^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev	NDS 124, 157 (2015)	1-Aug-2014

1998La14: Facility: Stony Brook FN tandem/superconducting LINAC; Beam: E(^{12}C)=60 MeV; Target: thick target of natural rhodium; Detectors: six Compton-suppressed HPGe detectors and multiplicity filter comprising 14 BGO detectors; Measured: γ-γ, γ-γ(t), Eγ, Iγ, $\gamma\gamma(\theta)$; Deduced: DCO ratios, level scheme, band structures;

1998La14: Vivitron accelerator; Beam: E(^{31}P)=150 MeV; Target: two stacked self-supporting foils each with thickness of 440 μg/cm^2 and enriched to 97 % in ^{90}Zr; Detectors: EUROGAM-II multidetector array; Measured: γ-γ-γ, Eγ, Iγ; Deduced: Doppler corrections, DCO ratios, linear polarization, level scheme, band structures.

Other: 1996Si15; Facility: 15ud Pelletron Accelerator of the Nuclear Science Center, New Delhi; Beam: E(^{12}C)=75 MeV; Target: self-supporting,≈25 mg/cm^2; Detectors: nine Compton suppressed HPGe and a multiplicity filter comprising 14 BGO crystals; Measured: γ-γ, $\gamma(\theta)$, Eγ, Iγ; Deduced: level scheme, DCO ratios.

Also from the same collaboration: 1998LaZT.

1982Ma29: Facility: Stony Brook FN Tandem; Beam: E(^{12}C)= 50 MeV, pulsed. Pulse width FWHM = 5 ns and 2 μs repetition time; Target: 0.8 mg/cm^2 Rh foil; Detectors: NaI(Tl); Measured: γ, $\gamma(\theta$, t), Iγ, Eγ; Deduced: Q.

Other: 1983VaZM, 1983Se21.

^{112}Sb Levels

E(level)[†]	J$^\pi$[‡]	T$_{1/2}$	Comments
0.0	3$^+$		
103.90 *25*	4$^+$		
133.5 *3*	5$^+$		
167.1 *3*	4$^+$		
236.4 *4*	3$^+$		
370.1 *4*	6$^+$		
502.1 *3*	5$^+$		
826.7 *4*	8$^-$	536 ns *22*	T$_{1/2}$: from γ(t) in 1982Ma29. μ: +2.19 *4* (1976Ke07). Q: 0.071 *7* from $\gamma(\theta$,t) in 1982Ma29 (perturbed angular correlations technique). configuration: $\pi d_{5/2}\otimes\nu h_{11/2}$.
973.8 *4*	6$^+$		
1043.5 *4*	(8$^-$)		
1170.3 *5*			
1185.2 *5*	7$^{(+)}$		
1268.8 *4*	7$^-$		
1341.2 *4*			
1345.7 *4*	7$^+$		
1389.5 *4*	6$^+$		
1530.6 *4*	9$^-$		
1675.1 *4*	7$^-$		
1682.4 *5*	8$^+$		
1691.4 *5*	7$^+$		
1747.5[#] *4*	8$^-$		
1885.2 *4*	10$^-$		
1949.6[#] *4*	9$^-$		
2075.8 *4*	(9$^-$)		
2100.9 *6*	9$^{(+)}$		
2162.4 *6*	8$^{(+)}$		
2275.1[#] *4*	10$^-$		
2320.9 *5*	11$^+$		
2482.6 *5*	(12$^-$)		
2492.9 *5*			
2548.7 *5*	(11$^-$)		

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

^{112}Sb Levels (continued)

E(level)[†]	J$^{\pi}$[‡]
2570.8 *6*	$9^{(+)}$
2582.6 *11*	
2602.3 *5*	12^{-}
2629.0[#] *4*	11^{-}
2869.0 *5*	12^{-}
2908.9 *6*	
2988.4 *5*	12^{-}
3009.6[#] *5*	12^{-}
3082.9 *5*	12^{-}
3224.8 *6*	14^{-}
3296.5 *5*	(12^{-})
3380.9 *5*	13^{+}
3383.1 *5*	13^{-}
3402.3[#] *5*	13^{-}
3403.9 *5*	12^{+}
3489.9 *5*	12^{+}
3622.8 *6*	14^{-}
3687.5 *6*	$14^{(-)}$
3687.6 *6*	14^{-}
3726.4 *7*	
3731.6 *6*	
3748.1 *6*	(13^{-})
3794.9 *7*	
3809.2[#] *5*	14^{-}
3845.9 *6*	
4089.7 *6*	15^{+}
4090.1 *7*	(15^{-})
4122.1 *5*	14^{+}
4223.8 *6*	
4255.7[b] *6*	14^{-}
4261.3 *5*	15^{-}
4277.3 *6*	
4295.5[#] *5*	15^{-}
4321.0 *6*	15^{+}
4392.1 *7*	(16^{-})
4434.3[a] *6*	15^{+}
4676.5 *7*	(16^{+})
4798.6[#] *5*	16^{-}
4838.0[b] *6*	16^{-}
4864.8 *6*	(16^{+})
5161.9[a] *6*	17^{+}
5326.5[#] *6*	17^{-}
5644.5[b] *7*	18^{-}
5717.8 *8*	
5730.2 *7*	18^{+}
6003.1[a] *6*	19^{+}
6545.3[b] *8*	(20^{-})
6935.3[a] *7*	21^{+}
7536.1[b] *8*	(22^{-})
7938.2[a] *7*	(23^{+})
8616.7[b] *9*	(24^{-})
8997.2[a] *9*	(25^{+})

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

^{112}Sb Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	Comments
9785.0[b] 9	(26$^-$)	
10114.0[a] 9	(27$^+$)	
11042.0[b] 10	(28$^-$)	
11297.2[a] 9	(29$^+$)	
12394.4[b] 11	(30$^-$)	
12596.0[a] 10	(31$^+$)	
13840.3[b] 12	(32$^-$)	
14089.6[a] 10	(33$^+$)	
15388.5[b] 14	(34$^-$)	
15785.1[a] 10	(35$^+$)	
17054.5[b] 15	(36$^-$)	
17656.5[a] 12	(37$^+$)	
18865.7?[b] 18	(38$^-$)	
19703.2?[a] 15	(39$^+$)	
x[@]	(11$^-$)	Additional information 1.
x+561.0[@] 3	(13$^-$)	
x+1216.8[@] 5	(15$^-$)	
x+1960.5[@] 6	(17$^-$)	
x+2794.5[@] 7	(19$^-$)	
x+3718.4[@] 8	(21$^-$)	
x+4733.7[@] 8	(23$^-$)	
x+5842.6[@] 8	(25$^-$)	
x+7046.5[@] 9	(27$^-$)	
x+8346.3[@] 10	(29$^-$)	
x+9733.3[@] 10	(31$^-$)	
x+11202.0[@] 10	(33$^-$)	
x+12772.6[@] 11	(35$^-$)	
x+14480.6[@] 12	(37$^-$)	
x+16361.4[@] 14	(39$^-$)	
x+18439?[@] 17	(41$^-$)	
y[&]	(10$^+$)	Additional information 2.
y+378.09[&] 24	(11$^+$)	
y+709.4 11	(12$^+$)	
y+750.72[&] 24	(12$^+$)	
y+1077.6[&] 3	(13$^+$)	
y+1095.4 5	(13$^+$)	
y+1372.6[&] 4	(14$^+$)	
y+1690.5[&] 5	(15$^+$)	
y+2046.3[&] 5	(16$^+$)	
y+2438.0[&] 6	(17$^+$)	
y+2852.2[&] 7	(18$^+$)	
y+3217.2 7	(19$^+$)	
y+3284.7[&] 7	(19$^+$)	

[†] From a least-squares fit to Eγ.

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

^{112}Sb Levels (continued)

‡ From 1998La14.
# Band(A): ΔJ=1 band, based on the 8-, 1747.5-keV level; configuration=$\pi g_{9/2}^{-1}\otimes\nu h_{11/2}$.
@ Band(B): ΔJ=2 band, based on the (11$^-$) state.
& Band(C): ΔJ=1 band, based on the (10$^+$) state.
a Band(D): ΔJ=2 band, based on the 15$^+$ state.
b Band(E): ΔJ=2 band, based on the 14$^-$ state.

γ(^{112}Sb)

E$_\gamma$†	I$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.‡	Comments
(29.6)		133.5	5$^+$	103.90	4$^+$		E$_\gamma$: required from $\gamma\gamma$ data.
72.4 *3*	11.7 *4*	1747.5	8$^-$	1675.1	7$^-$	M1+E2	Mult.: DCO=0.97 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
103.9 *3*	45.2 *18*	103.90	4$^+$	0.0	3$^+$	M1+E2	Mult.: A$_2$=−0.30 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.61 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
132.5 *3*	1.37 *16*	236.4	3$^+$	103.90	4$^+$	M1+E2#	
133.5 *3*	1.68 *7*	133.5	5$^+$	0.0	3$^+$	E2	Mult.: A$_2$=0.18 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.47 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
161.8 *3*	2.90 *15*	2482.6	(12$^-$)	2320.9	11$^+$	(E1)	Mult.: DCO=0.67 *11* in ^{103}Rh(^{12}C,3nγ) (1998La14).
167.1 *3*	4.4 *15*	167.1	4$^+$	0.0	3$^+$	M1+E2	Mult.: A$_2$=−0.29 *4* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.98 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14).
196.5 *3*	1.18 *11*	1170.3		973.8	6$^+$		
199.3 *3*	2.22 *13*	2275.1	10$^-$	2075.8	(9$^-$)	(M1+E2)	Mult.: DCO=1.33 *24* in ^{103}Rh(^{12}C,3nγ) (1998La14).
202.2 *3*	66 *2*	1949.6	9$^-$	1747.5	8$^-$	M1+E2	Mult.: A$_2$=−0.15 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.86 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
216.8 *3*	4.4 *7*	1043.5	(8$^-$)	826.7	8$^-$	(M1+E2)	Mult.: DCO=1.52 *12* in ^{103}Rh(^{12}C,3nγ) (1998La14).
236.9 *3*	48.7 *16*	370.1	6$^+$	133.5	5$^+$	M1+E2	Mult.: A$_2$=−0.18 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.55 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14).
273.0 *10*	0.51 *9*	6003.1	19$^+$	5730.2	18$^+$	M1+E2	Mult.: DCO=0.50 *16* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=−0.3 *3*.
277.2 *3*	3.04 *16*	y+1372.6	(14$^+$)	y+1095.4	(13$^+$)	M1+E2	Mult.: DCO=0.68 *11* in ^{103}Rh(^{12}C,3nγ) (1998La14).
285.2 *3*	3.94 *16*	3687.5	14$^{(-)}$	3402.3	13$^-$	(M1+E2)	Mult.: DCO=0.86 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
294.9 *3*	16.1 *5*	y+1372.6	(14$^+$)	y+1077.6	(13$^+$)	M1+E2	Mult.: DCO=0.51 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
297.0 *3*	2.35 *13*	5161.9	17$^+$	4864.8	(16$^+$)	M1+E2	Mult.: DCO=0.57 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=−0.15 *20*.
302.0 *3*	1.28 *18*	4392.1	(16$^-$)	4090.1	(15$^-$)	(M1+E2)	Mult.: DCO=0.76 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
312.1 *3*	2.35 *15*	4434.3	15$^+$	4122.1	14$^+$	M1+E2	Mult.: DCO=0.33 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=0.5 *2*.
317.8 *3*	14.2 *5*	y+1690.5	(15$^+$)	y+1372.6	(14$^+$)	M1+E2	Mult.: A$_2$=−0.10 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.43 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
325.5 *3*	85 *3*	2275.1	10$^-$	1949.6	9$^-$	M1+E2	Mult.: A$_2$=−0.05 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.92 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14).
326.8 *3*	5.1 *2*	y+1077.6	(13$^+$)	y+750.72	(12$^+$)	M1+E2	Mult.: DCO=0.96 *4* in ^{103}Rh(^{12}C,3nγ) (1998La14).
335.0 *3*	8.1 *3*	502.1	5$^+$	167.1	4$^+$	M1+E2	Mult.: DCO=0.76 *4* in ^{103}Rh(^{12}C,3nγ) (1998La14).
353.9 *3*	71 *2*	2629.0	11$^-$	2275.1	10$^-$	M1+E2	Mult.: A$_2$=−0.06 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.91 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14).
355.2 *3*	4.9 *2*	1885.2	10$^-$	1530.6	9$^-$	M1+E2	Mult.: A$_2$=−0.03 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.40 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
355.8 *3*	12.7 *4*	y+2046.3	(16$^+$)	y+1690.5	(15$^+$)	M1+E2	Mult.: A$_2$=−0.03 *3* for 355.2+355.8+356.2γ in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.90 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
356.2 *3*	4.0 *4*	3845.9		3489.9	12$^+$	(D)	Mult.: A$_2$=−0.03 *3* for 355.2γ+355.8γ+356.2γ in ^{103}Rh(^{12}C,3nγ) (1998La14).

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

γ(^{112}Sb) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
358.9 *3*	10.6 *4*	2988.4	12^-	2629.0	11^-	M1+E2	Mult.: DCO=0.79 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
365.0 *3*	2.00 *11*	y+3217.2	(19^+)	y+2852.2	(18^+)	M1+E2	Mult.: DCO=1.10 *12* in ^{103}Rh(^{12}C,3nγ) (1998La14).
368.2 *10*	0.66 *5*	y+1077.6	(13^+)	y+709.4	(12^+)	(M1+E2)	Mult.: DCO=1.26 *25* in ^{103}Rh(^{12}C,3nγ) (1998La14).
372.6 *3*	5.5 *2*	y+750.72	(12^+)	y+378.09	(11^+)	M1+E2	Mult.: DCO=1.04 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
373.5 *3*	16.4 *5*	3383.1	13^-	3009.6	12^-	M1+E2	Mult.: DCO=0.89 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
378.2 *3*	6.0 *3*	y+378.09	(11^+)	y	(10^+)	M1+E2	Mult.: DCO=1.09 *17* in ^{103}Rh(^{12}C,3nγ) (1998La14).
380.6 *3*	48.8 *15*	3009.6	12^-	2629.0	11^-	M1+E2	Mult.: A_2=−0.13 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.95 *14* in ^{103}Rh(^{12}C,3nγ) (1998La14).
391.6 *3*	6.8 *3*	y+2438.0	(17^+)	y+2046.3	(16^+)	M1+E2	Mult.: DCO=0.54 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
392.4 *3*	25.2 *8*	3402.3	13^-	3009.6	12^-	M1+E2	Mult.: DCO=0.86 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14).
394.4 *3*	7.5 *3*	3383.1	13^-	2988.4	12^-	M1+E2	Mult.: DCO=0.61 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
398.2 *3*	19.2 *7*	502.1	5^+	103.90	4^+	M1+E2	Mult.: DCO=0.70 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14).
402.0 *3*	2.91 *13*	1747.5	8^-	1345.7	7^+	E1	Mult.: DCO=0.87 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
402.5 *3*	3.6 *2*	4090.1	(15^-)	3687.6	14^-	(M1+E2)	Mult.: DCO=0.28 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
406.2 *3*	4.0 *2*	1675.1	7^-	1268.8	7^-	M1+E2	Mult.: DCO(406.2+406.9)=1.14 *4* in ^{103}Rh(^{12}C,3nγ) (1998La14).
406.9 *3*	13.6 *4*	3809.2	14^-	3402.3	13^-	M1+E2	Mult.: DCO=1.14 *4* for 406.2+406.9γ in ^{103}Rh(^{12}C,3nγ) (1998La14).
414.2 *3*	7.6 *3*	y+2852.2	(18^+)	y+2438.0	(17^+)	M1+E2	Mult.: DCO=0.91 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
416.0 *3*	3.9 *2*	2908.9		2492.9			
418.5 *3*	3.17 *18*	2100.9	$9^{(+)}$	1682.4	8^+	(M1+E2)	Mult.: DCO=0.91 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
425.9 *3*	8.8 *3*	3809.2	14^-	3383.1	13^-	M1+E2	Mult.: DCO=0.46 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14).
432.5 *3*	3.15 *13*	y+3284.7	(19^+)	y+2852.2	(18^+)	M1+E2	Mult.: DCO=0.91 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
435.7 *3*	54.8 *18*	2320.9	11^+	1885.2	10^-	E1	Mult.: A_2=−0.25 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.49 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=+0.19 *7*.
441.9 *3*	24.9 *14*	1268.8	7^-	826.7	8^-	M1+E2	Mult.: DCO=0.94 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
451.9 *3*	6.3 *2*	4261.3	15^-	3809.2	14^-	M1+E2	Mult.: DCO=0.32 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
456.4 *3*	32.7 *10*	826.7	8^-	370.1	6^+	M2	Mult.: A_2=0.28 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.75 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
471.0 *3*	1.46 *15*	2162.4	$8^{(+)}$	1691.4	7^+	(M1+E2)	Mult.: DCO=0.84 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
471.7 *3*	25.0 *8*	973.8	6^+	502.1	5^+	M1+E2	Mult.: A_2=−0.17 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.77 *2* in ^{103}Rh(^{12}C,3nγ)(1998La14).
478.5 *3*	13.7 *5*	1747.5	8^-	1268.8	7^-	M1+E2	Mult.: A_2=−0.45 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.55 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14).
486.3 *3*	6.7 *2*	4295.5	15^-	3809.2	14^-	M1+E2	Mult.: DCO=0.78 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
501.6 *3*	3.17 *16*	3726.4		3224.8	14^-		
503.0 *3*	4.74 *18*	4798.6	16^-	4295.5	15^-	M1+E2	Mult.: DCO=0.87 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
511.8 *3*	9.9 *4*	3380.9	13^+	2869.0	12^-	E1	
513.9 *3*	7.2 *10*	1341.2		826.7	8^-		
527.7 *3*	2.9 *3*	2275.1	10^-	1747.5	8^-	E2[#]	
527.9 *3*	3.37 *18*	5326.5	17^-	4798.6	16^-	M1+E2	Mult.: DCO=0.75 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
537.0 *3*	2.02 *13*	4798.6	16^-	4261.3	15^-	M1+E2	Mult.: DCO=0.86 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
561.0 *3*	1.04 *13*	x+561.0	(13^-)	x	(11^-)	(E2)[#]	
570.1 *3*	1.93 *13*	3794.9		3224.8	14^-		
582.3 *3*	1.04 *9*	4838.0	16^-	4255.7	14^-	E2[#]	
586.8 *3*	4.4 *2*	4676.5	(16^+)	4089.7	15^+	(M1+E2)	Mult.: DCO=0.16 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
588.5 *3*	1.88 *13*	4434.3	15^+	3845.9			
597.5 *3*	10.2 *6*	2482.6	(12^-)	1885.2	10^-	(E2)	Mult.: DCO=1.24 *14* in ^{103}Rh(^{12}C,3nγ) (1998La14).
607.7 *3*	4.3 *5*	2492.9		1885.2	10^-		
607.9 *3*	1.48 *18*	1949.6	9^-	1341.2			
613.0 *10*	0.13 *11*	y+1690.5	(15^+)	y+1077.6	(13^+)	E2[#]	
613.2 *3*	1.9 *2*	3622.8	14^-	3009.6	12^-	E2	Mult.: DCO=1.51 *14* in ^{103}Rh(^{12}C,3nγ) (1998La14).
621.7 *10*	0.73 *11*	y+1372.6	(14^+)	y+750.72	(12^+)	E2[#]	

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

γ(^{112}Sb) (continued)

E_γ [†]	I_γ [†]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
622.6 *3*	9.9 *4*	3224.8	14^-	2602.3	12^-	E2	Mult.: DCO=1.01 *14* in ^{103}Rh(^{12}C,3nγ) (1998La14).
631.6 *3*	2.99 *15*	1675.1	7^-	1043.5	(8^-)	(M1+E2)	Mult.: DCO=0.94 *14* in ^{103}Rh(^{12}C,3nγ) (1998La14).
632.0 *3*	11.2 *4*	4122.1	14^+	3489.9	12^+	E2	Mult.: DCO=1.13 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
655.8 *4*	4.8 *3*	x+1216.8	(15^-)	x+561.0	(13^-)	(E2)[#]	Iγ(656)/Iγ(841.3)= 0.68 *10*.
664.0 *3*	2.7 *5*	2548.7	(11^-)	1885.2	10^-	(M1+E2)	Mult.: DCO=0.61 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
673.9 *3*	0.89 *11*	y+2046.3	(16^+)	y+1372.6	(14^+)	E2[#]	
679.1 *3*	10.0 *4*	2629.0	11^-	1949.6	9^-	E2	Mult.: DCO=1.71 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
699.7 *3*	1.11 *7*	y+1077.6	(13^+)	y+378.09	(11^+)	E2[#]	
701.3 *3*	18.4 *6*	1675.1	7^-	973.8	6^+	E1	Mult.: A_2=0.10 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.98 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
704.0 *3*	21.9 *13*	1530.6	9^-	826.7	8^-	M1+E2	Mult.: A_2=−0.58 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.39 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14).
708.8 *3*	16.5 *6*	4089.7	15^+	3380.9	13^+	E2	Mult.: DCO=1.07 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
717.1 *3*	10.6 *6*	2602.3	12^-	1885.2	10^-	E2	Mult.: DCO=0.92 *6* for 717.1+718.2γ in ^{103}Rh(^{12}C,3nγ) (1998La14).
718.2 *3*	5.1 *2*	4122.1	14^+	3403.9	12^+	E2	Mult.: DCO=0.92 *6* for 717.1+718.2γ in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=+0.12 *19*.
727.7 *3*	3.32 *16*	5161.9	17^+	4434.3	15^+	E2	Mult.: DCO=1.35 *18* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=+0.55 *10*.
734.6 *3*	9.2 *4*	3009.6	12^-	2275.1	10^-	E2	Mult.: DCO=1.51 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
742.6 *3*	11.6 *5*	4864.8	(16^+)	4122.1	14^+	E2	Mult.: DCO=1.00 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14) for 742.6+743.7γ; Pol=+0.21 *18*.
743.7 *3*	5.7 *3*	x+1960.5	(17^-)	x+1216.8	(15^-)	E2	Iγ(744)/Iγ(841.3)= 0.97 *6*. Mult.: DCO=1.00 *10* for 742.6+743.7γ in ^{103}Rh(^{12}C,3nγ) (1998La14).
747.6 *10*	0.71 *9*	y+2438.0	(17^+)	y+1690.5	(15^+)	E2[#]	
750.6 *3*	2.31 *11*	y+750.72	(12^+)	y	(10^+)	E2[#]	
754.3 *3*	6.1 *3*	3383.1	13^-	2629.0	11^-	E2	Mult.: DCO=1.39 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14).
761.9 *3*	2.1 *2*	3082.9	12^-	2320.9	11^+	E1	
773.5 *3*	6.0 *3*	3402.3	13^-	2629.0	11^-	E2	Mult.: DCO=1.55 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14).
799.7 *3*	6.9 *3*	3809.2	14^-	3009.6	12^-	E2	Mult.: DCO=1.43 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14).
806.5 *3*	4.7 *7*	5644.5	18^-	4838.0	16^-	E2	Iγ(806)/Iγ(841.3)= 0.66 *5*. Mult.: DCO=0.85 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
815.1 *3*	8.5 *4*	1185.2	$7^{(+)}$	370.1	6^+	(M1+E2)	Mult.: from DCO=0.44 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
818.6 *3*	9.2 *4*	3687.6	14^-	2869.0	12^-	E2	Mult.: DCO=1.14 *11* in ^{103}Rh(^{12}C,3nγ) (1998La14).
834.0 *3*	4.2 *2*	x+2794.5	(19^-)	x+1960.5	(17^-)	E2	Iγ(833)/Iγ(841.3)= 0.91 *6*. Mult.: DCO=0.93 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14).
841.2 *1*	6.1 *3*	6003.1	19^+	5161.9	17^+	E2	Mult.: DCO=0.98 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14), 0.97 *5* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol=+0.41 *8*.
842.9 *3*	5.4 *3*	4223.8		3380.9	13^+		
848.4 *3*	22.8 *8*	1675.1	7^-	826.7	8^-	M1+E2	Mult.: A_2=0.42 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.39 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
865.4 *3*	2.40 *16*	5730.2	18^+	4864.8	(16^+)	E2	Mult.: DCO=1.00 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=+0.2 *3*.
893.2 *3*	2.15 *15*	4295.5	15^-	3402.3	13^-	E2	Mult.: DCO=2.1 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
896.4 *3*	3.1 *2*	4277.3		3380.9	13^+		
900.8 *3*	3.08 *16*	6545.3	(20^-)	5644.5	18^-	(E2)	Iγ(901)/Iγ(841.3)= 0.76 *5*.
920.8 *3*	1.97 *13*	1747.5	8^-	826.7	8^-	M1+E2	Mult.: DCO=1.44 *17* in ^{103}Rh(^{12}C,3nγ) (1998La14).
923.9 *3*	1.64 *13*	x+3718.4	(21^-)	x+2794.5	(19^-)	(E2)[#]	Iγ(924)/Iγ(841.3)= 0.91 *6*.
932.2 *2*	3.26 *18*	6935.3	21^+	6003.1	19^+	E2	I_γ: Iγ(932)/Iγ(841.3)=0.96 *6* in ^{90}Zr(^{31}P,2αnγ)

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

γ(^{112}Sb) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
							(1998La14). Mult.: DCO=0.98 *16* in ^{103}Rh(^{12}C,3nγ) (1998La14), 1.21 *11* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol=+0.67 *11*.
940.1 *3*	12.0 *5*	4321.0	15^+	3380.9	13^+	E2	Mult.: DCO=1.09 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
976.0 *3*	4.4 *2*	1345.7	7^+	370.1	6^+	M1+E2	Mult.: DCO=0.56 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
983.8 *3*	28.1 *11*	2869.0	12^-	1885.2	10^-	E2	Mult.: A_2=0.41 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.97 *4* in ^{103}Rh(^{12}C,3nγ) (1998La14).
989.8 *3*	2.5 *2*	4798.6	16^-	3809.2	14^-	E2	Mult.: DCO=1.62 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14).
990.8 *3*	1.8 *9*	7536.1	(22^-)	6545.3	(20^-)	E2	Iγ(991)/Iγ(841.3)= 0.81 *5*. Mult.: DCO=0.91 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1002.9 *3*	1.11 *13*	7938.2	(23^+)	6935.3	21^+	E2	I_γ: Iγ(1003)/Iγ(841.3)=0.89 *8* in ^{90}Zr(^{31}P,2αnγ) (1998La14). Mult.: DCO=0.98 *7* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol=+0.52 *11*.
1007.4 *3*	6.2 *3*	3489.9	12^+	2482.6	(12^-)	(E1)	Mult.: DCO=1.08 *14* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1015.3 *3*	1.58 *13*	x+4733.7	(23^-)	x+3718.4	(21^-)	(E2)[#]	Iγ(1016)/Iγ(841.3)= 0.86 *5*.
1017.6 *3*	14.2 *6*	2548.7	(11^-)	1530.6	9^-	(E2)	Mult.: A_2=0.28 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1030.8 *10*	<0.15	5326.5	17^-	4295.5	15^-	E2	
1041.3 *3*	2.64 *16*	5717.8		4676.5	(16^+)		Mult.: DCO=0.79 *8* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1058.5 *3*	100	1885.2	10^-	826.7	8^-	E2	Mult.: A_2=0.40 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.01 *2* for 1058.5+1060.0 in ^{103}Rh(^{12}C,3nγ) (1998La14).
1059.0 *5*	5.3 *6*	8997.2	(25^+)	7938.2	(23^+)	E2	I_γ: from Iγ(1059)/Iγ(841.3)=0.87 *9* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Mult.: DCO=0.99 *5* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol(1059+1059+1060)=+0.46 *11*.
1060.0 *3*	43.1 *14*	3380.9	13^+	2320.9	11^+	E2	Mult.: A_2=0.40 *3* for 1058.5+1060.0γ in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.01 *2* for 1058.5+1060.0γ in ^{103}Rh(^{12}C,3nγ) (1998La14).
1080.6 *3*	0.20 *9*	8616.7	(24^-)	7536.1	(22^-)	(E2)	Iγ(1081)/Iγ(841.3)= 0.82 *5*.
1083.0 *3*	6.7 *3*	3403.9	12^+	2320.9	11^+	M1+E2	Mult.: DCO=0.54 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); Pol=−0.3 *3*.
1103.4 *3*	16.1 *8*	2988.4	12^-	1885.2	10^-	E2	Mult.: DCO=1.02 *7* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1108.9 *2*	4.9 *4*	x+5842.6	(25^-)	x+4733.7	(23^-)		I_γ: from Iγ(1109)/Iγ(841.3)=0.80 *6* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1116.8 *2*	4.9 *3*	10114.0	(27^+)	8997.2	(25^+)	E2	I_γ: from Iγ(1117)/Iγ(841.3)=0.81 *4* in ^{90}Zr(^{31}P,2αnγ) (1998La14). Mult.: DCO=1.27 *20* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol=+0.76 *18*.
1122.9 *3*	19.0 *6*	1949.6	9^-	826.7	8^-	M1+E2	Mult.: A_2=0.37 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.34 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1168.3 *3*		9785.0	(26^-)	8616.7	(24^-)		Iγ(1168)/Iγ(841.3)= 0.78 *6*.
1168.8 *3*	6.7 *3*	3489.9	12^+	2320.9	11^+	M1+E2	Mult.: DCO=0.47 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1183.2 *2*	5.3 *6*	11297.2	(29^+)	10114.0	(27^+)	E2	I_γ: from Iγ(1183)/Iγ(841.3)=0.58 *4* in ^{90}Zr(^{31}P,2αnγ) (1998La14). Mult.: DCO=1.2 *3* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol=+0.6 *3*.
1197.7 *3*	5.9 *5*	3082.9	12^-	1885.2	10^-	E2	Mult.: DCO=1.01 *12* for 1197.7+1199.4γ in ^{103}Rh(^{12}C,3nγ) (1998La14).
1199.4 *3*	1.8 *2*	3748.1	(13^-)	2548.7	(11^-)	(E2)	Mult.: DCO=1.01 *12* for 1197.7+1199.4γ in ^{103}Rh(^{12}C,3nγ) (1998La14).
1203.9 *3*	4.4 *4*	x+7046.5	(27^-)	x+5842.6	(25^-)		I_γ: Iγ(1204)/Iγ(841.3)=0.72 *5* in ^{90}Zr(^{31}P,2αnγ) (1998La14).

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

γ(^{112}Sb) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
1211.9 *3*	4.4 *3*	1345.7	7^+	133.5	5^+	E2	DCO=1.95 *16* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1238.7 *3*	1.5 *2*	3731.6		2492.9			
1249.1 *3*	4.1 *8*	2075.8	(9^-)	826.7	8^-	(M1+E2)	Mult.: DCO=0.32 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1257.0 *4*	3.9 *4*	11042.0	(28^-)	9785.0	(26^-)		I_γ: from Iγ(1257)/Iγ(841.3)=0.64 *5* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1285.6 *3*	2.3 *3*	1389.5	6^+	103.90	4^+	E2	Mult.: DCO=1.76 *21* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1298.8 *2*	2.99 *23*	12596.0	(31^+)	11297.2	(29^+)	E2	I_γ: from Iγ(1299)/Iγ(841.3)=0.49 *3* in ^{90}Zr(^{31}P,2αnγ) (1998La14). Mult.: DCO=1.06 *22* in ^{90}Zr(^{31}P,2αnγ) (1998La14); Pol=+0.3 *3*.
1299.8 *3*	4.1 *4*	x+8346.3	(29^-)	x+7046.5	(27^-)		I_γ: from Iγ(1300)/Iγ(841.3)=0.67 *5* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1312.3 *3*	6.1 *3*	1682.4	8^+	370.1	6^+	E2	Mult.: A_2=0.7 *3* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=2.05 *12* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1321.3 *3*	2.7 *2*	1691.4	7^+	370.1	6^+	M1+E2	Mult.: DCO=0.69 *6* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1352.4 *4*	2.1 *3*	12394.4	(30^-)	11042.0	(28^-)		I_γ: Iγ(1352)/Iγ(841.3)=0.35 *4* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1385.5 *3*	1.15 *13*	2570.8	$9^{(+)}$	1185.2	$7^{(+)}$	E2	Mult.: A_2=0.37 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=2.2 *4* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1387.0 *3*	3.7 *3*	x+9733.3	(31^-)	x+8346.3	(29^-)		I_γ: from Iγ(1387)/Iγ(841.3)=0.61 *4* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1397.3 *10*	0.86 *13*	2582.6		1185.2	$7^{(+)}$		A_2=0.47 *10* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.25 *13* in ^{103}Rh(^{12}C,3nγ) (1998La14);
1411.3 *3*	3.4 *4*	3296.5	(12^-)	1885.2	10^-	(E2)	Mult.: A_2=0.40 *9* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.0 *2* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1445.8 *5*	1.77 *20*	13840.3	(32^-)	12394.4	(30^-)		I_γ: Iγ(1446)/Iγ(841.3)=0.29 *3* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1468.6 *3*	2.26 *21*	x+11202.0	(33^-)	x+9733.3	(31^-)		I_γ: from Iγ(1469)/Iγ(841.3)=0.37 *3* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1493.6 *3*	1.95 *16*	14089.6	(33^+)	12596.0	(31^+)		I_γ: Iγ(1494)/Iγ(841.3)=0.32 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14). DCO=0.83 *27* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1548.2 *6*	1.53 *20*	15388.5	(34^-)	13840.3	(32^-)		I_γ: Iγ(1548)/Iγ(841.3)=0.25 *3* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1570.6 *4*	2.0 *21*	x+12772.6	(35^-)	x+11202.0	(33^-)		I_γ: from Iγ(1571)/Iγ(841.3)=0.33 *3* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1613.2 *3*	3.9 *2*	4838.0	16^-	3224.8	14^-	E2	Mult.: A_2=0.36 *5* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=1.01 *16* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1653.3 *3*	1.18 *16*	4255.7	14^-	2602.3	12^-	E2	Mult.: A_2=0.4 *1* in ^{103}Rh(^{12}C,3nγ) (1998La14); DCO=0.85 *18* in ^{103}Rh(^{12}C,3nγ) (1998La14).
1666.0 *7*	1.28 *14*	17054.5	(36^-)	15388.5	(34^-)		I_γ: from Iγ(1666)/Iγ(841.3)=0.21 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1695.5 *3*	1.59 *14*	15785.1	(35^+)	14089.6	(33^+)		I_γ: from Iγ(1695)/Iγ(841.3)=0.26 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1708.0 *5*	0.98 *13*	x+14480.6	(37^-)	x+12772.6	(35^-)		I_γ: from Iγ(1708)/Iγ(841.3)=0.16 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1810[@] *1*	0.85 *13*	18865.7?	(38^-)	17054.5	(36^-)		I_γ: from Iγ(1810)/Iγ(841.3)=0.14 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1871.3 *5*	0.98 *13*	17656.5	(37^+)	15785.1	(35^+)		I_γ: from Iγ(1871)/Iγ(841.3)=0.16 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
1880.8 *7*	0.67 *13*	x+16361.4	(39^-)	x+14480.6	(37^-)		I_γ: from Iγ(1881)/Iγ(841.3)=0.11 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).

Continued on next page (footnotes at end of table)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)

γ(^{112}Sb) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Comments
2047[@] *1*	0.37 *6*	19703.2?	(39^+)	17656.5	(37^+)	I_γ: from Iγ(2047)/Iγ(841.3)=0.06 *1* in ^{90}Zr(^{31}P,2αnγ) (1998La14).
2078 *1*	0.31 *12*	x+18439?	(41^-)	x+16361.4	(39^-)	I_γ: from Iγ(2078)/Iγ(841.3)=0.05 *2* in ^{90}Zr(^{31}P,2αnγ) (1998La14).

[†] From ^{103}Rh(^{12}C,3nγ) (1998La14), unless otherwise noted. $\Delta E\gamma$=0.3 keV for Iγ>1 and $\Delta E\gamma$=1 keV for Iγ<1, based on a general statement in 1998La14.
[‡] From ^{103}Rh(^{12}C,3nγ) (1998La14), based on the DCO ratios, polarization and the apparent band structures.
[#] Assignment made in ^{103}Rh(^{12}C,3nγ) (1998La14), but no DCO or A_2 values were given.
[@] Placement of transition in the level scheme is uncertain.

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

Level Scheme

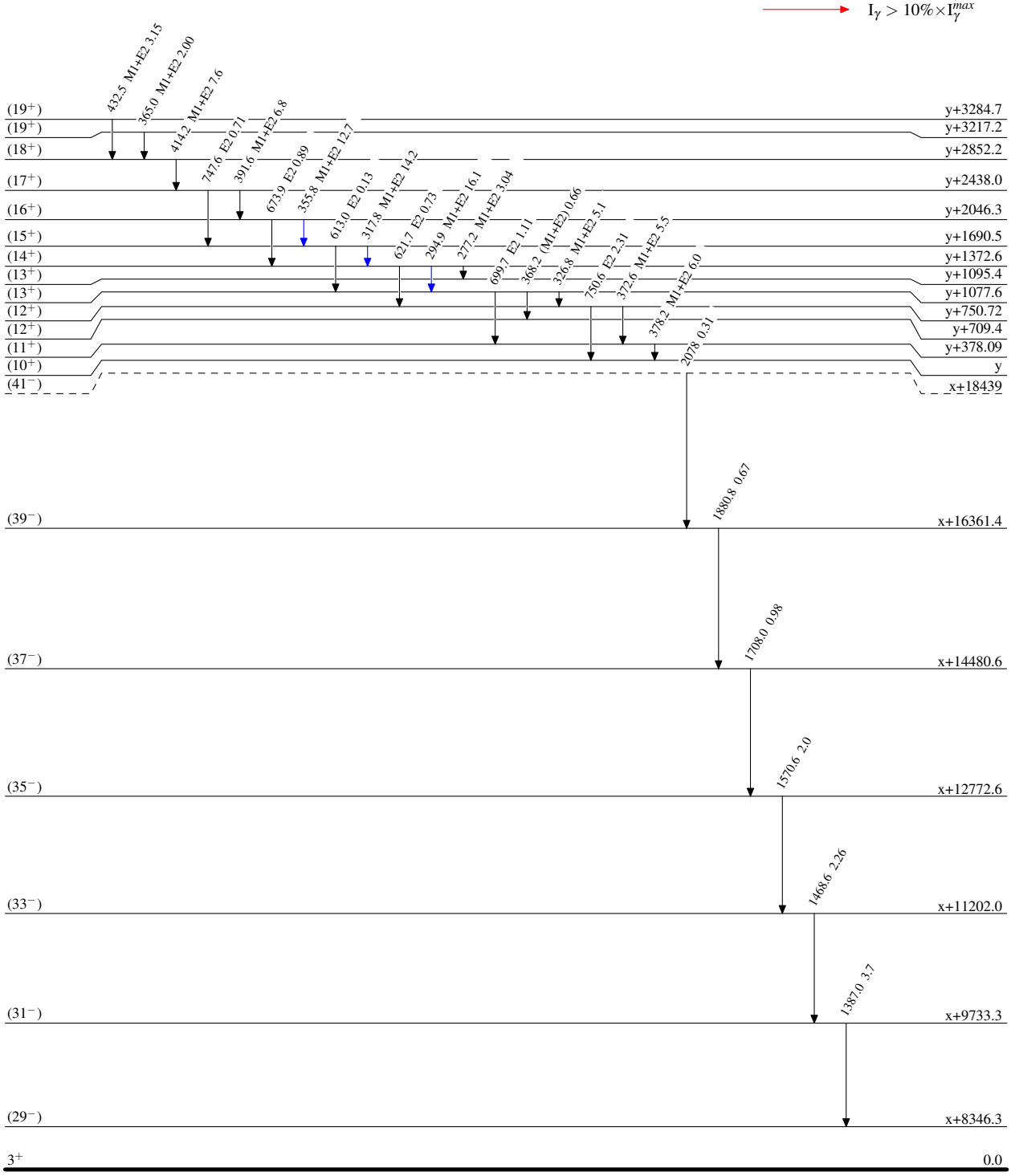
Intensities: Relative I_γ

Legend

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

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

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



$^{112}_{51}Sb_{61}$

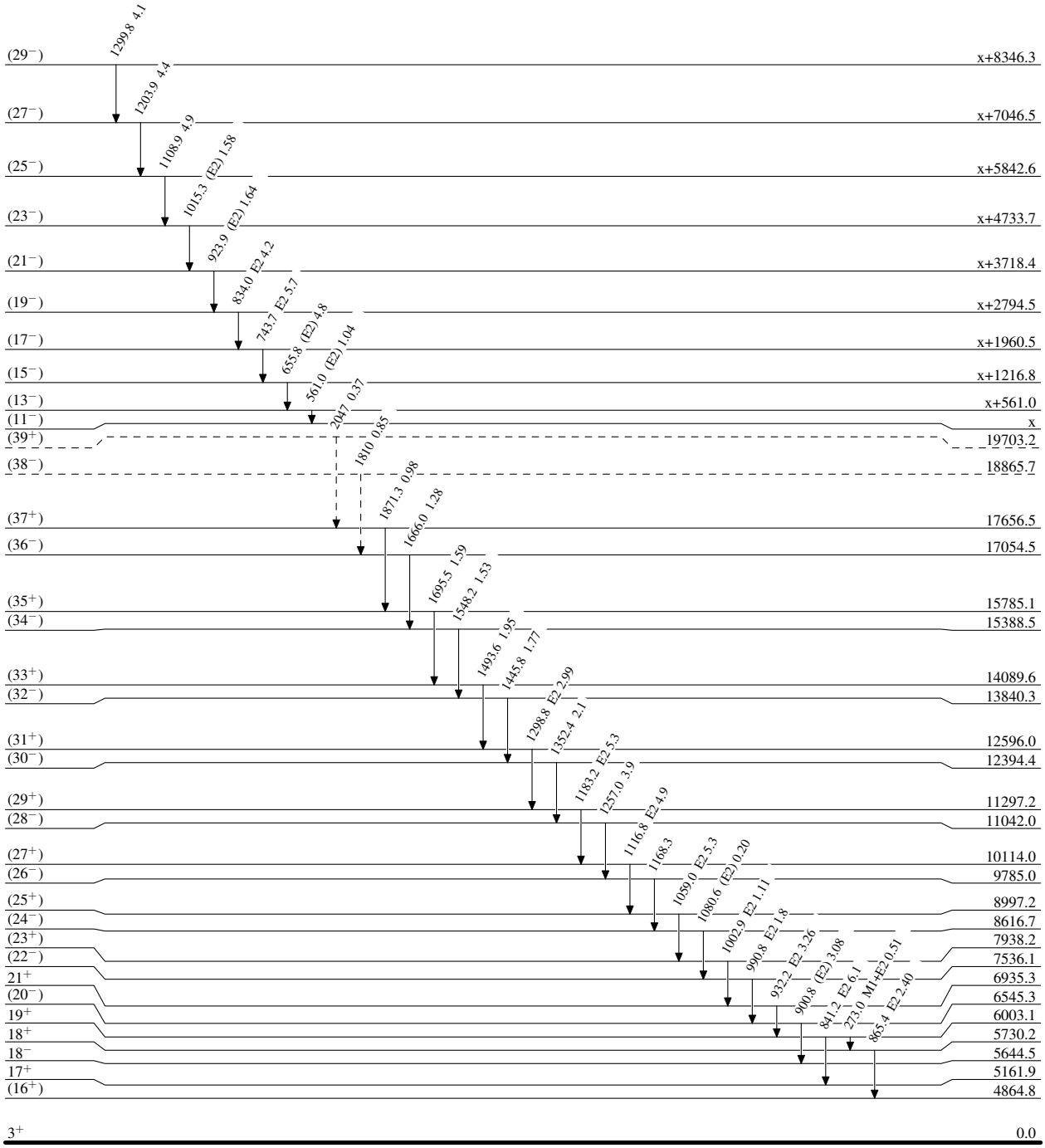
^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

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)

Level Scheme (continued)

Intensities: Relative I_γ



$^{112}_{51}Sb_{61}$

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

Level Scheme (continued)

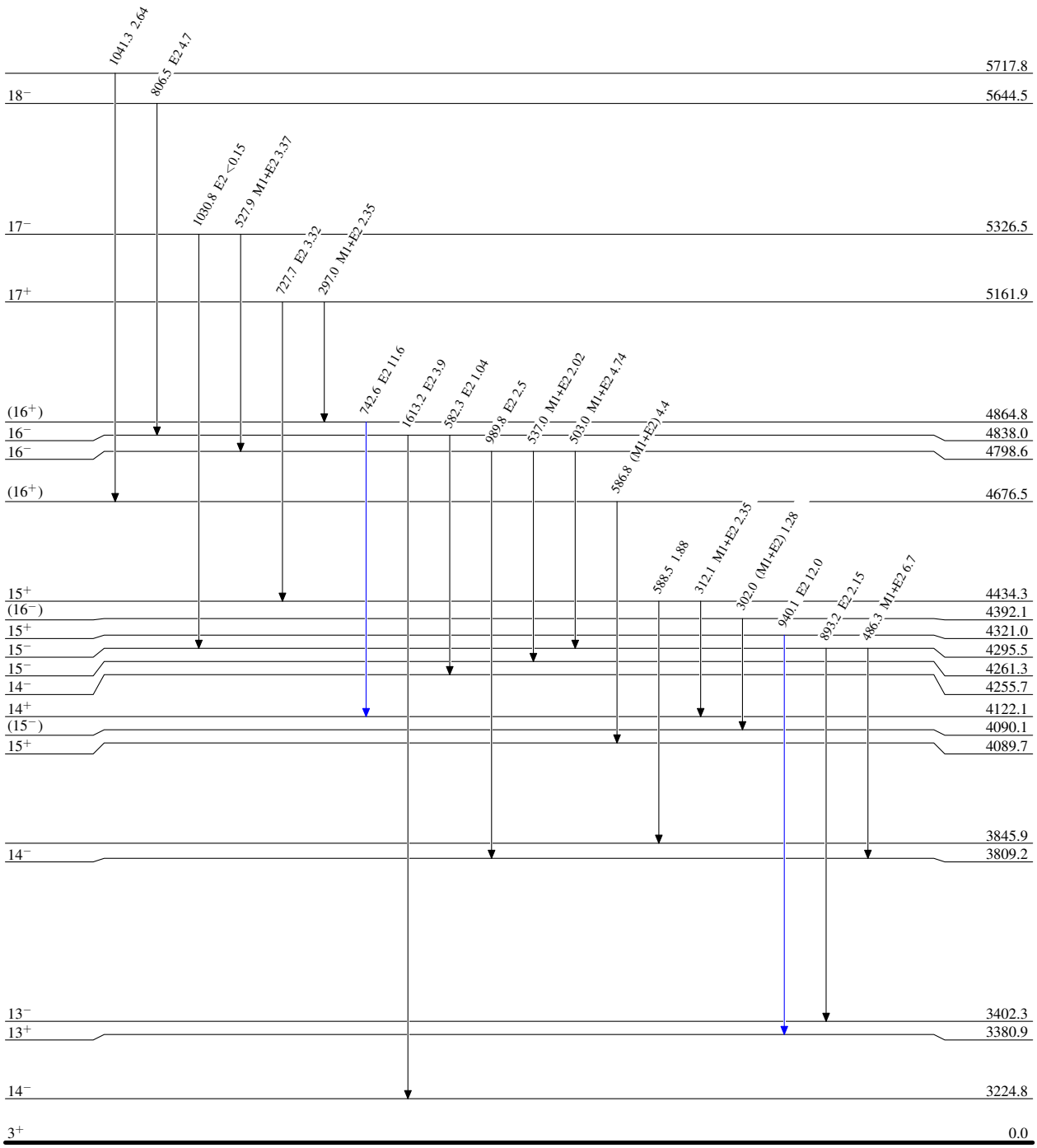
Intensities: Relative I_γ

Legend

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

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

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



$^{112}_{51}Sb_{61}$

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

Level Scheme (continued)

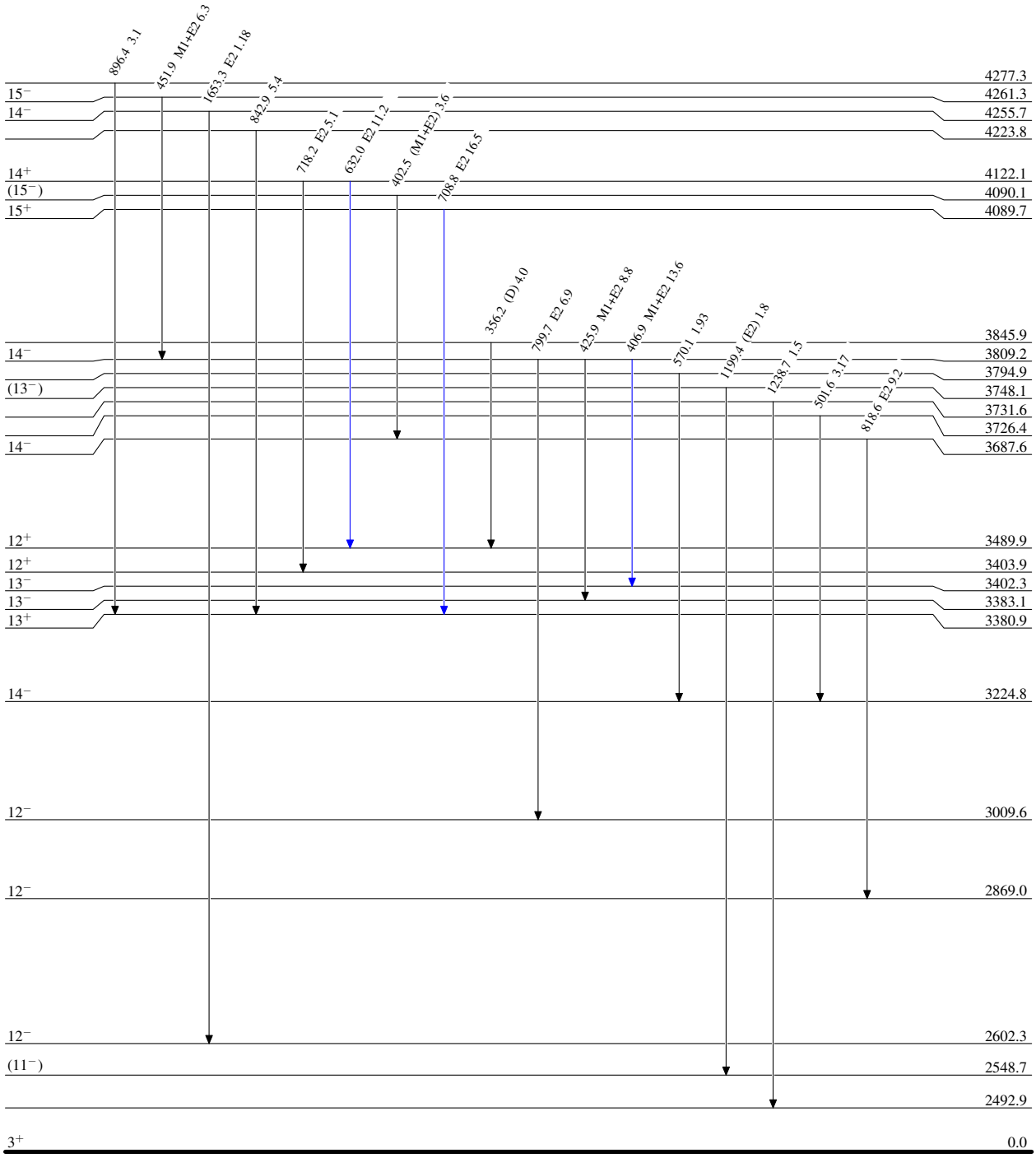
Intensities: Relative I_γ

Legend

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

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

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



$^{112}_{51}Sb_{61}$

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

Level Scheme (continued)

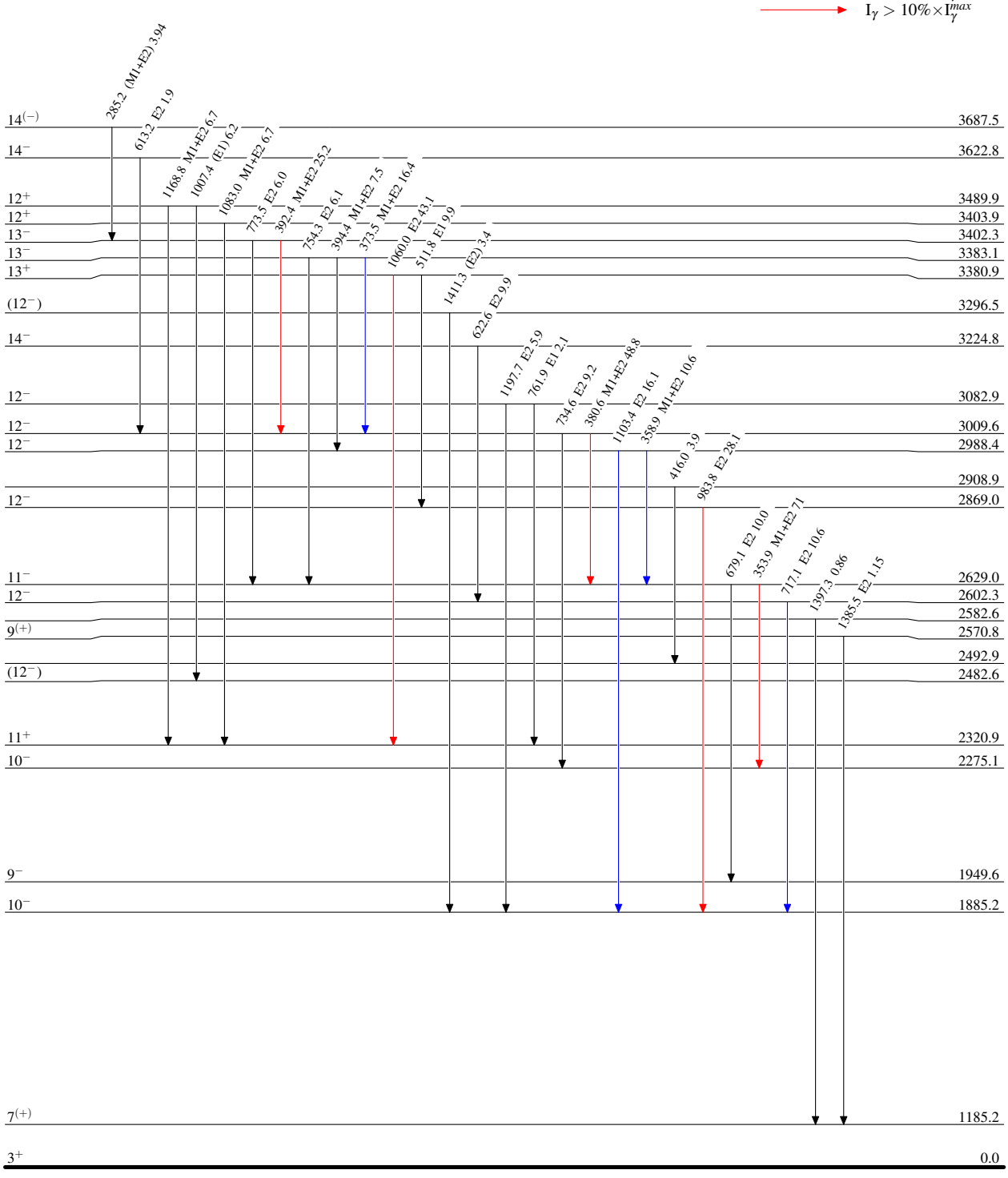
Intensities: Relative I_γ

Legend

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

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

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



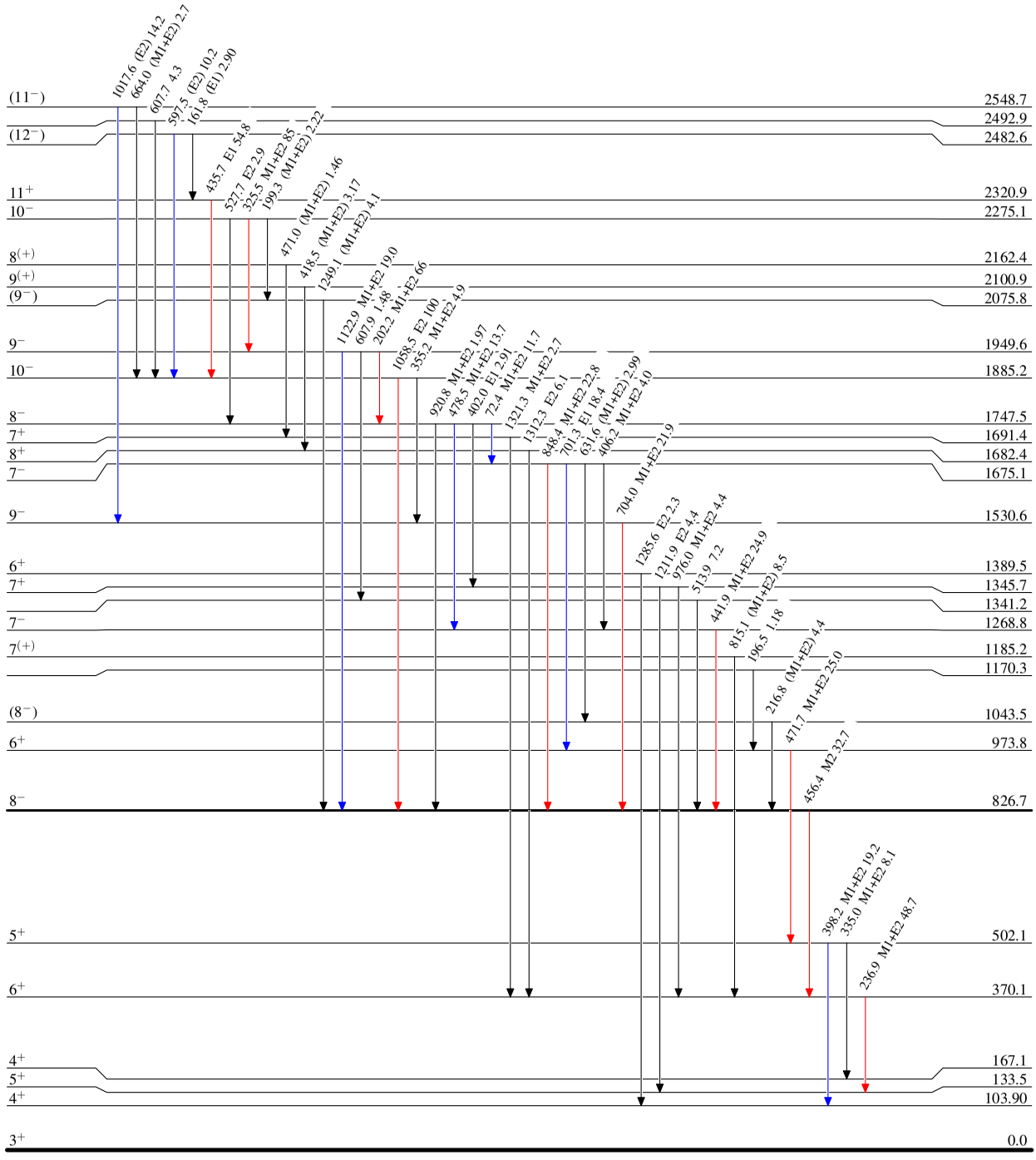
$^{112}_{51}Sb_{61}$

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

Level Scheme (continued)

Intensities: Relative I_γ

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

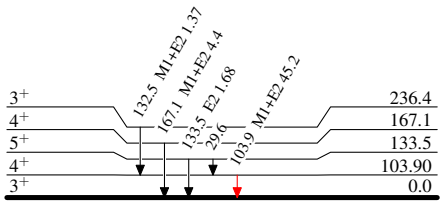


$^{112}_{51}Sb_{61}$

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29

Level Scheme (continued)

Intensities: Relative I_γ



$^{112}_{51}Sb_{61}$

Legend

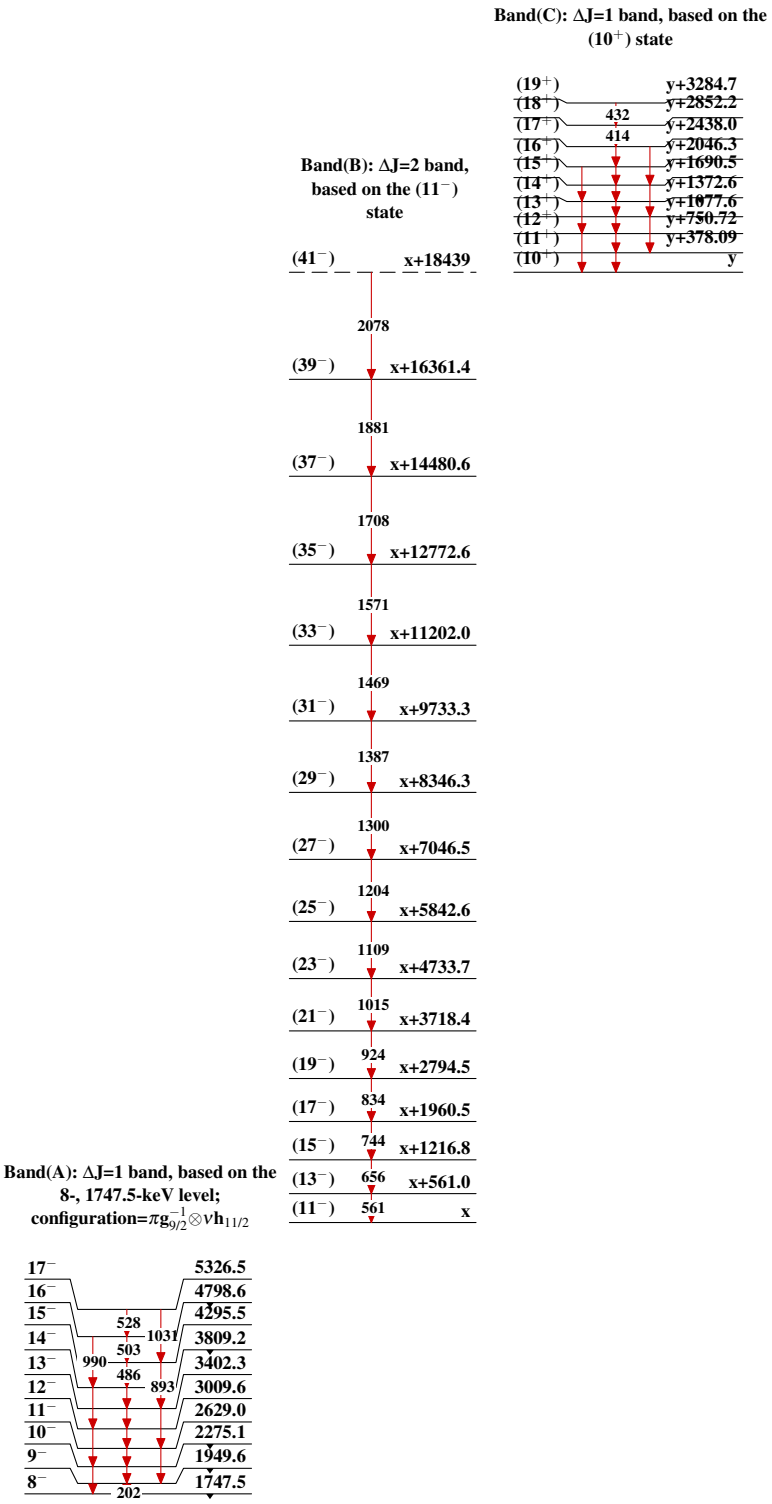
$I_\gamma < 2\% \times I_\gamma^{max}$

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

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

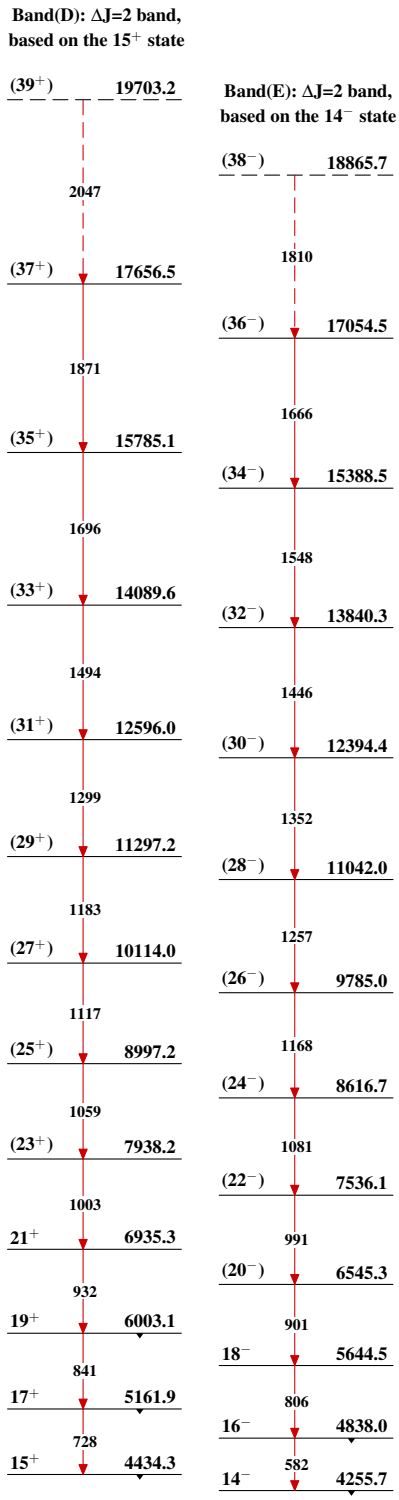
γ Decay (Uncertain)

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29



$^{112}_{51}Sb_{61}$

^{103}Rh(^{12}C,3nγ),^{90}Zr(^{31}P,2αnγ) 1998La14,1982Ma29 (continued)



$^{112}_{51}Sb_{61}$