Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 110,265 (2009)	15-Nov-2008

Q(β^-)=−4940 *20*; S(n)=7547 *22*; S(p)=4.65×10^3 *4*; Q(α)=4.19×10^3 *4* 2012Wa38
Note: Current evaluation has used the following Q record −4943 217545 244660 304190 30 2003Au03.

^{179}Os Levels

Cross Reference (XREF) Flags

A ^{167}Er(^{16}O,4nγ)
B ^{183}Pt α decay (6.5 min)
C ^{179}Ir ε decay
D ^{154}Sm(^{30}Si,5nγ)
E ^{150}Nd(^{34}S,5nγ)

E(level)†	J$^\pi$‡	T$_{1/2}$	XREF	Comments
0.0[h]	1/2$^-$[j]	6.5 min *3*	ABCDE	%ε+%β^+=100 T$_{1/2}$: weighted average of 6.3 min *3* (1976Be62), 6.5 min *5* (1973GoYJ), 9 min *2* (1971NaZV), and 8 min *1* (1968Be43). Others: 1972Be89, 1970Ar15. J$^\pi$: unhindered α decay (HF=1.2) from 1/2$^-$ ^{183}Pt g.s.
86.31[i] *8*	3/2$^-$[j]		A CDE	J$^\pi$: M1+E2 intraband 86γ to 1/2$^-$ g.s.
100.21[h] *9*	5/2$^-$[j]		A CDE	J$^\pi$: (E2) 100γ to 1/2$^-$ g.s.; continuation of 1/2$^-$ band.
115.4[f] *8*	(5/2$^-$)		DE	J$^\pi$: band assignment.
145.41[e] *12*	(7/2)$^-$	0.50 μs	A CDE	J$^\pi$: M1 45γ to 5/2$^-$ 100; band assignment. 7/2[514] Nilsson orbital assigned by analogy with ^{181}Os. T$_{1/2}$ of this level is consistent with the degree of K-forbiddenness of the transition to the J^π=(5/2$^-$) member of the 1/2[521] g.s. rotational band. T$_{1/2}$: from $\gamma\gamma$(t), gating on transitions above and below the 146 level, and from two-component fits to 86.3γ and 100.3γ time spectra in n-γ(t) in (^{16}O,4nγ) (1983Dr05).
195.9[c] *9*	(5/2$^-$)		D	J$^\pi$: 211γ to 3/2$^-$ 86; band assignment.
210.8[g] *7*	(7/2$^-$)		DE	J$^\pi$: intraband M1 95γ to (5/2$^-$) 115; band assignment.
243.0[a] *8*	(9/2)$^+$	0.783 μs *14*	A CDE	J$^\pi$: E1 98γ to (7/2)$^-$ 145; band assignment. T$_{1/2}$: From n-97.5γ(t) in (^{16}O,4nγ).
273.10[d] *15*	(9/2$^-$)		A CDE	J$^\pi$: intraband D+Q 128γ to (7/2)$^-$ 145.
286.6[b] *9*	(11/2$^+$)		A DE	J$^\pi$: intraband 44γ to (9/2)$^+$ 243; band assignment.
296.4[i] *3*	7/2$^-$[j]		DE	J$^\pi$: stretched Q intraband 210γ to 3/2$^-$ 86 level.
320.20[h] *18*	9/2$^-$[j]		A CDE	J$^\pi$: intraband Q 220γ to 5/2$^-$ 100.
336.6[f] *7*	(9/2$^-$)		DE	J$^\pi$: intraband gammas to (7/2$^-$) 211 and (5/2$^-$) 115.
345.0[a] *9*	(13/2$^+$)		A DE	J$^\pi$: intraband gammas to (11/2$^+$) 287 and (9/2)$^+$ 243.
424.50[e] *23*	(11/2$^-$)		A DE	J$^\pi$: intraband D+Q 151γ to (9/2$^-$) 273; intraband Q 279γ to (7/2)$^-$ 145.
436.5[c] *11*	(9/2$^-$)		D	J$^\pi$: intraband Q 241γ to (5/2$^-$) 196.
487.3[g] *7*	(11/2$^-$)		DE	J$^\pi$: intraband D+Q 151γ to (9/2$^-$) 337; intraband Q 277γ to (7/2$^-$) 211.
500.1[b] *9*	(15/2$^+$)		A DE	J$^\pi$: intraband D+Q 155γ to (13/2$^+$) 345; intraband Q 214γ to (11/2$^+$) 287.
589.6[a] *9*	(17/2$^+$)		A DE	J$^\pi$: intraband 89γ to (15/2$^+$) 500; intraband Q 245γ to (13/2$^+$) 345.
594.2[d] *3*	(13/2$^-$)		A DE	J$^\pi$: intraband D+Q 170γ to (11/2$^-$) 425; intraband Q 321γ to (9/2$^-$) 273.
607.4[i] *4*	11/2$^-$[j]		DE	
641.4[h] *4*	13/2$^-$[j]		A DE	
662.9[f] *6*	(13/2$^-$)		DE	J$^\pi$: intraband D+Q 176γ to (11/2$^-$) 487; intraband Q 326γ to (9/2$^-$) 337.
781.4[e] *3*	(15/2$^-$)		A DE	J$^\pi$: intraband D+Q 187γ to (13/2$^-$) 594; intraband Q 357γ to (11/2$^-$) 425.
788.2[c] *12*	(13/2$^-$)		D	
856.1[b] *9*	(19/2$^+$)		A DE	

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Adopted Levels, Gammas (continued)

^{179}Os Levels (continued)

E(level)†	Jπ‡	XREF	Comments
860.4[g] 6	(15/2⁻)	DE	
955.4[a] 9	(21/2⁺)	A DE	
981.0[d] 3	(17/2⁻)	A DE	
997.1[i] 5	15/2⁻[j]	DE	
1041.8[h] 5	17/2⁻[j]	A DE	
1078.3[f] 6	(17/2⁻)	DE	
1194.4[e] 4	(19/2⁻)	A DE	
1229.4[c] 10	(17/2⁻)	D	
1316.0[g] 6	(19/2⁻)	DE	
1318.0[b] 9	(23/2⁺)	A DE	
1417.8[d] 4	(21/2⁻)	A DE	
1427.7[a] 9	(25/2⁺)	A DE	
1448.5[i] 7	19/2⁻[j]	DE	
1503.1[h] 6	21/2⁻[j]	A DE	
1566.7[f] 6	(21/2⁻)	DE	
1654.5[e] 4	(23/2⁻)	A DE	
1738.8[c] 11	(21/2⁻)	D	
1824.7[&] 10	(25/2)	E	Jπ: 397γ to (25/2⁺) 1428; band assignment.
1833.6[g] 8	(23/2⁻)	DE	
1851.8[b] 9	(27/2⁺)	A DE	
1899.6[d] 4	(25/2⁻)	A DE	
1948.6[i] 8	23/2⁻[j]	DE	
1986.1[a] 9	(29/2⁺)	A DE	
2011.2[h] 7	25/2⁻[j]	A DE	
2106.5[f] 7	(25/2⁻)	DE	
2144.6[@] 6	(25/2⁻)	E	Jπ: if band assignment is correct, the 327 keV cascade γ feeding from the (29/2⁻) band member would be expected to be E2. The DCO ratio of 1.3 3 for the 245γ deexciting to a (25/2⁻) level cannot differentiate between pure Q and pure D multipolarity; the level scheme requires D, ΔJ=0.
2160.0[e] 4	(27/2⁻)	A DE	
2297.8[c] 15	(25/2⁻)	D	
2332.1[&] 10	(29/2)	E	
2377.0[g] 9	(27/2⁻)	DE	
2418.2[d] 5	(29/2⁻)	A DE	
2431.7[b] 10	(31/2⁺)	A DE	
2471.5[@] 5	(29/2⁻)	DE	Jπ: Q 572γ to (25/2⁻), 312γ to (27/2⁻) in (^{34}S,5nγ).
2488.9[i] 10	27/2⁻[j]	DE	
2564.2[h] 7	29/2⁻[j]	A DE	
2604.9[a] 10	(33/2⁺)	A DE	
2630.1[f] 8	(29/2⁻)	DE	
2709.3[e] 5	(31/2⁻)	A DE	
2818.6[g] 11	(31/2⁻)	DE	
2873.0[@] 6	(33/2⁻)	DE	
2894.2[c] 18	(29/2⁻)	D	
2902.7[&] 10	(33/2)	E	
2999.0[d] 5	(33/2⁻)	A DE	
3046.6[b] 10	(35/2⁺)	A DE	

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Adopted Levels, Gammas (continued)

^{179}Os Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
3053.6[f] 9	(33/2⁻)	E	
3072.6[i] 11	31/2⁻[j]	DE	
3151.9[h] 8	33/2⁻[j]	A DE	
3260.2[a] 10	(37/2⁺)	A DE	
3273.9[g] 12	(35/2⁻)	DE	
3301.2[e] 5	(35/2⁻)	A DE	
3379.9[@] 8	(37/2⁻)	DE	
3482.7?[&] 14	(37/2)	E	
3514.6? 14	(37/2⁻)	E	
3519.2[c] 21	(33/2⁻)	D	
3617.0[d] 6	(37/2⁻)	A DE	
3691.6?[i] 15	(35/2⁻)[j]	E	
3700.2[b] 10	(39/2⁺)	A DE	
3784.6[h] 9	(37/2⁻)[j]	DE	
3807.9[g] 13	(39/2⁻)	DE	
3921.0[a] 11	(41/2⁺)	A DE	
3932.3[e] 6	(39/2⁻)	A DE	
3964.7[@] 9	(41/2⁻)	DE	
4022.2[#] 11	(41/2⁺)	DE	Jπ: Q 762γ to (37/2⁺) 3260; band assignment.
4212.2[c] 23	(37/2⁻)	D	
4260.6[d] 6	(41/2⁻)	DE	
4398.9[b] 10	(43/2⁺)	A DE	
4420.3[g] 14	(43/2⁻)	DE	
4464.4[h] 11	(41/2⁻)[j]	DE	
4564.7[a] 11	(45/2⁺)	A DE	
4593.0[e] 7	(43/2⁻)	DE	
4609.6[@] 11	(45/2⁻)	DE	
4720.6[#] 11	(45/2⁺)	DE	
4930.3[d] 8	(45/2⁻)	DE	
5099.3[g] 15	(47/2⁻)	DE	
5146.7[b] 12	(47/2⁺)	DE	
5177.4[h] 15	(45/2⁻)[j]	DE	
5269.3[e] 8	(47/2⁻)	DE	
5291.5[a] 12	(49/2⁺)	DE	
5307.0[@] 12	(49/2⁻)	DE	
5491.9[#] 12	(49/2⁺)	DE	
5604.4[d] 9	(49/2⁻)	DE	
5832.8[g] 16	(51/2⁻)	DE	
5942.8[b] 13	(51/2⁺)	DE	
5978.5[e] 10	(51/2⁻)	DE	
6070.9[@] 13	(53/2⁻)	DE	
6118.2[a] 13	(53/2⁺)	DE	
6306.5[#] 13	(53/2⁺)	DE	
6321.8[d] 13	(53/2⁻)	DE	
6618.9[g] 16	(55/2⁻)	DE	
6739.2[e] 14	(55/2⁻)	DE	

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Adopted Levels, Gammas (continued)

^{179}Os Levels (continued)

E(level)†	Jπ‡	XREF	E(level)†	Jπ‡	XREF	E(level)†	Jπ‡	XREF
6783.9[b] *14*	(55/2+)	DE	7663.9[b] *17*	(59/2+)	D	9020.2?[a] *22*	(65/2+)	D
6916.8[@] *16*	(57/2−)	DE	7842.8[@] *19*	(61/2−)	DE	9529.9?[b] *22*	(67/2)+	D
7037.2[a] *14*	(57/2+)	DE	8016.2[a] *20*	(61/2+)	D	9866.2?[@] *24*	(69/2)−	D
7090.0[d] *17*	(57/2)−	D	8019.5[#] *17*	(61/2+)	D	10042.2?[a] *24*	(69/2+)	D
7157.5[#] *14*	(57/2+)	DE	8406.7[e] *20*	(63/2−)	D	11020?[@] *3*	(73/2)−	D
7471.3[g] *19*	(59/2−)	D	8552.9[b] *20*	(63/2+)	D			
7553.7[e] *17*	(59/2−)	D	8837.8[@] *22*	(65/2−)	D			

† Calculated by evaluator from a least-squares fit to Eγ, assigning ΔE=1 keV to adopted Eγ values which have no stated uncertainty.

‡ Assignments given without further comment are based on deduced rotational structure, taking into account γ-ray multipolarities and γ decay patterns, except as noted.

Band(A): π=+, α=+1/2 band.

@ Band(B): 3-quasiparticle band, α=+1/2. Possible configuration=((π 5/2[512])(ν $i^2_{13/2}$)). J^π is from (^{30}Si,5nγ), except for the 2144 level; this level is absent in that reaction but is fed by a mult=Q 327γ from the band member immediately above it in (^{34}S,5nγ). Note that J^π values for all band members shown here are one unit higher than deduced in (^{34}S,5nγ). This arises from differing mult assignments in the two reactions. See comment on mult for 572γ and 455.0γ.

& Band(C): Collective band, α=+1/2. From (^{34}S,5nγ); J uncertain by 1 unit. Absent in (^{30}Si,5nγ).

[a] Band(D): 9/2[624] band, α=+1/2. Coriolis−mixed band; configuration assignment based on energy systematics of this band in ^{177}Os, ^{181}Os, and ^{183}Os (1983Dr05). First band crossing at ħω=0.31 MeV with alignment gain 6.5ħ; second band crossing at ħω≈0.5 MeV with alignment gain of >3ħ, attributed to 1/2[541] (π $h_{9/2}$) quasiproton pair alignment (1992Bu14). 1994Ba27 suggest the presence of hexadecapole deformation since this favored sequence is crossed by 3-quasiparticle structure at a higher rotational frequency than is the unfavored α=−1/2 sequence; additionally, triaxial shape (γ≤−10°) is suggested by the signature dependence of intraband B(M1)/B(E2) values (1994Ba27).

[b] Band(d): 9/2[624] band, α=−1/2. From (^{30}Si,5nγ); upper two levels from (^{34}S,5nγ) not adopted. First band crossing at ħω=0.30 MeV with alignment gain of 5.5ħ. Second band crossing at ħω=0.44 MeV with alignment gain of ≈2.5ħ attributed to 1/2[541] (π $h_{9/2}$) quasiproton pair alignment (1992Bu14). See also the comment on this band′s signature partner.

[c] Band(E): 5/2[523]? band, α=+1/2. Probably mixed with 1/2[521] band. Authors note that cranked shell−model calculations predict the 5/2[523] bandhead at considerably higher energy than observed for this band, but all other likely orbitals have already been assigned to other states in ^{179}Os (1992Bu14). Band crossing at ħω=0.26 MeV, alignment gain ≈4.5ħ.

[d] Band(F): 7/2[514] band, α=+1/2. Analogous to 7/2[514] band in ^{181}Os. Intraband transition B(M1)/B(E2) ratios suggest Coriolis mixing with 5/2[512] band (1992Bu14). Band crossing at ħω=0.28 MeV with alignment gain ≈11ħ due to alignment of $i_{13/2}$ neutron pair.

[e] Band(f): 7/2[514] band, α=−1/2. Band crossing at ħω=0.27 MeV with alignment gain ≈11ħ due to alignment of $i_{13/2}$ neutron pair. See also the comment on this band′s signature partner.

[f] Band(G): 5/2[512] band, α=+1/2. Weakly populated band in (^{34}S,5nγ), as is the case in isotones ^{177}W and ^{181}Pt. Orbital assignment supported by deduced intraband transition B(M1)/B(E2) ratios and g_K factors (1993Ba45). Band crossing at ħω=0.22 MeV with alignment gain ≈8.5ħ due to alignment of $i_{13/2}$ neutron pair; second band crossing at ħω=0.5 MeV with alignment gain of >2ħ attributed to 1/2[541] (π $h_{9/2}$) quasiproton pair alignment (1992Bu14).

[g] Band(g): 5/2[512] band, α=−1/2. Band crossing at ħω=0.23 MeV with alignment gain ≈8.5ħ due to alignment of $i_{13/2}$ neutron pair. Assignment supported by intraband transition B(M1)/B(E2) values.

[h] Band(H): 1/2[521] band, α=+1/2. Band parameters: A=15.9, B=−32, B_{2K}=−32, a=+0.82 (J=1/2, 3/2, 5/2, 7/2, 9/2 members). Nilsson orbital assignment based on decoupling parameter and supported by energy systematics of this orbital in ^{177}Os and ^{181}Os. Band crossing at ħω=0.23 MeV with alignment gain >4.5ħ due to alignment of $i_{13/2}$ neutron pair.

[i] Band(h): 1/2[521] band, α=−1/2. Band crossing at ħω=0.26 MeV with alignment gain >8.5ħ due to alignment of $i_{13/2}$ neutron pair. See also the comment on this band′s signature partner.

[j] Definite J^π assigned to J≤33/2 members of g.s. band based on established J^π=1/2− for g.s. and mult(86γ)=M1+E2 for J=3/2 to 1/2 transition, in addition to smooth progression of intraband transition energies.

Adopted Levels, Gammas (continued)

γ(^{179}Os)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ	α[c]	Comments
86.31	3/2⁻	86.3 *1*	100	0.0	1/2⁻	M1+E2	−5.3 *7*	8.04	E_γ: from ε decay. Mult.,δ: D+Q from γ(θ) in (^{16}O,4nγ) for intraband transition with δ=−5.3 *7* or +0.29 *4*; E2(+M1) from subshell ratios in ε decay with δ>2.7.
100.21	5/2⁻	(13.9)		86.31	3/2⁻				$I_{(\gamma+ce)}$: 1100 *220* from intensity balance at 100 and 86 levels in ^{179}Ir ε decay.
		100.2 *1*	100 *5*	0.0	1/2⁻	(E2)		4.32	E_γ,Mult.: from K:L2 in ε decay.
145.41	(7/2)⁻	45.2 *1*	100	100.21	5/2⁻	M1[&]		9.97	B(M1)(W.u.)=4.35×10^{-5} *13* E_γ: from ε decay. Mult.: from subshell ratios in ε decay and from α(exp) in (^{16}O,4nγ).
195.9	(5/2⁻)	109.6	100	86.31	3/2⁻				
210.8	(7/2⁻)	95.4 *5*	100	115.4	(5/2⁻)	M1		6.44 *14*	Mult.: from α(K)exp in ε decay.
243.0	(9/2)⁺	97.5 *1*	100	145.41	(7/2)⁻	E1[&]		0.417	B(E1)(W.u.)=2.07×10^{-7} *4* E_γ: from ε decay.
273.10	(9/2⁻)	127.7 *1*	100	145.41	(7/2)⁻	(M1+E2)		2.2 *6*	E_γ: from ε decay. Mult.: D+Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
286.6	(11/2⁺)	(43.6 *12*)	100.0	243.0	(9/2)⁺				E_γ: from level energy difference.
296.4	7/2⁻	196.3 *5*	18.1 *23*	100.21	5/2⁻				
		210.1 *5*	100	86.31	3/2⁻	(E2)		0.281 *5*	
320.20	9/2⁻	23.8 *4*	0.13 *3*	296.4	7/2⁻				E_γ: from level energy difference. I_γ: from (^{34}S,5nγ) γγ coin.
		220.0 *2*	100	100.21	5/2⁻	(E2)		0.242	E_γ: from ε decay.
336.6	(9/2⁻)	125.8 *5*	100	210.8	(7/2⁻)				
		221.1 *5*	53 *10*	115.4	(5/2⁻)				
345.0	(13/2⁺)	58.40 *15*	100	286.6	(11/2⁺)				E_γ: from (^{16}O,4nγ).
		102.1 *3*	19.0[b] *19*	243.0	(9/2)⁺				
424.50	(11/2⁻)	151.3 *3*	29.8[b] *13*	273.10	(9/2⁻)	(M1+E2)		1.3 *5*	Mult.: D+Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
		279.1 *3*	100	145.41	(7/2)⁻	(E2)		0.1136	Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
436.5	(9/2⁻)	240.6	100	195.9	(5/2⁻)	(E2)		0.181	
487.3	(11/2⁻)	150.6 *5*	71 *9*	336.6	(9/2⁻)	(M1+E2)		1.3 *5*	Mult.: D+Q from (^{34}S,5nγ) for intraband γ.
		276.5 *5*	100	210.8	(7/2⁻)	(E2)		0.1169 *18*	
500.1	(15/2⁺)	154.9 *3*	95[b] *4*	345.0	(13/2⁺)	(M1+E2)	−0.9 *3*	1.26 *15*	Mult.,δ: from γ(θ) in (^{16}O,4nγ) for intraband γ.
		213.5 *3*	100	286.6	(11/2⁺)	(E2)		0.267	
589.6	(17/2⁺)	89.40 *15*	19.5[b] *18*	500.1	(15/2⁺)				E_γ: from (^{16}O,4nγ). I_γ: average excludes 11.1 *12* in (^{34}S,5nγ) γγ coin. Weighted average of all data is 13.6 *26*.
		244.59 *9*	100	345.0	(13/2⁺)	(E2)		0.1715	E_γ: weighted average from (^{34}S,5nγ) and (^{16}O,4nγ). Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.

Adopted Levels, Gammas (continued)

γ(^{179}Os) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ	α[c]	Comments
594.2	(13/2⁻)	169.6 *3*	13.8[b] *8*	424.50	(11/2⁻)	(M1+E2)		0.9 *4*	Mult.: D+Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
		321.2[e] *3*	100[e]	273.10	(9/2⁻)	(E2)		0.0747	
607.4	11/2⁻	287.1 *5*	16 *3*	320.20	9/2⁻				
		311.0 *5*	100	296.4	7/2⁻	(E2)		0.0821	
641.4	13/2⁻	34.0	0.25 *19*	607.4	11/2⁻				I_γ: from (^{34}S,5nγ) γγ coin.
		321.2[e] *3*	100[e]	320.20	9/2⁻	(E2)		0.0747	
662.9	(13/2⁻)	175.6 *5*	32 *4*	487.3	(11/2⁻)	(M1+E2)	−0.32 *18*	1.08 *7*	Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		238.5	14 *6*	424.50	(11/2⁻)				I_γ: γ seen in (^{30}Si,5nγ) only.
		326.4 *5*	100	336.6	(9/2⁻)	(E2)		0.0713	
781.4	(15/2⁻)	187.2 *3*	14.7[b] *10*	594.2	(13/2⁻)	(M1+E2)		0.7 *3*	Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		356.9 *3*	100	424.50	(11/2⁻)	(E2)		0.0553	
788.2	(13/2⁻)	351.7	100	436.5	(9/2⁻)	(E2)		0.0576	
856.1	(19/2⁺)	266.5[@] *3*	32.0[b] *15*	589.6	(17/2⁺)	(M1+E2)		0.24 *12*	Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		355.99 *9*	100	500.1	(15/2⁺)	(E2)		0.0557	E_γ: weighted average from (^{34}S,5nγ) and (^{16}O,4nγ).
860.4	(15/2⁻)	197.5 *5*	24 *3*	662.9	(13/2⁻)	(M1)		0.817 *13*	
		373.2 *5*	100	487.3	(11/2⁻)	(E2)		0.0489	
		435.9[f]		424.50	(11/2⁻)				
955.4	(21/2⁺)	99.40 *15*	3.29[b] *15*	856.1	(19/2⁺)				E_γ: from (^{16}O,4nγ).
		365.80 *9*	100	589.6	(17/2⁺)	(E2)		0.0516	E_γ: weighted average from (^{34}S,5nγ) and (^{16}O,4nγ). Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
981.0	(17/2⁻)	199.7 *3*	19.2[b] *16*	781.4	(15/2⁻)	(M1+E2)		0.56 *23*	Mult.: D+Q in (^{34}S,5nγ) for intraband γ. I_γ: from (^{34}S,5nγ) singles and γγ coin. Other branching: 20 *2* from (^{30}Si,5nγ), 17 *3* from (^{16}O,4nγ).
		318.0	7.3 *20*	662.9	(13/2⁻)				I_γ: from (^{30}Si,5nγ).
		386.79 *9*	100	594.2	(13/2⁻)	(E2)		0.0443	E_γ: from (^{16}O,4nγ).
997.1	15/2⁻	208.8[f]		788.2	(13/2⁻)				
		355.7 *5*	27 *11*	641.4	13/2⁻				E_γ,I_γ: γ seen in (^{34}S,5nγ) only.
		389.7 *5*	100	607.4	11/2⁻	(E2)		0.0434	
1041.8	17/2⁻	400.4 *3*	100	641.4	13/2⁻	(E2)		0.0404	
1078.3	(17/2⁻)	217.9 *5*	16.8 *21*	860.4	(15/2⁻)				
		415.4 *5*	100	662.9	(13/2⁻)	(E2)		0.0366	
1194.4	(19/2⁻)	213.4 *3*	14.5[b] *12*	981.0	(17/2⁻)	(M1+E2)		0.46 *20*	Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		413.0 *3*	100	781.4	(15/2⁻)	(E2)		0.0371	
1229.4	(17/2⁻)	441.2	100	788.2	(13/2⁻)	(E2)		0.0312	
1316.0	(19/2⁻)	237.6 *5*	12 *4*	1078.3	(17/2⁻)				I_γ: from (^{34}Si,5nγ) singles and γγ coin.
		455.6 *5*	100	860.4	(15/2⁻)				
1318.0	(23/2⁺)	362.7 *3*	19.5[b] *17*	955.4	(21/2⁺)	(M1+E2)		0.10 *6*	Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		461.9 *3*	100	856.1	(19/2⁺)	(E2)		0.0278	

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Adopted Levels, Gammas (continued)

γ(^{179}Os) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[c]	Comments
1417.8	(21/2⁻)	223.4 *3*	11.6[b] *6*	1194.4	(19/2⁻)	(M1+E2)	0.40 *18*	Mult.: D in (^{30}Si,5nγ) and (D+Q) in (^{34}S,5nγ) for intraband γ.
		339.7	3.3 *12*	1078.3	(17/2⁻)			I_γ: from (^{30}Si,5nγ).
		436.8 *3*	100	981.0	(17/2⁻)	(E2)	0.0321	Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
1427.7	(25/2⁺)	109.7[@] *3*	2.9 *5*	1318.0	(23/2⁺)			I_γ: 3.6 *4* in (^{30}Si,5nγ), 2.2 *4* and in (^{34}S,5nγ) γγ coin.
		472.28 *9*	100	955.4	(21/2⁺)	(E2)	0.0263	E_γ: weighted average from (^{34}S,5nγ) and (^{16}O,4nγ). Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
1448.5	19/2⁻	219.0	16 *3*	1229.4	(17/2⁻)			I_γ: from (^{30}Si,5nγ).
		451.4 *5*	100 *14*	997.1	15/2⁻	(E2)	0.0295	I_γ: from (^{30}Si,5nγ).
1503.1	21/2⁻	461.3 *3*	100	1041.8	17/2⁻	(E2)	0.0279	
1566.7	(21/2⁻)	250.8 *5*	10 *3*	1316.0	(19/2⁻)			I_γ: from (^{34}S,5nγ) singles and γγ coin.
		488.3 *5*	100	1078.3	(17/2⁻)	(E2)	0.0242	
1654.5	(23/2⁻)	236.8 *3*	11.7 *14*	1417.8	(21/2⁻)	(M1+E2)	0.34 *16*	I_γ: weighted average of 11.6 *15* and 13 *4* in (^{34}S,5nγ). Other branching: 20.7 *22* in (^{30}Si,5nγ). Mult.: (D+Q) in (^{34}S,5nγ), D in (^{30}Si,5nγ) for intraband γ.
		460.1 *3*	100	1194.4	(19/2⁻)	(E2)	0.0281	
1738.8	(21/2⁻)	509.5	100	1229.4	(17/2⁻)	(E2)	0.0218	
1824.7	(25/2)	397.1 *5*	100	1427.7	(25/2⁺)			
1833.6	(23/2⁻)	266.8	27 *5*	1566.7	(21/2⁻)	(M1)	0.356	I_γ: from (^{30}Si,5nγ).
		517.6 *5*	100 *9*	1316.0	(19/2⁻)	(E2)	0.0209	I_γ: from (^{30}Si,5nγ).
1851.8	(27/2⁺)	424.1 *3*	14.9 *16*	1427.7	(25/2⁺)	(M1+E2)	0.07 *4*	I_γ: weighted average from (^{16}O,4nγ) and (^{34}S,5nγ) singles and γγ coin. Other branching: 24.3 *23* from (^{30}Si,5nγ). Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		533.7 *3*	100	1318.0	(23/2⁺)	(E2)	0.0194	
1899.6	(25/2⁻)	245.2 *3*	12.5 *8*	1654.5	(23/2⁻)	(M1+E2)	0.31 *14*	Mult.: (D+Q) in (^{34}S,5nγ), D in (^{30}Si,5nγ) for intraband γ.
		332.7[d]	2.6[d] *14*	1566.7	(21/2⁻)			I_γ: from (^{30}Si,5nγ). A 333γ is placed from 1900 level in (^{30}Si,5nγ), but from 4593 level in (^{34}S,5nγ).
		481.7 *3*	100	1417.8	(21/2⁻)	(E2)	0.0250	Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
1948.6	23/2⁻	209.9		1738.8	(21/2⁻)			
		500.1 *5*	100 *14*	1448.5	19/2⁻	(E2)	0.0228	
1986.1	(29/2⁺)	558.45 *15*	100	1427.7	(25/2⁺)	(E2)	0.01745	E_γ: weighted average from (^{34}S,5nγ) and (^{16}O,4nγ).
2011.2	25/2⁻	508.1 *3*	100	1503.1	21/2⁻	(E2)	0.0219	
2106.5	(25/2⁻)	539.8 *5*	100	1566.7	(21/2⁻)	(E2)	0.0189	
2144.6	(25/2⁻)	245.0 *5*	100	1899.6	(25/2⁻)			
2160.0	(27/2⁻)	260.6[@] *3*	9.3 *13*	1899.6	(25/2⁻)	(M1+E2)	0.26 *12*	I_γ: weighted average from (^{30}Si,5nγ) and (^{34}S,5nγ) singles data. Mult.: (D+Q) in (^{34}S,5nγ), D in (^{30}Si,5nγ) for intraband γ.
		505.5 *3*	100	1654.5	(23/2⁻)	(E2)	0.0222	
2297.8	(25/2⁻)	559.0	100	1738.8	(21/2⁻)			

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Adopted Levels, Gammas (continued)

γ(^{179}Os) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult.#	α c	Comments
2332.1	(29/2)	346.0 *5*	100 *20*	1986.1	(29/2$^+$)			I_γ: from (^{34}S,5nγ).
		507.4 *5*	60 *20*	1824.7	(25/2)			I_γ: from (^{34}S,5nγ).
2377.0	(27/2$^-$)	543.4 *5*	100	1833.6	(23/2$^-$)	(E2)	0.0186	
2418.2	(29/2$^-$)	258.4 *5*	8.2 *16*	2160.0	(27/2$^-$)	(M1+E2)	0.27 *13*	Mult.: (D+Q) in (^{34}S,5nγ), D in (^{30}Si,5nγ) for intraband γ.
		518.5 *3*	100	1899.6	(25/2$^-$)	(E2)	0.0208	
2431.7	(31/2$^+$)	445.6 *5*	18 *3*	1986.1	(29/2$^+$)	(M1+E2)	0.06 *3*	I_γ: weighted average of 29 *6* from (^{28}Si,5nγ) and 20 *4* and 15 *3* from (^{34}S,5nγ) singles and γγ coin. Mult.: D+Q in (^{34}S,5nγ) for intraband γ.
		579.8 *3*	100	1851.8	(27/2$^+$)	(E2)	0.01597	
2471.5	(29/2$^-$)	311.7 *5*	29 *15*	2160.0	(27/2$^-$)			I_γ: γ seen in (^{34}S,5nγ) only.
		326.9 *5*	29 *15*	2144.6	(25/2$^-$)			I_γ: γ seen in (^{34}S,5nγ) only.
		364.7	10 *4*	2106.5	(25/2$^-$)			I_γ: γ seen in (^{30}Si,5nγ) only.
		571.8 *5*	100	1899.6	(25/2$^-$)	Q[a]		
2488.9	27/2$^-$	540.3 *5*	100	1948.6	23/2$^-$	(E2)	0.0189	
2564.2	29/2$^-$	553.0 *3*	100	2011.2	25/2$^-$	(E2)	0.0179	
2604.9	(33/2$^+$)	618.8 *3*	100	1986.1	(29/2$^+$)	(E2)	0.01375	
2630.1	(29/2$^-$)	523.7 *5*	100	2106.5	(25/2$^-$)	(E2)	0.0203	E_γ: 523.0 in (^{30}Si,5nγ).
2709.3	(31/2$^-$)	291.3 *5*	11.0 *15*	2418.2	(29/2$^-$)	(M1+E2)	0.19 *9*	Mult.: (D+Q) in (^{34}S,5nγ) for intraband γ.
		549.3 *3*	100	2160.0	(27/2$^-$)	(E2)	0.0181	
2818.6	(31/2$^-$)	441.6 *5*	100	2377.0	(27/2$^-$)	(E2)	0.0312	
2873.0	(33/2$^-$)	243.3	13 *5*	2630.1	(29/2$^-$)			I_γ: from (^{30}Si,5nγ).
		401.4 *5*	72 *13*	2471.5	(29/2$^-$)	(E2)	0.0401	I_γ: weighted average from (^{30}Si,5nγ) and (^{34}S,5nγ) singles data.
		454.8 *5*	100	2418.2	(29/2$^-$)	Q[a]		
2894.2	(29/2$^-$)	596.4	100	2297.8	(25/2$^-$)	(E2)	0.01496	
2902.7	(33/2)	297.6 *5*	100 *20*	2604.9	(33/2$^+$)			
		570.8 *5*	60 *20*	2332.1	(29/2)			
2999.0	(33/2$^-$)	289.9 *5*	10.8 *21*	2709.3	(31/2$^-$)			E_γ: 289.3 in (^{30}Si,5nγ). Mult.: (D+Q) in (^{34}S,5nγ) for intraband γ.
		580.8 *3*	100	2418.2	(29/2$^-$)	(E2)	0.01591	
3046.6	(35/2$^+$)	441.8 *5*	19 *3*	2604.9	(33/2$^+$)	(M1+E2)	0.06 *3*	I_γ: weighted average from (^{34}S,5nγ) singles and γγ coin data. Mult.: (D+Q) in (^{34}S,5nγ), D in (^{30}Si,5nγ) for intraband γ.
		614.9 *3*	100	2431.7	(31/2$^+$)	(E2)	0.01395	
3053.6	(33/2$^-$)	423.5 *5*	100	2630.1	(29/2$^-$)			
3072.6	31/2$^-$	583.7 *5*	100	2488.9	27/2$^-$	(E2)	0.01573	
3151.9	33/2$^-$	587.7 *3*	100	2564.2	29/2$^-$	(E2)	0.01548	
3260.2	(37/2$^+$)	655.2 *3*	100	2604.9	(33/2$^+$)	(E2)	0.01208	Mult.: Q from γ(θ) in (^{16}O,4nγ) for intraband γ.
3273.9	(35/2$^-$)	455.4 *5*	100	2818.6	(31/2$^-$)			
3301.2	(35/2$^-$)	302.1 *5*	7.6 *15*	2999.0	(33/2$^-$)	(M1+E2)	0.17 *9*	Mult.: (D+Q) in (^{34}S,5nγ) for intraband γ.
		591.8 *3*	100	2709.3	(31/2$^-$)	(E2)	0.01523	

Adopted Levels, Gammas (continued)

γ(^{179}Os) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[c]	Comments
3379.9	(37/2⁻)	506.9 *5*	100	2873.0	(33/2⁻)	(E2)	0.0220	
3482.7?	(37/2)	580[f]	100	2902.7	(33/2)			
3514.6?	(37/2⁻)	461[f]	100	3053.6	(33/2⁻)			
3519.2	(33/2⁻)	625	100	2894.2	(29/2⁻)	(E2)	0.01344	
3617.0	(37/2⁻)	316.0 *5*	12 *4*	3301.2	(35/2⁻)			I_γ: weighted average from (^{34}S,5nγ) singles and γγ coin data.
		618.0 *3*	100	2999.0	(33/2⁻)	[E2]	0.01379	
3691.6?	(35/2⁻)	619[f]	100	3072.6	31/2⁻			
3700.2	(39/2⁺)	440.0 *5*	18 *6*	3260.2	(37/2⁺)	(M1+E2)	0.06 *3*	I_γ: weighted average from (^{34}S,5nγ) singles and γγ coin data. Mult.: (D+Q) in (^{34}S,5nγ), D in (^{30}Si,5nγ) for intraband γ.
		653.6 *3*	100	3046.6	(35/2⁺)	(E2)	0.01215	Mult.: (Q) from γ(θ) in (^{16}O,4nγ) for intraband γ.
3784.6	(37/2⁻)	632.7 *5*	100	3151.9	33/2⁻			
3807.9	(39/2⁻)	534.0 *5*	100	3273.9	(35/2⁻)	(E2)	0.0194	
3921.0	(41/2⁺)	660.7 *4*	100	3260.2	(37/2⁺)	(E2)	0.01186	E_γ: weighted average of 660.5 *3* from (^{16}O,4nγ) and 661.3 *5* from (^{34}S,5nγ).
3932.3	(39/2⁻)	316	10 *5*	3617.0	(37/2⁻)	(M1+E2)	0.15 *8*	I_γ: weighted average from (^{34}S,5nγ) singles and γγ coin data. Mult.: (D+Q) in (^{34}S,5nγ) for intraband γ.
		631.1 *3*	100	3301.2	(35/2⁻)	(E2)	0.01314	E_γ: weighted average of 630.9 *3* from (^{16}O,4nγ) and 631.5 *5* from (^{34}S,5nγ).
3964.7	(41/2⁻)	584.8 *5*	100	3379.9	(37/2⁻)	(E2)	0.01566	
4022.2	(41/2⁺)	762.2 *5*	100	3260.2	(37/2⁺)	Q		
4212.2	(37/2⁻)	693.0	100	3519.2	(33/2⁻)	(E2)	0.01067	
4260.6	(41/2⁻)	328.2 *5*	19 *7*	3932.3	(39/2⁻)			I_γ: weighted average from (^{34}S,5nγ) singles and γγ coin data. Other branching: 64 *21* from (^{30}Si,5nγ).
		643.6 *5*	100	3617.0	(37/2⁻)	(E2)	0.01258	
4398.9	(43/2⁺)	698.7 *3*	100	3700.2	(39/2⁺)	(E2)	0.01048	
4420.3	(43/2⁻)	612.4 *5*	100	3807.9	(39/2⁻)	(E2)	0.01408	
4464.4	(41/2⁻)	679.8 *5*	100	3784.6	(37/2⁻)	(E2)	0.01113	
4564.7	(45/2⁺)	643.5 *3*	100	3921.0	(41/2⁺)	(E2)	0.01258	
4593.0	(43/2⁻)	332.7[d] *5*	<20[d]	4260.6	(41/2⁻)			333γ placed from 1900 level in (^{30}Si,5nγ), but from 4593 level in (^{34}S,5nγ). I_γ: weighted average from (^{34}S,5nγ) singles and γγ coin data is 15 *5*.
		660.5 *5*	100	3932.3	(39/2⁻)	(E2)	0.01187	
4609.6	(45/2⁻)	644.9 *5*	100	3964.7	(41/2⁻)	(E2)	0.01252	
4720.6	(45/2⁺)	698.6 *5*	100 *13*	4022.2	(41/2⁺)			Other Eγ: 699.4 in (^{30}Si,5nγ).
		799.4 *5*	56 *9*	3921.0	(41/2⁺)	Q		Other Eγ: 800.2 in (^{30}Si,5nγ).
4930.3	(45/2⁻)	337.4	14 *4*	4593.0	(43/2⁻)			
		669.6 *5*	100 *14*	4260.6	(41/2⁻)	(E2)	0.01151	
5099.3	(47/2⁻)	679.0 *5*	100	4420.3	(43/2⁻)	(E2)	0.01116	
5146.7	(47/2⁺)	747.8 *5*	100	4398.9	(43/2⁺)	(E2)	0.00904 *13*	Other Eγ: 748.5 in (^{30}Si,5nγ).

Adopted Levels, Gammas (continued)

γ(^{179}Os) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[c]	Comments
5177.4	(45/2⁻)	713.0	100	4464.4	(41/2⁻)	(E2)	0.01003	
5269.3	(47/2⁻)	676.5 *5*	100	4593.0	(43/2⁻)	(E2)	0.01125	
5291.5	(49/2⁺)	726.8 *5*	100	4564.7	(45/2⁺)	(E2)	0.00962 *14*	
5307.0	(49/2⁻)	697.4 *5*	100	4609.6	(45/2⁻)	(E2)	0.01052	
5491.9	(49/2⁺)	771.3 *5*	100	4720.6	(45/2⁺)	(E2)	0.00847 *12*	
5604.4	(49/2⁻)	335.7	27 *9*	5269.3	(47/2⁻)			
		674.0 *5*	100 *26*	4930.3	(45/2⁻)			
5832.8	(51/2⁻)	733.4 *5*	100	5099.3	(47/2⁻)	(E2)	0.00943 *14*	
5942.8	(51/2⁺)	796.1 *5*	100	5146.7	(47/2⁺)	(E2)	0.00792 *12*	Other Eγ: 797.6 in (^{30}Si,5nγ).
5978.5	(51/2⁻)	709.1 *5*	100	5269.3	(47/2⁻)	(E2)	0.01015	
6070.9	(53/2⁻)	763.9 *5*	100	5307.0	(49/2⁻)	(E2)	0.00864 *13*	Other Eγ: 764.7 in (^{30}Si,5nγ).
6118.2	(53/2⁺)	826.7 *5*	100	5291.5	(49/2⁺)	(E2)	0.00732 *11*	Other Eγ: 827.9 in (^{30}Si,5nγ).
6306.5	(53/2⁺)	814.6 *5*	100	5491.9	(49/2⁺)	(E2)	0.00754 *11*	
6321.8	(53/2⁻)	717.4	100	5604.4	(49/2⁻)	(E2)	0.00989 *14*	
6618.9	(55/2⁻)	786.1 *5*	100	5832.8	(51/2⁻)	(E2)	0.00813 *12*	Other Eγ: 787.0 in (^{30}Si,5nγ).
6739.2	(55/2⁻)	760.8	100	5978.5	(51/2⁻)	(E2)	0.00872 *13*	E_γ: from (^{30}Si,5nγ); 759 in (^{34}S,5nγ).
6783.9	(55/2⁺)	841.1 *5*	100	5942.8	(51/2⁺)	(E2)	0.00706 *10*	
6916.8	(57/2⁻)	845.9	100	6070.9	(53/2⁻)	(E2)	0.00697 *10*	E_γ: from (^{30}Si,5nγ); 850 in (^{34}S,5nγ).
7037.2	(57/2⁺)	920.0	100	6118.2	(53/2⁺)	(E2)	0.00587 *9*	
7090.0	(57/2)⁻	768.2	100	6321.8	(53/2⁻)			
7157.5	(57/2⁺)	851.0 *5*	100	6306.5	(53/2⁺)	(E2)	0.00689 *10*	
7471.3	(59/2⁻)	852.4	100	6618.9	(55/2⁻)	(E2)	0.00687 *10*	
7553.7	(59/2⁻)	814.5	100	6739.2	(55/2⁻)	(E2)	0.00785	
7663.9	(59/2⁺)	880.0	100	6783.9	(55/2⁺)	(E2)	0.00643 *9*	
7842.8	(61/2⁻)	926.0	100	6916.8	(57/2⁻)	(E2)	0.00580 *9*	
8016.2	(61/2⁺)	978.0	100	7037.2	(57/2⁺)	(E2)	0.00519 *8*	
8019.5	(61/2⁺)	862.0	100	7157.5	(57/2⁺)	(E2)	0.00671 *10*	
8406.7	(63/2⁻)	853.0	100	7553.7	(59/2⁻)	(E2)	0.00686 *10*	
8552.9	(63/2⁺)	889.0	100	7663.9	(59/2⁺)	(E2)	0.00630 *9*	
8837.8	(65/2⁻)	995.0	100	7842.8	(61/2⁻)			
9020.2?	(65/2⁺)	1004[f]	100	8016.2	(61/2⁺)			
9529.9?	(67/2)⁺	977[f]	100	8552.9	(63/2⁺)			
9866.2?	(69/2)⁻	1028.4[f]	100	8837.8	(65/2⁻)			
10042.2?	(69/2⁺)	1022[f]	100	9020.2?	(65/2⁺)			
11020?	(73/2)⁻	1154.1[f]	100	9866.2?	(69/2)⁻			

[†] Unless noted to the contrary, Eγ is taken from (^{16}O,4nγ) if uncertainty is 0.3 keV, from (^{34}S,5nγ) if uncertainty is 0.5 keV and from (^{30}Si,5nγ) if uncertainty is unstated.

$^{179}_{76}Os_{103}$-10

Adopted Levels, Gammas (continued)

$\gamma(^{179}Os)$ (continued)

‡ Weighted average from (^{30}Si,5nγ) and (^{34}S,5nγ) (singles and coincidence data), except as noted.
# From directional correlation ratios in (^{30}Si,5nγ), except as noted, with intraband transitions assigned $\Delta\pi$=(no).
@ Assignment uncertain.
& From α(exp) deduced from intensity balance in (^{16}O,4nγ).
[a] From (^{30}Si,5nγ); DCO ratio (0.8 *2*) in (^{34}S,5nγ) overlaps value expected for Q transition, but authors assign ΔJ=1 (mixed) or ΔJ=0. In (^{30}Si,5nγ), the DCO ratios are 1.03 *9* and 0.97 *10* for the 455γ and 572γ, respectively, and the authors assign mult=Q to both transitions, as adopted here.
[b] Weighted average from (^{30}Si,5nγ), (^{34}S,5nγ) (singles and coincidence data) and (^{16}O,4nγ).
[c] 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.
[d] Multiply placed with undivided intensity.
[e] Multiply placed with intensity suitably divided.
[f] Placement of transition in the level scheme is uncertain.

$^{179}_{76}Os_{103}$-11

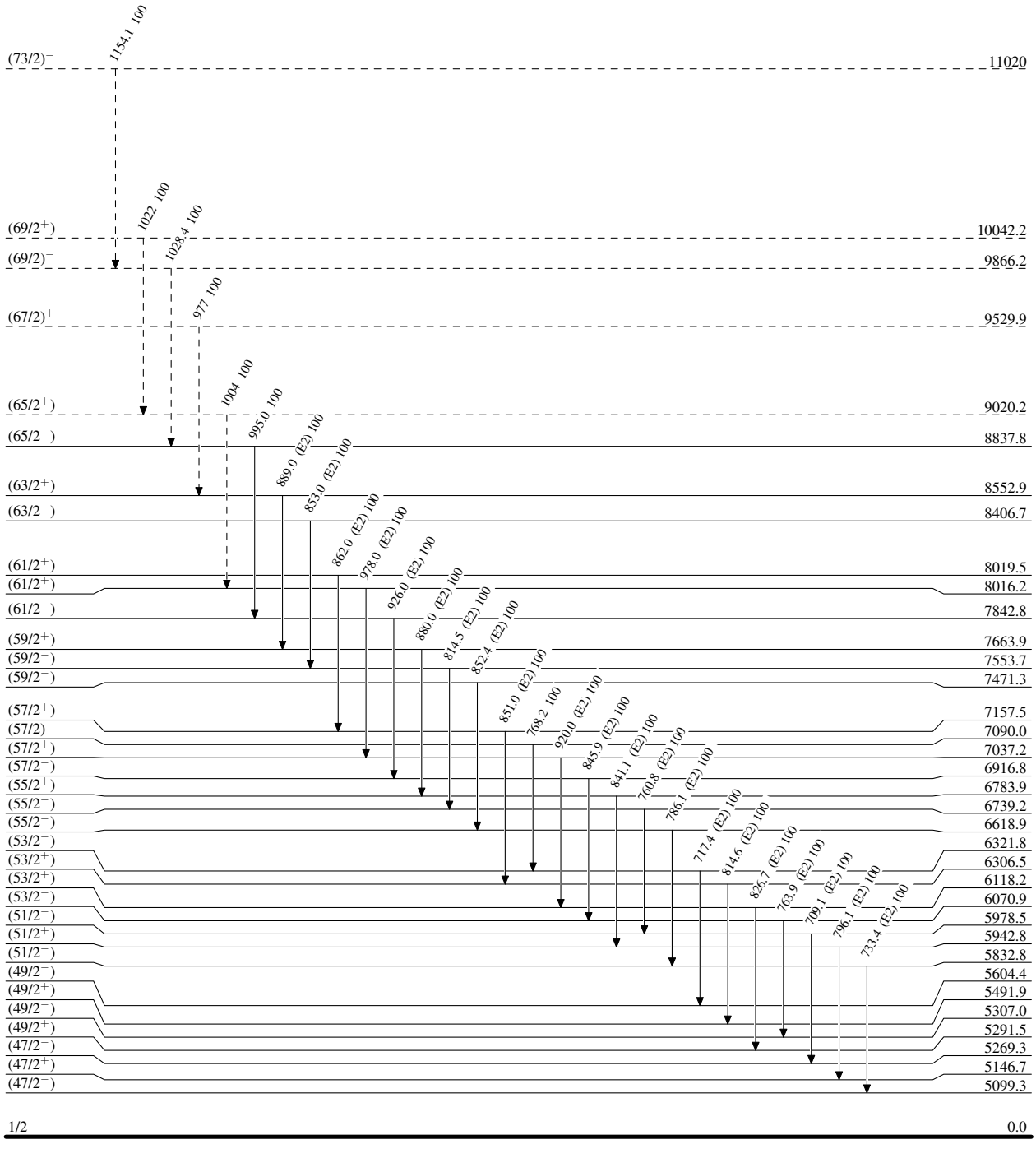
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



6.5 min *3*

$^{179}_{76}Os_{103}$

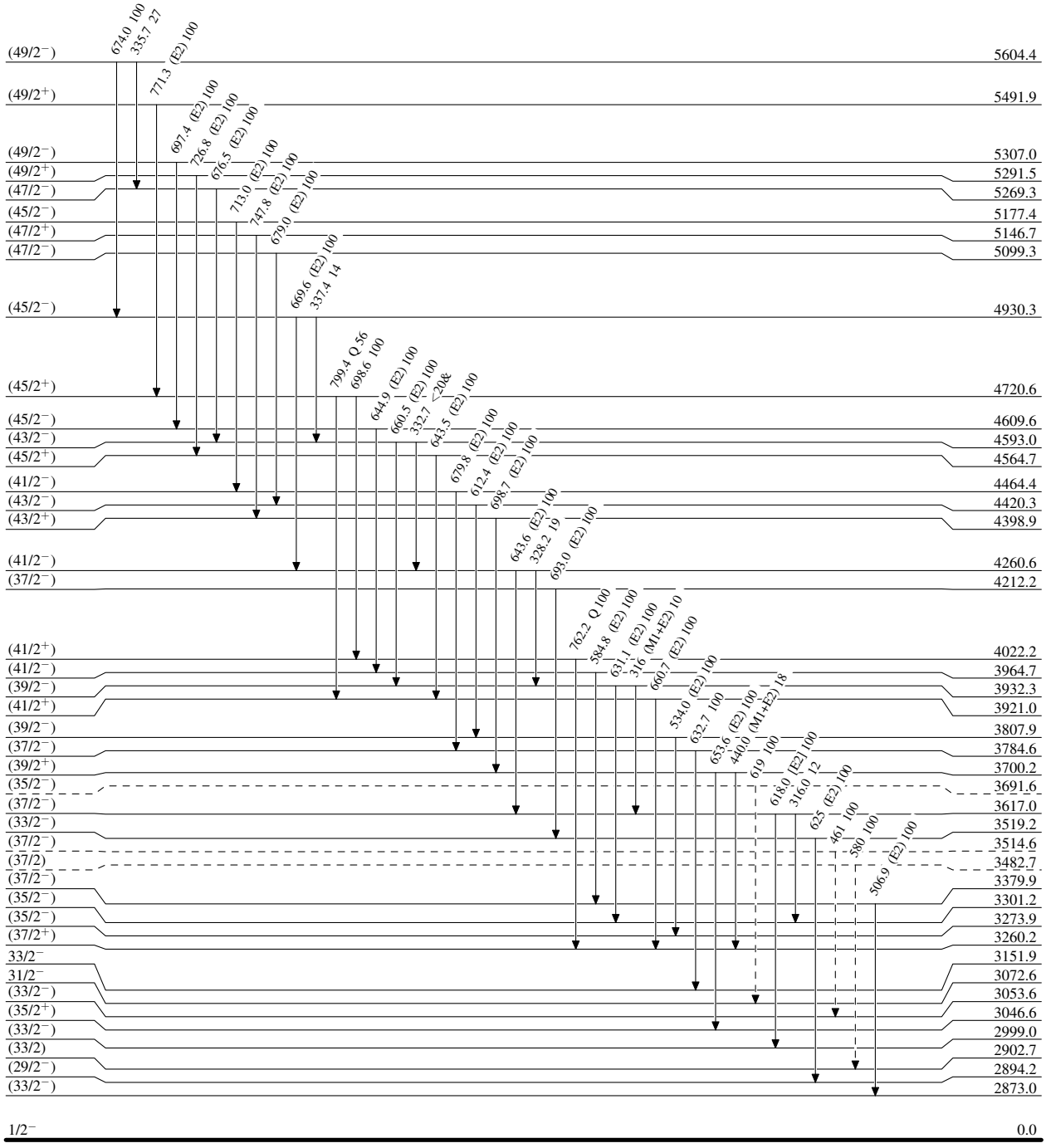
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

- - - - - - ► γ Decay (Uncertain)

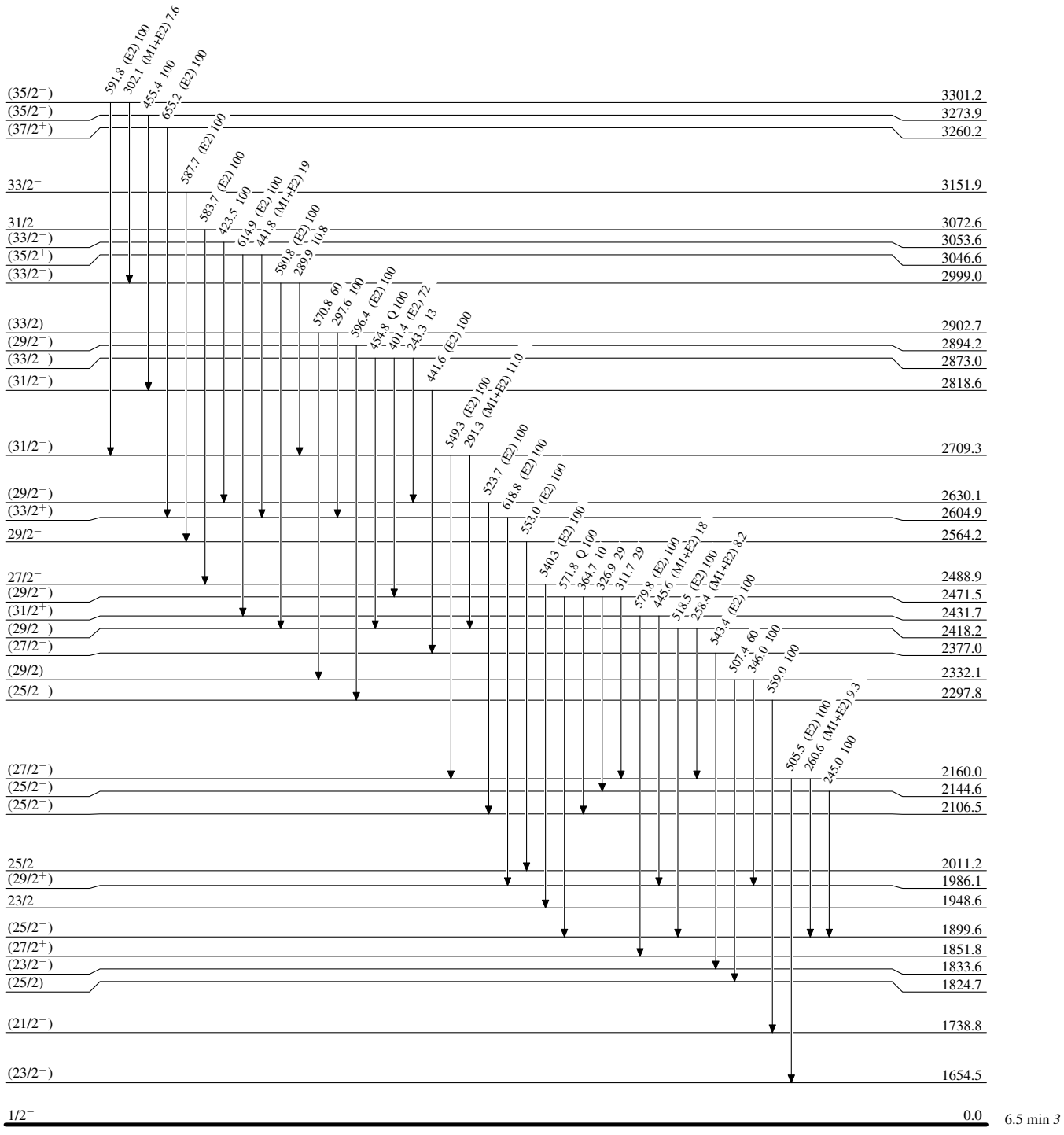


$^{179}_{76}Os_{103}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



$^{179}_{76}Os_{103}$

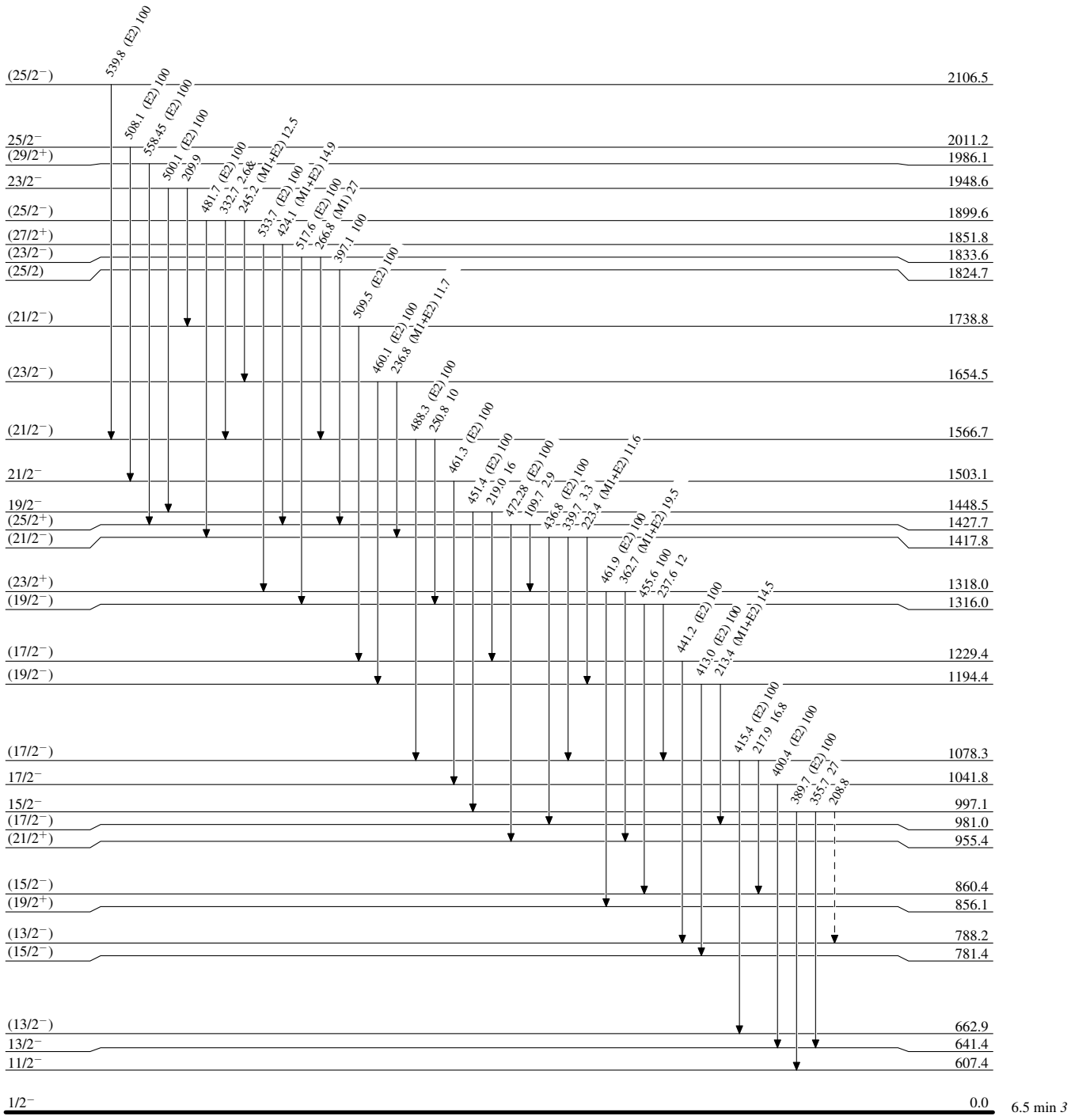
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

- - - - - - ► γ Decay (Uncertain)



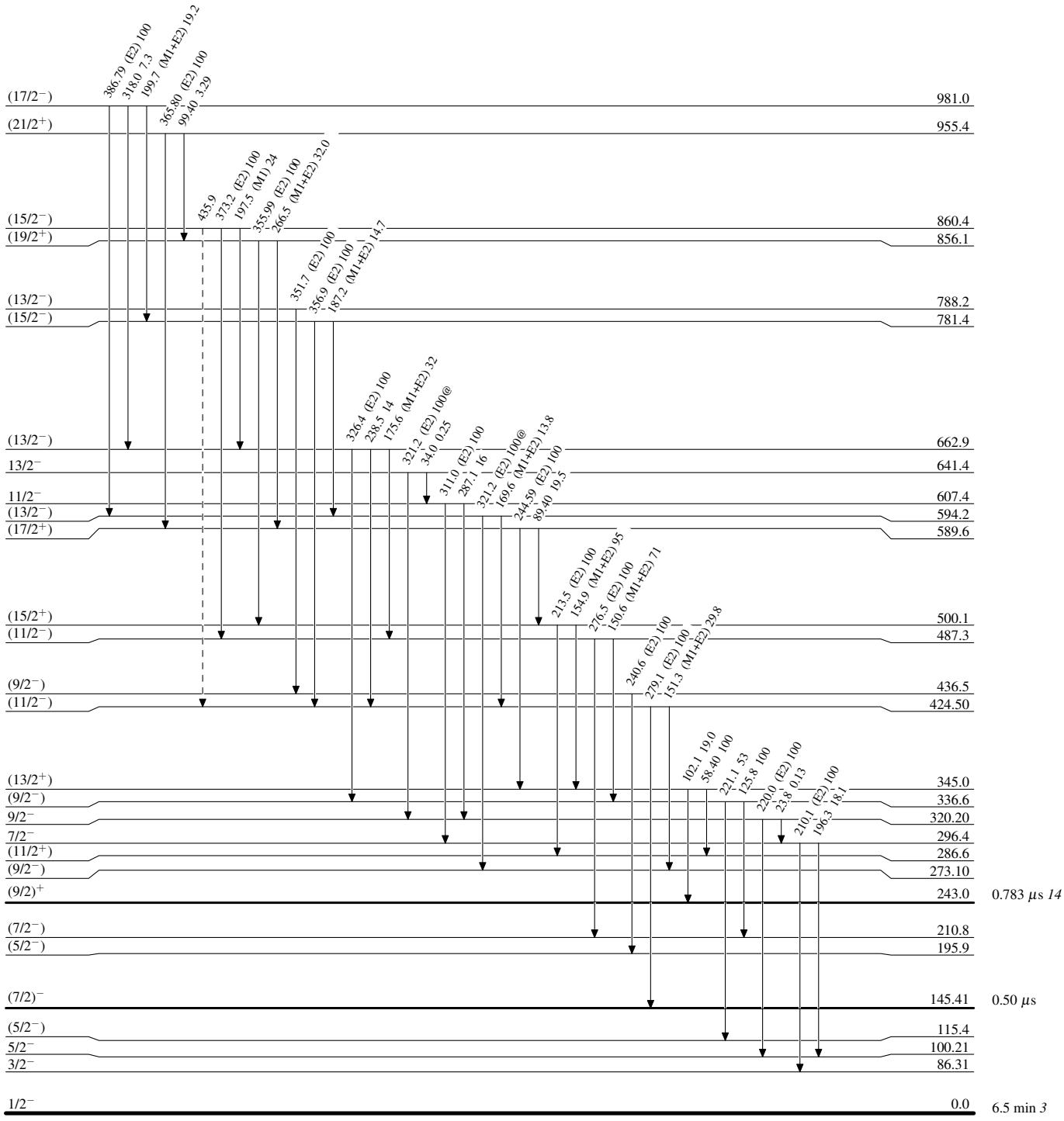
$^{179}_{76}Os_{103}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend
- - - - - - ► γ Decay (Uncertain)



$^{179}_{76}Os_{103}$

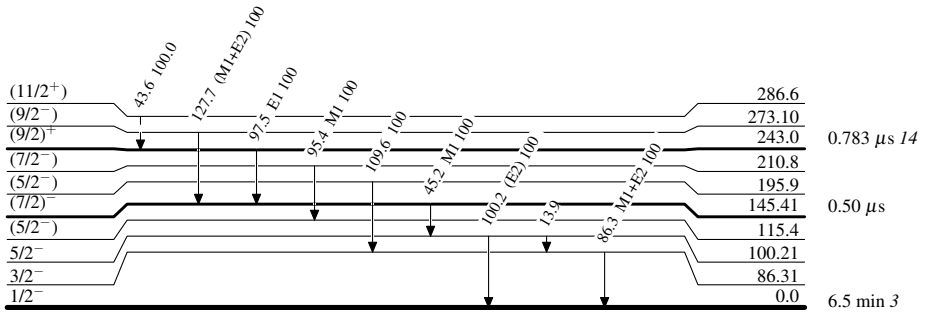
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

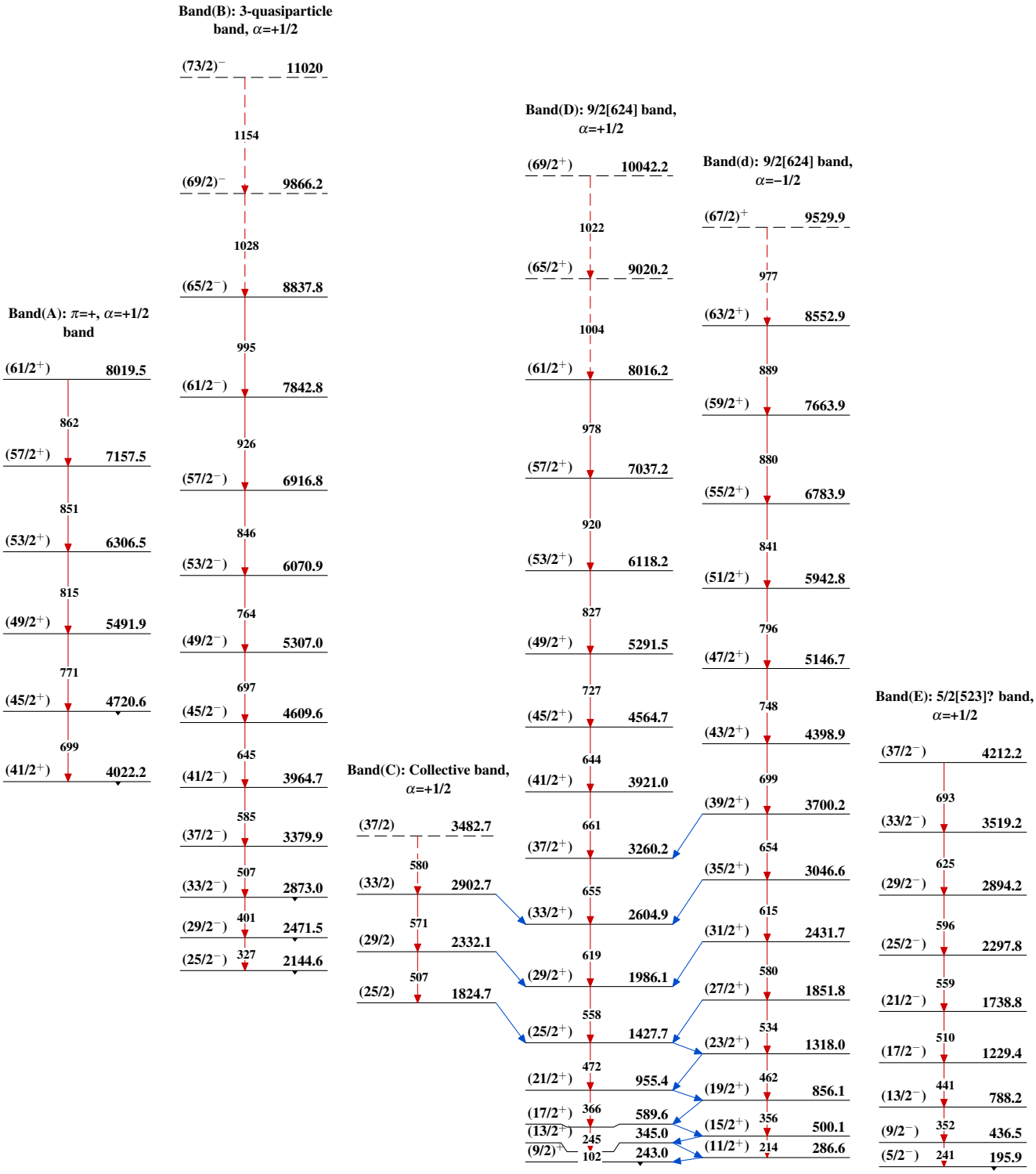
Legend

γ Decay (Uncertain)



$^{179}_{76}Os_{103}$

Adopted Levels, Gammas



$^{179}_{76}Os_{103}$

Adopted Levels, Gammas (continued)