$^{176}Yb(^{9}Be,5n\gamma)$ 1993YeZX,1993Wa11,2002Fa19

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

2002Fa19: E(^{9}Be)=65 MeV. Measured Eγ, Iγ for ground state band transitions using Compton-suppressed HPGe detectors and a fourteen element BGO filter.

1993YeZX, 1993Wa11: E(^{9}Be)=55 MeV. Measured Eγ, Iγ, $\gamma\gamma$, $\gamma(\theta)$, γ(t) using CAESAR array consisting of six Compton-suppressed HPGe detectors. 1993YeZX is the thesis providing a full description of the experiment whereas 1993Wa11 presents a subset of the results.

^{180}W Levels

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]
0.0[@]	0^+		2822.3[@]	14^+		4415.9[d]	18^-	
103.5[@]	2^+		2965.5[&]	13^+		4455.1[a]	18^-	
337.5[@]	4^+		3001.3[f]	(12^-)		4525	(19)	
688.2[@]	6^+		3041.7[a]	14^-		4553.5	(18^-)	
1006.3[b]	2^-	≈5.5 ns	3047.5[b]	13^-		4606.0[&]	19^+	
1082.5[b]	3^-		3175.8[&]	14^+		4627.8[g]	19^+	
1138.2[@]	8^+		3249.3[f]	(13^-)		4672.3[@]	20^+	
1184.9[b]	4^-		3264.0[c]	14^-		4710.6[e]	19^-	
1307.8[b]	5^-		3355.1	(14)		4761[b]	18^-	
1461.8[b]	6^-		3367.3[a]	15^-		4844.9?[a]	(19^-)	
1528.8[a]	8^-		3388.9	15^+	≈3.5 ns	4852.2[e]	20^-	
1624.1[b]	7^-		3410.8[b]	14^-		4856.6	(19^-)	
1640.1[f]	(5^-)		3412.0[@]	16^+		5023.9[g]	20^+	
1663.6[@]	10^+		3421.2[&]	15^+		5027[b]	19^-	
1725.2[a]	9^-		3528.2	(15)		5028.9?[d]	(20^-)	
1764.9[f]	(6^-)		3546.9[g]	16^+	≈4.2 ns	5094.8[&]	20^+	
1830.4[b]	8^-		3580.7	(15)		5128.2[e]	21^-	
1911.9[f]	(7^-)		3605.0	(15)		5177.8	(20^-)	
1944.7[a]	10^-		3657[b]	15^-		5339.3[&]	21^+	
2024.4[b]	9^-		3695.0[&]	16^+		5401[@]	22^+	
2083.3[f]	(8^-)		3696.9	(16)		5433.8[g]	21^+	
2132.3[&]	8^+		3712.2[a]	16^-		5453.7[e]	22^-	
2186.6[a]	11^-		3744.2	(15^-)		5518.1	(21^-)	
2234.9[@]	12^+		3846[f]	(15^-)		5745[b]	(21^-)	
2273.5[&]	9^+		3887.4[g]	17^+		5815.2[e]	23^-	
2274.6[f]	(9^-)		3897.2[d]	16^-		5858[g]	22^+	
2283.6[b]	10^-		3966.6[&]	17^+		5876.9	(22^-)	
2423.4[&]	10^+		4001.2	(16^-)		5974.9	(23^-)	<0.7 ns
2450.6[a]	12^-		4016.8[@]	18^+		6114.6	(23^-)	≈1.4 ns
2495.3[f]	(10^-)		4066[b]	16^-		6162?[&]	23^+	
2501.0[b]	11^-		4073.9[a]	17^-		6207.4[e]	24^-	
2588.6[&]	11^+		4147.0[d]	17^-		6211[@]	24^+	
2723.8[f]	(11^-)		4248.0[g]	18^+		6292?[g]	(23^+)	
2735.7[a]	13^-		4269.1	(17^-)		6303.8	(24^+)	<0.7 ns
2763.1[&]	12^+		4320[b]	17^-		6626.1[e]	25^-	
2812.9[b]	12^-		4338.9[&]	18^+		6733.8	(25^+)	

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^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19 (continued)

^{180}W Levels (continued)

E(level)[†]	J$^\pi$[‡]
7069.7[e]	26$^-$
7100[@]	26$^+$
7176.8	(26$^+$)
8066?[@]	(28$^+$)

[†] From a least-squares fit to Eγ, by evaluator.
[‡] As given in 1993YeZX.
[#] From centroid-shift analysis in 1993YeZX.
[@] Band(A): g.s. band.
[&] Band(B): K^π=8$^+$ band. Interpreted as a Fermi-aligned $i^2_{13/2}$ band with configuration (ν7/2[633])(ν9/2[624]).
[a] Band(C): K$^\pi$=8$^-$ band. (ν9/2[624)(ν7/2[514]) configuration.
[b] Band(D): K^π=2$^-$ band.
[c] K^π=14$^-$ bandhead. Four qp-isomer with configuration (ν9/2[624])(ν7/2[514])(π7/2[404])(π5/2[402]).
[d] Band(E): K^π=16$^-$ band.
[e] Band(F): K^π=19$^-$ band.
[f] Band(G): K^π=(5$^-$) band.
[g] Band(H): K^π=16$^+$ band.

γ(^{180}W)

E$_\gamma$[†]	I$_\gamma$[‡]	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.[#]	Iγ[a]	Comments
67		1528.8	8$^-$	1461.8	6$^-$			
76.1	12.6 *16*	1082.5	3$^-$	1006.3	2$^-$		8.9 *33*	
91.3	5.5 *10*	3355.1	(14)	3264.0	14$^-$	D+Q		Mult.: A$_2$/A$_0$=−0.96 *27*.
103.5	121 *19*	103.5	2$^+$	0.0	0$^+$		51.4 *17*	A$_2$/A$_0$=−0.15 *33*.
122.8	17.3 *20*	1307.8	5$^-$	1184.9	4$^-$	D+Q		Mult.: A$_2$/A$_0$=−1.04 *23*.
124.9	25 *4*	1764.9	(6$^-$)	1640.1	(5$^-$)			
125.0	84 *13*	3388.9	15$^+$	3264.0	14$^-$			
139.1	8.4 *8*	3744.2	(15$^-$)	3605.0	(15)			A$_2$/A$_0$=+0.15 *21*.
141.2	6.1 *5*	2273.5	9$^+$	2132.3	8$^+$	D+Q[&]		
141.6	10.8 *13*	4852.2	20$^-$	4710.6	19$^-$			
147.0	15.9 *17*	1911.9	(7$^-$)	1764.9	(6$^-$)	D+Q		Mult.: A$_2$/A$_0$=−0.69 *21*.
150.0	4.9 *6*	2423.4	10$^+$	2273.5	9$^+$	D+Q		Mult.: A$_2$/A$_0$=−0.23 *24*.
154.0	1.5 *5*	1461.8	6$^-$	1307.8	5$^-$			
158.0	33.5 *14*	3546.9	16$^+$	3388.9	15$^+$			A$_2$/A$_0$=+0.26 *18*.
159.7	6.7 *7*	5974.9	(23$^-$)	5815.2	23$^-$			A$_2$/A$_0$=−0.15 *23*.
162.0	1.6 *4*	1624.1	7$^-$	1461.8	6$^-$			
165.1	12.7 *6*	2588.6	11$^+$	2423.4	10$^+$	D+Q		Mult.: A$_2$/A$_0$=−0.92 *10*.
168.6	3.2 *6*	3696.9	(16)	3528.2	(15)			
171.3	5.8 *12*	2083.3	(8$^-$)	1911.9	(7$^-$)	D+Q		Mult.: A$_2$/A$_0$=−1.3 *3*.
173.2	7.1 *9*	3528.2	(15)	3355.1	(14)	D+Q		Mult.: A$_2$/A$_0$=−0.41 *8*.
174.5	1.6 *3*	2763.1	12$^+$	2588.6	11$^+$	D+Q[&]		
178.7	37.3	1184.9	4$^-$	1006.3	2$^-$	Q	8 *4*	Mult.: A$_2$/A$_0$=+0.12 *10*.
189.1		6303.8	(24$^+$)	6114.6	(23$^-$)			
191.4	10 *3*	2274.6	(9$^-$)	2083.3	(8$^-$)			
194.0	1.0 *5*	2024.4	9$^-$	1830.4	8$^-$			
196.3	197 *3*	1725.2	9$^-$	1528.8	8$^-$	D+Q	92 *6*	Mult.: A$_2$/A$_0$=−0.92 *2*.
202.2	8.6 *12*	2965.5	13$^+$	2763.1	12$^+$	D+Q		Mult.: A$_2$/A$_0$=−0.85 *22*.
206.0	1.0 *5*	1830.4	8$^-$	1624.1	7$^-$			

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^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19 (continued)

γ(^{180}W) (continued)

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	$I\gamma$[a]	Comments
216.0	7.4 *12*	3605.0	(15)	3388.9	15+			
219.2	86 *3*	1944.7	10−	1725.2	9−	D+Q	56.8 *24*	Mult.: A_2/A_0=−1.04 *6*.
221.0	2.6 *9*	2495.3	(10−)	2274.6	(9−)			
222.1		3264.0	14−	3041.7	14−		62 *3*	
225.2	70 *3*	1307.8	5−	1082.5	3−	Q		Mult.: A_2/A_0=0.15 *9*.
234.0	567 *17*	337.5	4+	103.5	2+	Q	433 *12*	Mult.: A_2/A_0=+0.18 *6*.
237.7	3.9 *8*	6114.6	(23−)	5876.9	(22−)			
241.9	68.5 *21*	2186.6	11−	1944.7	10−	D+Q	24 *4*	Mult.: A_2/A_0=−1.11 *6*.
245.7	1.0 *5*	3421.2	15+	3175.8	14+	D+Q[&]		
249.9	10 *6*	4147.0	17−	3897.2	16−			
257.1	14 *5*	4001.2	(16−)	3744.2	(15−)			
264.0		2450.6	12−	2186.6	11−			E_γ: included in Fig. 3.1 of 1993YeZX but not listed in author's Table 3.1.
264		3528.2	(15)	3264.0	14−			
267.7	10.0 *13*	4269.1	(17−)	4001.2	(16−)			
271.7[@d]		3966.6	17+	3695.0	16+	(D+Q)[&]		
271.8	17 *4*	1911.9	(7−)	1640.1	(5−)			
276.0	14.1 *16*	5128.2	21−	4852.2	20−			
276.8	68 *5*	4525	(19)	4248.0	18+			A_2/A_0=+0.23 *1*.
276.9	64 *5*	1461.8	6−	1184.9	4−		7.9 *20*	
284.3	27 *7*	4553.5	(18−)	4269.1	(17−)			A_2/A_0=−0.3 *5*.
285.0	12.8 *7*	2735.7	13−	2450.6	12−		48.1 *32*	
294.8	6.1 *11*	4710.6	19−	4415.9	18−			
298.4	3.2 *6*	3264.0	14−	2965.5	13+			
299.1		6114.6	(23−)	5815.2	23−			
303.2	7.6 *13*	4856.6	(19−)	4553.5	(18−)			
306.0	10.5 *6*	3041.7	14−	2735.7	13−		27.6 *17*	
308.0	1.8 *7*	3696.9	(16)	3388.9	15+			
315.4	1.9 *6*	2588.6	11+	2273.5	9+	Q[&]		
316.6		1624.1	7−	1307.8	5−			E_γ: included in Fig. 3.1 of 1993YeZX but not listed in author's Table 3.1.
316.7[b]	144[b] *8*	3580.7	(15)	3264.0	14−			
316.7[b]	144[b] *8*	3897.2	16−	3580.7	(15)			
318.3	25 *6*	2083.3	(8−)	1764.9	(6−)			
321.3	10.1 *17*	5177.8	(20−)	4856.6	(19−)			
325.5	10.6 *10*	5453.7	22−	5128.2	21−			
325.6	173 *4*	3367.3	15−	3041.7	14−			A_2/A_0=0.17 *4*.
328.9	9.7 *14*	6303.8	(24+)	5974.9	(23−)			A_2/A_0=−0.3 *3*.
332.2	22 *6*	1640.1	(5−)	1307.8	5−			A_2/A_0=−0.6 *5*.
339.6	3.0 *6*	2763.1	12+	2423.4	10+	Q[&]		
340.5	36 *3*	5518.1	(21−)	5177.8	(20−)			
340.6	59.2 *21*	3887.4	17+	3546.9	16+			
350.7	483 *13*	688.2	6+	337.5	4+	Q	544 *14*	Mult.: A_2/A_0=+0.19 *6*.
353.3[@d]		3175.8	14+	2822.3	14+			
355.3	24.6 *19*	3744.2	(15−)	3388.9	15+			
358.8	7.2 *12*	5876.9	(22−)	5518.1	(21−)			
360.7	35.2 *21*	4248.0	18+	3887.4	17+			A_2/A_0=+0.38 *12*.
361.5	17.3 *18*	5815.2	23−	5453.7	22−			
362.8	27 *6*	2274.6	(9−)	1911.9	(7−)			
368.9	54 *3*	1830.4	8−	1461.8	6−	Q		Mult.: A_2/A_0=+0.20 *10*.
376.9	31.3 *17*	2965.5	13+	2588.6	11+	Q		Mult.: A_2/A_0=+0.18 *13*.
379.6	11.3 *11*	4627.8	19+	4248.0	18+			A_2/A_0=+0.30 *24*.
390.6		1528.8	8−	1138.2	8+		660 *12*	
392.0		6207.4	24−	5815.2	23−			

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^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19 (continued)

γ(^{180}W) (continued)

Eγ[†]	Iγ[‡]	Ei(level)	J_i^π	E_f	J_f^π	Mult.[#]	Iγ[a]	Comments
396.3	9.6 *10*	5023.9	20+	4627.8	19+			A_2/A_0=+0.51 *18*. Iγ: evaluator assumes 9.6 *1* is a misprint.
400.2	76 *3*	2024.4	9−	1624.1	7−	Q		Mult.: A_2/A_0=+0.23 *9*.
409.9	6.7 *9*	5433.8	21+	5023.9	20+			A_2/A_0=+0.4 *3*.
411.8	24 *5*	2495.3	(10−)	2083.3	(8−)			
413.0	4.7 *7*	3175.8	14+	2763.1	12+	Q[&]		
415.9	80.5 *15*	1944.7	10−	1528.8	8−	Q	83 *5*	Mult.: A_2/A_0=+0.25 *4*.
418.5	6.1 *10*	6626.1	25−	6207.4	24−			A_2/A_0=+0.5 *4*.
423.9	12 *3*	5858	22+	5433.8	21+			
430.0		6733.8	(25+)	6303.8	(24+)			
433.0	15 *3*	3696.9	(16)	3264.0	14−			
433[d]		6292?	(23+)	5858	22+			
435		4147.0	17−	3712.2	16−			
443.0	3.2 *8*	7176.8	(26+)	6733.8	(25+)			
443.6		7069.7	26−	6626.1	25−			
449.2	37 *5*	2723.8	(11−)	2274.6	(9−)			
450.0[c]	437[c] *12*	1138.2	8+	688.2	6+	Q	554 *18*	Mult.: A_2/A_0=+0.19 *6*.
450.0[c]	24.3[c] *25*	4147.0	17−	3696.9	(16)			
453.2	76 *15*	2283.6	10−	1830.4	8−	(Q)		Mult.: A_2/A_0=+0.4 *4*.
455.2	19 *5*	1640.1	(5−)	1184.9	4−			
455.4	15.7 *17*	3421.2	15+	2965.5	13+	Q[&]		
461.4	86 *5*	2186.6	11−	1725.2	9−	(Q)	69 *8*	Mult.: A_2/A_0=+0.07 *11*.
476.6	53.7 *11*	2501.0	11−	2024.4	9−	Q		Mult.: A_2/A_0=+0.22 *4*.
505.9	86.2 *21*	2450.6	12−	1944.7	10−	Q	142 *8*	Mult.: A_2/A_0=+0.21 *5*.
506.0	16 *5*	3001.3	(12−)	2495.3	(10−)			
518.9	7.5 *16*	4415.9	18−	3897.2	16−			
519.0	3.0 *6*	3695.0	16+	3175.8	14+	Q[&]		
524.9	4.0 *6*	4269.1	(17−)	3744.2	(15−)			
525.5[c]	276[c] *13*	1663.6	10+	1138.2	8+	Q		Mult.: A_2/A_0=+0.22 *11*.
525.5[c]	17[c] *6*	3249.3	(13−)	2723.8	(11−)			
528.3	17.7 *13*	2763.1	12+	2234.9	12+			
529.3	28 *3*	2812.9	12−	2283.6	10−	(Q)		Mult.: A_2/A_0=+0.10 *24*.
542[d]		4147.0	17−	3605.0	(15)			
545.4	12.2 *20*	3966.6	17+	3421.2	15+	(Q)		Mult.: A_2/A_0=−0.2 *6*.
546.5	27.8 *1*	3047.5	13−	2501.0	11−	Q		Mult.: A_2/A_0=+0.7 *3*.
548.7	1.0 *5*	2273.5	9+	1725.2	9−			
549.1	81.8 *17*	2735.7	13−	2186.6	11−	Q	86 *5*	Mult.: A_2/A_0=+0.21 *6*.
552.5	3.4 *10*	4553.5	(18−)	4001.2	(16−)			
563.6	32 *3*	4710.6	19−	4147.0	17−			
565.9	7.0 *23*	4147.0	17−	3580.7	(15)			
571.4	186 *5*	2234.9	12+	1663.6	10+	Q		Mult.: A_2/A_0=+0.23 *6*.
587.3	2.3 *9*	4856.6	(19−)	4269.1	(17−)			
587.4	117 *6*	2822.3	14+	2234.9	12+	Q		Mult.: A_2/A_0=+0.36 *3*.
589.7	65 *3*	3412.0	16+	2822.3	14+	Q		Mult.: A_2/A_0=+0.37 *11*.
591.2	51.1 *24*	3041.7	14−	2450.6	12−	Q	138 *9*	Mult.: A_2/A_0=+0.11 *10*.
597.0	11 *7*	3846	(15−)	3249.3	(13−)			
597.9	19 *3*	3410.8	14−	2812.9	12−			
601.4	2.2 *4*	5453.7	22−	4852.2	20−			
603.4[@d]		2132.3	8+	1528.8	8−			
604.8	34.2 *18*	4016.8	18+	3412.0	16+	(Q)		Mult.: A_2/A_0=−0.17 *11*.
609.2	10.7 *22*	3657	15−	3047.5	13−	Q		Mult.: A_2/A_0=+0.33 *22*.
613[d]		5028.9?	(20−)	4415.9	18−			
624.3	3.0 *13*	5177.8	(20−)	4553.5	(18−)			
631.7	45 *3*	3367.3	15−	2735.7	13−	Q		Mult.: A_2/A_0=+0.20 *13*.

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^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19 (continued)

γ(^{180}W) (continued)

E_γ[†]	I_γ[‡]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[#]	$I\gamma$[a]	Comments
639.4	3.7 *7*	4606.0	19+	3966.6	17+	Q[&]		
643.5	1.5 *6*	2588.6	11+	1944.7	10−			
643.9	3.1 *6*	4338.9	18+	3695.0	16+	Q[&]		
655.0	7 *5*	4066	16−	3410.8	14−			
655.5	17 *5*	4672.3	20+	4016.8	18+	Q		Mult.: A_2/A_0=+0.26 *7*.
661.2		6114.6	(23−)	5453.7	22−			
661.4	2.8 *9*	5518.1	(21−)	4856.6	(19−)			
663.7	4.1 *26*	4320	17−	3657	15−			
670.5	30.3 *16*	3712.2	16−	3041.7	14−	Q		Mult.: A_2/A_0=+0.21 *11*.
687.0	6.4 *9*	5815.2	23−	5128.2	21−	Q		Mult.: A_2/A_0=+0.5 *3*.
695.0	5.9 *22*	4761	18−	4066	16−			
698.2	2.4 *3*	2423.4	10+	1725.2	9−			
699.1	5.2 *8*	5876.9	(22−)	5177.8	(20−)			
700.9	6.7 *17*	4248.0	18+	3546.9	16+			
703.6	3.1 *4*	4415.9	18−	3712.2	16−			
706.6	5.7 *5*	4073.9	17−	3367.3	15−			
707.0	3.1 *8*	5027	19−	4320	17−			
718[d]		5745	(21−)	5027	19−			
728.9	5.4 *2*	5401	22+	4672.3	20+			
733.2	1.9 *4*	5339.3	21+	4606.0	19+	Q[&]		
740.5	8.2 *8*	4627.8	19+	3887.4	17+			
742.9	1.1 *3*	4455.1	18−	3712.2	16−			
745[d]		1082.5	3−	337.5	4+			
753.5		6207.4	24−	5453.7	22−			
755.9	1.5 *5*	5094.8	20+	4338.9	18+	Q[&]		
759.7	10.5 *6*	2423.4	10+	1663.6	10+			A_2/A_0=+0.09 *12*.
771.0[d]	3.2 *8*	4844.9?	(19−)	4073.9	17−			A_2/A_0=−0.2 *5*.
776.0	7.5 *16*	5023.9	20+	4248.0	18+	(Q)		Mult.: A_2/A_0=+0.5 *5*.
779.7	1.8 *2*	4147.0	17−	3367.3	15−			
805.6	5.8 *16*	5433.8	21+	4627.8	19+			
809.5	5.5 *5*	6211	24+	5401	22+			A_2/A_0=0.003 *20*.
811.1		6626.1	25−	5815.2	23−			
813.4		3264.0	14−	2450.6	12−		94 *5*	
823.0[@d]		6162?	23+	5339.3	21+			
835[d]		5858	22+	5023.9	20+			
846.8		5974.9	(23−)	5128.2	21−			
858[d]		6292?	(23+)	5433.8	21+			
862.3	1.0 *5*	7069.7	26−	6207.4	24−			
872.8	2.9 *6*	3695.0	16+	2822.3	14+			
873.1		7176.8	(26+)	6303.8	(24+)			
889.5	1.8 *2*	7100	26+	6211	24+			
902.8	89 *7*	1006.3	2−	103.5	2+		8 *4*	
926.8[@d]		4338.9	18+	3412.0	16+			
940.9	11.7 *6*	3175.8	14+	2234.9	12+	Q		Mult.: A_2/A_0=+0.34 *11*.
966[d]		8066?	(28+)	7100	26+			
986.4		6114.6	(23−)	5128.2	21−			
994.1	5.4 *9*	2132.3	8+	1138.2	8+			A_2/A_0=+0.0 *4*.
1099.6	7.1 *18*	2763.1	12+	1663.6	10+	(Q)		Mult.: A_2/A_0=+0.7 *5*.
1285.2	7.4 *13*	2423.4	10+	1138.2	8+			A_2/A_0=−0.2 *3*.

[†] From 1993YeZX, except where noted.

Continued on next page (footnotes at end of table)

^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19 (continued)

γ(^{180}W) (continued)

‡ Prompt Iγ from 1993YeZX. Measured during beam bursts (≈40 ns) and normalized to the total intensity (prompt and delayed) of the 234γ, Iγ(234γ)(prompt+delayed)=1000.

From $\gamma(\theta)$ in 1993YeZX, except where noted. A_2/A_0 values are included in the comments.

@ From 1993Wa11.

& From 1993Wa11. Authors state that for the band built on the 2132-keV, 8^+ level, the cascade transitions are D/Q in character and the crossover transitions are Q in character based on their angular distribution analysis. However, no details are given apart from the A_2 coefficients for a few sample transitions.

[a] Delayed Iγ from 1993YeZX. Measured between beam bursts (≈40 ns) and normalized to the total intensity (prompt and delayed) of the 234γ, Iγ(234γ)(prompt+delayed)=1000.

[b] Multiply placed with undivided intensity.

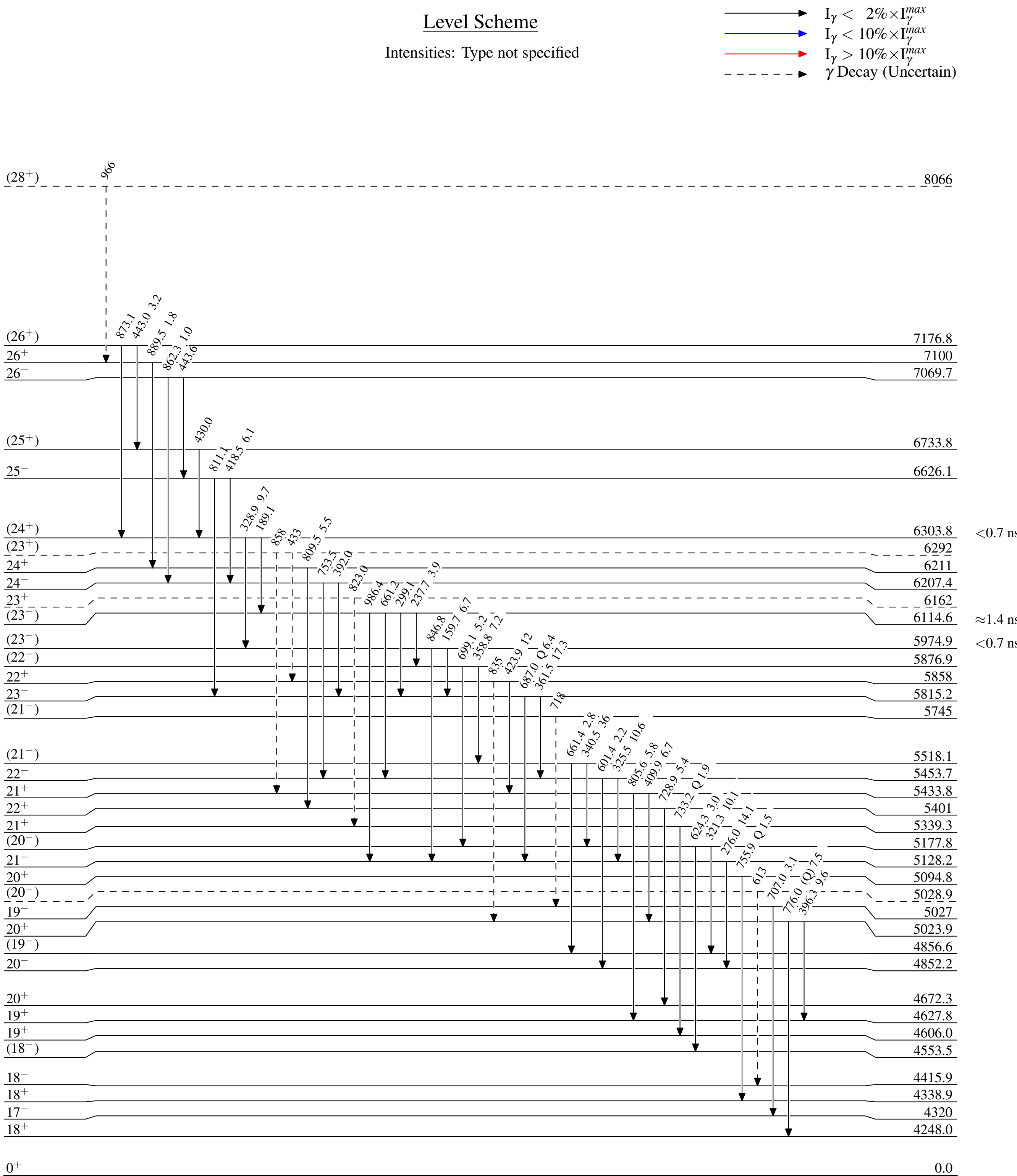
[c] Multiply placed with intensity suitably divided.

[d] Placement of transition in the level scheme is uncertain.

^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19

Level Scheme

Intensities: Type not specified



$^{180}_{74}W_{106}$

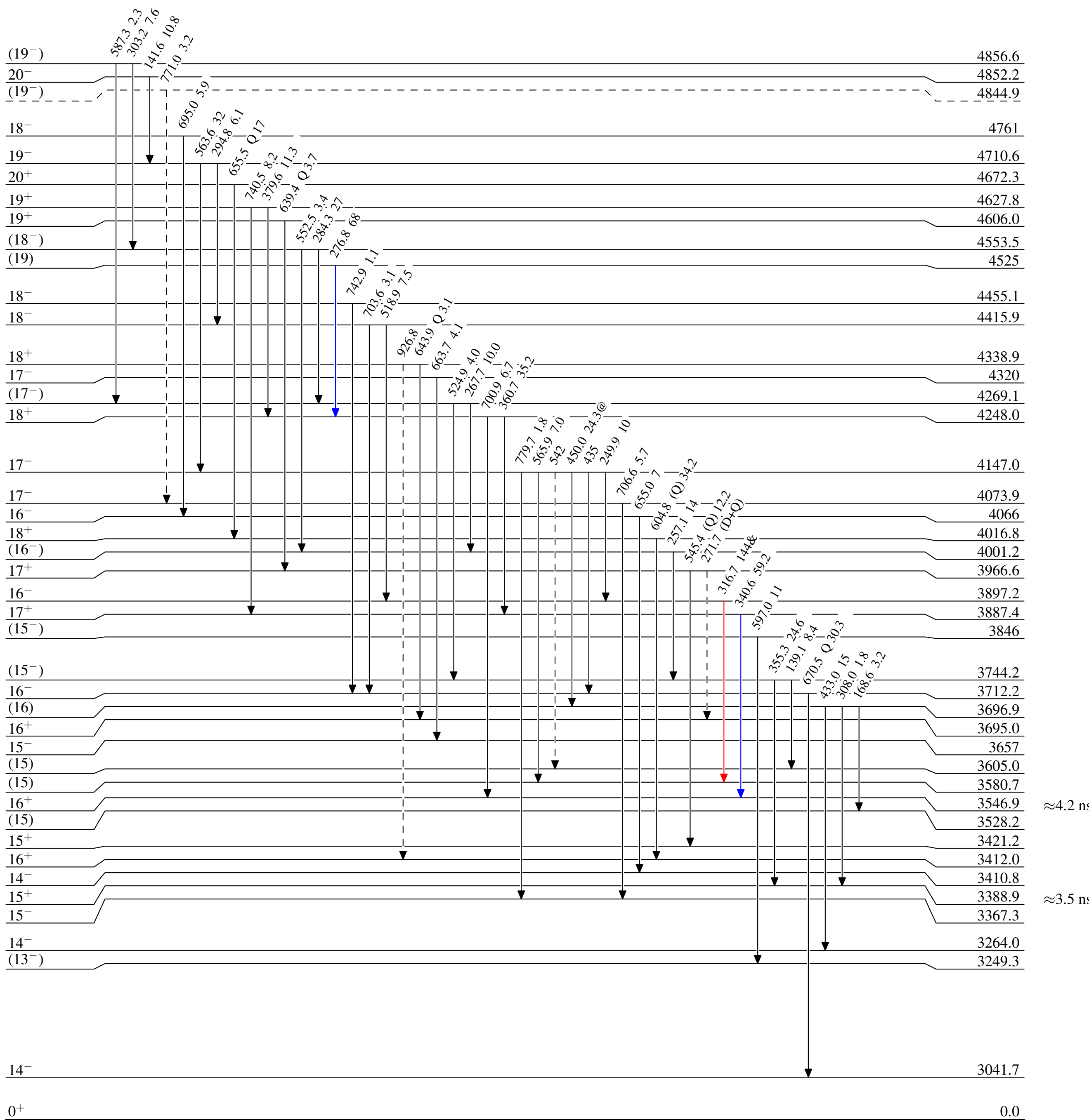
$^{176}Yb(^{9}Be,5n\gamma)$ 1993YeZX,1993Wa11,2002Fa19

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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)

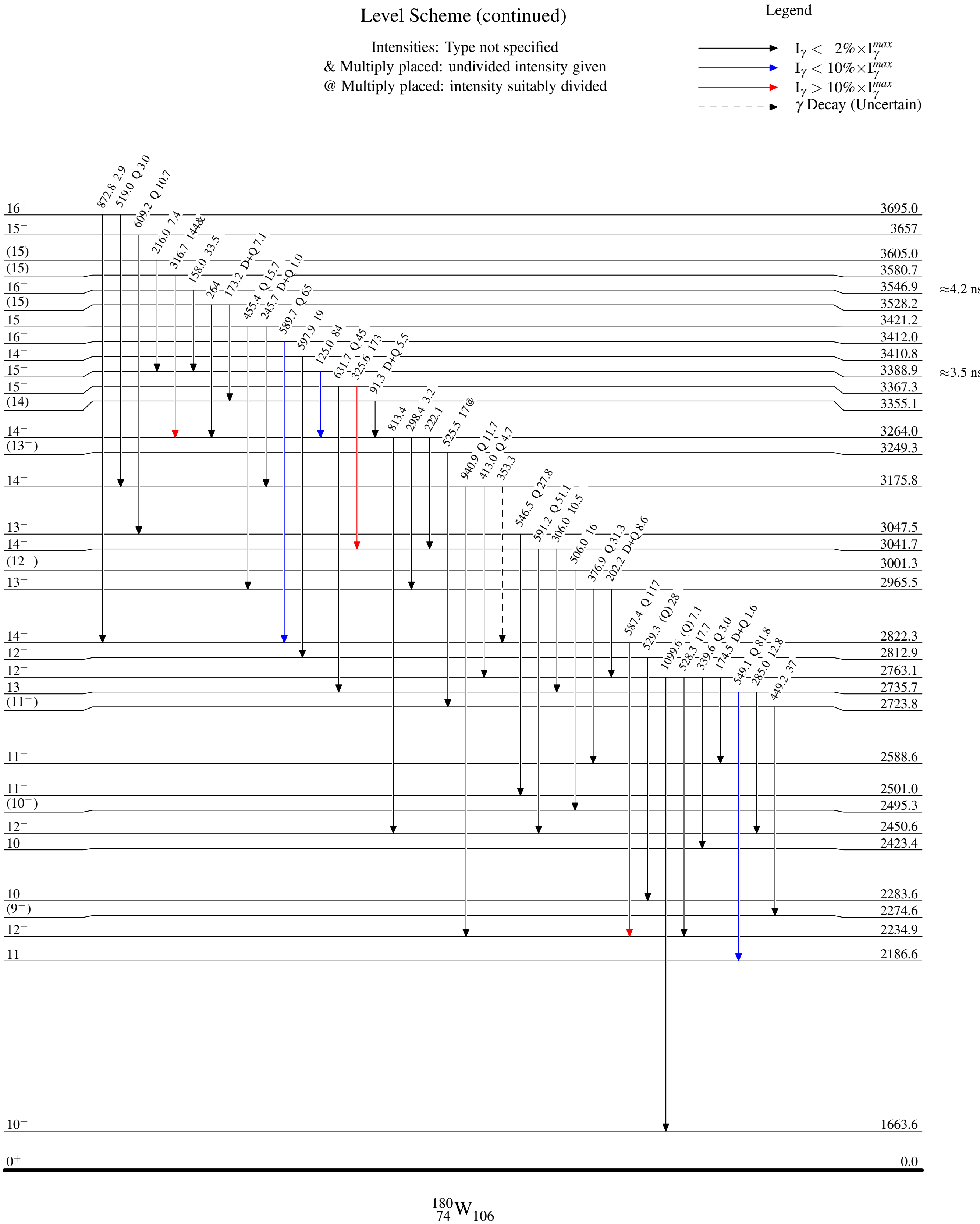


$^{180}_{74}W_{106}$

^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



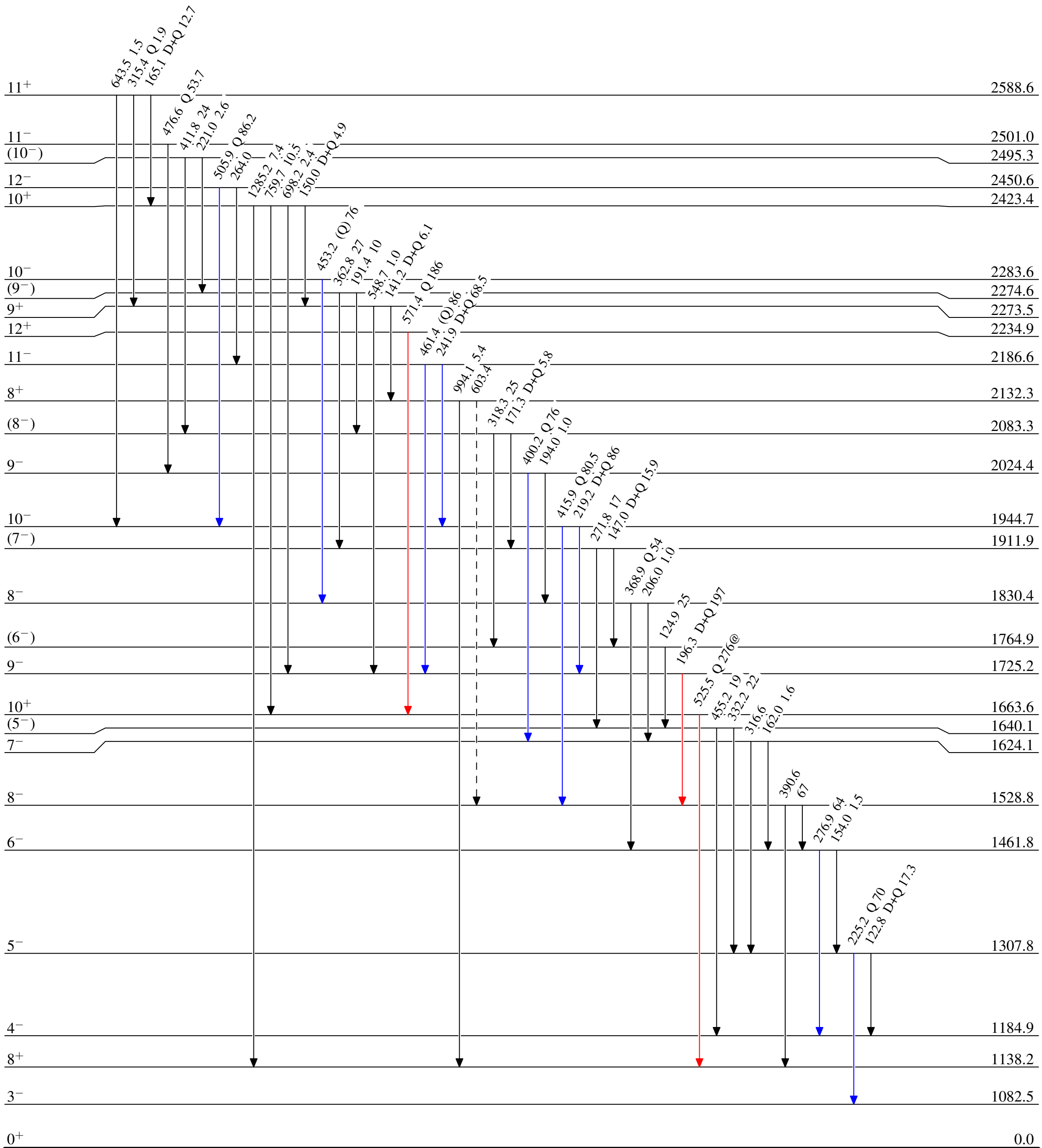
$^{176}Yb(^{9}Be,5n\gamma)$ 1993YeZX,1993Wa11,2002Fa19

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

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)

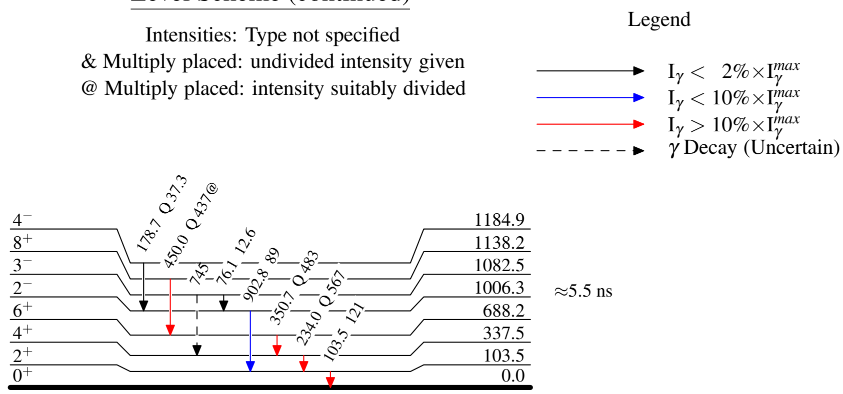


$^{180}_{74}W_{106}$

$^{176}Yb(^{9}Be,5n\gamma)$ 1993YeZX,1993Wa11,2002Fa19

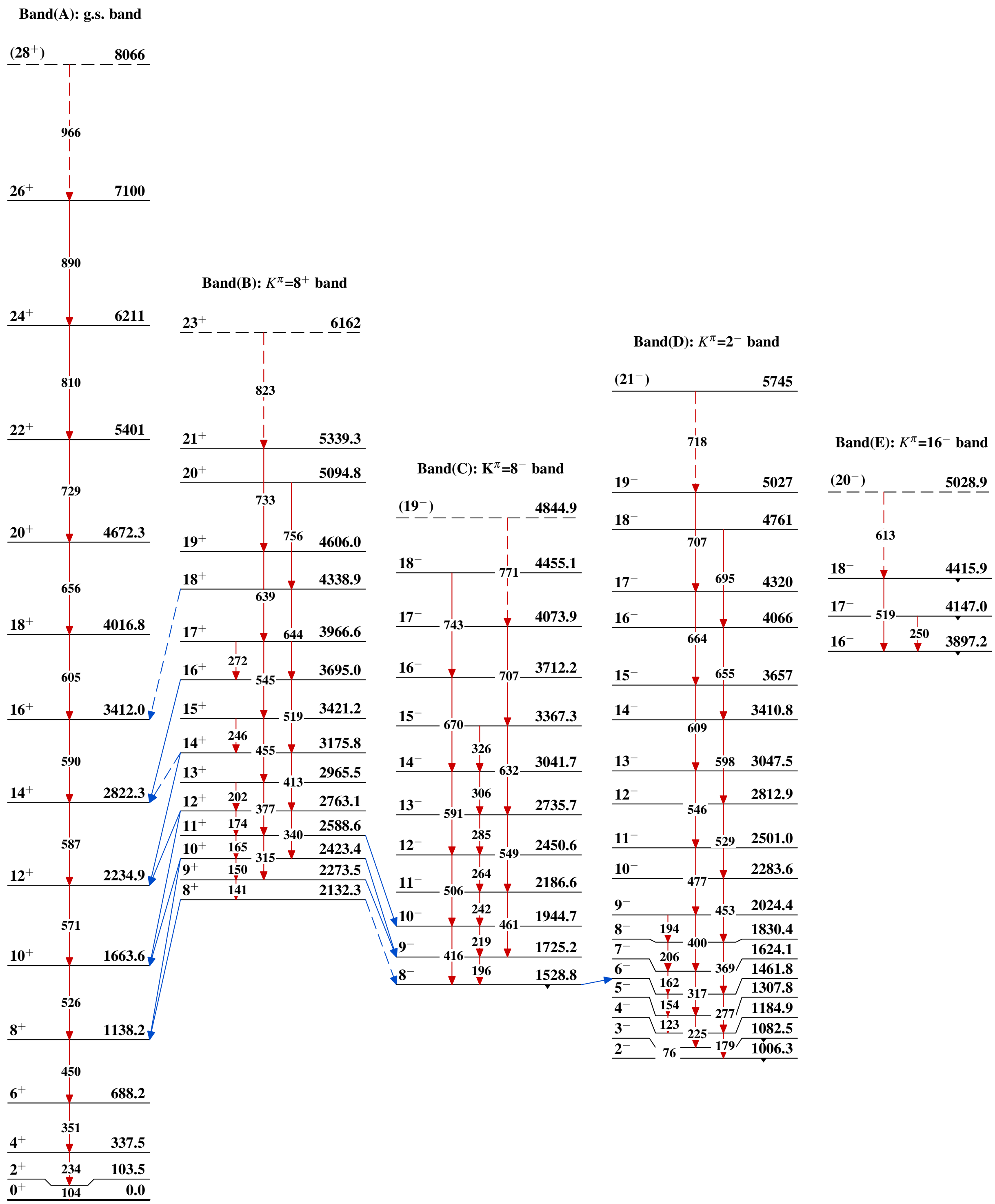
Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



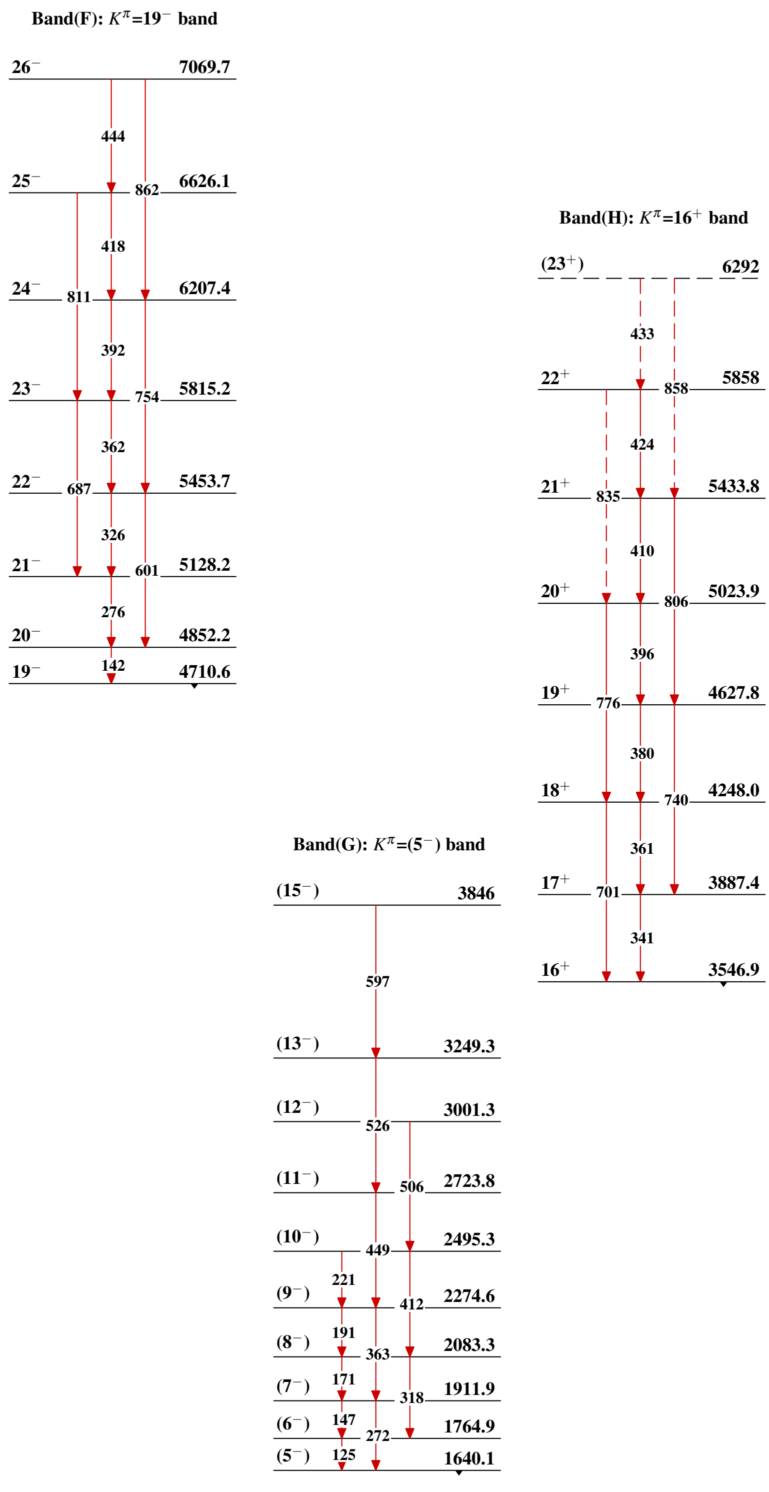
$^{180}_{74}W_{106}$

$^{176}Yb(^{9}Be,5n\gamma)$ 1993YeZX,1993Wa11,2002Fa19



$^{180}_{74}W_{106}$

^{176}Yb(^{9}Be,5nγ) 1993YeZX,1993Wa11,2002Fa19 (continued)



$^{180}_{74}W_{106}$