^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	11-Jul-2022

Delayed γ rays from 150-ns isomer.

1988Ch27: E=160 MeV. Measured γ, $\gamma\gamma$, $\gamma\gamma(\theta)$ (DCO at θ=35° and 90°). Decay scheme of the 150-ns isomer in ^{182}Os is established.

2003Pa39: measured Eγ, Iγ, $\gamma\gamma$. Bands observed based on 150-ns isomer. The authors mention that details of this experiment are to be published (ref. 10 in paper).

1991Br25: measurement of static Q of the 25^+ isomer by observation of time-dependent quadrupole interaction pattern of the γ radiation from the isomer implanted in a single crystal.

1989Al19: measurement of g factor of the 25^+ isomer by $\gamma(\theta$,H,t).

1990Gi07: ^{154}Sm(^{28}Si,X) and ^{166}Er(^{16}O,X). γ-ray multiplicity for the compound nucleus ^{182}Os is studied in this work.

See 1994Ho10 for calculation of yrast states using tilted-axis approach.

All data are from 1988Ch27, except those for the bands built on the 7049, 25^+ isomer. Full details of data from 2003Pa39 are to be published as stated by the authors.

^{182}Os Levels

E(level)	J^{π}[†]	$T_{1/2}$	Comments
0.0[@]	0^+		
127.1[@] 2	2^+		
400.2[@] 3	4^+		
794.0[@] 4	6^+		
1277.7[@] 4	8^+		
1811.7[@] 5	10^+		
1831.6[c] 11	8^-	0.78 ms 7	%IT=100 $T_{1/2}$: from γ(t) (1966Bu08). Deexciting transitions are not reported by 1988Ch27.
2013.1[c] 11	9^-		
2112.4[&] 6	8^+		
2219.2[c] 11	10^-		
2245.5[&] 6	9^+		
2345.7[@] 5	12^+		
2374.6[&] 5	10^+		
2448.1[c] 10	11^-		
2526.1[&] 5	11^+		
2671.7[&] 5	12^+		
2699.2[c] 11	12^-		
2840.3[@] 5	14^+		
2869.3[&] 5	13^+		
2971.1[c] 11	13^-		
3072.6[&] 5	14^+		
3290.8[g] 7	14^+		
3303.6[&] 6	15^+		
3319.7[@] 6	16^+		
3617.2[&] 5	16^+		
3643.6 9	(13^-)		$K^{\pi}=13^-$. Configuration=ν7/2[514]$\otimes\nu$9/2[624]$\otimes\pi$9/2[514]$\otimes\pi$1/2[541] (1988Ch27).
3840.1[&] 8	17^+		
3850.9[g] 7	16^+		
3856.7[@] 6	18^+		

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^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

^{182}Os Levels (continued)

E(level)	J^{π}†	$T_{1/2}$	Comments
3915.3 *7*	$15^{(+)}$		
3929.5[f] *6*	$15^{(+)}$		
3968.9[b] *7*	$14^{(-)}$		
4157.1 *6*	$16^{(+)}$		
4166.0[e] *6*	16^{+}		
4210.5[b] *7*	$15^{(-)}$		
4274.8[&] *6*	18^{+}		
4369.8[a] *7*	$16^{(+)}$	6 ns *2*	$T_{1/2}$: $\gamma\gamma$(t) (1988Ch27).
4425.3[f] *6*	$17^{(+)}$		
4437.0[d] *6*	17		
4468.5[g] *7*	18^{+}		
4475.7[&] *9*	19^{+}		
4480.0[@] *6*	20^{+}		
4515.8[b] *7*	$16^{(-)}$		
4682.1[a] *7*	$17^{(+)}$		
4712.9[e] *6*	$18^{(+)}$		
4760.8 *7*	18		
4879.1[b] *7*	$17^{(-)}$		
5004.8[a] *7*	$18^{(+)}$		
5023.9[&] *6*	20^{+}		
5024.0[f] *6*	$19^{(+)}$		
5062.9[d] *6*	19		
5142.1[g] *7*	20^{+}		
5180.3 *7*	18		
5192.0[@] *6*	22^{+}		
5204.7[&] *11*	21^{+}		
5332.4[a] *6*	$19^{(+)}$		
5357.8[e] *6*	$20^{(+)}$		
5485.5 *7*	19		
5674.2[d] *6*	21		
5713.2[f] *6*	$21^{(+)}$		
5777.6 *6*	$20^{(+)}$		$K^{\pi}=20^{+}$, configuration= ν7/2[503]⊗ν9/2[624]⊗ν7/2[514]⊗ν7/2[633]⊗π9/2[514]⊗π 1/2[541] (1988Ch27).
5809.9[&] *8*	22^{+}		
5982.9 *6*	$21^{(+)}$		$K^{\pi}=21^{+}$, configuration= ν9/2[505]⊗ν9/2[624]⊗ν7/2[514]⊗ν7/2[633]⊗π9/2[514]⊗π1/ 2[541] (1988Ch27).
5987.5[@] *7*	24^{+}		
6016.7[&] *12*	23^{+}		
6088.3[e] *6*	$22^{(+)}$		
6281.4 *6*	$22^{(+)}$		$K^{\pi}=22^{+}$, configuration= ν9/2[505]⊗ν11/2[615]⊗ν7/2[514]⊗ν7/2[633]⊗π9/2[514]⊗π1/ 2[541] (1988Ch27).
6322.2[d] *6*	23		
6483.2[f] *6*	$23^{(+)}$		
6543.4 *6*	$23^{(+)}$		$K^{\pi}=23^{+}$, configuration= ν9/2[505]⊗ν11/2[615]⊗ν7/2[514]⊗ν7/2[633]⊗π9/2[514]⊗π3/ 2[532] (1988Ch27).
6861.6[e] *6*	$24^{(+)}$		
6900.3 *7*	24		
7049.1[#h] *6*	$25^{(+)}$‡	150 ns *10*	Q=4.2 *2* (1991Br25); g=+0.425 *8* (1989Al19)

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^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

^{182}Os Levels (continued)

E(level)	J$^{\pi}$[†]	Comments
		Q: observation of time dependent quadrupole interaction pattern of γ radiation. g factor from $\gamma(\theta$,H,t). $K^{\pi}=25^{+}$, configuration= ν9/2[624]⊗ν7/2[633]⊗ν7/2[503]⊗ν7/2[514]⊗π9/2[514]⊗π11/2[505] (1989Al19,1988Ch27). This gives g factor=0.38. $T_{1/2}$: $\gamma\gamma$(t) (1989Al19). Other: 130 ns *20* (1988Ch27).
7485[#i] *2*	26^{+}[‡]	
7925[#h] *2*	27^{+}[‡]	
8346[#i] *2*	28^{+}[‡]	
8699[#h] *2*	29^{+}[‡]	
9103[#i] *2*	30^{+}[‡]	
9596[#h] *2*	31^{+}[‡]	
9939[#i] *2*	32^{+}[‡]	
10509[#h] *2*	33^{+}[‡]	
10780[#i] *2*	34^{+}[‡]	
11307[#h] *2*	35^{+}[‡]	
11560[#i] *2*	36^{+}[‡]	
12098[#h] *2*	(37^{+})[‡]	
12371[#i] *2*	(38^{+})[‡]	

[†] From 1988Ch27. The authors assume ΔJ=2, quadrupole transitions as E2 and ΔJ=1, dipole+quadrupole transitions as M1+E2 in making these assignments. The assignments in Adopted Levels are consistent but many are placed in parentheses there.
[‡] From 2003Pa39.
[#] Uncertainty of 2 keV assigned by the evaluator.
[@] Band(A): $K^{\pi}=0^{+}$, g.s. band.
[&] Band(B): $K^{\pi}=2^{+}$ band.
[a] Band(C): $K^{\pi}=16^{+}$ band. Configuration=ν7/2[514]⊗ν9/2[624]⊗π5/2[402]⊗π 11/2[505] or ν9/2[505]⊗ν9/2[624]⊗ν7/2[514]⊗ν7/2[633] (1988Ch27).
[b] Band(D): $K^{\pi}=14^{-}$ band. Configuration=ν7/2[514]⊗ν9/2[624]⊗π9/2[514]⊗π3/2[532] (1988Ch27).
[c] Band(E): $K^{\pi}=8^{-}$ band. Configuration=ν7/2[514]⊗ν9/2[624] (1988Ch27).
[d] Band(F): ΔJ=2 sequence.
[e] Band(G): ΔJ=2 sequence.
[f] Band(H): ΔJ=2 sequence.
[g] Band(I): ΔJ=2 sequence.
[h] Band(J): Band built on $K^{\pi}=25^{+}$,α=1. Band from 2003Pa39.
[i] Band(j): Band built on $K^{\pi}=25^{+}$,α=0. Band from 2003Pa39.

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

$\gamma(^{182}Os)$

Iγ normalization: the level scheme of the isomer decay is incomplete. There is a large intensity imbalance in the excitation region of 2 to 4 MeV.

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α[f]	$I_{(\gamma+ce)}$	Comments
127.1 *2*	36[#]	127.1	2^+	0.0	0^+	E2[@]	1.69	97	
133.0 *5*	<1	2245.5	9^+	2112.4	8^+				
148.9 *5*	<1	7049.1	$25^{(+)}$	6900.3	24				
152.0 *5*	1	2526.1	11^+	2374.6	10^+				
159.3 *2*	3	4369.8	$16^{(+)}$	4210.5	$15^{(-)}$	(E1)[&b]	0.1183		Mult.: from intensity balance at 4370 level (in $\gamma\gamma$ data), α(exp)(159γ)=0.26 for mult(312γ)=E2 and α(exp)(159γ)=0.43 for mult(312γ)=M1.
[x]174.5 *5*	1								
181.5 *5*	1	2013.1	9^-	1831.6	8^-				
187.5 *2*	9	7049.1	$25^{(+)}$	6861.6	$24^{(+)}$	(M1+E2)[&b]			
[x]191.2 *5*	1								
198.1 *5*	2	2869.3	13^+	2671.7	12^+				
205.3 *2*	11	5982.9	$21^{(+)}$	5777.6	$20^{(+)}$	(M1+E2)[&b]			
206.1 *5*	<1	2219.2	10^-	2013.1	9^-				
[x]212.4 *5*	1								
[x]214.1 *2*	3								
229.0 *5*	<1	2448.1	11^-	2219.2	10^-				
230.0 *5*	<1	3303.6	15^+	3072.6	14^+				
[x]232.0 *2*	4								
241.6 *2*	3	4210.5	$15^{(-)}$	3968.9	$14^{(-)}$				
[x]246.5 *2*	4								
251.1 *5*	1	2699.2	12^-	2448.1	11^-				
253[e]		11560	36^+	11307	35^+				
[x]254.8 *5*	2								
259.4 *5*	<1	4425.3	$17^{(+)}$	4166.0	16^+				
262.0 *2*	19	6543.4	$23^{(+)}$	6281.4	$22^{(+)}$	(M1+E2)[&b]	0.26 *12*		
[x]268.4 *5*	1								
270[e]		10780	34^+	10509	33^+				
273[eg]		12371	(38^+)	12098	(37^+)				
273.1 *2*	83[#]	400.2	4^+	127.1	2^+	E2[@]	0.1214	93	
280.6 *2*	3	2526.1	11^+	2245.5	9^+				
287.8 *5*	2	4712.9	$18^{(+)}$	4425.3	$17^{(+)}$				
[x]292.0 *5*	4								
292.0 *2*	6	5777.6	$20^{(+)}$	5485.5	19				
298.5 *2*	17	6281.4	$22^{(+)}$	5982.9	$21^{(+)}$	(M1+E2)[&b]	0.18 *9*		
301.2 *2*	3	5180.3	18	4879.1	$17^{(-)}$				

$^{182}_{76}Os_{106}$-4

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

$\gamma(^{182}Os)$ (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α [f]	$I_{(\gamma+ce)}$
302.1 2	4	5062.9	19	4760.8	18			
305.0 5	2	4515.8	$16^{(-)}$	4210.5	$15^{(-)}$			
305.0 5	2	5485.5	19	5180.3	18			
311.0 5	<1	5024.0	$19^{(+)}$	4712.9	$18^{(+)}$			
312.3 2	10	4682.1	$17^{(+)}$	4369.8	$16^{(+)}$			
318.2 2	3	6861.6	$24^{(+)}$	6543.4	$23^{(+)}$			
322.8 5	<20 [d]	5004.8	$18^{(+)}$	4682.1	$17^{(+)}$			
323.7 5	<20 [d]	4760.8	18	4437.0	17			
325.3 5	<20 [d]	3968.9	$14^{(-)}$	3643.6	(13^-)			
327.6 5	<20 [d]	5332.4	$19^{(+)}$	5004.8	$18^{(+)}$			
x328.4 5	<20 [d]							
334.0 5	<1	5357.8	$20^{(+)}$	5024.0	$19^{(+)}$			
343 [e]		9939	32^+	9596	31^+			
343.3 2	8	2869.3	13^+	2526.1	11^+			
353 [e]		8699	29^+	8346	28^+			
355.6 5	2	5713.2	$21^{(+)}$	5357.8	$20^{(+)}$			
x361.5 2	3							
363.0 5	<1	4879.1	$17^{(-)}$	4515.8	$16^{(-)}$			
x367.1 5	2							
x373.6 5	2							
375.0 5	<1	6088.3	$22^{(+)}$	5713.2	$21^{(+)}$			
x387.0 5	2							
387.5 5	<1	2219.2	10^-	1831.6	8^-			
393.8 2	101 [#]	794.0	6^+	400.2	4^+	E2 [@]	0.0422	105
400.1 5	2	3072.6	14^+	2671.7	12^+			
404 [e]		9103	30^+	8699	29^+			
x414.0 5	1							
x417.6 5	2							
421 [e]		8346	28^+	7925	27^+			
x421.9 5	2							
x428.6 5	1							
434.4 2	12	3303.6	15^+	2869.3	13^+			
435.0 5	<1	2448.1	11^-	2013.1	9^-			
436 [e]		7485	26^+	7049.1	$25^{(+)}$			
x440.0 2	3							
440 [e]		7925	27^+	7485	26^+			
x443.0 5	1							
x447.8 5	1							
450.6 5	2	3290.8	14^+	2840.3	14^+			
x455.0 5	2							
479.5 2	25	3319.7	16^+	2840.3	14^+			

$^{182}_{76}Os_{106}$-5

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

$\gamma(^{182}Os)$ (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.
480.0 *5*	<1	2699.2	12^-	2219.2	10^-	
483.7 *2*	104	1277.7	8^+	794.0	6^+	
493[e]		9596	31^+	9103	30^+	
494.5 *2*	54	2840.3	14^+	2345.7	12^+	
495.8 *2*	3	4425.3	$17^{(+)}$	3929.5	$15^{(+)}$	Q[ab]
505.6 *2*	35	7049.1	$25^{(+)}$	6543.4	$23^{(+)}$	Q[ab]
509.9 *5*	2	4425.3	$17^{(+)}$	3915.3	$15^{(+)}$	
[x]512.6 *5*	1					
[x]518.3 *5*	2					
523.0 *5*	1	2971.1	13^-	2448.1	11^-	
527[e]		11307	35^+	10780	34^+	
534.0 *2*	89	1811.7	10^+	1277.7	8^+	Q[ab]
534.0 *2*	75	2345.7	12^+	1811.7	10^+	Q[ab]
536.5 *5*	<1	3840.1	17^+	3303.6	15^+	
537.0 *2*	17	3856.7	18^+	3319.7	16^+	
538[eg]		12098	(37^+)	11560	36^+	
544.6 *2*	5	3617.2	16^+	3072.6	14^+	
546.8 *2*	12	4712.9	$18^{(+)}$	4166.0	16^+	
547.0 *5*	<1	4515.8	$16^{(-)}$	3968.9	$14^{(-)}$	
555.7 *2*	5	4712.9	$18^{(+)}$	4157.1	$16^{(+)}$	
560.2 *5*	2	3850.9	16^+	3290.8	14^+	
566.0 *2*	8	7049.1	$25^{(+)}$	6483.2	$23^{(+)}$	
[x]568.9 *2*	3					
570[e]		10509	33^+	9939	32^+	
[x]577.9 *5*	1					
[x]585.6 *5*	1					
[x]590.3 *5*	2					
598.8 *2*	13	5024.0	$19^{(+)}$	4425.3	$17^{(+)}$	Q[ab]
[x]602.9 *5*	2					
611.3 *2*	10	5674.2	21	5062.9	19	
617.6 *2*	5	4468.5	18^+	3850.9	16^+	
623.2 *2*	7	4480.0	20^+	3856.7	18^+	
626.0 *2*	4	5062.9	19	4437.0	17	
[x]630.6 *5*	1					
[x]633.6 *2*	3					
635.0 *5*	<6[c]	5004.8	$18^{(+)}$	4369.8	$16^{(+)}$	
635.5 *5*	<6[c]	5777.6	$20^{(+)}$	5142.1	20^+	
635.6 *5*	<6[c]	4475.7	19^+	3840.1	17^+	
644.9 *2*	12	5357.8	$20^{(+)}$	4712.9	$18^{(+)}$	
648.0 *2*	14	6322.2	23	5674.2	21	
650.5 *5*	1	5332.4	$19^{(+)}$	4682.1	$17^{(+)}$	
650.5 *2*	9	5982.9	$21^{(+)}$	5332.4	$19^{(+)}$	Q[ab]
657.6 *2*	3	4274.8	18^+	3617.2	16^+	
[x]660.8 *5*	1					
668.6 *5*	<1	4879.1	$17^{(-)}$	4210.5	$15^{(-)}$	
673.6 *2*	4	5142.1	20^+	4468.5	18^+	
689.1 *2*	14	5713.2	$21^{(+)}$	5024.0	$19^{(+)}$	Q[ab]
[x]693.6 *5*	2					
[x]703.4 *2*	3					
712.0 *2*	4	5192.0	22^+	4480.0	20^+	
726.9 *2*	29	7049.1	$25^{(+)}$	6322.2	23	
727.0 *5*	<1	3072.6	14^+	2345.7	12^+	
729.0 *5*	<1	5204.7	21^+	4475.7	19^+	
730.5 *2*	10	6088.3	$22^{(+)}$	5357.8	$20^{(+)}$	
749.1 *2*	5	5023.9	20^+	4274.8	18^+	
[x]754.1 *5*	2					
[x]755.9 *5*	<1					
757[e]		9103	30^+	8346	28^+	
[x]758.2 *5*	1					
[x]763.3 *5*	1					
770.2 *2*	5	6483.2	$23^{(+)}$	5713.2	$21^{(+)}$	
773.3 *2*	9	6861.6	$24^{(+)}$	6088.3	$22^{(+)}$	
774[e]		8699	29^+	7925	27^+	
776.9 *2*	4	3617.2	16^+	2840.3	14^+	
[x]777.9 *5*	<1					
[x]779.4 *5*	<1					
780[e]		11560	36^+	10780	34^+	
[x]783.1 *5*	<1					
786.0 *5*	<1	5809.9	22^+	5023.9	20^+	
[x]787.2 *5*	<1					
[x]790.8 *5*	<1					
791[e]		12098	(37^+)	11307	35^+	
795.6 *5*	2	5987.5	24^+	5192.0	22^+	
[x]797.9 *5*	2					
798[e]		11307	35^+	10509	33^+	
[x]807.7 *5*	1					
811[e]		12371	(38^+)	11560	36^+	
812.0 *5*	2	6016.7	23^+	5204.7	21^+	
812.2 *5*	2	6900.3	24	6088.3	$22^{(+)}$	
[x]818.3 *5*	1					
[x]828.2 *5*	<1					
830.1 *2*	9	6543.4	$23^{(+)}$	5713.2	$21^{(+)}$	Q[ab]

$^{182}_{76}Os_{106}$-6

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

$\gamma(^{182}Os)$ (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π
x835.5 5	2				
837 e		9939	32^+	9103	30^+
841 e		10780	34^+	9939	32^+
x841.8 5	1				
x847.0 5	2				
x852.3 5	1				
x856.9 5	2				
859.9 2	7	2671.7	12^+	1811.7	10^+
861 e		8346	28^+	7485	26^+
x863.1 5	1				
x867.8 5	1				
x875.6 5	1				
876 e		7925	27^+	7049.1	$25^{(+)}$
x880.9 5	1				
x886.1 5	1				
x891.8 5	1				
896 e		9596	31^+	8699	29^+
x897.0 5	2				
x899.9 5	<1				
x903.4 5	1				
x913.6 5	1				
914 e		10509	33^+	9596	31^+
x918.3 5	<1				
x921.6 5	1				
x924.8 5	1				
x927.9 5	1				
x933.6 5	1				
x940.1 5	1				
x944.9 5	2				
x950.9 5	1				
955.2 5	<1	4274.8	18^+	3319.7	16^+
x957.6 5	1				
x962.8 5	1				
x966.0 5	1				
x971.4 5	1				
x974.9 5	1				
x981.5 5	1				
x985.8 5	1				
x990.6 5	2				
x994.8 5	<1				
x999.5 5	1				
x1007.0 5	<1				
x1014.9 5	1				

$^{182}_{76}Os_{106}$-7

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

$\gamma(^{182}Os)$ (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α [f]
[x]1017.3 *5*	<1							
[x]1026.5 *5*	<1							
[x]1039.1 *5*	1							
[x]1045.9 *5*	1							
[x]1054.4 *5*	<1							
[x]1058.6 *5*	1							
1061.6 *5*	2	7049.1	$25^{(+)}$	5987.5	24^+	(M1+E2)[&b]	−1.9 *+9−12*	0.0056 *15*
[x]1067.2 *5*	1							
1075.0 *5*	2	3915.3	$15^{(+)}$	2840.3	14^+			
[x]1084.6 *5*	1							
1089.3 *2*	5	3929.5	$15^{(+)}$	2840.3	14^+	(M1+E2)[&b]	−1.0 *+3−6*	0.0066 *11*
1097.0 *2*	3	2374.6	10^+	1277.7	8^+			
[x]1099.6 *5*	1							
[x]1111.6 *5*	1							
1117.3 *5*	2	4437.0	17	3319.7	16^+			
[x]1124.2 *5*	2							
[x]1127.8 *5*	1							
1130.2 *5*	1	6322.2	23	5192.0	22^+			
[x]1136.2 *5*	1							
[x]1139.4 *5*	1							
[x]1141.9 *5*	1							
1195.5 *5*	<1	3643.6	(13^-)	2448.1	11^-			
[x]1211.7 *5*	1							
[x]1226.2 *5*	1							
[x]1232.8 *5*	2							
[x]1254.1 *5*	1							
[x]1283.8 *5*	1							
[x]1303.2 *5*	<1							
1316.8 *5*	1	4157.1	$16^{(+)}$	2840.3	14^+			
1318.4 *5*	<1	2112.4	8^+	794.0	6^+			
1325.7 *2*	4	4166.0	16^+	2840.3	14^+	Q[ab]		
[x]1342.5 *5*	<1							
[x]1359.1 *5*	1							
[x]1498.5 *5*	<1							
1529.5 *5*	<1	4369.8	$16^{(+)}$	2840.3	14^+			

[†] 0.5-keV uncertainty assigned (evaluators) for I$\gamma\leq$2, based on statement by 1988Ch27 that it is 0.5 keV for weak and unresolved lines. Values are from 1988Ch27, unless otherwise stated.
[‡] Values are from 1988Ch27, unless otherwise stated.
[#] From I(γ+ce) and α.

$^{182}_{76}Os_{106}$-8

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)

$\gamma(^{182}Os)$ (continued)

@ From Adopted Gammas.
& DCO ratio consistent with ΔJ=1 transition with a significant δ(Q/D) value suggest M1+E2.
a DCO ratio consistent with ΔJ=2 (E2) transition.
b Angular correlation data are displayed in figure 5 of 1988Ch27.
c Iγ(635.0γ+635.5γ+635.6γ)=6.
d Iγ(322.8γ+323.7γ+325.3γ+327.6γ+328.4γ)=20.
e From 2003Pa39.
f 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.
g Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

$^{182}_{76}Os_{106}$-9

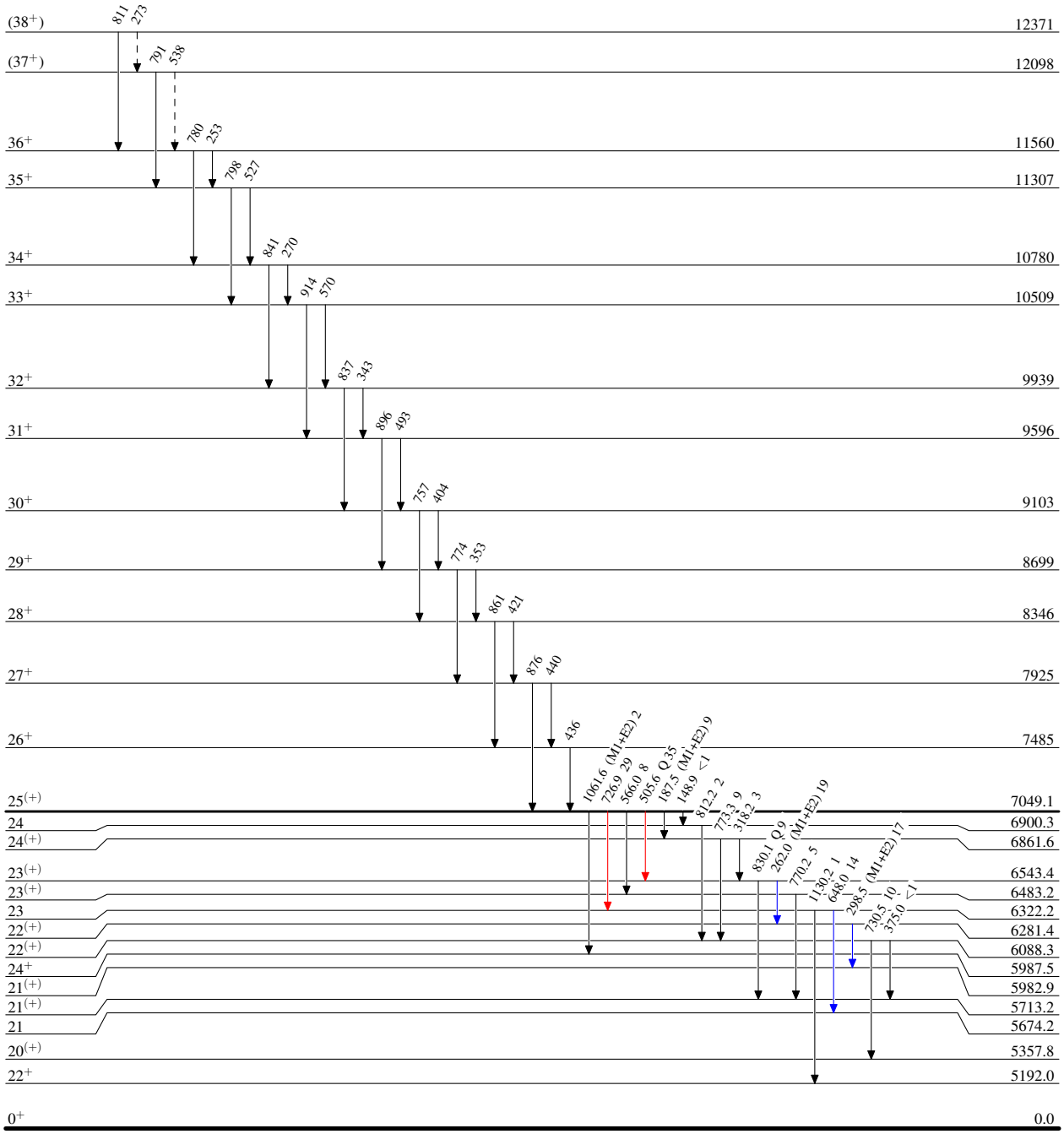
^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39

Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)



$^{182}_{76}Os_{106}$

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39

Level Scheme (continued)

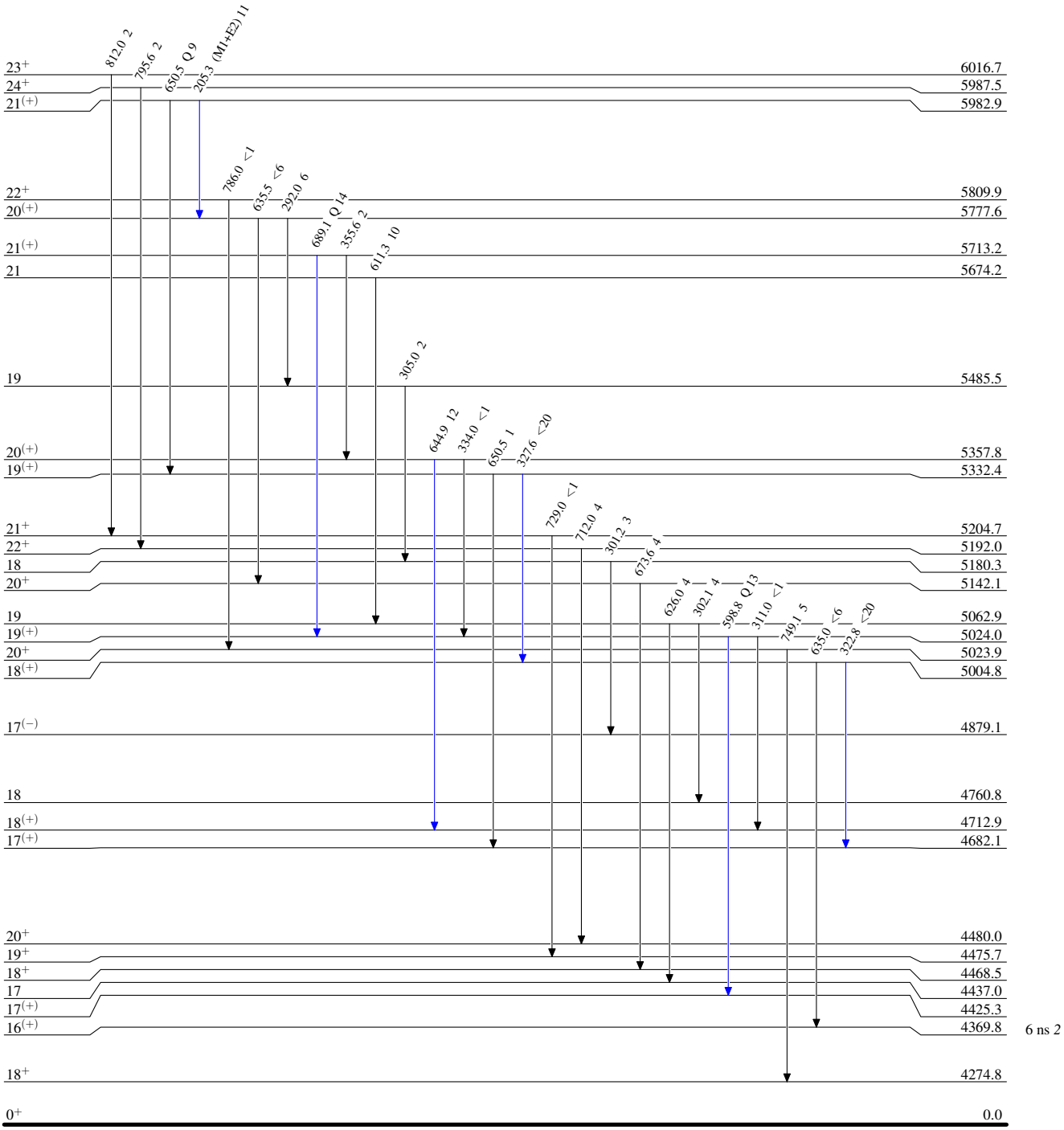
Intensities: Relative I_γ

Legend

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

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

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



$^{182}_{76}Os_{106}$

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39

Level Scheme (continued)

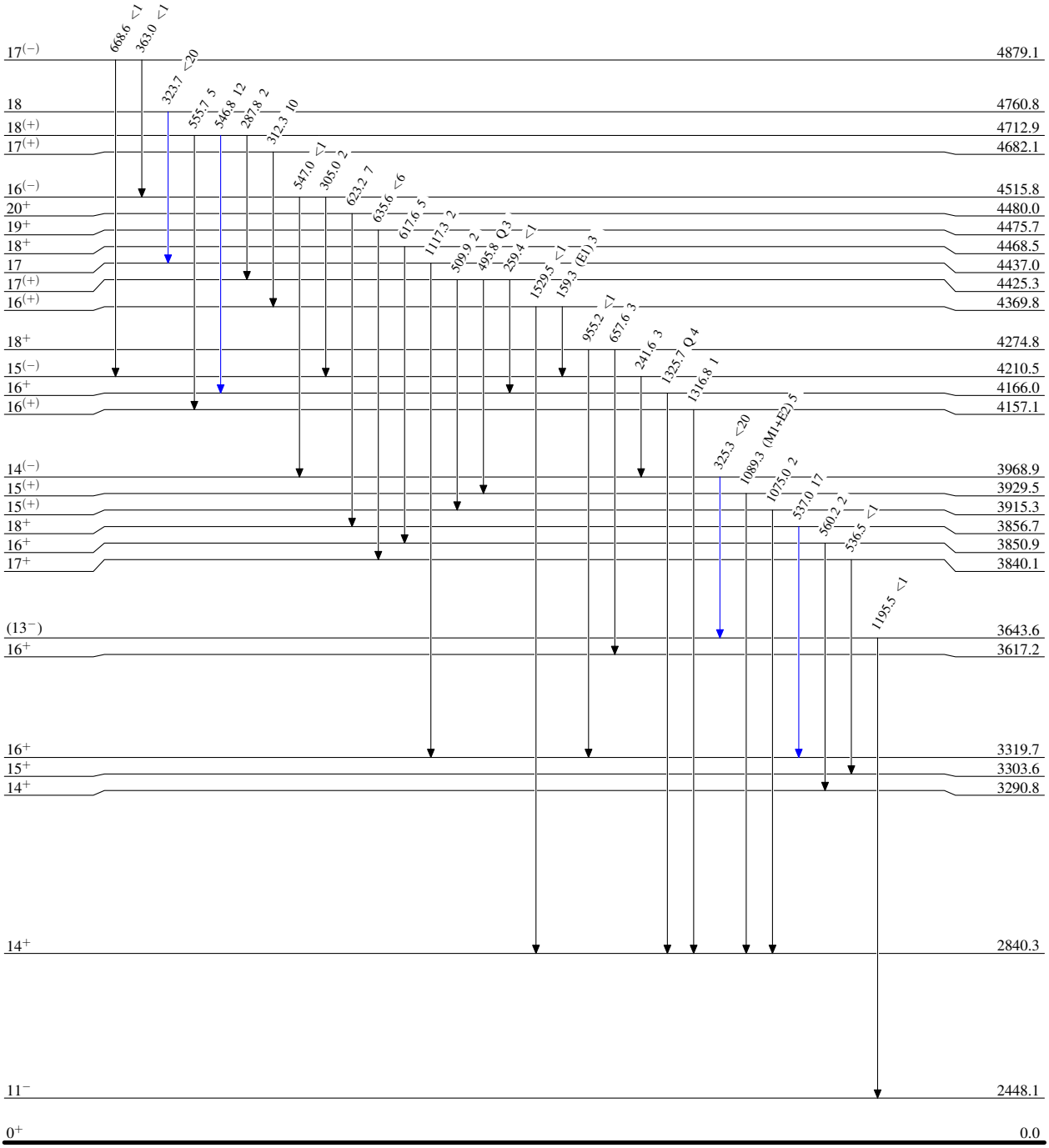
Intensities: Relative I_γ

Legend

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

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

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



$^{182}_{76}Os_{106}$

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39

Level Scheme (continued)

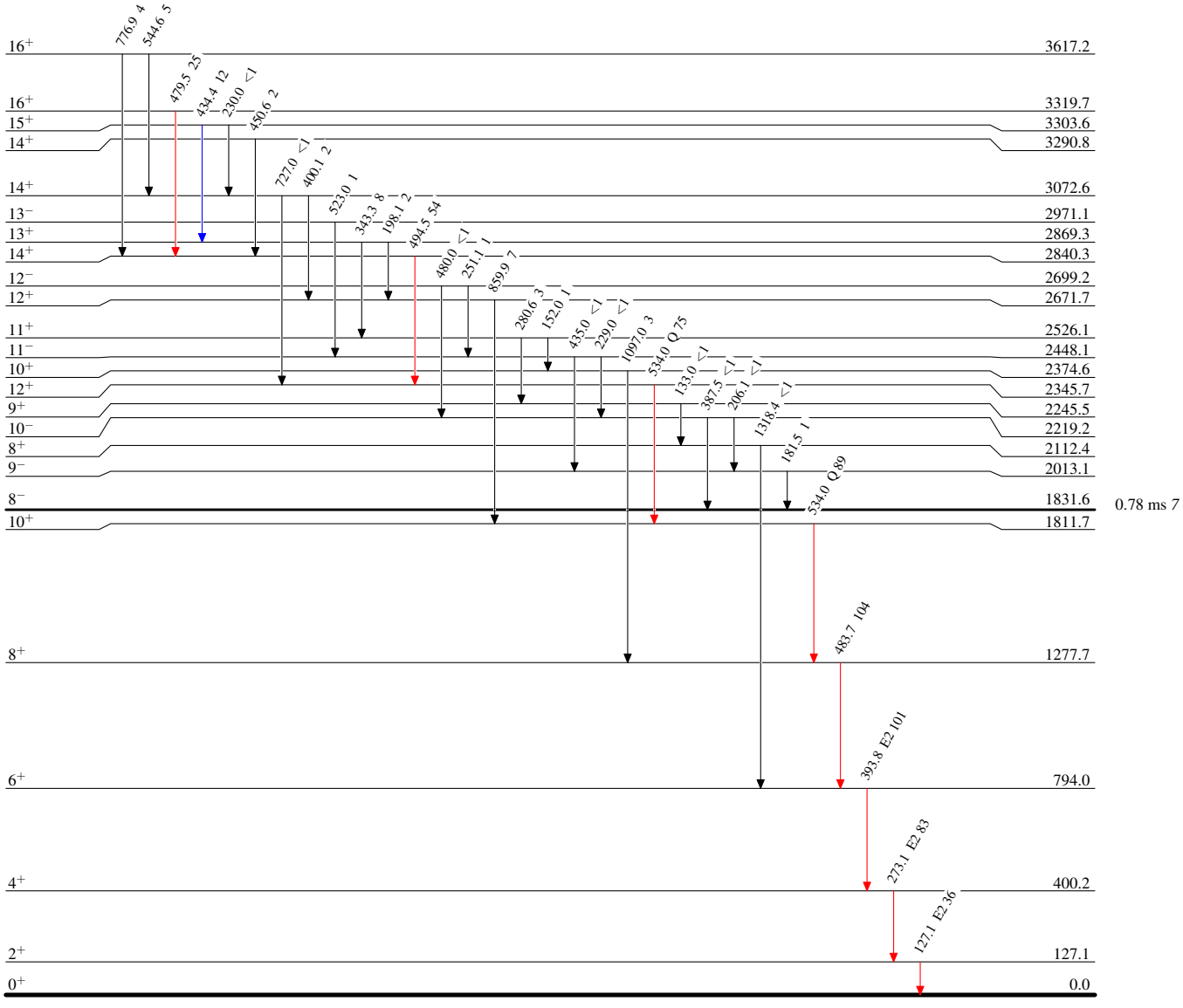
Intensities: Relative I_γ

Legend

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

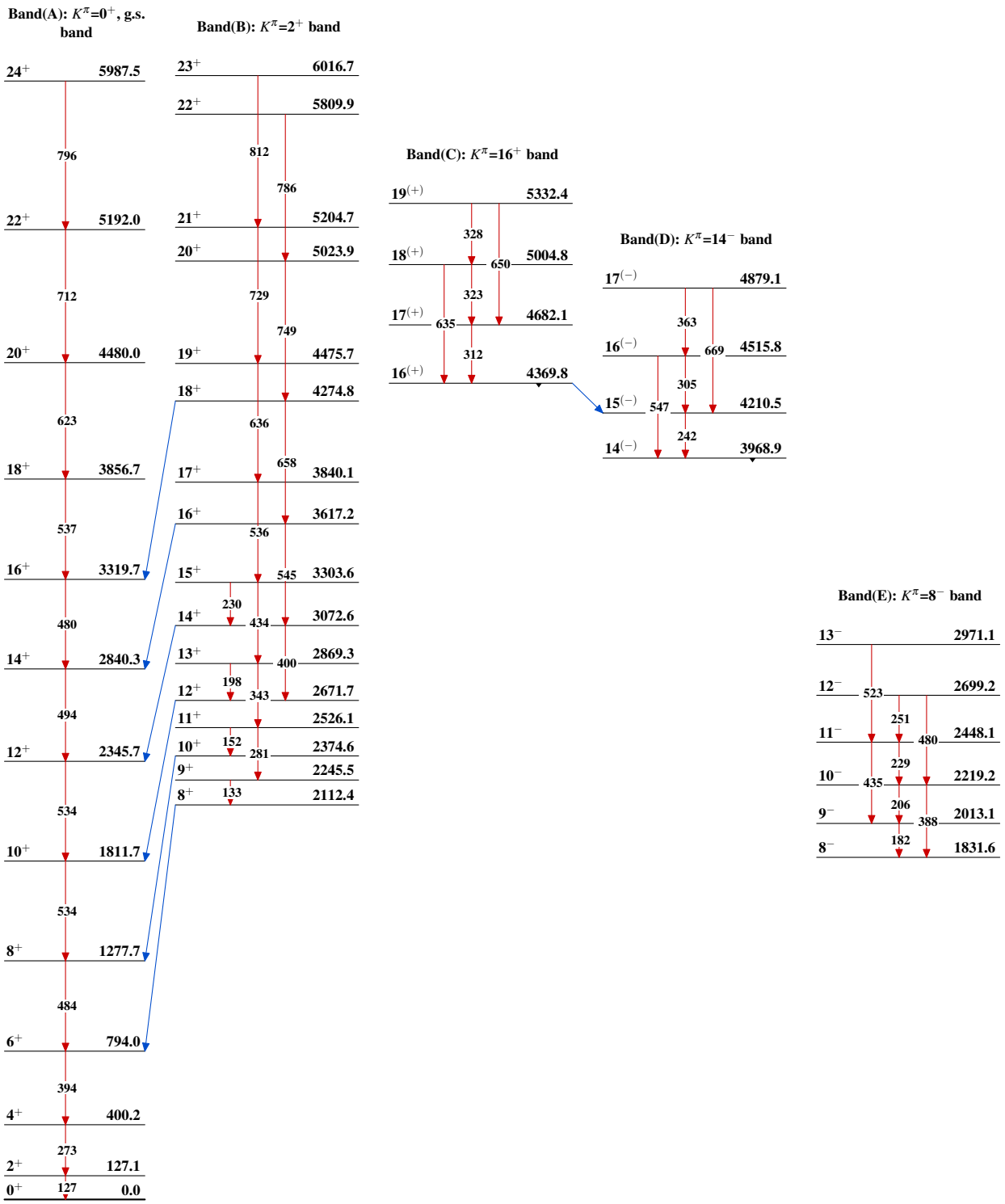
$I_\gamma < 10\% \times I_\gamma^{max}$

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



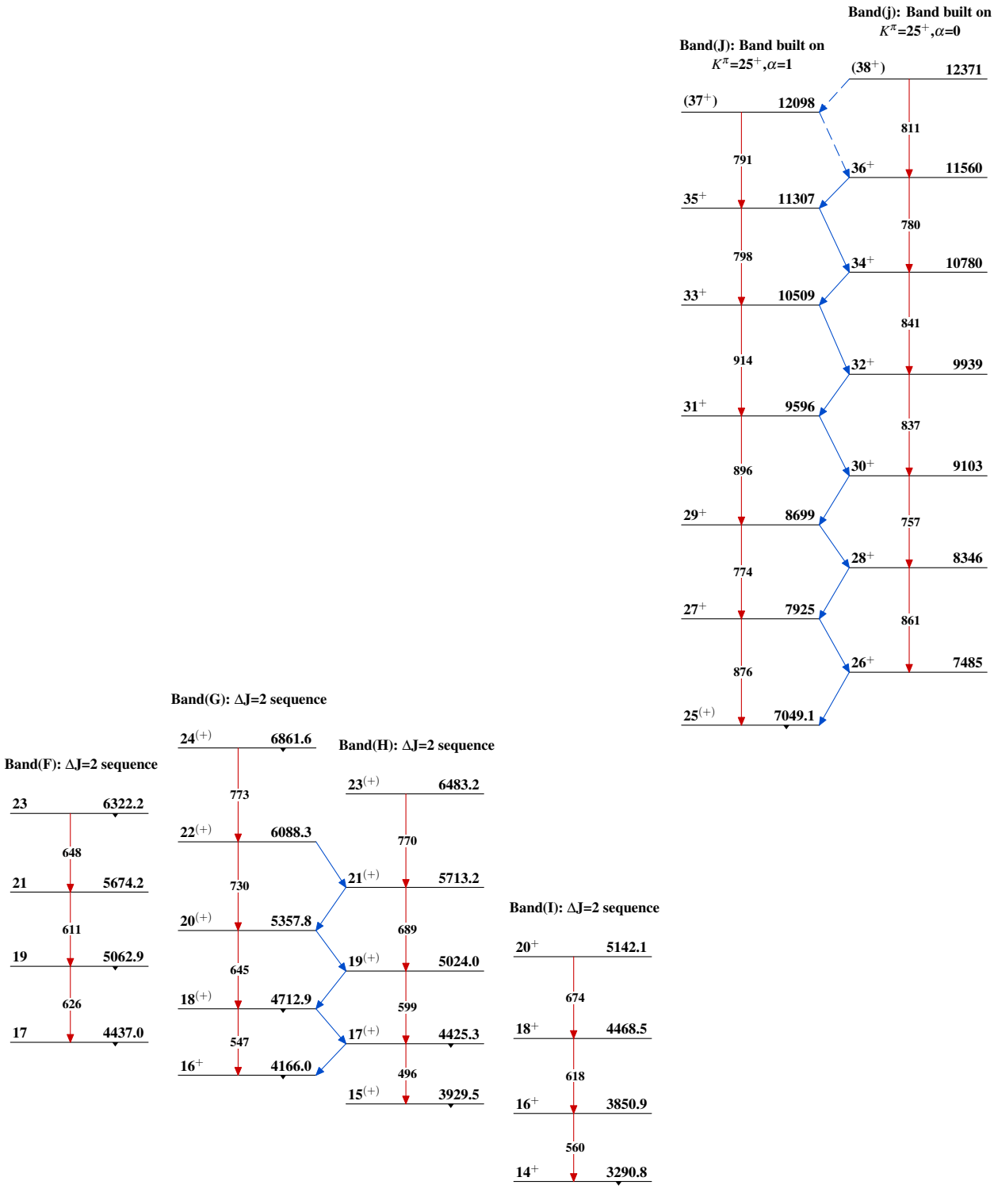
$^{182}_{76}Os_{106}$

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39



$^{182}_{76}Os_{106}$

^{150}Nd(^{36}S,4nγ):delayed γ 1988Ch27,2003Pa39 (continued)



$^{182}_{76}Os_{106}$