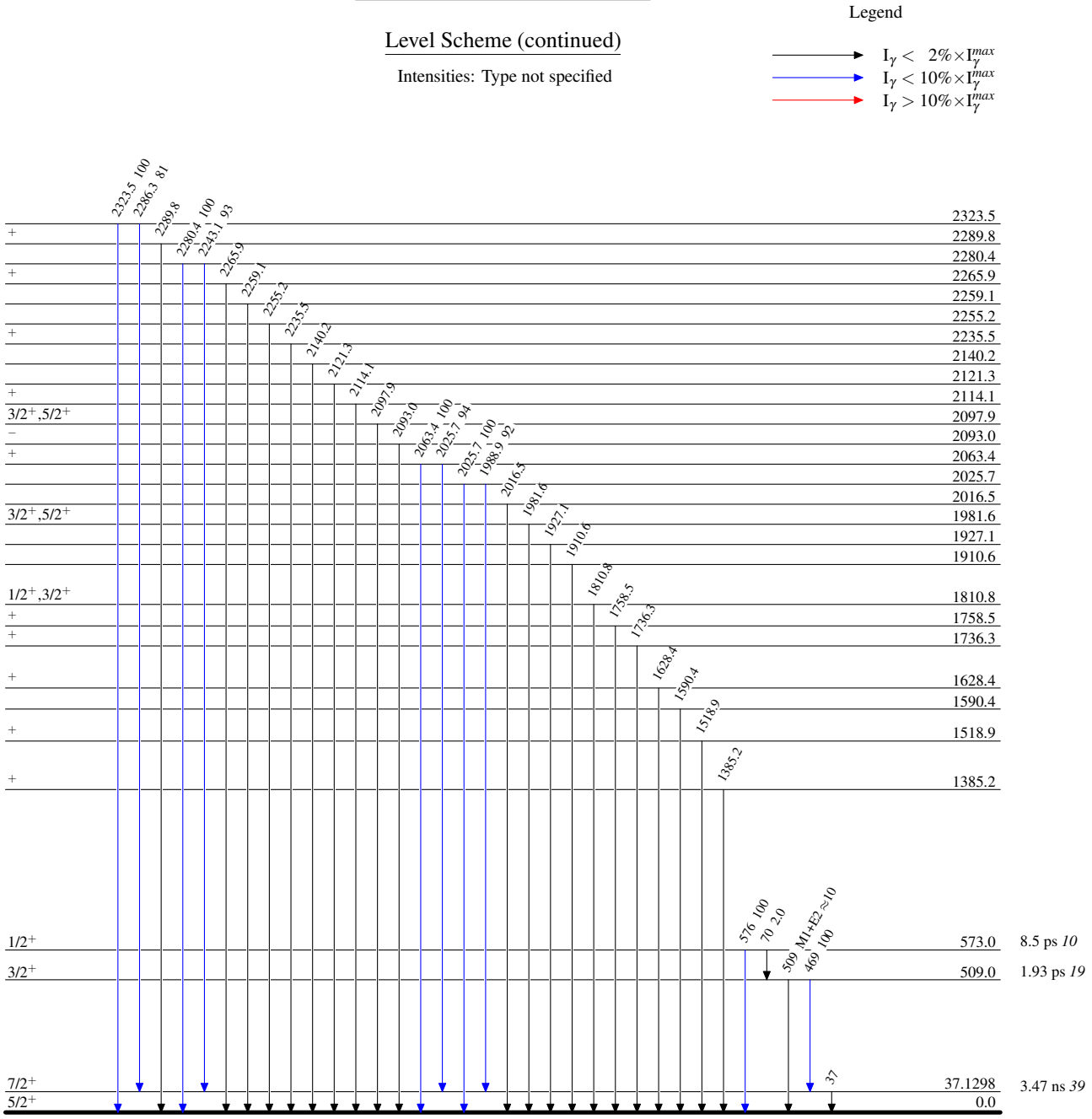


$^{121}_{51}Sb_{70}$

^{121}Sb(γ,γ') 1973Bo12,2002Br05

Level Scheme (continued)

Intensities: Type not specified



$^{121}_{51}Sb_{70}$