Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, Huo Junde	NDS 87,15 (1999)	1-Nov-1998

Q(β^-)=−1.51×10^3 *4*; S(n)=7.42×10^3 *4*; S(p)=3.62×10^3 *4*; Q(α)=3.14×10^3 *4* 2012Wa38
Note: Current evaluation has used the following Q record $ −1856 syst 7484 syst 4012 SY2.88E3 9 1995Au04.

^{174}Ta Levels

Only members of the g.s. rotational band observed in the ^{169}Tm(^{9}Be,4nγ) reaction have been adopted.

Cross Reference (XREF) Flags

A ^{160}Gd(^{19}F,5nγ)
B ^{169}Tm(^{9}Be,4nγ)
C ^{174}W ε decay

E(level)‡	Jπ†	$T_{1/2}$	XREF	Comments
0.0#	3+	1.14 h *8*	AB	%ε+%β+=100 $T_{1/2}$: weighted average (LRSW) (χ^2 /ν=3.45) of 1.06 h *4* (1985Sz03), 1.04 h *6* (1975Ca11), 1.19 h *11* (1971Gi04), 1.2 h *1* (1965De25), 1.30 h *5* (1964Sa22), 1.3 h *1* (1961Bu13) and 1.3 h *1* (1960Fa03). β+ was observed by 1971Ch26. Jπ: ε to 2+ (log *ft*=6.9) and 4+ (log *ft*=6.3) in ^{174}Hf. Coupling of 5/2−,1/2[541] proton (g.s. of ^{173}Ta) with 1/2−,1/2[521] neutron (g.s. of ^{173}Hf) suggests $J^\pi=3^+$ (1987Kr17).
0.0+x[b]	(5−)		A	
0.0+y[c]	(5−)		A	
4.79+x[@] *13*	(7+)		A	
50.679+x[b] *20*	(6−)		A	
59.73+x[&] *13*	(7+)		A	
77.00# *8*	5+		AB	
98.30+y[c] *5*	(6−)		A	
119.58+x[b] *3*	(7−)		A	
141.87# *18*	(4+)		A	
157.09+x[@] *14*	(8+)		A	
157.50+x[a] *13*	(8−)		A	
163.94+x[&] *13*	(8+)		A	
202.24+x[b] *4*	(8−)		A	
219.60+y[c] *6*	(7−)		A	
240.72# *9*	7+		AB	
249.97+x[a] *12*	(9−)		A	
297.37+x[&] *14*	(9+)		A	
302.28# *15*	6+		A	
312.44+x[b] *10*	(9−)		A	
321.70+x[@] *14*	(9+)		A	
365.98+y[c] *6*	(8−)		A	
383.48+x[a] *12*	(10−)		A	
428.76+x[b] *9*	(10−)		A	

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Adopted Levels, Gammas (continued)

^{174}Ta Levels (continued)

E(level)‡	Jπ†	XREF	E(level)‡	Jπ†	XREF	E(level)‡	Jπ†	XREF
461.13+x& *14*	(10+)	A	1750.54+x*a* *13*	(16−)	A	3621.3+x@	(21+)	A
493.16# *9*	9+	AB	1758.97# *12*	15+	AB	3694.93# *15*	(21+)	A
502.26+x@ *14*	(10+)	A	1806.91# *20*	14+	A	3711.5# *4*	(20+)	A
534.59+y*c* *7*	(9−)	A	1905.70+x& *16*	(16+)	A	3770.4+x *3*	(21+)	A
548.44+x*a* *12*	(11−)	A	1953.93+x*b* *12*	(17−)	A	3777.38 *22*	(21+)	A
549.74+x# *15*	8+	A	1997.39+y*c* *12*	(15−)	A	3802.90+x*a* *17*	(22−)	A
590.06+x*b* *10*	(11−)	A	2013.34+x@ *18*	(16+)	A	3861.60+x& *19*	(22+)	A
650.37+x& *14*	(11+)	A	2055.80+x*a* *13*	(17−)	A	3886.2+y*c* *3*	(21−)	A
703.79+x@ *15*	(11+)	A	2201.04+x*b* *12*	(18−)	A	4000.01+x*b* *16*	(23−)	A
726.93+y*c* *8*	(10−)	A	2204.33+x& *16*	(17+)	A	4198.34+x*a* *18*	(23−)	A
739.31+x*b* *10*	(12−)	A	2301.88+y*c* *14*	(16−)	A	4220.74+x& *20*	(23+)	A
742.21+x*a* *12*	(12−)	A	2322.29+x@ *20*	(17+)	A	4233.0+y*c* *5*	(22−)	A
832.83# *10*	11+	AB	2336.31# *13*	17+	AB	4246.57+x *23*	(23+)	A
863.17+x& *14*	(12+)	A	2374.73+x*a* *14*	(18−)	A	4364.87+x*b* *16*	(24−)	A
885.41# *16*	10+	A	2383.69# *23*	16+	A	4442.8# *5*	(22+)	A
927.42+x@ *15*	(12+)	A	2514.23+x& *16*	(18+)	A	4456.46# *17*	(23+)	A
940.92+y*c* *8*	(11−)	A	2569.62+x*b* *13*	(19−)	A	4463.64 *22*	(23+)	A
956.82+x*b* *11*	(13−)	A	2617.98+y*c* *15*	(17−)	A	4569.55+x& *22*	(24+)	A
960.90+x*a* *12*	(13−)	A	2646.78+x@ *22*	(18+)	A	4585.42+x*a* *20*	(24−)	A
1097.13+x& *14*	(13+)	A	2715.68+x*a* *15*	(19−)	A	4595.6+y*c* *4*	(23−)	A
1140.13+x*b* *11*	(14−)	A	2835.26+x& *17*	(19+)	A	4605.78+x *24*	(24+)	A
1170.91+x@ *16*	(13+)	A	2852.10+x*b* *13*	(20−)	A	4801.40+x*b* *18*	(25−)	A
1176.63+y*c* *9*	(12−)	A	2927.68+y*c* *19*	(18−)	A	4998.33+x*a* *23*	(25−)	A
1201.92+x*a* *12*	(14−)	A	2976.97+x@ *24*	(19+)	A	5216.32+x*b* *18*	(26−)	A
1256.25# *11*	13+	AB	2983.70# *14*	(19+)	A	5218.4# *6*	(24+)	A
1305.91# *17*	12+	A	3025.2# *3*	(18+)	A	5274.16# *20*	(25+)	A
1350.24+x& *15*	(14+)	A	3062.86+x*a* *15*	(20−)	A	5408.78+x*a* *23*	(26−)	A
1414.28+x*b* *12*	(15−)	A	3166.59+x& *17*	(20+)	A	5650.61+x*b* *21*	(27−)	A
1431.41+y*c* *10*	(13−)	A	3241.15+y*c* *24*	(19−)	A	6127.79+x*b* *22*	(28−)	A
1435.11+x@ *16*	(14+)	A	3254.00+x*b* *14*	(21−)	A	6139.73# *25*	(27+)	A
1466.55+x*a* *12*	(15−)	A	3307.1+x@ *5*	(20+)	A	6149.0 *3*	(27+)	A
1620.55+x& *15*	(15+)	A	3433.90+x*a* *16*	(21−)	A	6558.61+x*b* *23*	(29−)	A
1628.42+x*b* *12*	(16−)	A	3508.71+x& *18*	(21+)	A	7096.7+x*b* *3*	(30−)	A
1706.12+y*c* *11*	(14−)	A	3558.9+y*c* *4*	(20−)	A	7524.5+x*b* *3*	(31−)	A
1714.81+x@ *17*	(15+)	A	3575.73+x*b* *14*	(22−)	A			

† J^{π} assignments are based on rotational structure, coupled to specific configuration identification. Quasi-particle configuration assignments are based on a comparison of experimental ratios of γ-ray reduced transition probabilities (B(M1)/B(E2)) with theoretical values predicted for the expected configuration (1998Ba20).

‡ Deduced by evaluator from a least-squares fit to γ-ray energies from ^{160}Gd(^{19}F,5nγ) (1998Ba20).

Band(A): g.s. rotational band configuration=(π 1/2[541])+(ν 1/2[521]).

@ Band(B): $K^{\pi}=7^{+}$ rotational band configuration=(π 9/2[514])+(ν 5/2[512]).

& Band(C): $K^{\pi}=7^{+}$ rotational band configuration=(π 7/2[404])+(ν 7/2[633]).

a Band(D): $K^{\pi}=8^{-}$ rotational band configuration=(π 9/2[514])+(ν 7/2[633]).

b Band(E): $K^{\pi}=4^{-}$ rotational band configuration=(π 1/2[541])+(ν 7/2[633]).

c Band(F): $K^{\pi}=5^{-}$ rotational band configuration=(π 5/2[402])+(ν 5/2[512]).

Adopted Levels, Gammas (continued)

γ(^{174}Ta)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[†]	δ
4.79+x	(7$^+$)	7 *4*	100.0	0.0+x	(5$^-$)		
50.679+x	(6$^-$)	50.68 *2*	100.0	0.0+x	(5$^-$)		
59.73+x	(7$^+$)	55.00 *2*	100.0	4.79+x	(7$^+$)		
77.00	5$^+$	77.00 *8*	100.0	0.0	3$^+$		
98.30+y	(6$^-$)	98.29 *5*	100.0	0.0+y	(5$^-$)		
119.58+x	(7$^-$)	68.90 *2*	100.0	50.679+x	(6$^-$)		
141.87	(4$^+$)	(65)		77.00	5$^+$		
		(142)		0.0	3$^+$		
157.09+x	(8$^+$)	152.31 *4*	100.0	4.79+x	(7$^+$)		
157.50+x	(8$^-$)	97.79 *1*	100.0	59.73+x	(7$^+$)		
		152.48 *4*	10.80	4.79+x	(7$^+$)		
163.94+x	(8$^+$)	104.17 *5*	38 *9*	59.73+x	(7$^+$)	D+Q	
		159.05 *4*	100 *23*	4.79+x	(7$^+$)		
202.24+x	(8$^-$)	82.66 *2*	100.0	119.58+x	(7$^-$)	D+Q	
219.60+y	(7$^-$)	121.27 *4*	100 *9*	98.30+y	(6$^-$)		
		219.65 *10*	44 *5*	0.0+y	(5$^-$)		
240.72	7$^+$	163.72 *3*	100.0	77.00	5$^+$	E2	
249.97+x	(9$^-$)	92.47 *4*	100.0	157.50+x	(8$^-$)	E2, D+Q	
297.37+x	(9$^+$)	133.42 *5*	60 *3*	163.94+x	(8$^+$)		
		140.13 *6*	36.9 *23*	157.09+x	(8$^+$)		
		237.74 *5*	100 *7*	59.73+x	(7$^+$)	E2	
302.28	6$^+$	160.41 *9*	1.0×10^2 *4*	141.87	(4$^+$)	E2	
		225.35 *20*	49 *20*	77.00	5$^+$		
312.44+x	(9$^-$)	110.22 *4*	100 *12*	202.24+x	(8$^-$)		
		192.82 *24*	32 *4*	119.58+x	(7$^-$)		
321.70+x	(9$^+$)	157.74 *6*	54 *4*	163.94+x	(8$^+$)		
		164.73 *5*	100 *7*	157.09+x	(8$^+$)		
		316.95 *12*	56 *5*	4.79+x	(7$^+$)		
365.98+y	(8$^-$)	146.38 *4*	100 *5*	219.60+y	(7$^-$)		
		267.78 *8*	84 *7*	98.30+y	(6$^-$)		
383.48+x	(10$^-$)	133.53 *3*	100 *5*	249.97+x	(9$^-$)	D+Q	
		226.50 *54*	18.52	157.50+x	(8$^-$)		
428.76+x	(10$^-$)	116.30 *4*	100 *6*	312.44+x	(9$^-$)	D+Q	−0.02[‡] *+3−4*
		226.43 *9*	91 *7*	202.24+x	(8$^-$)	E2	
461.13+x	(10$^+$)	163.46 *6*	42 *3*	297.37+x	(9$^+$)	M1+E2	
		297.17 *4*	100 *6*	163.94+x	(8$^+$)	E2	
		304.07 *13*	24.4 *20*	157.09+x	(8$^+$)		
493.16	9$^+$	252.45 *3*	100.0	240.72	7$^+$	E2	
502.26+x	(10$^+$)	180.59 *4*	100 *5*	321.70+x	(9$^+$)		
		337.33 *14*	40 *4*	163.94+x	(8$^+$)		
		345.17 *11*	46 *3*	157.09+x	(8$^+$)		
534.59+y	(9$^-$)	168.50 *5*	62 *3*	365.98+y	(8$^-$)		
		314.86 *8*	100 *6*	219.60+y	(7$^-$)		
548.44+x	(11$^-$)	164.98 *3*	100 *4*	383.48+x	(10$^-$)	D+Q	
		298.10 *11*	20.2 *16*	249.97+x	(9$^-$)		
549.74+x	8$^+$	247.47 *6*	100 *12*				
		308.76 *17*	44 *8*				
590.06+x	(11$^-$)	161.23 *5*	82 *4*	428.76+x	(10$^-$)		
		277.72 *6*	100 *5*	312.44+x	(9$^-$)	E2	
650.37+x	(11$^+$)	188.85 *7*	25.9 *12*	461.13+x	(10$^+$)		
		353.11 *4*	100 *4*	297.37+x	(9$^+$)	E2	
703.79+x	(11$^+$)	201.42 *4*	98 *5*	502.26+x	(10$^+$)		
		382.26 *7*	100 *6*	321.70+x	(9$^+$)		
726.93+y	(10$^-$)	192.67 *7*	56 *3*	534.59+y	(9$^-$)		
		361.27 *7*	100 *6*	365.98+y	(8$^-$)		

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Adopted Levels, Gammas (continued)

γ(^{174}Ta) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[†]	δ
739.31+x	(12$^-$)	148.93 *7*	38.5 *19*	590.06+x	(11$^-$)		
		190.94 *5*	54.0 *25*	548.44+x	(11$^-$)		
		310.59 *6*	100 *4*	428.76+x	(10$^-$)		
		356.03 *14*	28.6 *25*	383.48+x	(10$^-$)		
742.21+x	(12$^-$)	153.81 *14*	10.0 *12*	590.06+x	(11$^-$)		
		193.67 *4*	100 *4*	548.44+x	(11$^-$)		
		313.35 *14*	31.1 *23*	428.76+x	(10$^-$)		
		358.96 *11*	35.0 *23*	383.48+x	(10$^-$)		
832.83	11$^+$	339.67 *4*	100.0	493.16	9$^+$		
863.17+x	(12$^+$)	212.41 *16*	9.1 *10*	650.37+x	(11$^+$)		
		402.05 *4*	100 *5*	461.13+x	(10$^+$)		
885.41	10$^+$	335.64 *6*	100 *6*				
		392.9 *3*	21 *3*	493.16	9$^+$		
927.42+x	(12$^+$)	223.46 *6*	59 *4*	703.79+x	(11$^+$)		
		425.35 *7*	100 *5*	502.26+x	(10$^+$)		
940.92+y	(11$^-$)	212.91 *11*	28.4 *23*	726.93+y	(10$^-$)		
		405.85 *6*	100 *5*	534.59+y	(9$^-$)		
956.82+x	(13$^-$)	214.48 *5*	95 *4*	742.21+x	(12$^-$)		
		217.1 *5*	7.7 *16*	739.31+x	(12$^-$)		
		366.67 *7*	100 *5*	590.06+x	(11$^-$)		
		408.25 *12*	45 *3*	548.44+x	(11$^-$)		
960.90+x	(13$^-$)	218.63 *9*	40 *3*	742.21+x	(12$^-$)		
		221.44 *5*	100 *4*	739.31+x	(12$^-$)		
		370.76 *18*	47 *4*	590.06+x	(11$^-$)		
		412.58 *8*	82 *4*	548.44+x	(11$^-$)		
1097.13+x	(13$^+$)	233.82 *14*	7.8 *8*	863.17+x	(12$^+$)		
		446.78 *4*	100 *4*	650.37+x	(11$^+$)	E2	
1140.13+x	(14$^-$)	179.54 *18*	6.0 *9*	960.90+x	(13$^-$)		
		182.92 *6*	23.2 *13*	956.82+x	(13$^-$)		
		398.22 *8*	38.2 *18*	742.21+x	(12$^-$)		
		400.88 *5*	100 *4*	739.31+x	(12$^-$)		
1170.91+x	(13$^+$)	243.30 *9*	36.6 *22*	927.42+x	(12$^+$)		
		467.16 *7*	100 *6*	703.79+x	(11$^+$)		
1176.63+y	(12$^-$)	235.86 *7*	41.0 *20*	940.92+y	(11$^-$)		
		449.48 *6*	100 *4*	726.93+y	(10$^-$)		
1201.92+x	(14$^-$)	240.68 *5*	92 *5*	960.90+x	(13$^-$)	D+Q	0.32[‡] *+8−6*
		244.77 *10*	41 *4*	956.82+x	(13$^-$)		
		460.08 *9*	100 *6*	742.21+x	(12$^-$)		
		463.05 *25*	34 *4*	739.31+x	(12$^-$)		
1256.25	13$^+$	423.42 *4*	100.0	832.83	11$^+$		
1305.91	12$^+$	420.50 *7*	100.0	885.41	10$^+$		
1350.24+x	(14$^+$)	252.29 *24*	6.7 *11*	1097.13+x	(13$^+$)		
		487.06 *5*	100 *5*	863.17+x	(12$^+$)		
1414.28+x	(15$^-$)	274.03 *8*	37.5 *21*	1140.13+x	(14$^-$)		
		453.18 *13*	34.0 *21*	960.90+x	(13$^-$)		
		457.62 *6*	100 *5*	956.82+x	(13$^-$)		
1431.41+y	(13$^-$)	254.19 *16*	20.4 *21*	1176.63+y	(12$^-$)		
		490.59 *6*	100 *4*	940.92+y	(11$^-$)		
1435.11+x	(14$^+$)	263.65 *13*	28.1 *21*	1170.91+x	(13$^+$)		
		507.76 *7*	100 *5*	927.42+x	(12$^+$)		
1466.55+x	(15$^-$)	264.28 *5*	100 *4*	1201.92+x	(14$^-$)		
		505.88 *5*	100 *5*	960.90+x	(13$^-$)		
		510.35 *16*	46 *4*	956.82+x	(13$^-$)		
1620.55+x	(15$^+$)	269.82 *15*	1.1 *6*	1350.24+x	(14$^+$)		
		523.44 *4*	100 *4*	1097.13+x	(13$^+$)		

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Adopted Levels, Gammas (continued)

γ(^{174}Ta) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π
1628.42+x	(16$^-$)	213.53 *24*	5.4 *8*	1414.28+x	(15$^-$)
		488.27 *4*	100 *4*	1140.13+x	(14$^-$)
1706.12+y	(14$^-$)	274.9 *3*	12.6 *23*	1431.41+y	(13$^-$)
		529.46 *7*	100 *5*	1176.63+y	(12$^-$)
1714.81+x	(15$^+$)	279.25 *10*	45 *3*	1435.11+x	(14$^+$)
		544.02 *8*	100 *6*	1170.91+x	(13$^+$)
1750.54+x	(16$^-$)	283.86 *6*	82 *5*	1466.55+x	(15$^-$)
		548.76 *8*	100 *6*	1201.92+x	(14$^-$)
1758.97	15$^+$	502.72 *4*	100.0	1256.25	13$^+$
1806.91	14$^+$	501.00 *10*	100.0	1305.91	12$^+$
1905.70+x	(16$^+$)	284.36 *40*	5.7 *15*	1620.55+x	(15$^+$)
		555.47 *5*	100 *5*	1350.24+x	(14$^+$)
1953.93+x	(17$^-$)	325.40 *10*	31.7 *17*	1628.42+x	(16$^-$)
		539.73 *6*	100 *5*	1414.28+x	(15$^-$)
1997.39+y	(15$^-$)	290.3 *9*	5 *3*	1706.12+y	(14$^-$)
		566.01 *8*	100 *6*	1431.41+y	(13$^-$)
2013.34+x	(16$^+$)	297.82 *17*	30 *3*	1714.81+x	(15$^+$)
		578.47 *10*	100 *6*	1435.11+x	(14$^+$)
2055.80+x	(17$^-$)	305.05 *9*	43 *3*	1750.54+x	(16$^-$)
		589.32 *7*	100 *5*	1466.55+x	(15$^-$)
2201.04+x	(18$^-$)	246.4 *3*	5.5 *6*	1953.93+x	(17$^-$)
		572.59 *5*	100 *4*	1628.42+x	(16$^-$)
2204.33+x	(17$^+$)	583.78 *5*	100.0	1620.55+x	(15$^+$)
2301.88+y	(16$^-$)	305.1 *4*	12 *3*	1997.39+y	(15$^-$)
		595.74 *9*	100 *6*	1706.12+y	(14$^-$)
2322.29+x	(17$^+$)	607.48 *12*	100.0	1714.81+x	(15$^+$)
2336.31	17$^+$	577.33 *5*	100.0	1758.97	15$^+$
2374.73+x	(18$^-$)	318.70 *9*	44.2 *24*	2055.80+x	(17$^-$)
		624.26 *8*	100 *5*	1750.54+x	(16$^-$)
2383.69	16$^+$	576.78 *11*	100.0	1806.91	14$^+$
2514.23+x	(18$^+$)	608.53 *5*	100.0	1905.70+x	(16$^+$)
2569.62+x	(19$^-$)	368.4 *3*	11.3 *18*	2201.04+x	(18$^-$)
		615.75 *6*	100 *5*	1953.93+x	(17$^-$)
2617.98+y	(17$^-$)	316.6 *5*	10 *3*	2301.88+y	(16$^-$)
		620.58 *10*	100 *6*	1997.39+y	(15$^-$)
2646.78+x	(18$^+$)	633.44 *13*	100.0	2013.34+x	(16$^+$)
2715.68+x	(19$^-$)	340.67 *12*	40 *3*	2374.73+x	(18$^-$)
		660.02 *9*	100 *6*	2055.80+x	(17$^-$)
2835.26+x	(19$^+$)	630.93 *6*	100.0	2204.33+x	(17$^+$)
2852.10+x	(20$^-$)	651.02 *5*	100.0	2201.04+x	(18$^-$)
2927.68+y	(18$^-$)	309.9 *3*	27 *6*	2617.98+y	(17$^-$)
		625.77 *16*	100 *9*	2301.88+y	(16$^-$)
2976.97+x	(19$^+$)	654.68 *12*	100.0	2322.29+x	(17$^+$)
2983.70	(19$^+$)	647.39 *5*	100.0	2336.31	17$^+$
3025.2	(18$^+$)	641.52 *17*	100.0	2383.69	16$^+$
3062.86+x	(20$^-$)	346.64 *21*	20.0 *24*	2715.68+x	(19$^-$)
		688.16 *8*	100 *5*	2374.73+x	(18$^-$)
3166.59+x	(20$^+$)	652.36 *6*	100.0	2514.23+x	(18$^+$)
3241.15+y	(19$^-$)	313.8 *5*	23 *7*	2927.68+y	(18$^-$)
		623.11 *20*	100 *10*	2617.98+y	(17$^-$)
3254.00+x	(21$^-$)	401.64 *19*	27.6 *23*	2852.10+x	(20$^-$)
		684.46 *7*	100 *5*	2569.62+x	(19$^-$)
3307.1+x	(20$^+$)	660.35 *46*	100.0	2646.78+x	(18$^+$)
3433.90+x	(21$^-$)	371.07 *20*	24 *4*	3062.86+x	(20$^-$)
		718.27 *8*	100 *5*	2715.68+x	(19$^-$)

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

γ(^{174}Ta) (continued)

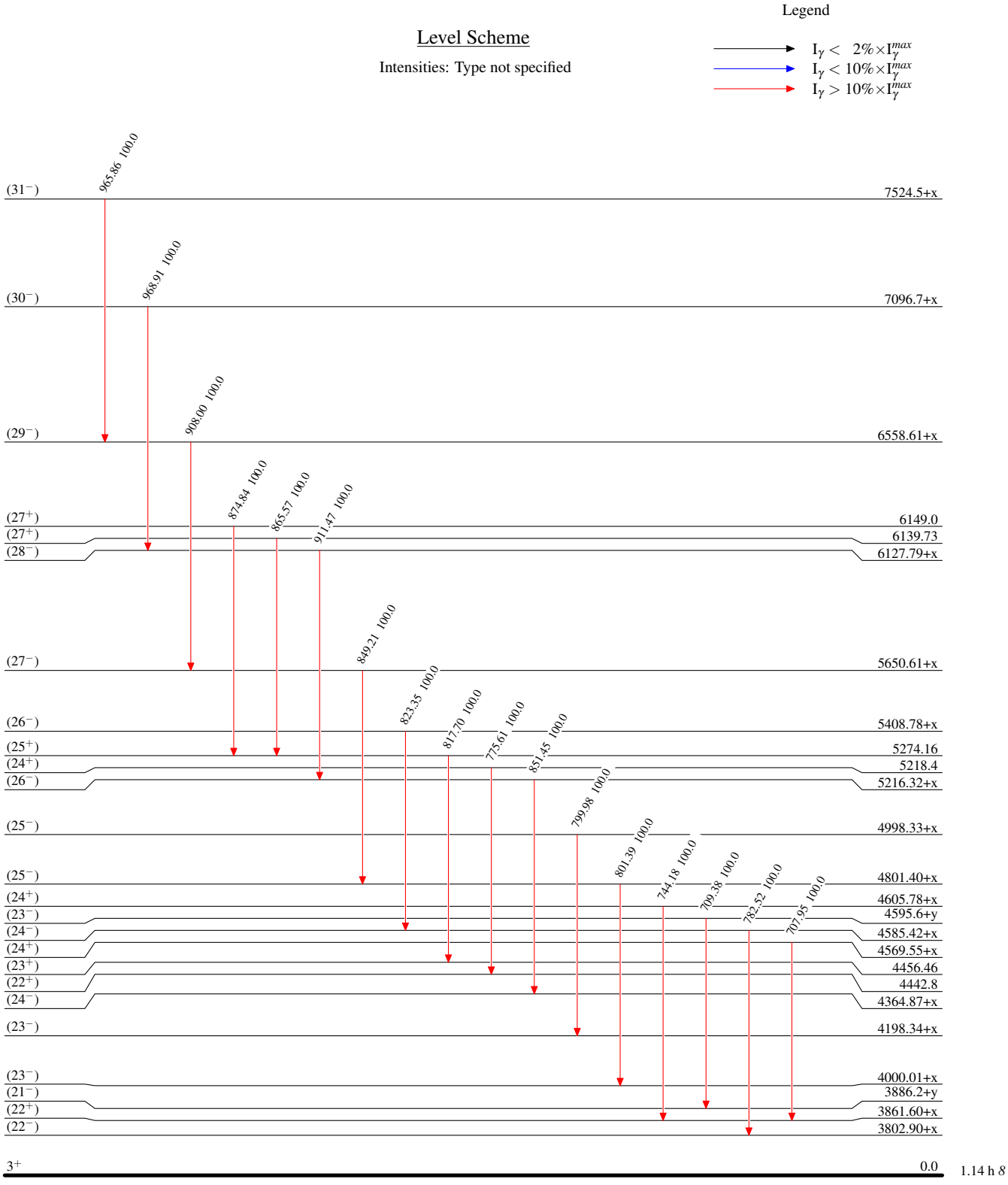
E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π
3508.71+x	(21$^+$)	673.45 *6*	100.0	2835.26+x	(19$^+$)
3558.9+y	(20$^-$)	631.2 *3*	100.0	2927.68+y	(18$^-$)
3575.73+x	(22$^-$)	723.20 *6*	100.0	2852.10+x	(20$^-$)
3621.3+x	(21$^+$)	644.30 *13*	100.0	2976.97+x	(19$^+$)
3694.93	(21$^+$)	711.23 *6*	100.0	2983.70	(19$^+$)
3711.5	(20$^+$)	686.33 *29*	100.0	3025.2	(18$^+$)
3770.4+x	(21$^+$)	793.68 *17*	100.0	2976.97+x	(19$^+$)
3777.38	(21$^+$)	793.68 *17*	100.0	2983.70	(19$^+$)
3802.90+x	(22$^-$)	368.29 *25*	26 *4*	3433.90+x	(21$^-$)
		739.95 *10*	100 *6*	3062.86+x	(20$^-$)
3861.60+x	(22$^+$)	695.01 *8*	100.0	3166.59+x	(20$^+$)
3886.2+y	(21$^-$)	645.05 *20*	100.0	3241.15+y	(19$^-$)
4000.01+x	(23$^-$)	424.08 *25*	16.9 *14*	3575.73+x	(22$^-$)
		746.07 *8*	100 *6*	3254.00+x	(21$^-$)
4198.34+x	(23$^-$)	393.6 *3*	16 *3*	3802.90+x	(22$^-$)
		764.61 *9*	100 *5*	3433.90+x	(21$^-$)
4220.74+x	(23$^+$)	712.03 *10*	100.0	3508.71+x	(21$^+$)
4233.0+y	(22$^-$)	674.08 *22*	100.0	3558.9+y	(20$^-$)
4246.57+x	(23$^+$)	737.86 *15*	100.0	3508.71+x	(21$^+$)
4364.87+x	(24$^-$)	789.53 *7*	100.0	3575.73+x	(22$^-$)
4442.8	(22$^+$)	731.27 *29*	100.0	3711.5	(20$^+$)
4456.46	(23$^+$)	761.53 *7*	100.0	3694.93	(21$^+$)
4463.64	(23$^+$)	768.71 *16*	100.0	3694.93	(21$^+$)
4569.55+x	(24$^+$)	707.95 *11*	100.0	3861.60+x	(22$^+$)
4585.42+x	(24$^-$)	782.52 *9*	100.0	3802.90+x	(22$^-$)
4595.6+y	(23$^-$)	709.38 *20*	100.0	3886.2+y	(21$^-$)
4605.78+x	(24$^+$)	744.18 *14*	100.0	3861.60+x	(22$^+$)
4801.40+x	(25$^-$)	801.39 *8*	100.0	4000.01+x	(23$^-$)
4998.33+x	(25$^-$)	799.98 *14*	100.0	4198.34+x	(23$^-$)
5216.32+x	(26$^-$)	851.45 *9*	100.0	4364.87+x	(24$^-$)
5218.4	(24$^+$)	775.61 *25*	100.0	4442.8	(22$^+$)
5274.16	(25$^+$)	817.70 *11*	100.0	4456.46	(23$^+$)
5408.78+x	(26$^-$)	823.35 *12*	100.0	4585.42+x	(24$^-$)
5650.61+x	(27$^-$)	849.21 *10*	100.0	4801.40+x	(25$^-$)
6127.79+x	(28$^-$)	911.47 *11*	100.0	5216.32+x	(26$^-$)
6139.73	(27$^+$)	865.57 *14*	100.0	5274.16	(25$^+$)
6149.0	(27$^+$)	874.84 *16*	100.0	5274.16	(25$^+$)
6558.61+x	(29$^-$)	908.00 *11*	100.0	5650.61+x	(27$^-$)
7096.7+x	(30$^-$)	968.91 *17*	100.0	6127.79+x	(28$^-$)
7524.5+x	(31$^-$)	965.86 *14*	100.0	6558.61+x	(29$^-$)

† From ^{169}Tm(^{9}Be,4nγ) (1992Ho10).
‡ From 1998Ba20.

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

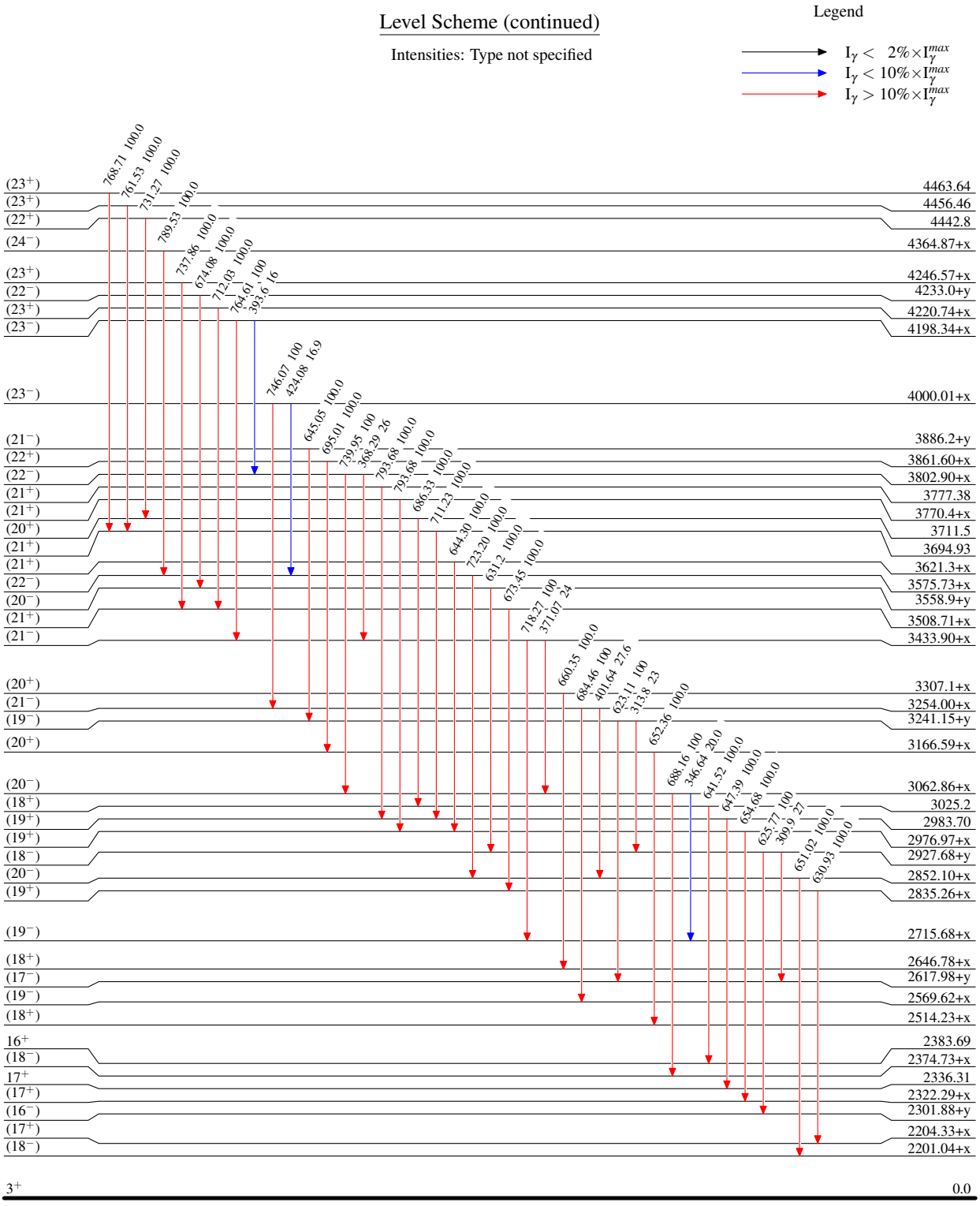


$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

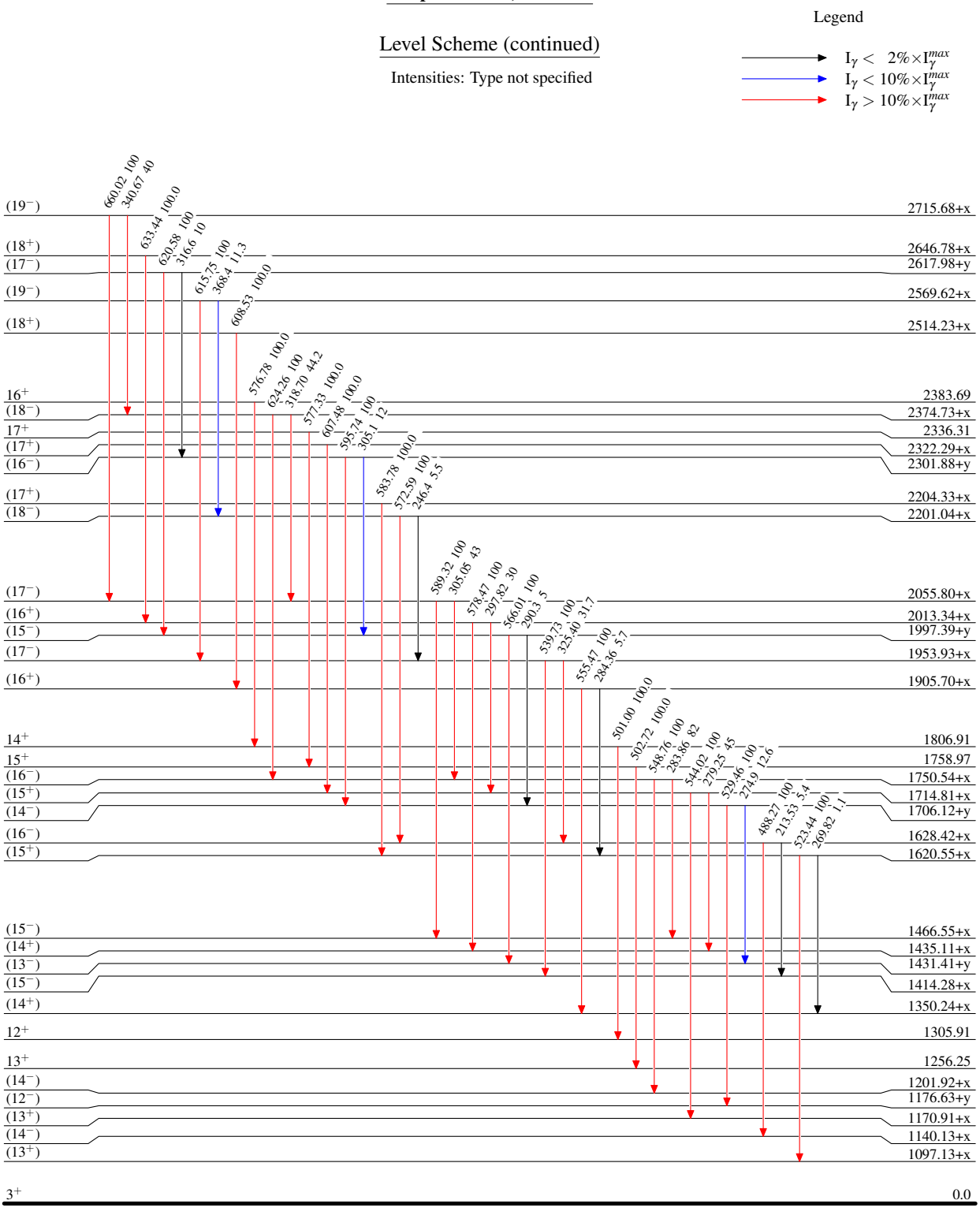


$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

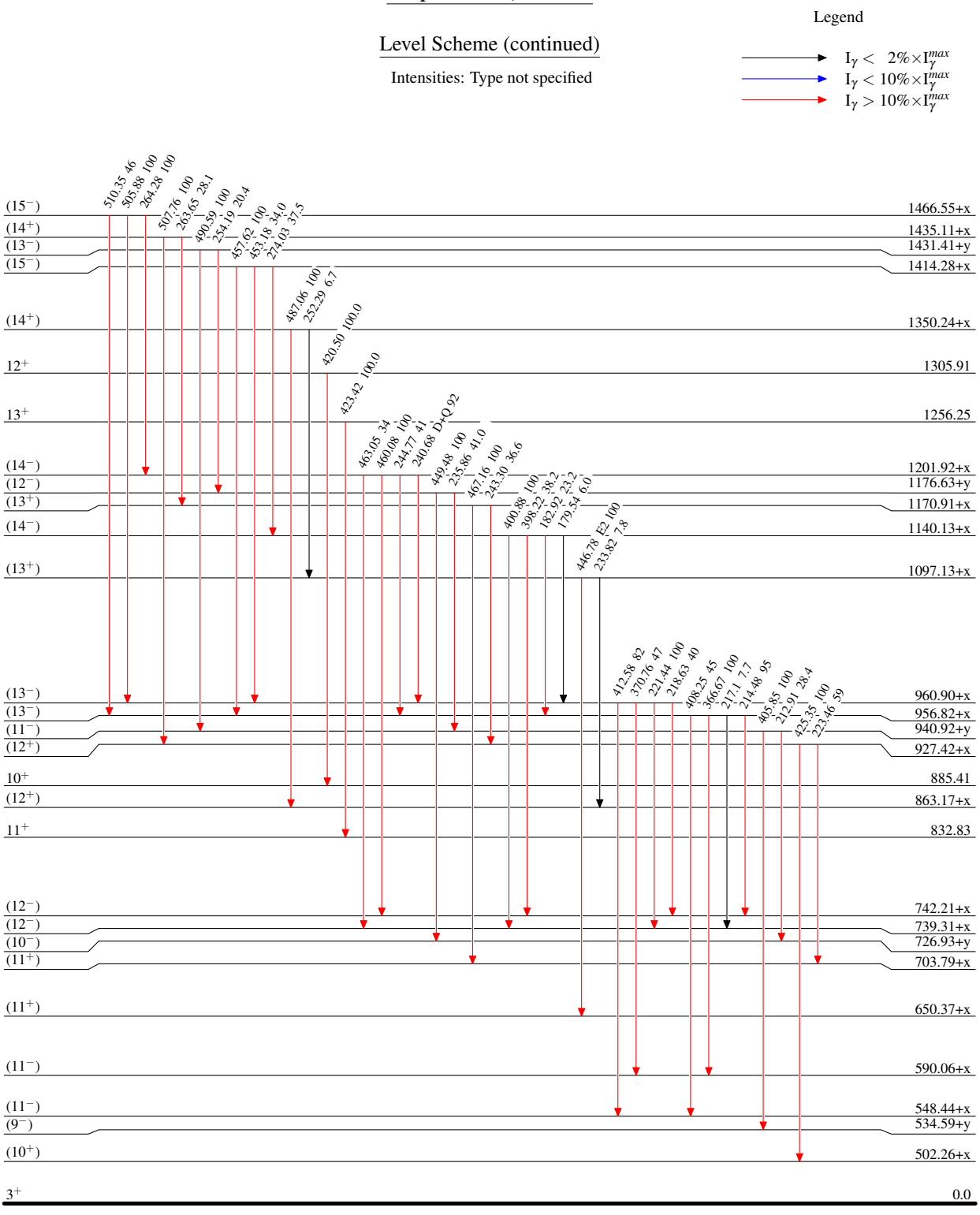


$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

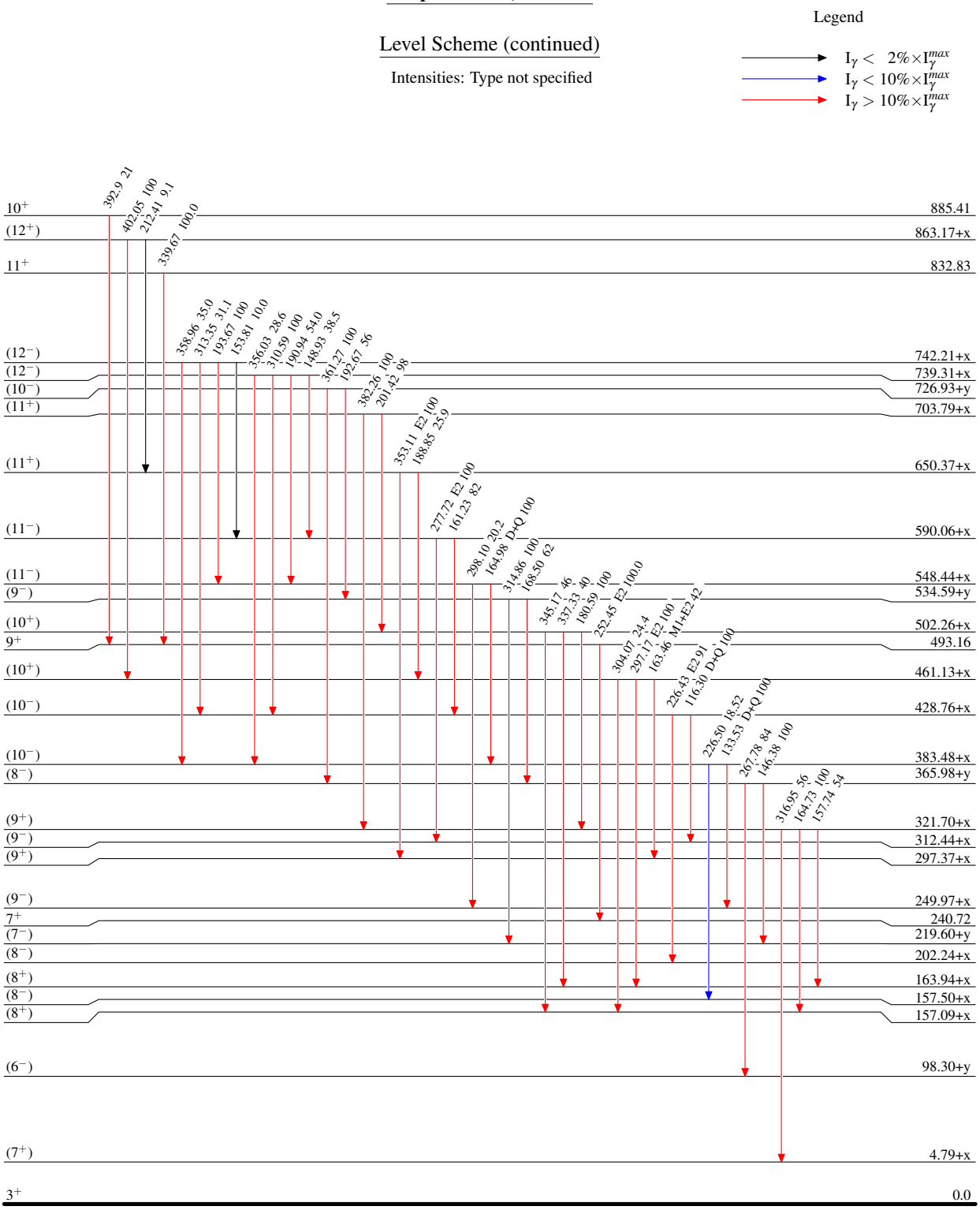


$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

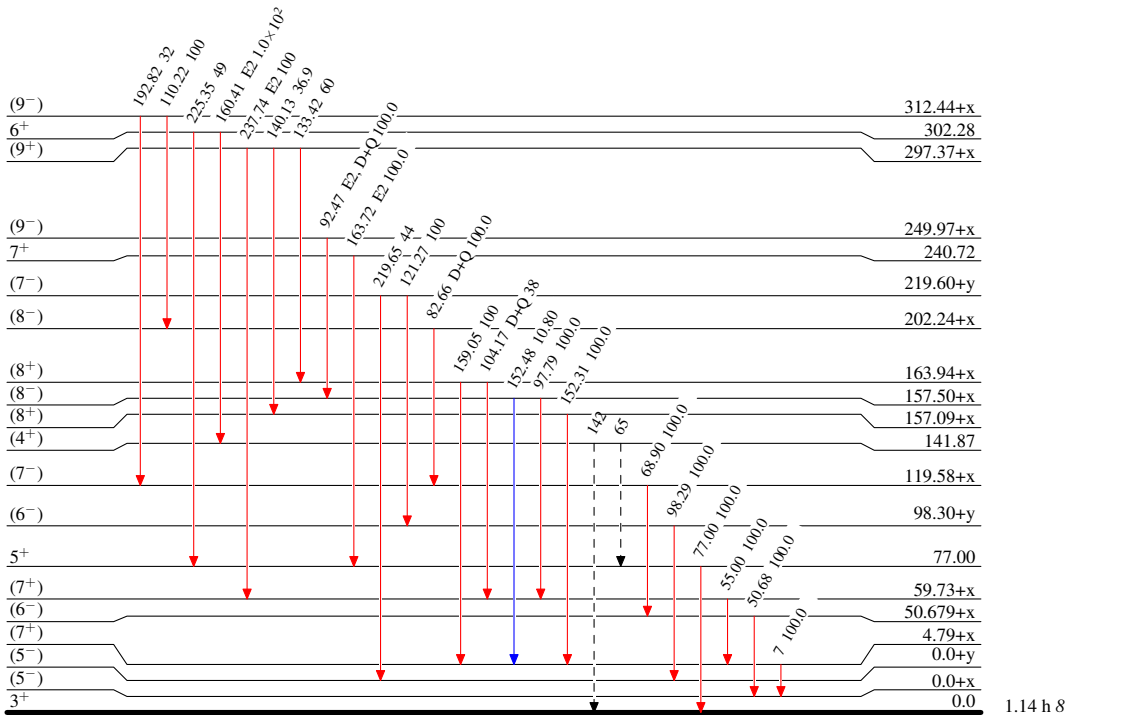


$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas

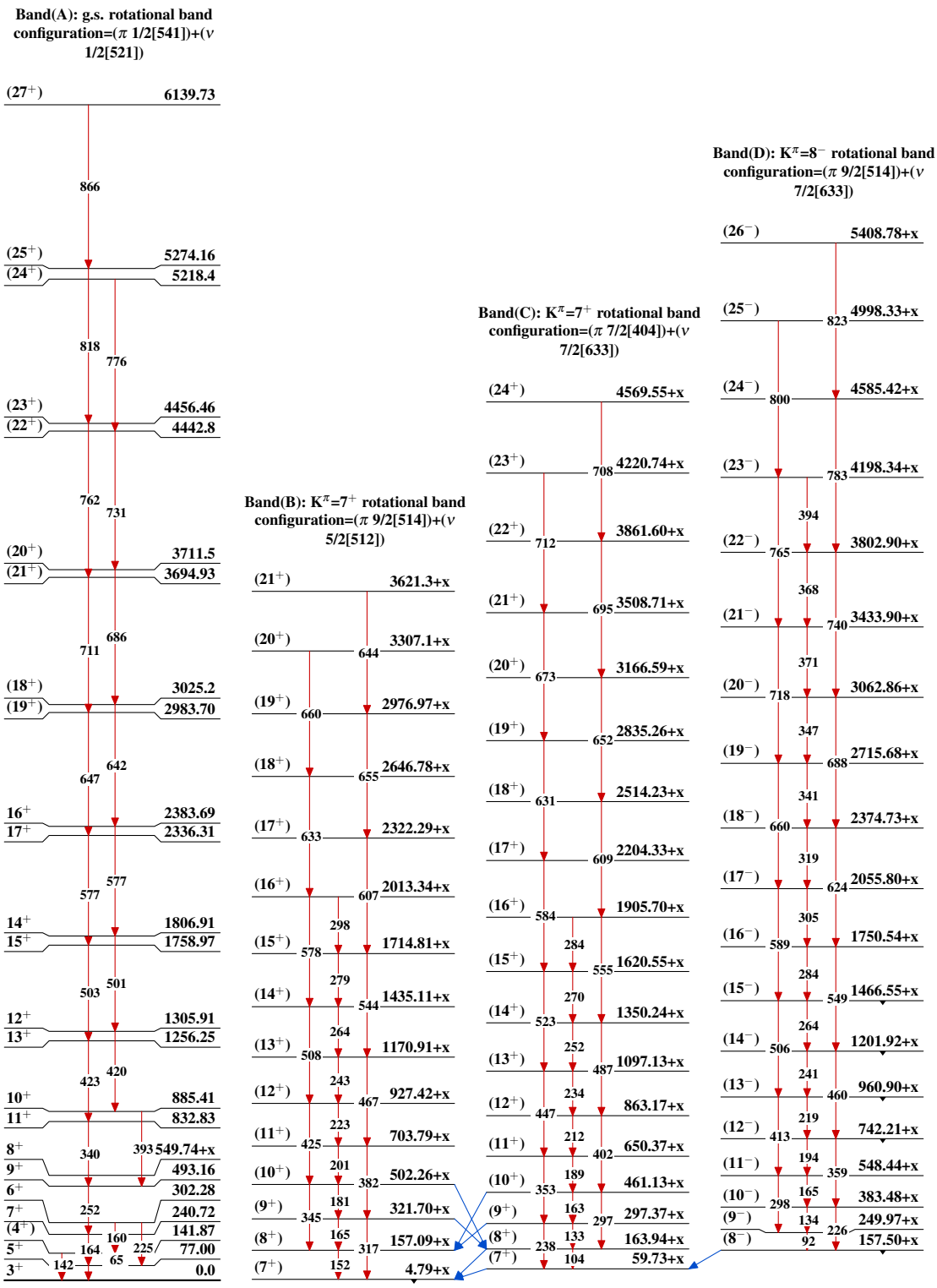
Level Scheme (continued)

Intensities: Type not specified



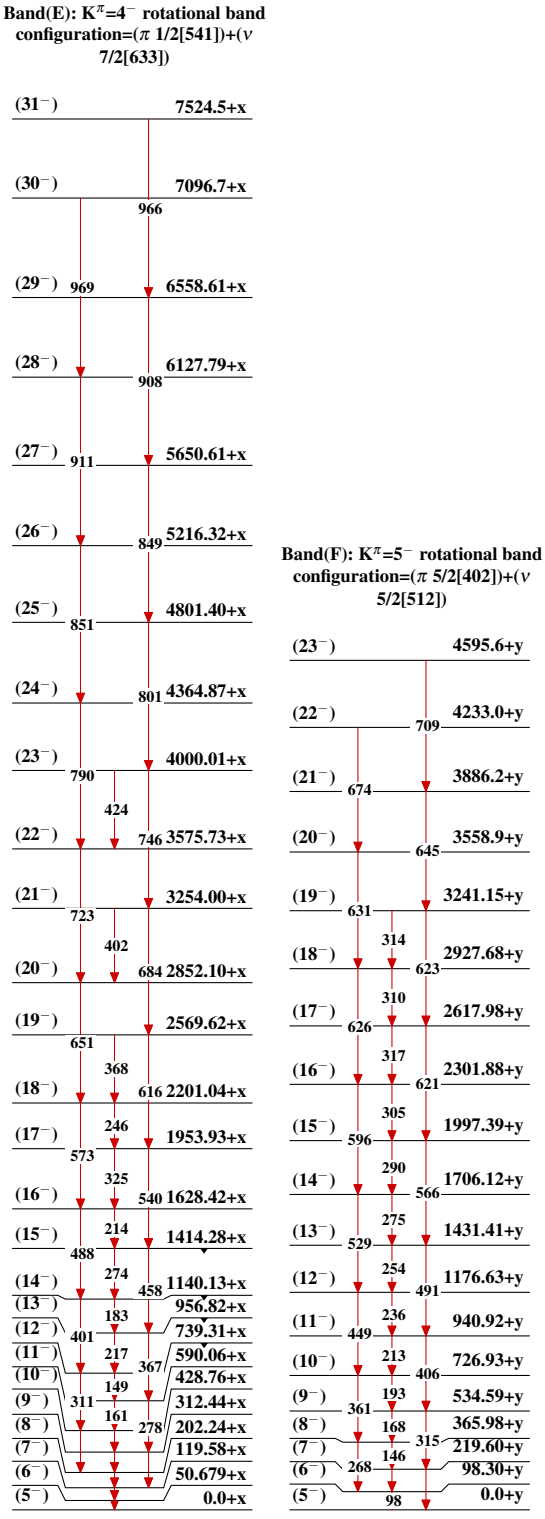
$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas



$^{174}_{73}Ta_{101}$

Adopted Levels, Gammas (continued)



$^{174}_{73}Ta_{101}$