^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11

History

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

1999Li03: E(^{36}S)=177 MeV. Measured Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$(DCO) using OSIRIS and GASP arrays. The OSIRIS array consisted of 12 Compton-suppressed Ge detectors and 48 BGO crystals. The GASP array consisted of 40 Compton-suppressed Ge detectors and 80 BGO inner-ball detectors.

1990Ka11: E(^{34}S)=157 MeV. Measured Eγ, Iγ with an intrinsic Ge detector at 0° in coincidence with an 8-element Na(Tl) Sum Spectrometer; deduced $T_{1/2}$ using the Recoil-Distance method and the Argonne plunger device.

Other: 1987Rz01 using ^{150}Nd(^{34}S,4nγ) measured Eγ-Eγ correlations with an array of six Compton-suppressed Ge detectors; suggested superdeformation at high spins with an axis ratio of 1.76.

^{180}Os Levels

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$[#]	Comments
0.0[&]	0$^+$		
132.00[&] 20	2$^+$	0.80 ns +21−14	
408.5[&] 3	4$^+$	27.0 ps 35	
794.7[&] 3	6$^+$	6.7 ps 17	
830.9 5	2$^+$		
1257.1[&] 4	8$^+$	6.9 ps 14	
1514.6 5	4$^+$		
1514.9[h] 6	4$^-$		
1604.9[d] 4	5$^-$		
1761.8[h] 5	6$^-$		
1766.6[&] 4	10$^+$		
1862.9[d] 4	7$^-$		
1877.2 4	6$^+$		
1928.2[a] 4	7$^-$	17 ns 3	$T_{1/2}$: from 1999Li03.
1987.0[b] 6	8$^-$		
2086.7[h] 5	8$^-$		
2113.0[a] 6	9$^-$		
2176.1[d] 4	9$^-$		
2276.1[b] 6	10$^-$		
2285.6[c] 4	(9$^-$)		
2308.0[&] 4	12$^+$		
2428.8[g] 10	(7$^+$)		
2463.2[h] 5	10$^-$		
2467.5[a] 6	11$^-$		
2545.5[d] 4	11$^-$		
2598.7[g] 8	(9$^+$)		
2674.7[c] 4	(11$^-$)		
2684.0[b] 6	12$^-$		
2695.1[i] 6	12$^+$		
2874.3[&] 5	14$^+$		
2914.7[g] 6	(11$^+$)		
2918.9[h] 5	12$^-$		
2919.8[a] 6	13$^-$		
2983.3[d] 5	13$^-$		
3007.1[i] 5	14$^+$		

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^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11 (continued)

^{180}Os Levels (continued)

E(level)[†]	J^π[‡]	$T_{1/2}$[#]	E(level)[†]	J^π[‡]	E(level)[†]	J^π[‡]
3138.5[c] *5*	(13^-)		4751.2[e] *9*	$(16)^-$	7031.2[b] *12*	26^-
3176.6[b] *6*	14^-		4769.2[c] *6*	(19^-)	7143.7[j] *10*	26^+
3341.7[g] *8*	(13^+)		4820.2[j] *6*	20^+	7180.2[d] *9*	27^-
3401.9[i] *5*	16^+		4978.2[b] *8*	20^-	7289.3[h] *14*	26^-
3443.7[a] *6*	15^-		5037.7[f] *9*	$(17)^-$	7430.2[a] *13*	27^-
3450.9[h] *6*	14^-		5046.0[d] *6*	21^-	7533.2[c] *11*	(27^-)
3477.5[d] *5*	15^-		5163.8[h] *10*	20^-	7614.3[i] *11*	28^+
3493.7[j] *5*	16^+		5235.5[i] *6*	22^+	7663.5[g] *15*	(25^+)
3656.0[c] *5*	(15^-)		5253.4[g] *12*	(19^+)	7842.9[b] *13*	28^-
3704.3[f] *7*	$(11)^-$	≤5[@] ns	5294.1[a] *9*	21^-	8013.4[j] *12*	28^+
3735.2[b] *6*	16^-		5348.5[e] *9*	$(18)^-$	8064.1[d] *11*	29^-
3856.2[e] *8*	$(12)^-$		5386.5[c] *6*	(21^-)	8302.3[a] *14*	29^-
3885.2[g] *10*	(15^+)		5549.5[j] *8*	22^+	8346.3[c] *12*	(29^-)
3925.0[i] *5*	18^+		5625.7[b] *10*	22^-	8553.6[i] *12*	30^+
3982.8[d] *5*	17^-		5667.6[d] *6*	23^-	8571.8[g] *16*	(27^+)
4026.7[h] *8*	16^-		5787.0[h] *12*	22^-	8740.2[b] *14*	30^-
4031.7[a] *6*	17^-		5951.2[a] *10*	23^-	8917.1[j] *13*	30^+
4038.0[f] *8*	$(13)^-$		5980.4[i] *8*	24^+	9022.4[d] *12*	31^-
4133.4[j] *6*	18^+		6023.5[g] *13*	(21^+)	9218.1[c] *13*	(31^-)
4200.1[c] *5*	(17^-)		6054.4[c] *8*	(23^-)	9275.8[a] *14*	31^-
4249.0[e] *8*	$(14)^-$		6298.4[b] *11*	24^-	9595.0[i] *13*	32^+
4342.7[b] *7*	18^-		6322.4[j] *9*	24^+	9717.8[b] *15*	32^-
4487.1[f] *8*	$(15)^-$		6378.5[d] *8*	25^-	9844.4[j] *14*	32^+
4498.0[d] *6*	19^-		6495.2[h] *13*	24^-	10050.2[d] *13*	33^-
4530.1[g] *11*	(17^+)		6652.1[a] *12*	25^-	10149.9[c] *14*	(33^-)
4541.7[i] *6*	20^+		6766.1[i] *9*	26^+	10736.7?[i] *14*	34^+
4598.9[h] *9*	18^-		6770.3[c] *9*	(25^-)	11144.7?[c] *15*	(35^-)
4651.8[a] *8*	19^-		6822.6[g] *14*	(23^+)		

† From a least-squares fit to Eγ by evaluator.

‡ As proposed in 1999Li03 based on DCO ratios, assumed band structure, and γ-decay pattern.

\# From Recoil-Distance method in 1990Ka11, except where noted.

@ From $\gamma\gamma$(t) in 1999Li03.

& Band(A): g.s. band.

a Band(B): (π=−,α=1), AE to AEBC.

b Band(C): (π=−,α=0), AF to AFBC.

c Band(D): (π=−,α=1), AG to AGBC or ABCG to ABCGEF.

d Band(E): (π=−,α=1), BF to BFAD.

e Band(F): (ν7/2[633]ν7/2[514])$_{7-}$(π9/2[514]π1/2[541]) (π=−,α=0).

f Band(G): (ν7/2[633]ν7/2[514])$_{7-}$(π9/2[514]π1/2[541]) (π=−,α=1).

g Band(H): (π=+,α=1), AC to ACEF.

h Band(I): (π=−,α=0), BE to BEAD.

i Band(J): (π=+,α=0), ground band to AB, AB to ABEF.

j Band(K): (π=+,α=0), ground band to BC, BC to BCEF.

^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11 (continued)

γ(^{180}Os)

R(DCO) from 1999Li03 using OSIRIS spectrometer. With detector setup R(DCO) is defined as 1 for stretched quadrupole or unstretched pure dipole transitions and 0.66 for stretched pure dipole or unstretched pure quadrupole transitions.

E_γ†	I_γ‡&	E_i(level)	J_i^π	E_f	J_f^π	Mult.@	Comments
51.7		1928.2	7⁻	1877.2	6⁺		E_γ: from 1989Kr01.
(59)		1987.0	8⁻	1928.2	7⁻		
111.3 *5*	1.5 *5*	2285.6	(9⁻)	2176.1	9⁻		
126.0 *5*	1.1 *3*	2113.0	9⁻	1987.0	8⁻	D	DCO=0.33 *14*.
132.0 *2*	63 *7*	132.00	2⁺	0.0	0⁺	Q	DCO=1.07 *20*.
151.9 *5*	0.6 *2*	3856.2	(12)⁻	3704.3	(11)⁻	(D+Q)	DCO=1.0 *4*.
163.1 *5*	1.0 *3*	2276.1	10⁻	2113.0	9⁻	D	DCO=0.34 *10*.
169.9 *5*	0.2 *1*	2598.7	(9⁺)	2428.8	(7⁺)		
181.5 *5*	1.5 *5*	4038.0	(13)⁻	3856.2	(12)⁻		
184.0 *5*	1.2 *4*	2113.0	9⁻	1928.2	7⁻		
191.9 *5*	0.9 *3*	2467.5	11⁻	2276.1	10⁻	D	DCO=0.28 *20*.
210.6 *5*	0.8 *3*	4249.0	(14)⁻	4038.0	(13)⁻		
217.1 *5*	0.8 *3*	2684.0	12⁻	2467.5	11⁻	D	DCO=0.32 *17*.
223.5 *5*	0.6 *2*	2086.7	8⁻	1862.9	7⁻	D(+Q)	DCO=0.87 *16*.
235.8 *5*	0.9 *3*	2919.8	13⁻	2684.0	12⁻	D	DCO=0.42 *11*.
238.2 *5*	0.6 *2*	4487.1	(15)⁻	4249.0	(14)⁻		
247.5 *5*	0.7 *2*	1761.8	6⁻	1514.9	4⁻	Q	DCO=0.9 *3*.
256.6 *5*	0.9 *3*	3176.6	14⁻	2919.8	13⁻	D	DCO=0.3 *3*.
258.0 *5*	7.6 *23*	1862.9	7⁻	1604.9	5⁻		
263.8 *5*	0.9 *3*	4751.2	(16)⁻	4487.1	(15)⁻		
266.7 *5*	1.0 *3*	3443.7	15⁻	3176.6	14⁻	D	DCO=0.42 *22*.
276.3 *2*	100 *10*	408.5	4⁺	132.00	2⁺	Q	DCO=1.03 *6*.
286.8 *5*	0.9 *3*	5037.7	(17)⁻	4751.2	(16)⁻		
287.8 *5*	1.0 *3*	2463.2	10⁻	2176.1	9⁻		
289.1 *5*	2.4 *7*	2276.1	10⁻	1987.0	8⁻	Q	DCO=0.89 *15*.
290.2 *5*	0.9 *3*	3735.2	16⁻	3443.7	15⁻		
295.8 *5*	1.2 *4*	4031.7	17⁻	3735.2	16⁻		
311.3 *5*	0.1 *1*	4342.7	18⁻	4031.7	17⁻		
311.3 *5*	0.7 *2*	5348.5	(18)⁻	5037.7	(17)⁻		
312.1 *5*	2.6 *8*	3007.1	14⁺	2695.1	12⁺		
313.1 *2*	10.6 *11*	2176.1	9⁻	1862.9	7⁻	Q	DCO=1.19 *16*.
316.0 *5*	0.3 *1*	2914.7	(11⁺)	2598.7	(9⁺)	Q	DCO=1.00 *17*.
322.8 *5*	1.9 *6*	1928.2	7⁻	1604.9	5⁻	(Q)	DCO=0.8 *3*.
324.9 *5*	4.2 *13*	2086.7	8⁻	1761.8	6⁻	Q	DCO=0.93 *13*.
333.7 *5*	1.4 *4*	4038.0	(13)⁻	3704.3	(11)⁻		
353.6 *5*	4.1 *12*	2467.5	11⁻	2113.0	9⁻	Q	DCO=0.94 *8*.
363.2 *5*	1.3 *4*	1877.2	6⁺	1514.9	4⁻		
368.5 *2*	16.0 *16*	2545.5	11⁻	2176.1	9⁻	Q	DCO=1.04 *12*.
373.7 *5*	0.7 *2*	2918.9	12⁻	2545.5	11⁻		
376.2 *5*	5.1 *15*	2463.2	10⁻	2086.7	8⁻	Q	DCO=1.14 *21*.
386.2 *2*	93 *9*	794.7	6⁺	408.5	4⁺	Q	DCO=1.02 *7*.
387.2 *5*	3.7 *11*	2695.1	12⁺	2308.0	12⁺		
389.3 *2*	10.2 *10*	2674.7	(11⁻)	2285.6	(9⁻)	Q	DCO=0.84 *12*.
393.2 *5*	0.6 *2*	4249.0	(14)⁻	3856.2	(12)⁻		
395.1 *2*	13.2 *13*	3401.9	16⁺	3007.1	14⁺	Q	DCO=0.97 *10*.
407.3 *5*	4.2 *13*	2684.0	12⁻	2276.1	10⁻	Q	DCO=0.93 *8*.
408.6 *5*	2.8 *8*	2176.1	9⁻	1766.6	10⁺	D	DCO=0.74 *22*.
422.8 *5*	6.4 *19*	2285.6	(9⁻)	1862.9	7⁻		
427.0 *5*	1.1 *3*	3341.7	(13⁺)	2914.7	(11⁺)	Q	DCO=0.83 *19*.
437.8 *2*	17.6 *18*	2983.3	13⁻	2545.5	11⁻	Q	DCO=1.03 *14*.
449.1 *5*	0.8 *3*	4487.1	(15)⁻	4038.0	(13)⁻		

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$^{150}Nd(^{36}S,6n\gamma),^{150}Nd(^{34}S,4n\gamma)$ 1999Li03,1990Ka11 (continued)

$\gamma(^{180}Os)$ (continued)

E_γ [†]	I_γ [‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	Comments
451.4 *5*	8.6 *26*	2919.8	13⁻	2467.5	11⁻	Q	DCO=1.09 *7*.
456.1 *5*	4.2 *13*	2918.9	12⁻	2463.2	10⁻	Q	DCO=1.12 *24*.
462.3 *2*	99 *10*	1257.1	8⁺	794.7	6⁺	Q	DCO=0.95 *7*.
464.1 *2*	13.9 *14*	3138.5	(13⁻)	2674.7	(11⁻)		
466.9 *5*	0.7 *2*	3450.9	14⁻	2983.3	13⁻		
492.8 *5*	7.6 *23*	3176.6	14⁻	2684.0	12⁻	Q	DCO=0.99 *11*.
494.4 *2*	14.8 *15*	3477.5	15⁻	2983.3	13⁻	Q	DCO=1.01 *15*.
499.8 *5*	0.6 *2*	2674.7	(11⁻)	2176.1	9⁻		
502.2 *5*	2.0 *6*	4751.2	(16)⁻	4249.0	(14)⁻		
505.3 *2*	10.2 *10*	3982.8	17⁻	3477.5	15⁻	Q	DCO=0.98 *14*.
510.0 *2*	91 *9*	1766.6	10⁺	1257.1	8⁺	Q	DCO=0.98 *6*.
515.2 *2*	18.5 *19*	4498.0	19⁻	3982.8	17⁻	Q	DCO=1.12 *22*.
517.5 *2*	20.5 *21*	3656.0	(15⁻)	3138.5	(13⁻)	Q	DCO=1.12 *7*.
523.1 *2*	19.4 *20*	3925.0	18⁺	3401.9	16⁺	Q	DCO=0.99 *5*.
523.8 *2*	11.0 *11*	3443.7	15⁻	2919.8	13⁻	Q	DCO=1.03 *9*.
527.3 *2*	29 *3*	3401.9	16⁺	2874.3	14⁺	Q	DCO=0.95 *7*.
532.7 *5*	4.1 *12*	3450.9	14⁻	2918.9	12⁻	Q	DCO=0.86 *22*.
538.9 *5*	4.3 *13*	3982.8	17⁻	3443.7	15⁻	Q	DCO=1.13 *25*.
541.2 *2*	76 *8*	2308.0	12⁺	1766.6	10⁺	Q	DCO=1.13 *7*.
543.5 *5*	4.2 *13*	3885.2	(15⁺)	3341.7	(13⁺)	Q	DCO=0.9 *3*.
544.1 *2*	18.1 *18*	4200.1	(17⁻)	3656.0	(15⁻)	Q	DCO=1.15 *7*.
548.0 *2*	15.6 *16*	5046.0	21⁻	4498.0	19⁻	Q	DCO=0.89 *13*.
550.8 *5*	0.2 *1*	5037.7	(17)⁻	4487.1	(15)⁻		
554.9 *5*	2.7 *8*	4031.7	17⁻	3477.5	15⁻	Q	DCO=1.02 *23*.
558.9 *5*	9.2 *9*	3735.2	16⁻	3176.6	14⁻	Q	DCO=0.89 *14*.
564.9 *5*	3.8 *11*	5163.8	20⁻	4598.9	18⁻		
566.1 *2*	62 *6*	2874.3	14⁺	2308.0	12⁺	Q	DCO=1.08 *8*.
569.1 *2*	15.4 *15*	4769.2	(19⁻)	4200.1	(17⁻)	Q	DCO=1.03 *11*.
572.2 *5*	4.0 *12*	4598.9	18⁻	4026.7	16⁻	Q	DCO=0.96 *19*.
575.8 *5*	5.2 *16*	4026.7	16⁻	3450.9	14⁻	Q	DCO=1.08 *19*.
588.3 *5*	7.1 *21*	4031.7	17⁻	3443.7	15⁻	Q	DCO=0.93 *11*.
591.8 *5*	1.0 *3*	3138.5	(13⁻)	2545.5	11⁻		
596.8 *5*	3.5 *11*	5348.5	(18)⁻	4751.2	(16)⁻		
604.7 *5*	8.7 *26*	1862.9	7⁻	1257.1	8⁺	D	DCO=0.64 *7*.
607.2 *5*	8.6 *25*	4342.7	18⁻	3735.2	16⁻	Q	DCO=1.08 *11*.
616.7 *2*	16.8 *17*	4541.7	20⁺	3925.0	18⁺	Q	DCO=1.01 *7*.
617.3 *2*	14.1 *14*	5386.5	(21⁻)	4769.2	(19⁻)	Q	DCO=1.01 *16*.
619.4 *2*	21.6 *22*	3493.7	16⁺	2874.3	14⁺	Q	DCO=1.01 *6*.
620.1 *5*	8.2 *25*	4651.8	19⁻	4031.7	17⁻	Q	DCO=0.91 *17*.
621.6 *2*	13.1 *13*	5667.6	23⁻	5046.0	21⁻	Q	DCO=0.91 *16*.
623.2 *5*	4.3 *13*	5787.0	22⁻	5163.8	20⁻		
635.5 *5*	6.9 *21*	4978.2	20⁻	4342.7	18⁻	Q	DCO=0.96 *18*.
639.7 *2*	17.9 *18*	4133.4	18⁺	3493.7	16⁺	Q	DCO=1.02 *7*.
642.3 *5*	7.2 *22*	5294.1	21⁻	4651.8	19⁻	Q	DCO=1.10 *15*.
644.9 *5*	6.0 *6*	4530.1	(17⁺)	3885.2	(15⁺)	Q	DCO=1.11 *21*.
647.5 *5*	7.0 *21*	5625.7	22⁻	4978.2	20⁻	(Q)	DCO=0.85 *21*.
657.1 *5*	3.5 *11*	5951.2	23⁻	5294.1	21⁻	Q	DCO=1.0 *3*.
667.9 *5*	7.5 *23*	6054.4	(23⁻)	5386.5	(21⁻)	Q	DCO=1.0 *3*.
670.2 *5*	0.6 *2*	1928.2	7⁻	1257.1	8⁺		
672.7 *5*	6.3 *19*	6298.4	24⁻	5625.7	22⁻		
684.7 *5*	0.8 *3*	1514.6	4⁺	830.9	2⁺		
686.8 *2*	12.9 *13*	4820.2	20⁺	4133.4	18⁺	Q	DCO=0.97 *14*.
693.8 *2*	13.9 *14*	5235.5	22⁺	4541.7	20⁺	Q	DCO=1.04 *10*.
699.4 *2*	11.8 *12*	3007.1	14⁺	2308.0	12⁺	Q	DCO=1.06 *17*.
699.8 *5*	0.6 *2*	830.9	2⁺	132.00	2⁺		
700.9 *5*	1.5 *5*	6652.1	25⁻	5951.2	23⁻		

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^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11 (continued)

γ(^{180}Os) (continued)

Eγ[†]	Iγ[‡&]	Ei(level)	J_i^π	Ef	J_f^π	Mult.[@]	δ[@]	Comments
708.2 *5*	3.3 *10*	6495.2	24−	5787.0	22−			
710.9 *5*	7.6 *23*	6378.5	25−	5667.6	23−	Q		DCO=0.94 *25*.
715.9 *5*	4.8 *14*	6770.3	(25−)	6054.4	(23−)			
723.3 *5*	2.3 *7*	5253.4	(19+)	4530.1	(17+)	(Q)		DCO=0.78 *15*.
729.3 *5*	8.2 *25*	5549.5	22+	4820.2	20+	Q		DCO=1.05 *17*.
732.8 *5*	4.3 *13*	7031.2	26−	6298.4	24−			
744.9 *5*	9.8 *10*	5980.4	24+	5235.5	22+	Q		DCO=1.08 *18*.
762.9 *5*	3.0 *9*	7533.2	(27−)	6770.3	(25−)			
770.1 *5*	2.9 *9*	6023.5	(21+)	5253.4	(19+)	(Q)		DCO=0.9 *4*.
772.8 *5*	8.4 *25*	6322.4	24+	5549.5	22+	(Q)		DCO=0.8 *4*.
778.1 *5*	2.1 *6*	7430.2	27−	6652.1	25−			
783.5 *5*	0.7 *2*	2545.5	11−	1766.6	10+	D		DCO=0.6 *3*.
785.7 *5*	6.4 *19*	6766.1	26+	5980.4	24+	Q		DCO=1.1 *3*.
794.1 *5*	0.9 *3*	7289.3	26−	6495.2	24−			
799.1 *5*	1.2 *4*	6822.6	(23+)	6023.5	(21+)			
801.7 *5*	5.1 *15*	7180.2	27−	6378.5	25−			
810.0 *5*	3.0 *9*	1604.9	5−	794.7	6+	D		DCO=0.76 *23*.
811.7 *5*	1.6 *5*	7842.9	28−	7031.2	26−			
813.1 *5*	1.5 *5*	8346.3	(29−)	7533.2	(27−)			
821.3 *5*	4.1 *12*	7143.7	26+	6322.4	24+			
829.7 *5*	4.2 *13*	3138.5	(13−)	2308.0	12+			
840.9 *5*	1.3 *4*	7663.5	(25+)	6822.6	(23+)			
848.2 *5*	7.4 *22*	7614.3	28+	6766.1	26+			
869.7 *5*	1.7 *5*	8013.4	28+	7143.7	26+			
871.8 *5*	0.6 *2*	9218.1	(31−)	8346.3	(29−)			
872.1 *5*	0.5 *2*	8302.3	29−	7430.2	27−			
883.9 *5*	1.5 *5*	8064.1	29−	7180.2	27−			
[x]895[#]								
897.3 *5*	1.7 *5*	8740.2	30−	7842.9	28−			
903.7 *5*	0.8 *3*	8917.1	30+	8013.4	28+			
907.7 *5*	4.9 *15*	2674.7	(11−)	1766.6	10+	D		DCO=0.7 *3*.
908.2 *5*	0.8 *3*	8571.8	(27+)	7663.5	(25+)			
919.0 *5*	2.6 *8*	2176.1	9−	1257.1	8+			
927.3 *5*	0.6 *2*	9844.4	32+	8917.1	30+			
931.8 *5*	0.6 *2*	10149.9	(33−)	9218.1	(31−)			
939.3 *5*	1.4 *4*	8553.6	30+	7614.3	28+			
[x]948[#]								
958.3 *5*	1.3 *4*	9022.4	31−	8064.1	29−			
966.8 *5*	1.1 *3*	1761.8	6−	794.7	6+	D		DCO=1.6 *6*.
973.5 *5*	0.2 *1*	9275.8	31−	8302.3	29−			
977.5 *5*	0.3 *1*	9717.8	32−	8740.2	30−			
994.8[a] *5*	0.4 *1*	11144.7?	(35−)	10149.9	(33−)			
[x]1004[#]								
1020.2 *5*	1.1 *3*	3704.3	(11)−	2684.0	12−	D(+Q)	−0.5 +*2*−*20*	DCO=0.38 *13*.
1027.8 *5*	1.0 *3*	10050.2	33−	9022.4	31−			
1027.9 *5*	2.9 *9*	2285.6	(9−)	1257.1	8+			
1041.4 *5*	0.5 *2*	9595.0	32+	8553.6	30+			
[x]1077[#]								
1082.1 *5*	0.2 *1*	1877.2	6+	794.7	6+			
1106.4 *5*	0.2 *1*	1514.9	4−	408.5	4+			
1133.8 *5*	1.3 *4*	1928.2	7−	794.7	6+			
1141.7[a] *5*	0.2 *1*	10736.7?	34+	9595.0	32+			
1148.1 *5*	0.1 *1*	2914.7	(11+)	1766.6	10+			
1196.1 *5*	0.5 *2*	1604.9	5−	408.5	4+			

Continued on next page (footnotes at end of table)

^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11 (continued)

γ(^{180}Os) (continued)

E_γ †	I_γ ‡&	E_i(level)	J^π_i	E_f	J^π_f	Mult.@	Comments
1236.9 *5*	0.6 *2*	3704.3	(11)$^-$	2467.5	11$^-$	D(+Q)	DCO=1.9 *7*.
1468.6 *5*	0.1 *1*	1877.2	6$^+$	408.5	4$^+$		

† Uncertainty assigned by evaluator as 0.2 keV for Iγ>10 and 0.5 keV for Iγ<10, based on a general statement by 1999Li03.

‡ Uncertainty assigned by evaluator as 10% for Iγ>10 and 30% for Iγ<10, based on a general statement by 1999Li03.

In coincidence with Band(K).

@ From R(DCO) in 1999Li03.

& From the ^{150}Nd(^{36}S,6nγ) reaction at E(^{36}S)=177 MeV; normalized to Iγ(276γ)=100.

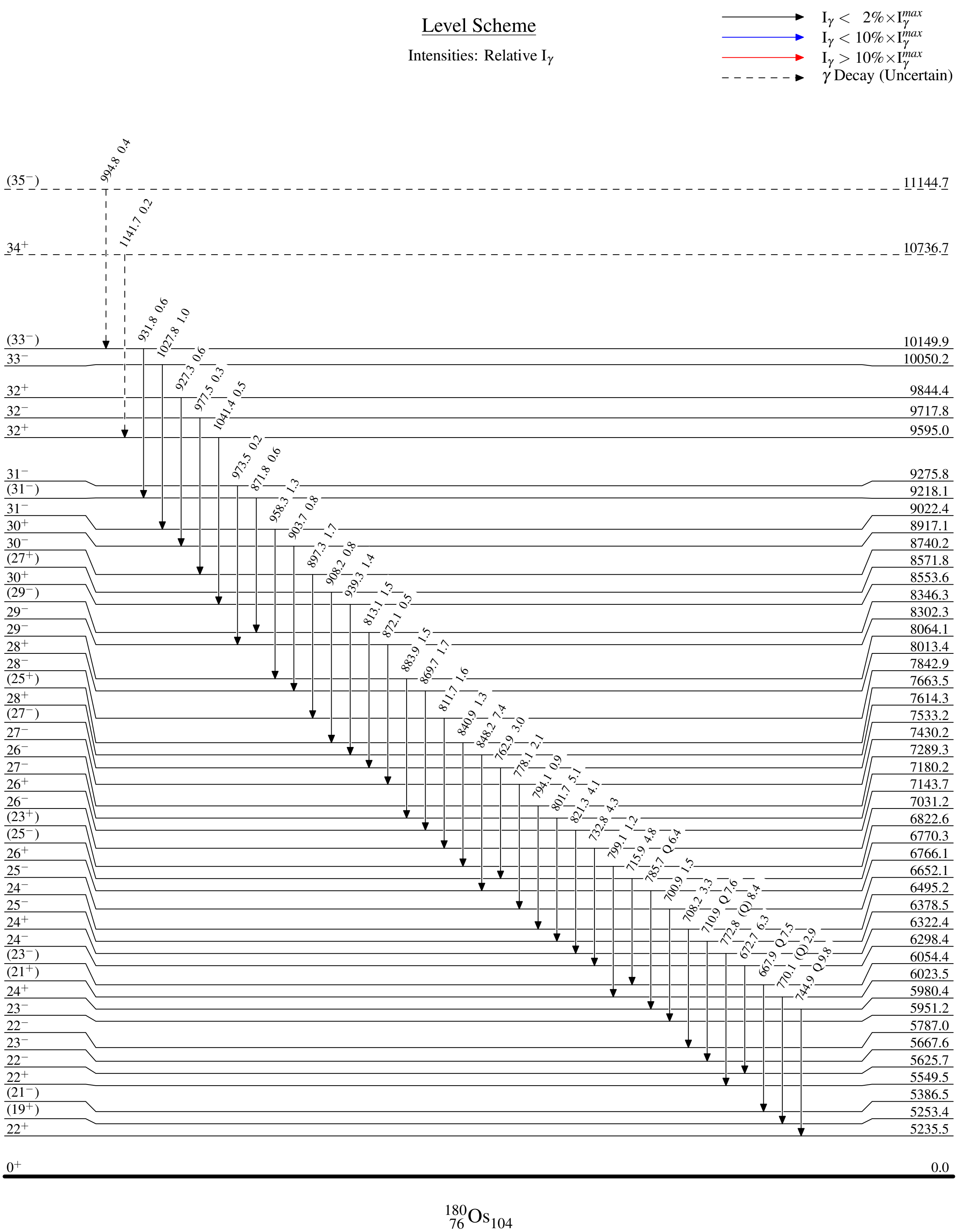
^{a} Placement of transition in the level scheme is uncertain.

^{x} γ ray not placed in level scheme.

^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11

Level Scheme

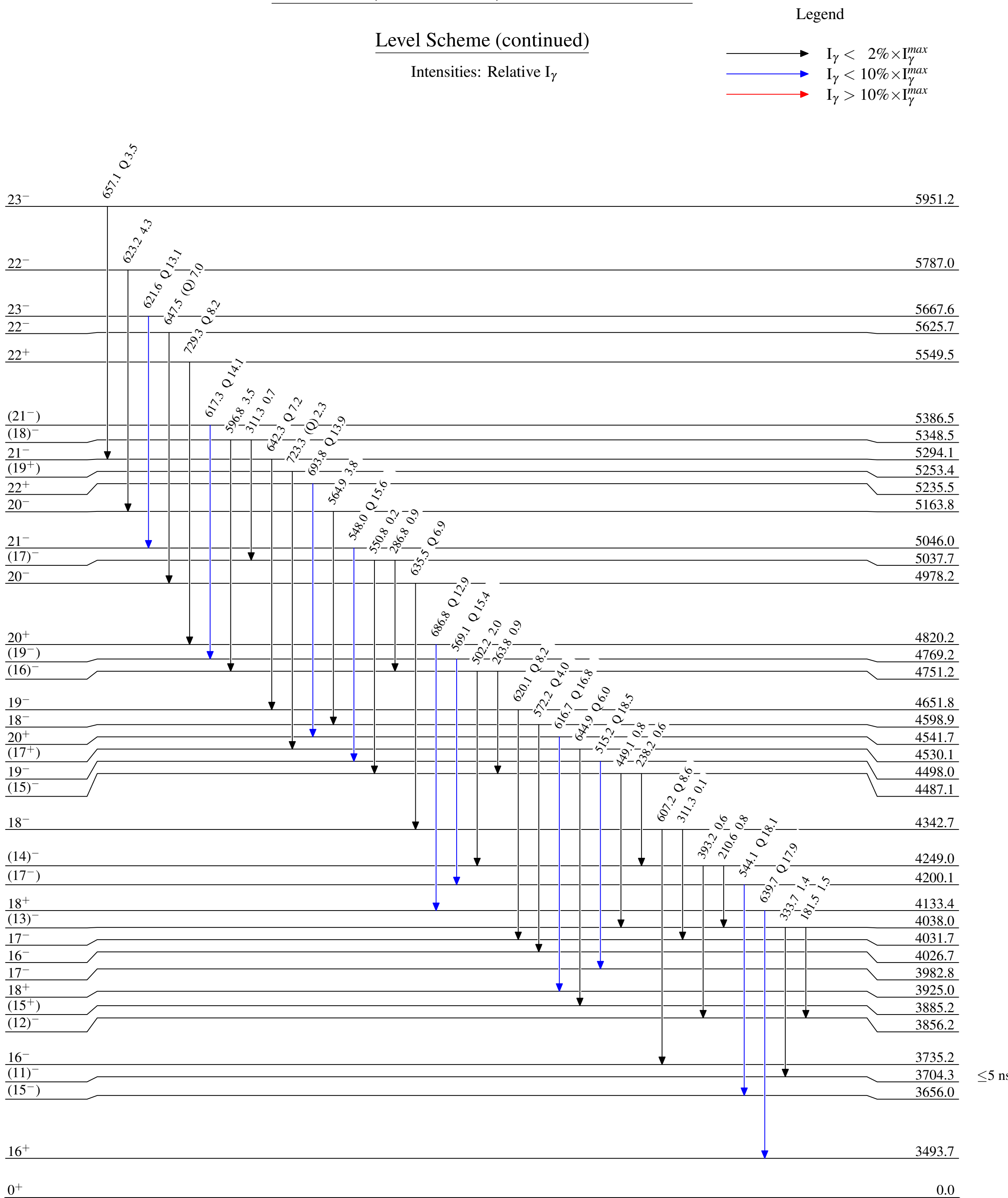
Intensities: Relative I_γ



^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11

Level Scheme (continued)

Intensities: Relative I_γ

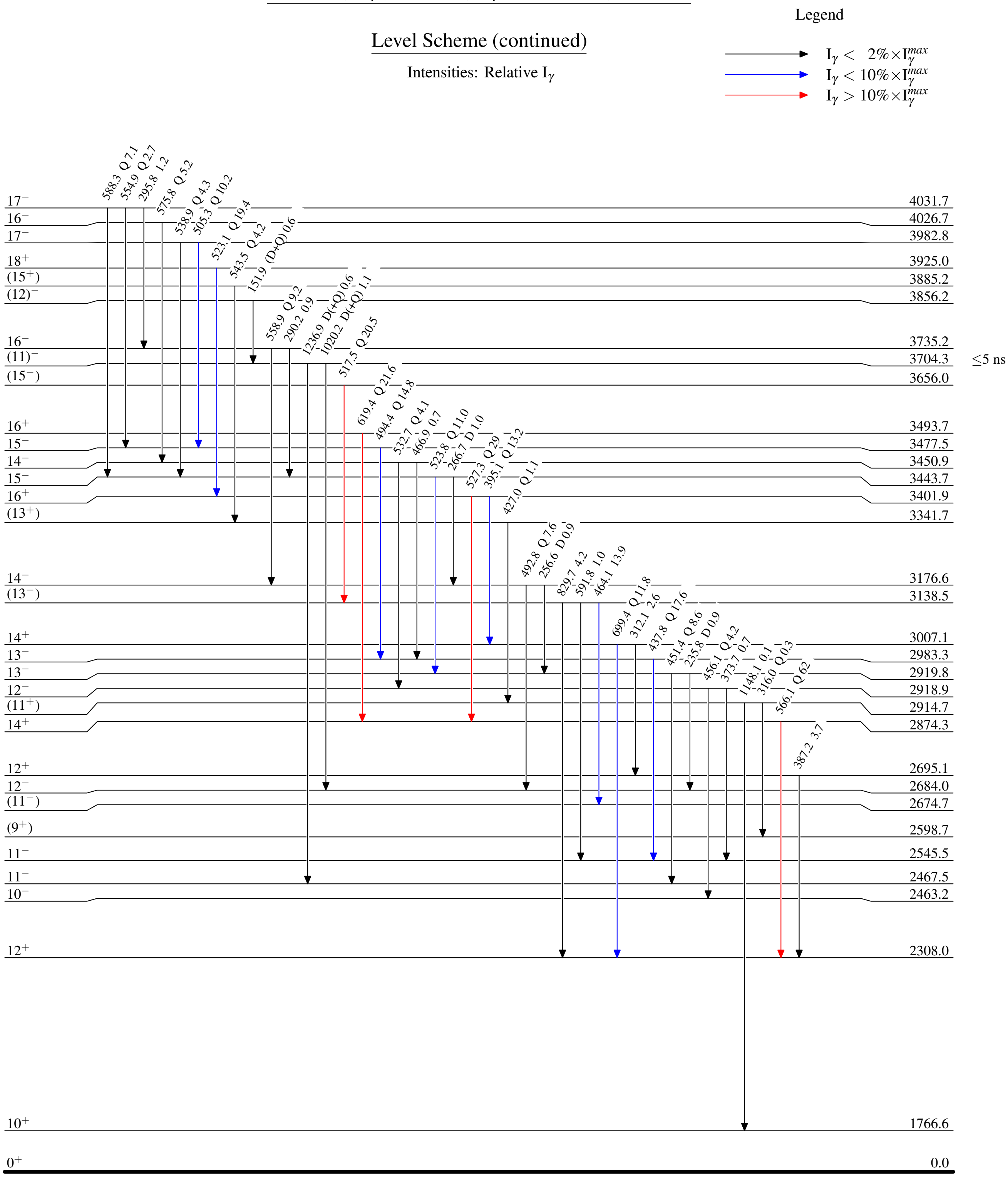


$^{180}_{76}Os_{104}$

$^{150}Nd(^{36}S,6n\gamma),^{150}Nd(^{34}S,4n\gamma)$ 1999Li03,1990Ka11

Level Scheme (continued)

Intensities: Relative I_γ

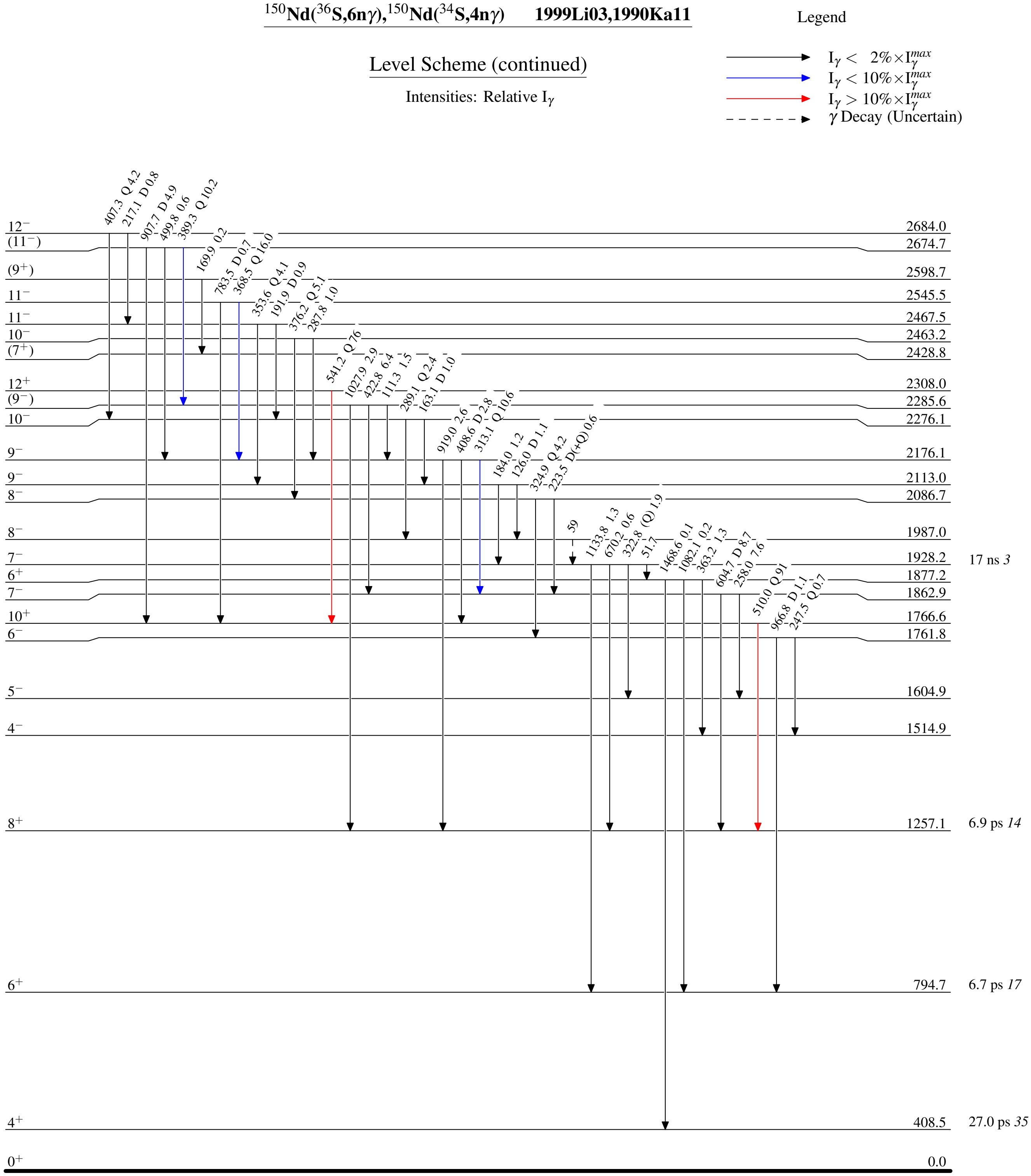


$^{180}_{76}Os_{104}$

^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11

Level Scheme (continued)

Intensities: Relative I_γ

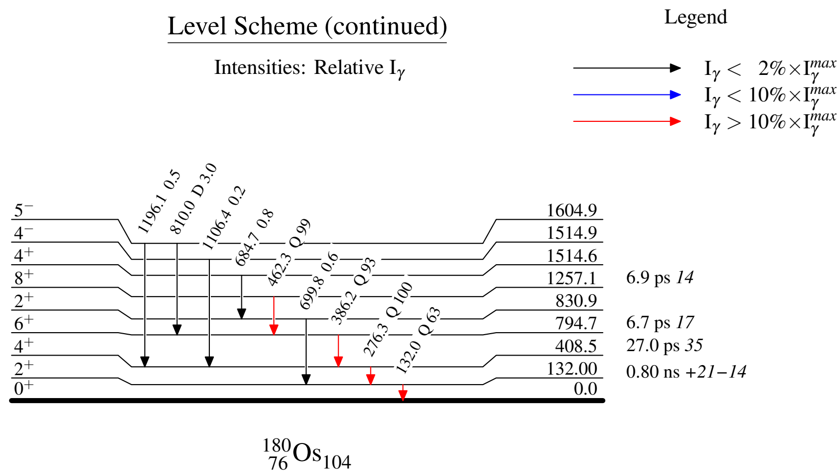


$^{180}_{76}Os_{104}$

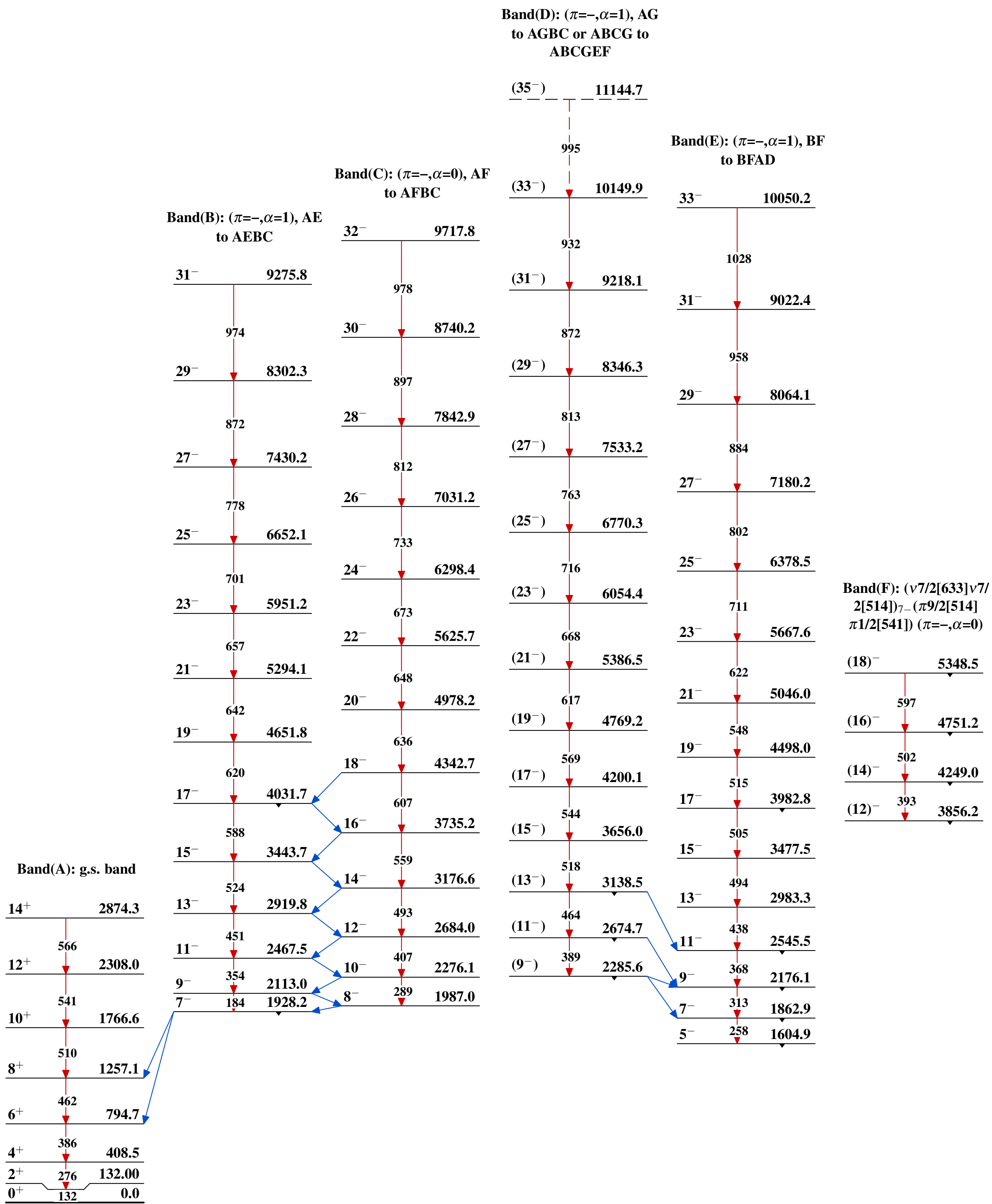
^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11

Level Scheme (continued)

Intensities: Relative I_γ

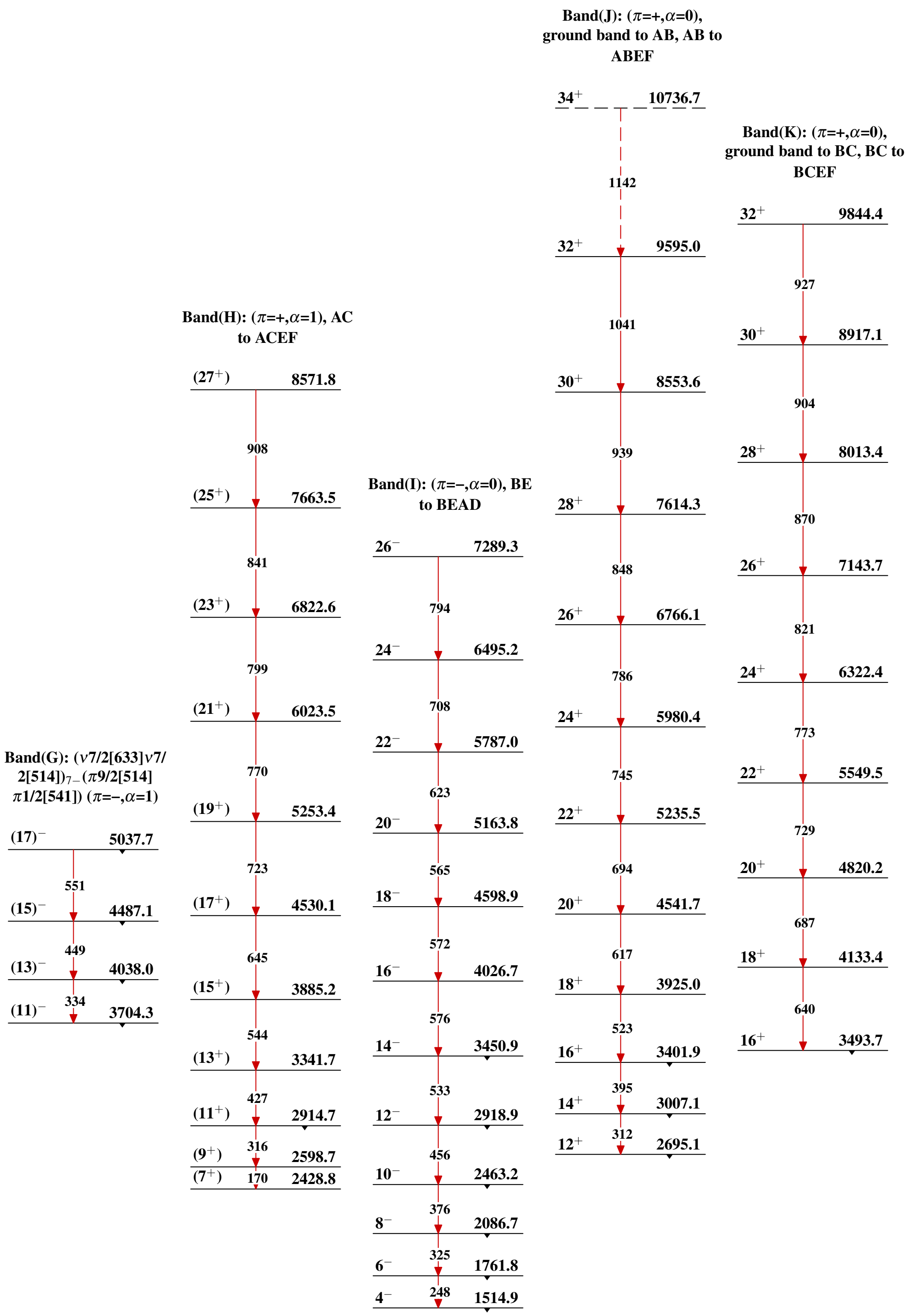


^{150}Nd(^{36}S,6nγ),^{150}Nd(^{34}S,4nγ) 1999Li03,1990Ka11



$^{180}_{76}Os_{104}$

$^{150}Nd(^{36}S,6n\gamma),^{150}Nd(^{34}S,4n\gamma)$ 1999Li03,1990Ka11 (continued)



$^{180}_{76}Os_{104}$