^{183}Ir ε decay 1988Ro13

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Parent: ^{183}Ir: E=0.0; J^π=5/2$^-$; $T_{1/2}$=58 min *6*; Q(ε)=3460 *50*; %ε+%β^+ decay=100.0

Other measurements: 1975La22, 1961Di04, 1961La05.

1988Ro13: Source produced by bombardment of Pt-B alloy target with 200 MeV p or 280 MeV ^{3}He; Isocele mass separator, two HPGe detectors (FWHM 1.9 keV at 1.3 MeV) for γ spectroscopy (Eγ=15-2500), magnetic spectrometer (for E(ce)=44-340 keV) and cooled Si(Li) detector for electron measurements; measured Eγ, Iγ, I(ce), γγ coin.

Total energy release for this decay scheme is 3556 *323* cf. QxBR=3460 *50*.

^{183}Os Levels

E(level)†	J^π‡	$T_{1/2}$	E(level)†	J^π‡
0.0	9/2$^+$		832.03 *11*	(3/2,5/2,7/2)$^-$
96.23 *11*	11/2$^+$		850.20 *13*	(3/2,5/2,7/2)$^-$
170.70 *7*	1/2$^-$	9.9‡ h *3*	896.76 *14*	7/2$^+$
258.32 *8*	3/2$^-$		944.31 *12*	(3/2,5/2)$^-$
273.04 *8*	5/2$^-$		964.83 *16*	(3/2,5/2)$^-$
392.48 *8*	(7/2)$^-$		1039.19 *22*	(5/2,7/2,9/2)$^-$
395.19 *10*	1/2$^-$		1045.95 *12*	(5/2$^+$)
453.05 *9*	3/2$^-$		1054.34 *14*	(5/2,7/2,9/2)$^-$
486.99 *10*	7/2$^-$		1180.87 *17*	(3/2,5/2)$^-$
509.88 *11*	9/2$^-$		1236.76 *15*	(7/2)$^+$
512.54 *12*	7/2$^-$		1252.96 *15*	5/2$^+$
513.09 *8*	5/2$^-$		1295.46 *18*	(5/2,7/2)$^+$
544.38 *9*	5/2$^-$		1332.58 *23*	(1/2,3/2,5/2)$^-$
558.15 *14*	(9/2)$^-$		1911.52 *17*	(3/2$^-$,5/2,7/2$^-$)
582.21 *10*	(3/2)$^-$		1921.03 *23*	1/2,3/2,5/2$^-$
620.78 *10*	7/2$^-$		1977.95 *15*	(3/2)$^+$
646.88 *22*	9/2$^-$		2083.43 *23*	(1/2,3/2,5/2$^-$)
655.32 *11*	(7/2)$^-$		2219.11 *24*	(5/2$^-$,7/2)
669.09 *9*	(5/2)$^-$		2249.34 *23*	(5/2$^+$,7/2)
714.01 *11*	9/2$^+$		2254.58 *19*	3/2$^{(-)}$,5/2,7/2$^{(-)}$
731.58 *11*	7/2$^+$		2258.31 *14*	(7/2)
748.76 *17*	(11/2$^-$)		2273.79 *10*	(7/2)$^-$
763.82 *12*	(7/2)$^-$		2300.03 *11*	(5/2)$^-$
792.93 *17*	(11/2)$^+$		2310.49 *23*	3/2,5/2,7/2$^{(-)}$
800.56 *13*	(5/2)$^+$		2511.21 *23*	(5/2$^+$,7/2)

† From least-squares fit to Eγ omitting transitions whose placement is uncertain.

‡ From Adopted Levels.

ε,β^+ radiations

E(decay)	E(level)	Iε‡	Log *ft*	I(ε+β^+)†‡	Comments
(9.5×10^2 *5*)	2511.21	0.46 *8*	7.13 *11*	0.46 *8*	εK=0.8036 *13*; εL=0.1490 *10*; εM+=0.0474 *4*
(1.15×10^3 *5*)	2310.49	0.54 *9*	7.24 *10*	0.54 *9*	εK=0.8076 *9*; εL=0.1462 *7*; εM+=0.04627 *23*
(1.16×10^3 *5*)	2300.03	8.1 *10*	6.07 *8*	8.1 *10*	εK=0.8077 *9*; εL=0.1460 *6*; εM+=0.04622 *23*
(1.19×10^3 *5*)	2273.79	7.6 *10*	6.12 *9*	7.6 *10*	εK=0.8081 *8*; εL=0.1457 *6*; εM+=0.04611 *22*
(1.20×10^3 *5*)	2258.31	1.6 *3*	6.81 *10*	1.6 *3*	εK=0.8084 *8*; εL=0.1456 *6*; εM+=0.04605 *21*
(1.21×10^3 *5*)	2254.58	0.84 *13*	7.09 *9*	0.84 *13*	εK=0.8084 *8*; εL=0.1455 *6*; εM+=0.04604 *21*
(1.21×10^3 *5*)	2249.34	0.54 *9*	7.28 *10*	0.54 *9*	εK=0.8085 *8*; εL=0.1455 *6*; εM+=0.04602 *21*
(1.24×10^3 *5*)	2219.11	0.23 *4*	7.68 *10*	0.23 *4*	εK=0.8089 *7*; εL=0.1452 *6*; εM+=0.04590 *20*

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^{183}Ir ε decay 1988Ro13 (continued)

ε,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ ‡	Iε‡	Log *ft*	I(ε+β^+)†‡	Comments
(1.38×10^3 *5*)	2083.43		0.53 *8*	7.41 *9*	0.53 *8*	εK=0.8104 *5*; εL=0.1439 *5*; εM+=0.04544 *16*
(1.48×10^3 *5*)	1977.95	0.0016 *9*	2.2 *4*	6.86 *10*	2.2 *4*	av Eβ=226 *23*; εK=0.8110 *3*; εL=0.1431 *4*; εM+=0.04512 *15*
(1.54×10^3 *5*)	1921.03	0.0007 *4*	0.61 *11*	7.45 *10*	0.61 *11*	av Eβ=252 *23*; εK=0.8112 *2*; εL=0.1427 *4*; εM+=0.04496 *14*
(1.55×10^3 *5*)	1911.52	0.0012 *6*	0.92 *13*	7.28 *9*	0.92 *13*	av Eβ=256 *23*; εK=0.81118 *9*; εL=0.1426 *4*; εM+=0.04494 *14*
(2.13×10^3 *5*)	1332.58	0.016 *4*	0.74 *13*	7.65 *9*	0.76 *13*	av Eβ=511 *22*; εK=0.7990 *25*; εL=0.1373 *7*; εM+=0.04312 *21*
(2.16×10^3 *5*)	1295.46	0.0030 *15*	0.13 *6*	8.44 *21*	0.13 *6*	av Eβ=527 *22*; εK=0.797 *3*; εL=0.1369 *7*; εM+=0.04297 *21*
(2.21×10^3# *5*)	1252.96					I(ε+β^+): more intensity deexcites than feeds this level.
(2.28×10^3 *5*)	1180.87	0.010 *2*	0.32 *6*	8.08 *10*	0.33 *6*	av Eβ=578 *22*; εK=0.791 *4*; εL=0.1353 *8*; εM+=0.04247 *24*
(2.41×10^3 *5*)	1054.34	0.069 *15*	1.5 *3*	7.45 *10*	1.6 *3*	av Eβ=633 *22*; εK=0.782 *4*; εL=0.1334 *9*; εM+=0.0419 *3*
(2.41×10^3 *5*)	1045.95	0.048 *12*	1.04 *22*	7.62 *11*	1.09 *23*	av Eβ=637 *22*; εK=0.781 *4*; εL=0.1333 *9*; εM+=0.0418 *3*
(2.42×10^3 *5*)	1039.19	0.0055 *13*	0.118 *23*	8.57 *10*	0.124 *24*	av Eβ=640 *22*; εK=0.780 *4*; εL=0.1332 *9*; εM+=0.0418 *3*
(2.50×10^3 *5*)	964.83	0.054 *12*	0.98 *20*	7.68 *11*	1.03 *21*	av Eβ=673 *22*; εK=0.774 *5*; εL=0.1319 *9*; εM+=0.0414 *3*
(2.52×10^3 *5*)	944.31	0.067 *13*	1.15 *19*	7.61 *9*	1.22 *20*	av Eβ=682 *22*; εK=0.772 *5*; εL=0.1315 *10*; εM+=0.0413 *3*
(2.56×10^3 *5*)	896.76	0.066 *19*	1.0 *3*	7.68 *13*	1.1 *3*	av Eβ=703 *22*; εK=0.768 *5*; εL=0.1307 *10*; εM+=0.0410 *3*
(2.61×10^3 *5*)	850.20	0.048 *9*	0.68 *10*	7.87 *9*	0.73 *11*	av Eβ=723 *22*; εK=0.764 *6*; εL=0.1298 *10*; εM+=0.0407 *4*
(2.63×10^3 *5*)	832.03	0.14 *2*	1.9 *3*	7.44 *9*	2.0 *3*	av Eβ=731 *22*; εK=0.762 *6*; εL=0.1294 *10*; εM+=0.0406 *4*
(2.66×10^3 *5*)	800.56	0.14 *4*	1.8 *5*	7.48 *13*	1.9 *5*	av Eβ=745 *22*; εK=0.758 *6*; εL=0.1288 *11*; εM+=0.0404 *4*
(2.67×10^3 *5*)	792.93	0.103 *19*	1.30 *20*	7.61 *9*	1.40 *22*	av Eβ=748 *22*; εK=0.758 *6*; εL=0.1286 *11*; εM+=0.0403 *4*
(2.70×10^3 *5*)	763.82	0.054 *16*	0.65 *18*	7.93 *14*	0.70 *20*	av Eβ=761 *23*; εK=0.754 *6*; εL=0.1280 *11*; εM+=0.0401 *4*
(2.71×10^3 *5*)	748.76	0.014 *3*	0.16 *4*	8.55 *12*	0.17 *4*	av Eβ=768 *22*; εK=0.753 *6*; εL=0.1277 *11*; εM+=0.0400 *4*
(2.73×10^3 *5*)	731.58	0.10 *4*	1.1 *5*	7.71 *19*	1.2 *5*	av Eβ=775 *22*; εK=0.751 *6*; εL=0.1274 *11*; εM+=0.0399 *4*
(2.75×10^3 *5*)	714.01	<0.02	<0.8	>9.3^{1u}	<0.8	av Eβ=785 *22*; εK=0.7895 *20*; εL=0.1405 *6*; εM+=0.04437 *20*
(2.79×10^3 *5*)	669.09	0.20 *4*	2.0 *4*	7.47 *10*	2.2 *4*	av Eβ=803 *23*; εK=0.744 *6*; εL=0.1260 *12*; εM+=0.0395 *4*
(2.80×10^3 *5*)	655.32	0.08 *3*	0.8 *3*	7.86 *16*	0.9 *3*	av Eβ=809 *23*; εK=0.742 *7*; εL=0.1257 *12*; εM+=0.0394 *4*
(2.81×10^3 *5*)	646.88	0.096 *22*	0.92 *20*	7.81 *11*	1.02 *22*	av Eβ=813 *23*; εK=0.741 *7*; εL=0.1255 *12*; εM+=0.0393 *4*
(2.84×10^3 *5*)	620.78	0.30 *7*	2.8 *6*	7.34 *11*	3.1 *7*	av Eβ=824 *23*; εK=0.738 *7*; εL=0.1249 *12*; εM+=0.0391 *4*
(2.88×10^3 *5*)	582.21	0.26 *6*	2.2 *4*	7.44 *10*	2.5 *5*	av Eβ=841 *23*; εK=0.733 *7*; εL=0.1240 *12*; εM+=0.0389 *4*
(2.90×10^3 *5*)	558.15	0.18 *6*	1.5 *4*	7.62 *14*	1.7 *5*	av Eβ=852 *23*; εK=0.730 *7*; εL=0.1235 *12*; εM+=0.0387 *4*

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^{183}Ir ε decay 1988Ro13 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Iβ^+ ‡	Iε‡	Log *ft*	I($\varepsilon+\beta^+$)†‡	Comments
(2.92×10^3 *5*)	544.38	0.31 *12*	2.5 *10*	7.41 *18*	2.8 *11*	av Eβ=858 *23*; εK=0.728 *7*; εL=0.1231 *13*; εM+=0.0386 *4*
(2.95×10^3 *5*)	513.09	0.33 *12*	2.6 *9*	7.41 *16*	2.9 *10*	av Eβ=872 *23*; εK=0.724 *7*; εL=0.1224 *13*; εM+=0.0383 *4*
(2.95×10^3 *5*)	512.54	0.20 *12*	1.5 *9*	7.6 *3*	1.7 *10*	av Eβ=872 *23*; εK=0.724 *7*; εL=0.1224 *13*; εM+=0.0383 *4*
(2.95×10^3 *5*)	509.88	0.13 *5*	1.0 *4*	7.83 *17*	1.1 *4*	av Eβ=874 *23*; εK=0.723 *7*; εL=0.1223 *13*; εM+=0.0383 *4*
(2.97×10^3 *5*)	486.99	0.59 *18*	4.3 *13*	7.19 *15*	4.9 *15*	av Eβ=884 *23*; εK=0.720 *7*; εL=0.1217 *13*; εM+=0.0381 *4*
(3.01×10^3 *5*)	453.05	0.62 *17*	4.3 *11*	7.20 *13*	4.9 *13*	av Eβ=899 *23*; εK=0.716 *7*; εL=0.1209 *13*; εM+=0.0379 *4*
(3.06×10^3 *5*)	395.19	0.26 *12*	1.6 *8*	7.64 *22*	1.9 *9*	av Eβ=925 *23*; εK=0.707 *8*; εL=0.1194 *14*; εM+=0.0374 *5*
(3.07×10^3 *5*)	392.48	0.34 *22*	2.2 *14*	7.5 *3*	2.5 *16*	av Eβ=926 *23*; εK=0.707 *8*; εL=0.1193 *14*; εM+=0.0374 *5*
(3.20×10^3 *5*)	258.32	2.7 *13*	14 *7*	6.74 *21*	17 *8*	av Eβ=986 *23*; εK=0.687 *8*; εL=0.1157 *14*; εM+=0.0362 *5*
(3.36×10^3 *5*)	96.23	0.23 *15*	1.0 *6*	7.9 *3*	1.2 *8*	av Eβ=1058 *23*; εK=0.661 *9*; εL=0.1112 *15*; εM+=0.0348 *5*
(3.46×10^3# *5*)	0.0	<1.1	<12	>8.5^{1u}	<13	av Eβ=1090 *22*; εK=0.747 *5*; εL=0.1302 *9*; εM+=0.0410 *3* I($\varepsilon+\beta^+$): calculated assuming log $f^{1u}t$>8.5.

† Calculated from decay scheme intensity balances, assigning 0.5Iγ ± 0.5Iγ to transitions with uncertain placements. About 20% of observed transition intensity remains unplaced, so the weaker feedings may be unreliable.

‡ Absolute intensity per 100 decays.

Existence of this branch is questionable.

γ(^{183}Os)

Iγ normalization: assuming Σ (I(γ+ce) to g.s.+171 level)=93% 7 based on Iβ(g.s.)<13% if log $f^{1u}t$>8.5 and negligible expected feeding of 171 level (ΔJ=3, Δπ=yes). The Q(β^-)value and complexity of the decay scheme suggest that significant unobserved transition intensity may exist.

E_γ[‡]	I_γ[#e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&]	α[†]	$I_{(\gamma+ce)}$[e]	Comments
14.7 *2*		273.04	5/2⁻	258.32	3/2⁻	[M1]		276 *12*	97 *14*	ce(L)/(γ+ce)=0.767 *23*; ce(M)/(γ+ce)=0.178 *10* ce(N)/(γ+ce)=0.044 *3*; ce(O)/(γ+ce)=0.0075 *5*; ce(P)/(γ+ce)=0.00056 *4* α(L)=212 *9*; α(M)=49.3 *22*; α(N)=12.0 *6*; α(O)=2.07 *10*; α(P)=0.154 *7* $I_{(\gamma+ce)}$: calculated from the intensity balance at the 273 level assuming no direct ε feeding to that level. Authors estimated I(γ+ce)≈60 from coincidence intensities.
26.1 *2*	0.33 *5*	513.09	5/2⁻	486.99	7/2⁻	M1(+E2)	<0.1	62 *12*		α(L)=48 *9*; α(M)=11.2 *23* α(N)=2.7 *6*; α(O)=0.45 *8*; α(P)=0.0279 *8* Mult.,δ: I(γ+ce)=21.0 from authors′ coin spectrum analysis implies α(exp)=63 *9* and δ<0.1.
31.6 *2*	0.120 *18*	544.38	5/2⁻	512.54	7/2⁻	M1+E2	0.34 *+12−15*	1.2×10^2 *7*		α(L)=9.E1 5; α(M)=23 *13* α(N)=6 *3*; α(O)=0.8 *5*; α(P)=0.0147 *9* Mult.,δ: I(γ+ce)=15.0 from authors′ coin spectrum analysis implies α(exp)=124 *19* and δ=0.34.
57.9 *2*	≈0.50[a]	453.05	3/2⁻	395.19	1/2⁻	M1+E2	0.4 *4*	11 *11*		α(L)=8 *9*; α(M)=2.0 *22* α(N)=0.5 *5*; α(O)=0.08 *8*; α(P)=0.0024 *6* Mult.,δ: I(γ+ce)=5.4 from authors′ coin spectrum analysis implies α(exp)≈11 and δ=0.4.
^{x}84.7 *2*	0.62 *9*									
87.5 *1*	54 *8*	258.32	3/2⁻	170.70	1/2⁻	E2+M1	0.85 *+18−16*	7.96 *14*		α(K)=4.3 *6*; α(L)=2.8 *4*; α(M)=0.69 *10* α(N)=0.165 *24*; α(O)=0.025 *4*; α(P)=0.00051 *7* %Iγ=5.3 *6* assuming adopted decay scheme normalization. Mult.: L1:L2:L3:M:N+=24 *4*:61 *9*:52 *8*:35 *5*:9.7 *15*; α(L2)exp=1.13 *24*. δ: from α(L2)exp.
91.1 *2*	0.80 *12*	544.38	5/2⁻	453.05	3/2⁻	M1		7.35 *12*		α(K)=6.07 *10*; α(L)=0.991 *16*; α(M)=0.227 *4* α(N)=0.0555 *9*; α(O)=0.00958 *15*; α(P)=0.000713 *11* Mult.: α(L1)exp=1.25 *25*.
96.2 *2*	6.1 *9*	96.23	11/2⁺	0.0	9/2⁺	M1+E2	−0.39 *4*	6.13 *10*		α(K)=4.62 *13*; α(L)=1.16 *6*; α(M)=0.277 *16* α(N)=0.067 *4*; α(O)=0.0109 *6*; α(P)=0.000540 *15*

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[&]	α[†]	Comments
									%Iγ=0.63 *10* assuming adopted decay scheme normalization. Mult.,δ: L1:L2=4.4 *7*:1.8 *3*; sign of δ from Adopted Gammas. α(L1)exp=0.72 *15* implies δ=0.3 *+4−3*.
102.2 *1*	14.0 *21*	273.04	5/2−	170.70	1/2−	E2		3.99	α(K)=0.774 *11*; α(L)=2.42 *4*; α(M)=0.620 *10*; α(N)=0.1486 *22*; α(O)=0.0219 *4*; α(P)=7.98×10^{-5} *12*; %Iγ=1.37 *25* assuming adopted decay scheme normalization. Mult.: from L1:L2:L3:M:N+=2.1 *3*:17.0 *26*:16.0 *24*:9.9 *15*:7.5 *11*; α(L)exp=2.5 *5*.
107.6 *2*	3.9 *6*	620.78	7/2−	513.09	5/2−	M1(+E2)	<0.11	4.55	α(K)=3.75 *6*; α(L)=0.620 *13*; α(M)=0.143 *3*; α(N)=0.0348 *8*; α(O)=0.00599 *12*; α(P)=0.000438 *7*; Mult.: L1:L2=1.00 *15*:0.20 *3*; α(L1)exp=0.26 *5*.
110.8 *2*	2.2 *3*	655.32	(7/2)−	544.38	5/2−	[E2]		2.89 *5*	α(K)=0.677 *10*; α(L)=1.67 *3*; α(M)=0.426 *7*; α(N)=0.1022 *17*; α(O)=0.01512 *25*; α(P)=6.58×10^{-5} *10*
118.0 *2*	≈1.0[a]	513.09	5/2−	395.19	1/2−	[E2]		2.26	α(K)=0.600 *9*; α(L)=1.249 *20*; α(M)=0.319 *6*; α(N)=0.0765 *13*; α(O)=0.01133 *19*; α(P)=5.67×10^{-5} *9*
119.9 *2*	3.4 *5*	512.54	7/2−	392.48	(7/2)−	M1(+E2)	≤0.52	3.22 *14*	α(K)=2.53 *24*; α(L)=0.52 *8*; α(M)=0.124 *21*; α(N)=0.030 *5*; α(O)=0.0050 *7*; α(P)=0.00029 *3*; Mult.: α(K)exp=2.9 *6*.
124.3 *2*	3.7 *6*	669.09	(5/2)−	544.38	5/2−	E2(+M1)	≥3.4	1.89 *6*	α(K)=0.62 *8*; α(L)=0.96 *3*; α(M)=0.245 *8*; α(N)=0.0588 *18*; α(O)=0.00875 *25*; α(P)=6.0×10^{-5} *10*; Mult.: α(K)exp=0.57 *12*.
128.9 *2*	4.5 *7*	582.21	(3/2)−	453.05	3/2−	M1(+E2)	0.4 *4*	2.6 *3*	α(K)=2.0 *5*; α(L)=0.43 *12*; α(M)=0.10 *4*; α(N)=0.025 *8*; α(O)=0.0041 *11*; α(P)=0.00023 *6*; Mult.: α(K)exp=2.0 *4*.
136.8 *1*	13.0 *20*	395.19	1/2−	258.32	3/2−	M1+E2	0.4 *1*	2.16 *7*	α(K)=1.70 *10*; α(L)=0.353 *22*; α(M)=0.083 *6*; α(N)=0.0203 *14*; α(O)=0.00337 *19*; α(P)=0.000196 *12*; Mult.: K:L1:L2=15.0 *23*:3.2 *5*:0.56 *8*. α(K)exp=1.15 *24* implies δ=1.0 *+4−3*.
137.4 *2*	≈0.50[a]	792.93	(11/2)+	655.32	(7/2)−	[M2]		15.40	α(K)=11.08 *17*; α(L)=3.28 *5*; α(M)=0.810 *13*; α(N)=0.200 *3*; α(O)=0.0337 *6*; α(P)=0.00217 *4*
151.7 *2*	0.46 *7*	544.38	5/2−	392.48	(7/2)−	[M1+E2]		1.3 *5*	α(K)=0.9 *6*; α(L)=0.32 *9*; α(M)=0.08 *3*; α(N)=0.019 *6*; α(O)=0.0029 *8*; α(P)=0.00010 *7*
156.2 *2*	0.83 *12*	669.09	(5/2)−	513.09	5/2−	[M1+E2]		1.2 *4*	α(K)=0.8 *5*; α(L)=0.28 *8*; α(M)=0.069 *21*; α(N)=0.017 *5*; α(O)=0.0026 *6*; α(P)=9.E−5 *7*
165.7 *2*	8.9 *14*	558.15	(9/2)−	392.48	(7/2)−	M1+E2	0.7 *4*	1.11 *18*	α(K)=0.83 *21*; α(L)=0.210 *24*; α(M)=0.050 *7*; α(N)=0.0122 *17*; α(O)=0.00198 *20*; α(P)=9.E−5 *3*; Mult.: α(K)exp=0.85 *18*.
167.7 *2*	2.0 *3*	620.78	7/2−	453.05	3/2−	[E2]		0.611	α(K)=0.267 *4*; α(L)=0.260 *4*; α(M)=0.0660 *10*; α(N)=0.01584 *24*; α(O)=0.00238 *4*; α(P)=2.44×10^{-5} *4*
168 *1*	≈0.8[a]	655.32	(7/2)−	486.99	7/2−	[M1+E2]		0.9 *4*	α(K)=0.7 *4*; α(L)=0.21 *5*; α(M)=0.052 *14*; α(N)=0.013 *3*; α(O)=0.0020 *4*; α(P)=7.E−5 *5*
170.7 *1*		170.70	1/2−	0.0	9/2+	M4		208	α(K)=63.1 *9*; α(L)=105.1 *16*; α(M)=30.9 *5*

γ(^{183}Os) (continued)

Eγ[‡]	Iγ[#e]	Ei(level)	J^π_i	E_f	J^π_f	Mult.[@]	α[†]	Comments
								α(N)=7.71 *12*; α(O)=1.194 *18*; α(P)=0.0386 *6* Eγ: isomeric transition populated primarily directly in the reaction. Mult.: K:L1:L2:L3:M=6.1 *9*:6.0 *9*:1.20 *18*:9.1 *14*:6.1 *9*.
176.6 *2*	0.78 *12*	832.03	(3/2,5/2,7/2)$^-$	655.32	(7/2)$^-$	[M1+E2]	0.8 *3*	α(K)=0.6 *4*; α(L)=0.18 *3*; α(M)=0.043 *10* α(N)=0.0105 *22*; α(O)=0.00167 *24*; α(P)=6.E−5 *5*
179.8 *2*	3.1 *5*	453.05	3/2$^-$	273.04	5/2$^-$	[M1+E2]	0.8 *3*	α(K)=0.6 *4*; α(L)=0.17 *3*; α(M)=0.041 *9* α(N)=0.0098 *19*; α(O)=0.00157 *20*; α(P)=6.E−5 *4*
181.8 *2*	1.70 *26*	669.09	(5/2)$^-$	486.99	7/2$^-$	[M1+E2]	0.7 *3*	α(K)=0.5 *4*; α(L)=0.161 *24*; α(M)=0.039 *8* α(N)=0.0094 *18*; α(O)=0.00151 *18*; α(P)=6.E−5 *4*
[x]183.2 *2*	0.33 *5*							
190.7 *2*	0.78 *12*	748.76	(11/2$^-$)	558.15	(9/2)$^-$	(M1+E2)	0.6 *3*	α(K)=0.5 *3*; α(L)=0.135 *16*; α(M)=0.033 *6* α(N)=0.0079 *12*; α(O)=0.00127 *11*; α(P)=5.E−5 *4*
194.7 *1*	15.0 *23*	453.05	3/2$^-$	258.32	3/2$^-$	M1	0.850	α(K)=0.703 *10*; α(L)=0.1133 *16*; α(M)=0.0260 *4* α(N)=0.00635 *9*; α(O)=0.001096 *16*; α(P)=8.17×10^{-5} *12* Mult.: K:L1=13.0 *20*:2.3 *3*; α(K)exp=0.87 *18*.
[x]198.2 *2*	0.54 *8*							
[x]199.8 *2*	0.52 *8*							
211.2 *2*	1.9 *3*	832.03	(3/2,5/2,7/2)$^-$	620.78	7/2$^-$	[M1+E2]	0.48 *20*	α(K)=0.35 *21*; α(L)=0.094 *4*; α(M)=0.0227 *20* α(N)=0.0055 *5*; α(O)=0.000886 *19*; α(P)=4.E−5 *3*
213.9 *2*	5.0 *8*	486.99	7/2$^-$	273.04	5/2$^-$	[M1+E2]	0.46 *20*	α(K)=0.34 *20*; α(L)=0.090 *4*; α(M)=0.0217 *18* α(N)=0.0052 *4*; α(O)=0.000848 *14*; α(P)=3.8×10^{-5} *25*
228.6 *1*	66 *10*	486.99	7/2$^-$	258.32	3/2$^-$	E2	0.213	α(K)=0.1196 *17*; α(L)=0.0708 *10*; α(M)=0.0178 *3* α(N)=0.00427 *6*; α(O)=0.000652 *10*; α(P)=1.147×10^{-5} *17* Mult.: α(K)exp=0.13 *3*.
236.8 *1*	16.0 *24*	509.88	9/2$^-$	273.04	5/2$^-$	E2	0.190	α(K)=0.1091 *16*; α(L)=0.0614 *9*; α(M)=0.01538 *22* α(N)=0.00370 *6*; α(O)=0.000566 *8*; α(P)=1.052×10^{-5} *15* Mult.: α(K)exp=0.17 *4*. δ(M1,E2)=2.0 *+17−6* from α(K)exp.
239.9 *1*	17 *3*	513.09	5/2$^-$	273.04	5/2$^-$	M1	0.477	α(K)=0.395 *6*; α(L)=0.0633 *9*; α(M)=0.01451 *21* α(N)=0.00354 *5*; α(O)=0.000612 *9*; α(P)=4.57×10^{-5} *7* Mult.: α(K)exp=0.48 *10*.
245.2 *2*	0.49 *7*	1045.95	(5/2$^+$)	800.56	(5/2)$^+$	[M1+E2]	0.31 *14*	α(K)=0.24 *14*; α(L)=0.057 *4*; α(M)=0.01351 *25* α(N)=0.00328 *8*; α(O)=0.00053 *5*; α(P)=2.6×10^{-5} *17*
249.7 *2*	2.0 *3*	832.03	(3/2,5/2,7/2)$^-$	582.21	(3/2)$^-$	[M1+E2]	0.29 *14*	α(K)=0.22 *13*; α(L)=0.053 *4*; α(M)=0.0127 *4* α(N)=0.00308 *10*; α(O)=0.00050 *5*; α(P)=2.5×10^{-5} *16*
250.7 *2*	6.3 *9*	763.82	(7/2)$^-$	513.09	5/2$^-$	[M1+E2]	0.29 *14*	α(K)=0.22 *13*; α(L)=0.053 *4*; α(M)=0.0125 *4* α(N)=0.00304 *11*; α(O)=0.00050 *5*; α(P)=2.5×10^{-5} *16*
253 *1*	≈1.2[a]	763.82	(7/2)$^-$	509.88	9/2$^-$	[M1+E2]	0.28 *13*	α(K)=0.22 *13*; α(L)=0.051 *4*; α(M)=0.0122 *5* α(N)=0.00295 *13*; α(O)=0.00048 *5*; α(P)=2.4×10^{-5} *16*
254.4 *2*	8.1 *12*	646.88	9/2$^-$	392.48	(7/2)$^-$	M1(+E2)[b]	0.28 *13*	α(K)=0.21 *13*; α(L)=0.050 *4*; α(M)=0.0119 *5* α(N)=0.00289 *13*; α(O)=0.00047 *5*; α(P)=2.4×10^{-5} *15* Mult.: α(K)exp(254.4+254.9)=0.34 *7*.
254.9 *1*	12.0 *18*	513.09	5/2$^-$	258.32	3/2$^-$	M1[b]	0.403	α(K)=0.334 *5*; α(L)=0.0535 *8*; α(M)=0.01227 *18*

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&]	α[†]	Comments
									α(N)=0.00300 *5*; α(O)=0.000518 *8*; α(P)=3.87×10^{-5} *6* Mult.: α(K)exp(254.4+254.9)=0.34 *7*.
267.7 *2*	1.20 *18*	850.20	(3/2,5/2,7/2)$^-$	582.21	(3/2)$^-$	[M1+E2]		0.24 *12*	α(K)=0.19 *11*; α(L)=0.042 *5*; α(M)=0.0101 *7* α(N)=0.00244 *18*; α(O)=0.00040 *6*; α(P)=2.1×10^{-5} *13*
271.3 *1*	15.0 *23*	544.38	5/2$^-$	273.04	5/2$^-$	M1		0.340	α(K)=0.282 *4*; α(L)=0.0451 *7*; α(M)=0.01033 *15* α(N)=0.00252 *4*; α(O)=0.000436 *7*; α(P)=3.26×10^{-5} *5* Mult.: α(K)exp=0.32 *7*.
273.8 *2*	3.6 *5*	669.09	(5/2)$^-$	395.19	1/2$^-$	E2[c]		0.1205	α(K)=0.0747 *11*; α(L)=0.0347 *5*; α(M)=0.00863 *13* α(N)=0.00208 *3*; α(O)=0.000321 *5*; α(P)=7.39×10^{-6} *11* Mult.: α(K)exp<0.14.
276.7[f] *2*	≈1.2[fa]	669.09	(5/2)$^-$	392.48	(7/2)$^-$	[M1+E2]		0.22 *11*	α(K)=0.17 *10*; α(L)=0.038 *5*; α(M)=0.0090 *8* α(N)=0.00219 *20*; α(O)=0.00036 *6*; α(P)=1.9×10^{-5} *12*
276.7[f] *2*	0.8[fa] *4*	763.82	(7/2)$^-$	486.99	7/2$^-$	[M1+E2]		0.22 *11*	α(K)=0.17 *10*; α(L)=0.038 *5*; α(M)=0.0090 *8* α(N)=0.00219 *20*; α(O)=0.00036 *6*; α(P)=1.9×10^{-5} *12*
282.5 *1*	47 *7*	453.05	3/2$^-$	170.70	1/2$^-$	M1(+E2)	0.11 *+52−11*	0.30 *6*	α(K)=0.25 *5*; α(L)=0.040 *3*; α(M)=0.0092 *5* α(N)=0.00225 *12*; α(O)=0.00039 *3*; α(P)=2.9×10^{-5} *6* Mult.: K:L1=11.5 *17*:3.0 *5*; α(K)exp=0.25 *5*.
286.1 *2*	9.8 *15*	544.38	5/2$^-$	258.32	3/2$^-$	M1		0.294	α(K)=0.244 *4*; α(L)=0.0390 *6*; α(M)=0.00893 *13* α(N)=0.00218 *3*; α(O)=0.000377 *6*; α(P)=2.82×10^{-5} *4* Mult.: K:L1=11.5 *17*:3.0 *5*; α(K)exp=0.30 *6*.
309.2 *2*	1.8 *3*	582.21	(3/2)$^-$	273.04	5/2$^-$	M1		0.238	α(K)=0.198 *3*; α(L)=0.0315 *5*; α(M)=0.00722 *11* α(N)=0.001763 *25*; α(O)=0.000305 *5*; α(P)=2.28×10^{-5} *4* Mult.: α(K)exp=0.26 *5*.
314.4 *2*	4.5 *7*	1045.95	(5/2$^+$)	731.58	7/2$^+$	M1+E2	0.5 *+4−5*	0.20 *4*	α(K)=0.16 *4*; α(L)=0.0282 *24*; α(M)=0.0065 *5* α(N)=0.00159 *12*; α(O)=0.000271 *25*; α(P)=1.8×10^{-5} *4* Mult.: α(K)exp=0.16 *3*.
319.1 *2*	6.4 *10*	832.03	(3/2,5/2,7/2)$^-$	513.09	5/2$^-$	M1		0.219	α(K)=0.181 *3*; α(L)=0.0289 *4*; α(M)=0.00662 *10* α(N)=0.001617 *23*; α(O)=0.000280 *4*; α(P)=2.09×10^{-5} *3* Mult.: α(K)exp=0.23 *5*.
323.9 *2*	5.9 *9*	582.21	(3/2)$^-$	258.32	3/2$^-$	M1		0.210	α(K)=0.1742 *25*; α(L)=0.0278 *4*; α(M)=0.00636 *9* α(N)=0.001553 *22*; α(O)=0.000268 *4*; α(P)=2.01×10^{-5} *3* Mult.: α(K)exp=0.22 *5*.
[x]330.7 *2*	1.1 *2*								
332.0 *2*	1.10 *17*	1045.95	(5/2$^+$)	714.01	9/2$^+$	[E2]		0.0679	α(K)=0.0457 *7*; α(L)=0.01691 *24*; α(M)=0.00416 *6* α(N)=0.001004 *15*; α(O)=0.0001571 *23*; α(P)=4.65×10^{-6} *7*
342.4 *1*	21 *3*	513.09	5/2$^-$	170.70	1/2$^-$	E2		0.0622	α(K)=0.0423 *6*; α(L)=0.01514 *22*; α(M)=0.00372 *6* α(N)=0.000898 *13*; α(O)=0.0001408 *20*; α(P)=4.33×10^{-6} *6* α(K)exp=0.036 *7*.
345 *1*	≈1.6[a]	832.03	(3/2,5/2,7/2)$^-$	486.99	7/2$^-$	[M1+E2]		0.12 *6*	α(K)=0.09 *6*; α(L)=0.019 *5*; α(M)=0.0045 *9* α(N)=0.00109 *22*; α(O)=0.00018 *5*; α(P)=1.1×10^{-5} *7*

$^{183}_{76}Os_{107}$-7

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[&]	α[†]	Comments
347.8 *1*	25 *4*	620.78	7/2−	273.04	5/2−	M1+E2	0.9 +*4*−*3*	0.122 *21*	α(K)=0.098 *19*; α(L)=0.0191 *16*; α(M)=0.0045 *4* α(N)=0.00109 *8*; α(O)=0.000182 *17*; α(P)=1.10×10^{-5} *23* Mult.: α(K)exp=0.100 *21*.
356.2[f] *2*	≈0.25[fa]	748.76	(11/2−)	392.48	(7/2)−	(E2)		0.0556	α(K)=0.0383 *6*; α(L)=0.01317 *19*; α(M)=0.00323 *5* α(N)=0.000779 *11*; α(O)=0.0001226 *18*; α(P)=3.94×10^{-6} *6*
356.2[f] *2*	≈1.1[fa]	1252.96	5/2+	896.76	7/2+	M1[b]		0.1628	α(K)=0.1350 *19*; α(L)=0.0215 *3*; α(M)=0.00491 *7* α(N)=0.001200 *17*; α(O)=0.000207 *3*; α(P)=1.553×10^{-5} *22* Mult.: α(K)exp(doublet)=0.046 *10*.
[x]361.7 *2*	1.4 *2*					E2+M1	1.9 +*13*−*5*	0.076 *14*	α(K)=0.057 *12*; α(L)=0.0142 *11*; α(M)=0.00341 *22* α(N)=0.00083 *6*; α(O)=0.000134 *11*; α(P)=6.2×10^{-6} *15* Mult.: α(K)exp=0.057 *12*.
[x]370.4 *2*	0.43 *7*								
[x]371.5 *2*	0.64 *10*								
373.8 *2*	2.0 *3*	544.38	5/2−	170.70	1/2−	E2		0.0486	α(K)=0.0340 *5*; α(L)=0.01113 *16*; α(M)=0.00272 *4* α(N)=0.000657 *10*; α(O)=0.0001038 *15*; α(P)=3.52×10^{-6} *5* Mult.: α(K)exp<0.05. δ(M1,E2)>1 from α(K)exp.
379.0 *2*	1.7 *3*	832.03	(3/2,5/2,7/2)−	453.05	3/2−	E2+M1	1.7 +*11*−*4*	0.070 *14*	α(K)=0.054 *12*; α(L)=0.0125 *11*; α(M)=0.00299 *23* α(N)=0.00073 *6*; α(O)=0.000119 *12*; α(P)=5.9×10^{-6} *14* Mult.: α(K)exp≈0.053 *11*.
392.5 *1*	100 *15*	392.48	(7/2)−	0.0	9/2+	E1		0.01307	α(K)=0.01090 *16*; α(L)=0.001679 *24*; α(M)=0.000383 *6* α(N)=9.27×10^{-5} *13*; α(O)=1.568×10^{-5} *22*; α(P)=1.049×10^{-6} *15* %Iγ=9.8 *19* assuming adopted decay scheme normalization. Mult.: α(K)exp=0.013 *3*.
396.1 *2*	2.0 *3*	669.09	(5/2)−	273.04	5/2−	M1		0.1226	α(K)=0.1017 *15*; α(L)=0.01612 *23*; α(M)=0.00369 *6* α(N)=0.000901 *13*; α(O)=0.0001558 *22*; α(P)=1.168×10^{-5} *17* Mult.: α(K)exp=0.125 *26*.
[x]409.1 *2*	0.47 *7*								
410.7 *2*	5.8 *9*	669.09	(5/2)−	258.32	3/2−	[M1+E2]		0.07 *4*	α(K)=0.06 *4*; α(L)=0.011 *4*; α(M)=0.0027 *7* α(N)=0.00065 *18*; α(O)=0.00011 *4*; α(P)=7.E−6 *4* α(K)exp=0.036 *7* for doublet.
411.5 *1*	11.0 *17*	582.21	(3/2)−	170.70	1/2−	E2(+M1)[b]		0.07 *4*	α(K)=0.06 *4*; α(L)=0.011 *4*; α(M)=0.0026 *7* α(N)=0.00064 *17*; α(O)=0.00011 *4*; α(P)=7.E−6 *4* Mult.: α(K)exp(410.7+411.5)=0.026 *7*.
[x]417.1 *2*	0.85 *13*								
[x]434.1 *2*	0.37 *6*								

$^{183}_{76}$Os$_{107}$-8

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[&]	α[†]	Comments
[x]436.9 2	0.76 11								
[x]442.1 2	0.52 8								
[x]443.8 2	0.48 7								
[x]450.6 2	1.7 3					M1(+E2)	0.4 4	0.079 15	α(K)=0.065 13; α(L)=0.0107 14; α(M)=0.0025 3 α(N)=0.00060 8; α(O)=0.000103 14; α(P)=7.5×10^{-6} 16 Mult.: α(K)exp=0.065 14.
457.9[f] 2	≈3.8[fa]	850.20	(3/2,5/2,7/2)$^-$	392.48	(7/2)$^-$	(E2)[b]		0.0284	α(K)=0.0210 3; α(L)=0.00569 8; α(M)=0.001372 20 α(N)=0.000332 5; α(O)=5.33×10^{-5} 8; α(P)=2.21×10^{-6} 4 Mult.: α(K)exp(doublet)=0.029 6; this is the dominant placement.
457.9[f] 2	≈1.4[fa]	944.31	(3/2,5/2)$^-$	486.99	7/2$^-$	[M1+E2]		0.06 3	α(K)=0.045 25; α(L)=0.008 3; α(M)=0.0019 6 α(N)=0.00047 14; α(O)=8.E−5 3; α(P)=5.E−6 3
461.9 2	4.0 6	558.15	(9/2)$^-$	96.23	11/2$^+$	E1		0.00910	α(K)=0.00761 11; α(L)=0.001156 17; α(M)=0.000263 4 α(N)=6.38×10^{-5} 9; α(O)=1.083×10^{-5} 16; α(P)=7.40×10^{-7} 11 Mult.: α(K)exp=0.0075 16.
[x]464.9 2	0.71 11								
[x]470.5 2	0.60 9								
490.7 2	3.5 5	763.82	(7/2)$^-$	273.04	5/2$^-$	E2(+M1)	>2	0.028 5	α(K)=0.022 4; α(L)=0.0050 5; α(M)=0.00120 10 α(N)=0.000291 25; α(O)=4.8×10^{-5} 5; α(P)=2.4×10^{-6} 5 Mult.: α(K)exp=0.020 4.
494.9 2	3.2 5	1295.46	(5/2,7/2)$^+$	800.56	(5/2)$^+$	E2+M1	1.7 +11−5	0.035 7	α(K)=0.028 6; α(L)=0.0056 7; α(M)=0.00132 15 α(N)=0.00032 4; α(O)=5.3×10^{-5} 7; α(P)=3.0×10^{-6} 7 Mult.: α(K)exp=0.028 6.
498.5 1	12.0 18	669.09	(5/2)$^-$	170.70	1/2$^-$	E2		0.0230	α(K)=0.01724 25; α(L)=0.00437 7; α(M)=0.001048 15 α(N)=0.000254 4; α(O)=4.10×10^{-5} 6; α(P)=1.83×10^{-6} 3 Mult.: α(K)exp=0.017 4.
[x]501.7 2	0.45 7								
505.1 2	1.40 21	1236.76	(7/2)$^+$	731.58	7/2$^+$	M1+E2	1.0 +5−3	0.043 9	α(K)=0.035 8; α(L)=0.0063 9; α(M)=0.00147 18 α(N)=0.00036 5; α(O)=6.0×10^{-5} 9; α(P)=4.0×10^{-6} 9 Mult.: α(K)exp=0.036 7.
512.5 2	23 3	512.54	7/2$^-$	0.0	9/2$^+$	E1		0.00727	α(K)=0.00609 9; α(L)=0.000918 13; α(M)=0.000209 3 α(N)=5.06×10^{-5} 8; α(O)=8.61×10^{-6} 12; α(P)=5.96×10^{-7} 9 Mult.: α(K)exp=0.0078 16.
[x]519.5 2	0.66 10								
521.3 2	4.0 6	1252.96	5/2$^+$	731.58	7/2$^+$	(M1)[b]		0.0595	α(K)=0.0494 7; α(L)=0.00776 11; α(M)=0.001775 25 α(N)=0.000433 6; α(O)=7.50×10^{-5} 11; α(P)=5.64×10^{-6} 8 Mult.: α(K)exp(521.3+522.8)=0.096 10.
522.8 2	3.4 5	1236.76	(7/2)$^+$	714.01	9/2$^+$	(M1)[b]		0.0590	α(K)=0.0490 7; α(L)=0.00770 11; α(M)=0.001762 25 α(N)=0.000430 6; α(O)=7.44×10^{-5} 11; α(P)=5.60×10^{-6} 8 Mult.: α(K)exp(521.3+522.8)=0.096 10.

From ENSDF

γ(^{183}Os) (continued)

Eγ‡	Iγ#e	Ei(level)	J_i^π	Ef	J_f^π	Mult.@	δ&	α†	Comments
544.6 2	0.88 13	1054.34	(5/2,7/2,9/2)⁻	509.88	9/2⁻				
551.5 2	0.85 13	944.31	(3/2,5/2)⁻	392.48	(7/2)⁻				
552.2 2	1.20 18	1039.19	(5/2,7/2,9/2)⁻	486.99	7/2⁻	M1		0.0512	α(K)=0.0425 6; α(L)=0.00667 10; α(M)=0.001525 22 α(N)=0.000372 6; α(O)=6.44×10^{-5} 9; α(P)=4.85×10^{-6} 7 Mult.: α(K)exp=0.058 12.
558.4g 2	3.0 5	558.15	(9/2)⁻	0.0	9/2⁺	E1		0.00607	α(K)=0.00508 8; α(L)=0.000762 11; α(M)=0.0001731 25 α(N)=4.20×10^{-5} 6; α(O)=7.16×10^{-6} 10; α(P)=5.00×10^{-7} 7 Mult.: α(K)exp<0.013 3.
x559.3 2	0.93 14								
567.2 2	1.80 27	1054.34	(5/2,7/2,9/2)⁻	486.99	7/2⁻	M1		0.0477	α(K)=0.0397 6; α(L)=0.00622 9; α(M)=0.001422 20 α(N)=0.000347 5; α(O)=6.00×10^{-5} 9; α(P)=4.52×10^{-6} 7 Mult.: α(K)exp=0.050 11.
573.8 2	5.2 8	832.03	(3/2,5/2,7/2)⁻	258.32	3/2⁻	(E2)		0.01637	α(K)=0.01260 18; α(L)=0.00288 4; α(M)=0.000686 10 α(N)=0.0001663 24; α(O)=2.72×10^{-5} 4; α(P)=1.346×10^{-6} 19 Mult.: α(K)exp=0.0077 16.
581.4g 2	0.58 9	1295.46	(5/2,7/2)⁺	714.01	9/2⁺				
x585.3 2	2.0 3					E2+M1	1.4 +8−4	0.025 5	α(K)=0.020 4; α(L)=0.0037 5; α(M)=0.00087 11 α(N)=0.00021 3; α(O)=3.6×10^{-5} 5; α(P)=2.3×10^{-6} 5 Mult.: α(K)exp=0.020 4.
592.0 2	3.5 5	850.20	(3/2,5/2,7/2)⁻	258.32	3/2⁻	E2(+M1)	1.9 +24−6	0.021 5	α(K)=0.017 4; α(L)=0.0033 5; α(M)=0.00077 11 α(N)=0.00019 3; α(O)=3.1×10^{-5} 5; α(P)=1.9×10^{-6} 5 Mult.: α(K)exp=0.017 4.
617.7 2	18.0 27	714.01	9/2⁺	96.23	11/2⁺	M1(+E2)	0.4 +5−4	0.035 8	α(K)=0.029 7; α(L)=0.0046 9; α(M)=0.00106 18 α(N)=0.00026 5; α(O)=4.4×10^{-5} 8; α(P)=3.3×10^{-6} 8 Mult.: α(K)exp=0.029 6.
x620.2 2	1.8 3								
x622.8 2	2.1 3					E2+M1	2.2 +45−8	0.018 4	α(K)=0.014 4; α(L)=0.0027 5; α(M)=0.00064 10 α(N)=0.000156 24; α(O)=2.6×10^{-5} 5; α(P)=1.5×10^{-6} 4 Mult.: α(K)exp=0.014 3.
635.2 2	2.2 3	731.58	7/2⁺	96.23	11/2⁺	[E2]		0.01295	α(K)=0.01012 15; α(L)=0.00217 3; α(M)=0.000513 8 α(N)=0.0001246 18; α(O)=2.05×10^{-5} 3; α(P)=1.084×10^{-6} 16
x637.2 2	3.7 6								
x639.0 2	0.79 12								
655.4 2	14.0 21	655.32	(7/2)⁻	0.0	9/2⁺	E1		0.00437	α(K)=0.00367 6; α(L)=0.000544 8; α(M)=0.0001233 18 α(N)=3.00×10^{-5} 5; α(O)=5.12×10^{-6} 8; α(P)=3.64×10^{-7} 5 Mult.: α(K)exp=0.0043 9.
x661.6 2	0.96 14								
x663.8 2	0.89 13								
671.2 2	6.7 10	944.31	(3/2,5/2)⁻	273.04	5/2⁻	E2+M1	1.2 +6−4	0.019 4	α(K)=0.016 4; α(L)=0.0027 5; α(M)=0.00064 10 α(N)=0.000155 24; α(O)=2.6×10^{-5} 5; α(P)=1.8×10^{-6} 4 Mult.: α(K)exp=0.016 3.
x678.3 2	2.6 4								
x679.9 2	4.3 7								

γ(^{183}Os) (continued)

Eγ‡	Iγ#e	Ei(level)	J^π_i	Ef	J^π_f	Mult.@	δ&	α†	I(γ+ce)e	Comments
682.5 2	1.9 3	1977.95	(3/2)+	1295.46	(5/2,7/2)+	M1		0.0296		α(K)=0.0247 4; α(L)=0.00384 6; α(M)=0.000877 13 α(N)=0.000214 3; α(O)=3.71×10^{-5} 6; α(P)=2.80×10^{-6} 4 Mult.: α(K)exp=0.026 6.
685.8 2	2.5 4	944.31	(3/2,5/2)−	258.32	3/2−					
x686.5 2	2.0 3									
691.9 2	6.5 10	964.83	(3/2,5/2)−	273.04	5/2−	E2+M1	1.2 +7−4	0.018 4		α(K)=0.015 3; α(L)=0.0025 4; α(M)=0.00059 9 α(N)=0.000143 22; α(O)=2.4×10^{-5} 4; α(P)=1.6×10^{-6} 4 Mult.: α(K)exp=0.015 3.
696.9 2	4.6 7	792.93	(11/2)+	96.23	11/2+	E2		0.01054		α(K)=0.00833 12; α(L)=0.001694 24; α(M)=0.000399 6 α(N)=9.68×10^{-5} 14; α(O)=1.603×10^{-5} 23; α(P)=8.94×10^{-7} 13 Mult.: α(K)exp=0.0065 14.
706.4 2	2.3 3	964.83	(3/2,5/2)−	258.32	3/2−	M1		0.0271		α(K)=0.0226 4; α(L)=0.00351 5; α(M)=0.000802 12 α(N)=0.000196 3; α(O)=3.39×10^{-5} 5; α(P)=2.56×10^{-6} 4 Mult.: α(K)exp=0.026 5.
714.1 2	6.1 9	714.01	9/2+	0.0	9/2+	E2+M1	1.0 +6−4	0.018 4		α(K)=0.015 4; α(L)=0.0025 5; α(M)=0.00058 10 α(N)=0.000141 24; α(O)=2.4×10^{-5} 5; α(P)=1.7×10^{-6} 4 Mult.: α(K)exp=0.015 3.
x718.7 2	2.1 3					E2+M1	1.1 +7−4	0.017 4		α(K)=0.014 3; α(L)=0.0024 4; α(M)=0.00055 9 α(N)=0.000134 22; α(O)=2.3×10^{-5} 4; α(P)=1.6×10^{-6} 4 Mult.: α(K)exp=0.014 3.
724.9 2	8.5 13	1977.95	(3/2)+	1252.96	5/2+	M1+E2	0.8 +5−4	0.019 4		α(K)=0.016 4; α(L)=0.0026 5; α(M)=0.00060 10 α(N)=0.000146 25; α(O)=2.5×10^{-5} 5; α(P)=1.8×10^{-6} 4 Mult.: α(K)exp=0.016 3.
727.9 2	1.40 21	1180.87	(3/2,5/2)−	453.05	3/2−					
731.6 2	28 4	731.58	7/2+	0.0	9/2+	E2+M1	1.0 +7−4	0.017 4		α(K)=0.014 4; α(L)=0.0024 5; α(M)=0.00054 10 α(N)=0.000132 23; α(O)=2.3×10^{-5} 4; α(P)=1.6×10^{-6} 4 Mult.: α(K)exp=0.014 3.
x747.3 2	1.4 2									
748.9g 2	0.36 5	748.76	(11/2−)	0.0	9/2+	[E1]		0.00336		α(K)=0.00282 4; α(L)=0.000414 6; α(M)=9.39×10^{-5} 14

$^{183}_{76}$Os$_{107}$-11

E_γ [‡]	I_γ [#e]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [&]	α [†]	Comments
									α(N)=2.28×10^{-5} *4*; α(O)=3.91×10^{-6} *6*; α(P)=2.81×10^{-7} *4*
^{x}753.1 *2*	1.4 *2*								
^{x}754.2 *2*	0.79 *12*								
^{x}757.8 *2*	0.73 *11*								
^{x}759.9 *2*	1.3 *2*								
766.1[g] *2*	1.8 *3*	1039.19	(5/2,7/2,9/2)$^-$	273.04	5/2$^-$	[d]			Mult.: α(K)exp=0.111 *23*.
^{x}769.0 *2*	0.73 *11*								
773.8[g] *2*	1.60 *24*	944.31	(3/2,5/2)$^-$	170.70	1/2$^-$				
781.3 *2*	13.0 *20*	1054.34	(5/2,7/2,9/2)$^-$	273.04	5/2$^-$	E2(+M1)	≥1.7	0.0099 *17*	α(K)=0.0080 *14*; α(L)=0.00145 *19*; α(M)=0.00034 *5* α(N)=8.2×10^{-5} *11*; α(O)=1.38×10^{-5} *19*; α(P)=8.7×10^{-7} *17* Mult.: α(K)exp=0.0077 *16*.
785.6 *2*	2.0 *3*	1180.87	(3/2,5/2)$^-$	395.19	1/2$^-$	E2		0.00814	α(K)=0.00652 *10*; α(L)=0.001248 *18*; α(M)=0.000292 *4* α(N)=7.09×10^{-5} *10*; α(O)=1.183×10^{-5} *17*; α(P)=7.00×10^{-7} *10* Mult.: α(K)exp=0.0050 *11*.
^{x}790.8 *2*	1.1 *2*								
792.6[g] *2*	2.8 *4*	792.93	(11/2)$^+$	0.0	9/2$^+$				
794.2 *2*	1.5 *14*	964.83	(3/2,5/2)$^-$	170.70	1/2$^-$				
800.3 *2*	27 *4*	800.56	(5/2)$^+$	0.0	9/2$^+$	E2		0.00783	α(K)=0.00628 *9*; α(L)=0.001192 *17*; α(M)=0.000279 *4* α(N)=6.77×10^{-5} *10*; α(O)=1.131×10^{-5} *16*; α(P)=6.74×10^{-7} *10* Mult.: α(K)exp=0.0048 *10*.
^{x}806.3 *2*	3.7 *6*					E2(+M1)	2.0 *+47−7*	0.0100 *21*	α(K)=0.0082 *18*; α(L)=0.00144 *24*; α(M)=0.00033 *6* α(N)=8.1×10^{-5} *13*; α(O)=1.37×10^{-5} *24*; α(P)=9.0×10^{-7} *21* Mult.: α(K)exp=0.0081 *17*.
^{x}818.4 *2*	1.5 *2*					M1(+E2)	0.6 *6*	0.016 *4*	α(K)=0.013 *4*; α(L)=0.0021 *5*; α(M)=0.00047 *10* α(N)=0.000115 *23*; α(O)=2.0×10^{-5} *4*; α(P)=1.5×10^{-6} *4* Mult.: α(K)exp=0.013 *3*.
^{x}835.0 *2*	1.7 *3*								
^{x}837.0 *2*	1.1 *2*								
^{x}838.8 *2*	2.4 *4*								
^{x}853.8 *2*	3.1 *5*					E2(+M1)	≥1.6	0.0082 *14*	α(K)=0.0067 *12*; α(L)=0.00118 *16*; α(M)=0.00027 *4* α(N)=6.6×10^{-5} *9*; α(O)=1.12×10^{-5} *16*; α(P)=7.3×10^{-7} *14* Mult.: α(K)exp=0.0065 *14*.
^{x}868.9 *2*	3.5 *5*					M1+E2+E0[d]		0.011 *5*	α(K)=0.009 *4*; α(L)=0.0015 *6*; α(M)=0.00035 *13*

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&]	α[†]	$I_{(\gamma+ce)}$[e]	Comments
										α(N)=9.E−5 *3*; α(O)=1.5×10^{-5} *6*; α(P)=1.0×10^{-6} *5* Mult.: α(K)exp=0.029 *6*.
^{x}889.1 *2*	1.6 *2*									
^{x}892.0 *2*	2.8 *4*					M1		0.01499		α(K)=0.01250 *18*; α(L)=0.00193 *3*; α(M)=0.000440 *7* α(N)=0.0001074 *15*; α(O)=1.86×10^{-5} *3*; α(P)=1.411×10^{-6} *20* Mult.: α(K)exp=0.014 *3*.
896.8 *2*	15.0 *23*	896.76	7/2$^+$	0.0	9/2$^+$	M1+E2	1.5 *+14−5*	0.0088 *18*		α(K)=0.0073 *15*; α(L)=0.00121 *21*; α(M)=0.00028 *5* α(N)=6.8×10^{-5} *11*; α(O)=1.16×10^{-5} *20*; α(P)=8.0×10^{-7} *18* Mult.: α(K)exp=0.0073 *15*.
^{x}899.5 *2*	1.2 *2*									
^{x}901.8 *2*	1.1 *2*									
^{x}906.7 *2*	1.9 *3*									
^{x}911.9 *2*	1.1 *2*									
^{x}917.1 *2*	1.7 *3*									
931.9 *2*	6.0 *9*	1977.95	(3/2)$^+$	1045.95	(5/2$^+$)	M1+E2	1.5 *+15−5*	0.0081 *16*		α(K)=0.0067 *14*; α(L)=0.00110 *19*; α(M)=0.00025 *5* α(N)=6.2×10^{-5} *11*; α(O)=1.06×10^{-5} *19*; α(P)=7.3×10^{-7} *16* Mult.: α(K)exp=0.0067 *14*.
^{x}936.6 *2*	1.0 *2*									
^{x}940.9 *2*	0.96 *14*									
^{x}942.0 *2*	2.3 *3*									
^{x}948.5 *2*	2.3 *3*									
^{x}950.1 *2*	1.7 *3*									
^{x}955.7 *2*	3.4 *5*					E2+M1	1.8 *+28−6*	0.0071 *14*		α(K)=0.0059 *12*; α(L)=0.00098 *16*; α(M)=0.00023 *4* α(N)=5.5×10^{-5} *9*; α(O)=9.4×10^{-6} *16*; α(P)=6.4×10^{-7} *14* Mult.: α(K)exp=0.0059 *12*.
^{x}961.2 *2*	1.9 *3*									
^{x}971.0 *2*	1.2 *2*									
^{x}978.3 *2*	1.4 *2*									
^{x}1008.2 *3*	2.6 *4*									
^{x}1024.1 *3*	3.9 *6*									
^{x}1029.5 *3*	2.3 *3*									
^{x}1032.9 *3*	3.7 *6*									
^{x}1037.2 *3*	1.8 *3*					M1		0.01026		α(K)=0.00856 *12*; α(L)=0.001314 *19*; α(M)=0.000300 *5* α(N)=7.32×10^{-5} *11*; α(O)=1.268×10^{-5} *18*; α(P)=9.64×10^{-7} *14* Mult.: α(K)exp=0.0111 *23*.
^{x}1039.7 *3*	1.4 *2*									

$^{183}_{76}$Os$_{107}$-13

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&]	α[†]	Comments
1045.9 *3*	10.0 *15*	1045.95	(5/2$^+$)	0.0	9/2$^+$	(E2)		0.00454	α(K)=0.00372 *6*; α(L)=0.000637 *9*; α(M)=0.0001472 *21* α(N)=3.58×10^{-5} *5*; α(O)=6.06×10^{-6} *9*; α(P)=3.98×10^{-7} *6* Mult.: α(K)exp=0.0020 *4*.
[x]1057.8 *3*	1.2 *2*								
1059.7 *3*	2.7 *4*	1332.58	(1/2,3/2,5/2)$^-$	273.04	5/2$^-$				
1063.2 *3*	9.5 *14*	2300.03	(5/2)$^-$	1236.76	(7/2)$^+$	E1		1.74×10^{-3}	α(K)=0.001468 *21*; α(L)=0.000211 *3*; α(M)=4.78×10^{-5} *7* α(N)=1.161×10^{-5} *17*; α(O)=2.00×10^{-6} *3*; α(P)=1.480×10^{-7} *21* Mult.: α(K)exp<0.0021 *4*.
1074.1 *3*	5.1 *8*	1332.58	(1/2,3/2,5/2)$^-$	258.32	3/2$^-$	M1+E2	0.9 *+7−5*	0.0071 *16*	α(K)=0.0059 *14*; α(L)=0.00093 *19*; α(M)=0.00021 *5* α(N)=5.2×10^{-5} *11*; α(O)=9.0×10^{-6} *19*; α(P)=6.6×10^{-7} *16* Mult.: α(K)exp=0.0059 *12*.
[x]1093.7 *3*	1.2 *2*								
[x]1096.0 *3*	3.3 *5*								
[x]1112.7 *3*	1.7 *3*								
[x]1129.3 *3*	2.1 *3*					(M1)[b]		0.00829	α(K)=0.00692 *10*; α(L)=0.001060 *15*; α(M)=0.000242 *4* α(N)=5.90×10^{-5} *9*; α(O)=1.022×10^{-5} *15*; α(P)=7.78×10^{-7} *11*; α(IPF)=9.00×10^{-7} *16* Mult.: α(K)exp(1129.3+1131.5)=0.0098 *20*.
[x]1131.5 *3*	2.0 *3*					(M1)[b]		0.00825	α(K)=0.00689 *10*; α(L)=0.001055 *15*; α(M)=0.000240 *4* α(N)=5.87×10^{-5} *9*; α(O)=1.017×10^{-5} *15*; α(P)=7.74×10^{-7} *11*; α(IPF)=9.74×10^{-7} *18* Mult.: α(K)exp(1129.3+1131.5)=0.0098 *20*.
1140.2 *3*	1.7 *16*	1236.76	(7/2)$^+$	96.23	11/2$^+$				
[x]1177.4 *3*	2.5 *4*								
[x]1254.2 *3*	3.0 *5*								
[x]1260.7 *3*	3.1 *5*								
[x]1291.1 *3*	1.6 *2*								
[x]1308.4 *3*	2.0 *3*								
[x]1310.9 *3*	2.4 *4*								
[x]1354.1 *3*	2.0 *3*								
1377.0 *3*	1.00 *15*	2273.79	(7/2)$^-$	896.76	7/2$^+$				
1399.1 *3*	4.6 *7*	1911.52	(3/2$^-$,5/2,7/2$^-$)	512.54	7/2$^-$				
1403.4 *3*	2.0 *3*	2300.03	(5/2)$^-$	896.76	7/2$^+$				

$^{183}_{76}$Os$_{107}$-14

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[†]	Comments
1404.4 *3*	1.50 *23*	2254.58	$3/2^{(-)},5/2,7/2^{(-)}$	850.20	$(3/2,5/2,7/2)^-$			
[x]1419.7 *3*	2.0 *3*							
[x]1422.5 *3*	1.6 *2*							
1424.1 *3*	1.30 *20*	1911.52	$(3/2^-,5/2,7/2^-)$	486.99	$7/2^-$			
1441.7 *3*	3.0 *5*	2273.79	$(7/2)^-$	832.03	$(3/2,5/2,7/2)^-$			
1455.0 *3*	1.00 *15*	2219.11	$(5/2^-,7/2)$	763.82	$(7/2)^-$			
1458.8 *3*	1.75 *11*	1911.52	$(3/2^-,5/2,7/2^-)$	453.05	$3/2^-$			
1468.0 *3*	5.4 *8*	1921.03	$1/2,3/2,5/2^-$	453.05	$3/2^-$			
1473.7 *3*	1.70 *26*	2273.79	$(7/2)^-$	800.56	$(5/2)^+$			
[x]1478.8 *3*	3.8 *6*							
1494.3 *3*	1.60 *24*	2258.31	(7/2)	763.82	$(7/2)^-$			
1498.8 *3*	2.1 *3*	2300.03	$(5/2)^-$	800.56	$(5/2)^+$			
[x]1500.8 *3*	2.1 *3*							
1509.8 *3*	4.5 *7*	2273.79	$(7/2)^-$	763.82	$(7/2)^-$			
1517.5 *3*	1.60 *24*	2249.34	$(5/2^+,7/2)$	731.58	$7/2^+$			
1519.0 *3*	1.70 *26*	1911.52	$(3/2^-,5/2,7/2^-)$	392.48	$(7/2)^-$			
[x]1523.7 *3*	1.6 *2*							
1525.8 *3*	0.85 *13*	1921.03	$1/2,3/2,5/2^-$	395.19	$1/2^-$			
[x]1532.1 *3*	1.8 *3*							
1542.4 *3*	1.40 *21*	2273.79	$(7/2)^-$	731.58	$7/2^+$			
1544.4 *3*	2.3 *3*	2258.31	(7/2)	714.01	$9/2^+$			
1559.5 *3*	11.0 *17*	2273.79	$(7/2)^-$	714.01	$9/2^+$			
1568.5 *3*	4.8 *7*	2300.03	$(5/2)^-$	731.58	$7/2^+$			
[x]1598.7 *3*	2.3 *3*							
1604.5 *3*	2.4 *4*	2273.79	$(7/2)^-$	669.09	$(5/2)^-$			
1618.9 *3*	2.9 *4*	2273.79	$(7/2)^-$	655.32	$(7/2)^-$			
1630.8[f] *3*	≈3.0[fa]	2083.43	$(1/2,3/2,5/2^-)$	453.05	$3/2^-$	[d]		Mult.: α(K)exp(doublet)=0.0025 *5* for doublet which primarily deexcites the 2300 level.
1630.8[f] *3*	≈17[fa]	2300.03	$(5/2)^-$	669.09	$(5/2)^-$	(E2)	0.00206	α(K)=0.001625 *23*; α(L)=0.000251 *4*; α(M)=5.74×10^{-5} *8* α(N)=1.398×10^{-5} *20*; α(O)=2.40×10^{-6} *4*; α(P)=1.730×10^{-7} *25*; α(IPF)=0.0001134 *16* Mult.: α(K)exp=0.0025 *5* for doublet for which this is dominant placement.
1638.0 *3*	1.40 *21*	2258.31	(7/2)	620.78	$7/2^-$			
1644.8 *3*	2.0 *3*	2300.03	$(5/2)^-$	655.32	$(7/2)^-$			
1652.8 *3*	15.0 *23*	2273.79	$(7/2)^-$	620.78	$7/2^-$	E2	0.00202	α(K)=0.001586 *23*; α(L)=0.000245 *4*; α(M)=5.59×10^{-5} *8* α(N)=1.361×10^{-5} *19*; α(O)=2.34×10^{-6} *4*; α(P)=1.688×10^{-7} *24*; α(IPF)=0.0001219 *18* Mult.: α(K)exp=0.0013 *3*.
[x]1673.4 *3*	2.9 *4*							
[x]1678.2 *3*	2.6 *4*							
1687.8 *3*	2.4 *4*	2083.43	$(1/2,3/2,5/2^-)$	395.19	$1/2^-$			
[x]1691.9 *3*	2.1 *3*							

γ(^{183}Os) (continued)

E_γ[‡]	I_γ[#e]	E_i(level)	J^π_i	E_f	J^π_f	Comments
1700.0 3	5.7 9	2258.31	(7/2)	558.15	(9/2)$^-$	
1705.3 3	4.7 7	1977.95	(3/2)$^+$	273.04	5/2$^-$	
1709.5 3	1.30 20	2219.11	(5/2$^-$,7/2)	509.88	9/2$^-$	
1717.8 3	4.2 6	2300.03	(5/2)$^-$	582.21	(3/2)$^-$	
1728.6 3	2.5 4	2310.49	3/2,5/2,7/2$^{(-)}$	582.21	(3/2)$^-$	
[x]1730.5 3	3.8 6					
[x]1745.2 3	3.4 5					
1747.9 3	1.30 20	2258.31	(7/2)	509.88	9/2$^-$	
1755.3 3	11.0 17	2300.03	(5/2)$^-$	544.38	5/2$^-$	
1760.3 3	8.9 13	2273.79	(7/2)$^-$	513.09	5/2$^-$	
1763.6 3	2.3 3	2273.79	(7/2)$^-$	509.88	9/2$^-$	
1787.0 3	10.0 15	2300.03	(5/2)$^-$	513.09	5/2$^-$	
1797.1 3	2.2 3	2511.21	(5/2$^+$,7/2)	714.01	9/2$^+$	
1801.3 3	2.6 4	2254.58	3/2$^{(-)}$,5/2,7/2$^{(-)}$	453.05	3/2$^-$	
1806.9 3	1.5 14	1977.95	(3/2)$^+$	170.70	1/2$^-$	
1812.8 3	3.4 5	2300.03	(5/2)$^-$	486.99	7/2$^-$	
[x]1815.4 3	2.2 3					
1820.9 3	2.7 4	2273.79	(7/2)$^-$	453.05	3/2$^-$	
1848.0 3	2.5 4	2300.03	(5/2)$^-$	453.05	3/2$^-$	E_γ: reported as 1848 keV. Missing precision assumed by the evaluator.
1857.1[f] 3	3.5[fa] 5	2249.34	(5/2$^+$,7/2)	392.48	(7/2)$^-$	
1857.1[f] 3	3.0[fa] 5	2310.49	3/2,5/2,7/2$^{(-)}$	453.05	3/2$^-$	
1862.3 3	4.5 7	2254.58	3/2$^{(-)}$,5/2,7/2$^{(-)}$	392.48	(7/2)$^-$	
1866.1 3	2.6 4	2258.31	(7/2)	392.48	(7/2)$^-$	
[x]1875.4 3	2.5 4					
1881.8 3	1.50 23	2273.79	(7/2)$^-$	392.48	(7/2)$^-$	
1890.5 3	2.5 4	2511.21	(5/2$^+$,7/2)	620.78	7/2$^-$	
1904.7 3	3.5 5	2300.03	(5/2)$^-$	395.19	1/2$^-$	
1907.7 3	11.0 17	2300.03	(5/2)$^-$	392.48	(7/2)$^-$	
[x]1959.6 3	3.3 5					
[x]1976.7 3	7.9 12					
[x]1985.4 3	2.4 4					
[x]1994.0 3	1.9 3					
2000.6 3	18 3	2273.79	(7/2)$^-$	273.04	5/2$^-$	
[x]2015.6 3	8.7 13					
[x]2035.7 3	2.2 3					
[x]2041.9 3	5.2 8					
[x]2192.0 3	2.7 4					
[x]2223.5 3	3.7 6					
2249.8[g] 3	0.82 12	2249.34	(5/2$^+$,7/2)	0.0	9/2$^+$	
2258.7[g] 3	3.8 6	2258.31	(7/2)	0.0	9/2$^+$	
2273.6[g] 3	3.1 5	2273.79	(7/2)$^-$	0.0	9/2$^+$	

$^{183}_{76}$Os$_{107}$-16

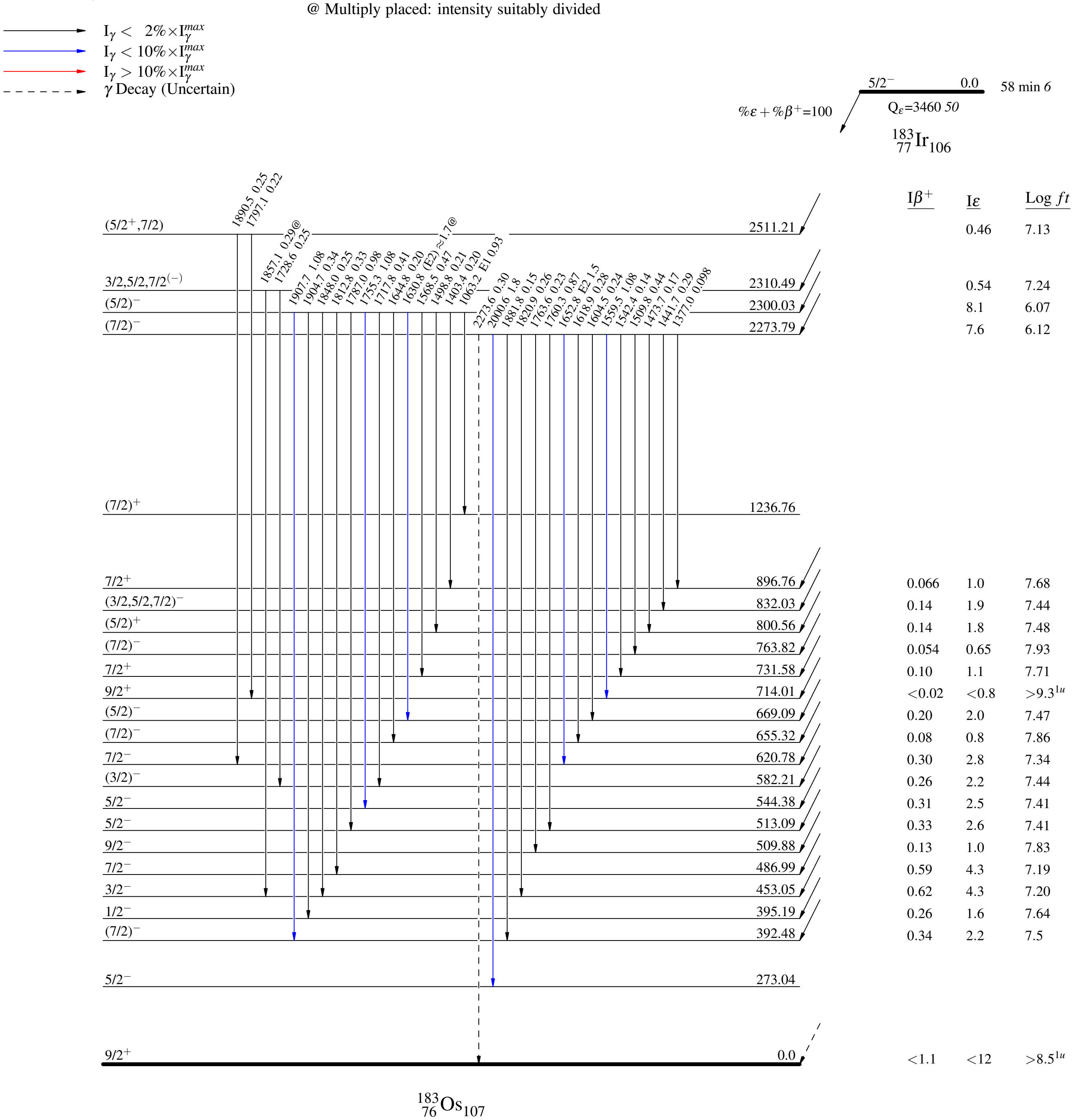
γ(^{183}Os) (continued)

† Additional information 1.
‡ From 1988Ro13; uncertainty is 0.1 keV for Eγ<500 and Iγ>100, 0.3 keV for Eγ>1000 and 0.2 keV otherwise.
# 15% uncertainty estimated by authors, except where noted.
@ From I(ce) and Iγ, normalized by authors assuming E2 theory value for 102.2γ consistent with experimental L1:L2:L3 subshell ratios. The authors estimate approximately 15% uncertainty in I(ce), resulting In≈21% uncertainty In the calculated conversion coefficients.
& From measured ce data, except As noted.
[a] From authors′ coincidence analysis; assumed by the evaluator to be approximate.
[b] α(K)exp for doublet requires both components to have the admixture indicated.
[c] Possible E1 assignment ruled out by level parities.
[d] Conversion coefficient too large for E1,E2 or M1; possible E0 admixture.
[e] For absolute intensity per 100 decays, multiply by 0.098 *11*.
[f] Multiply placed with intensity suitably divided.
[g] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

^{183}Ir ε decay 1988Ro13

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
@ Multiply placed: intensity suitably divided



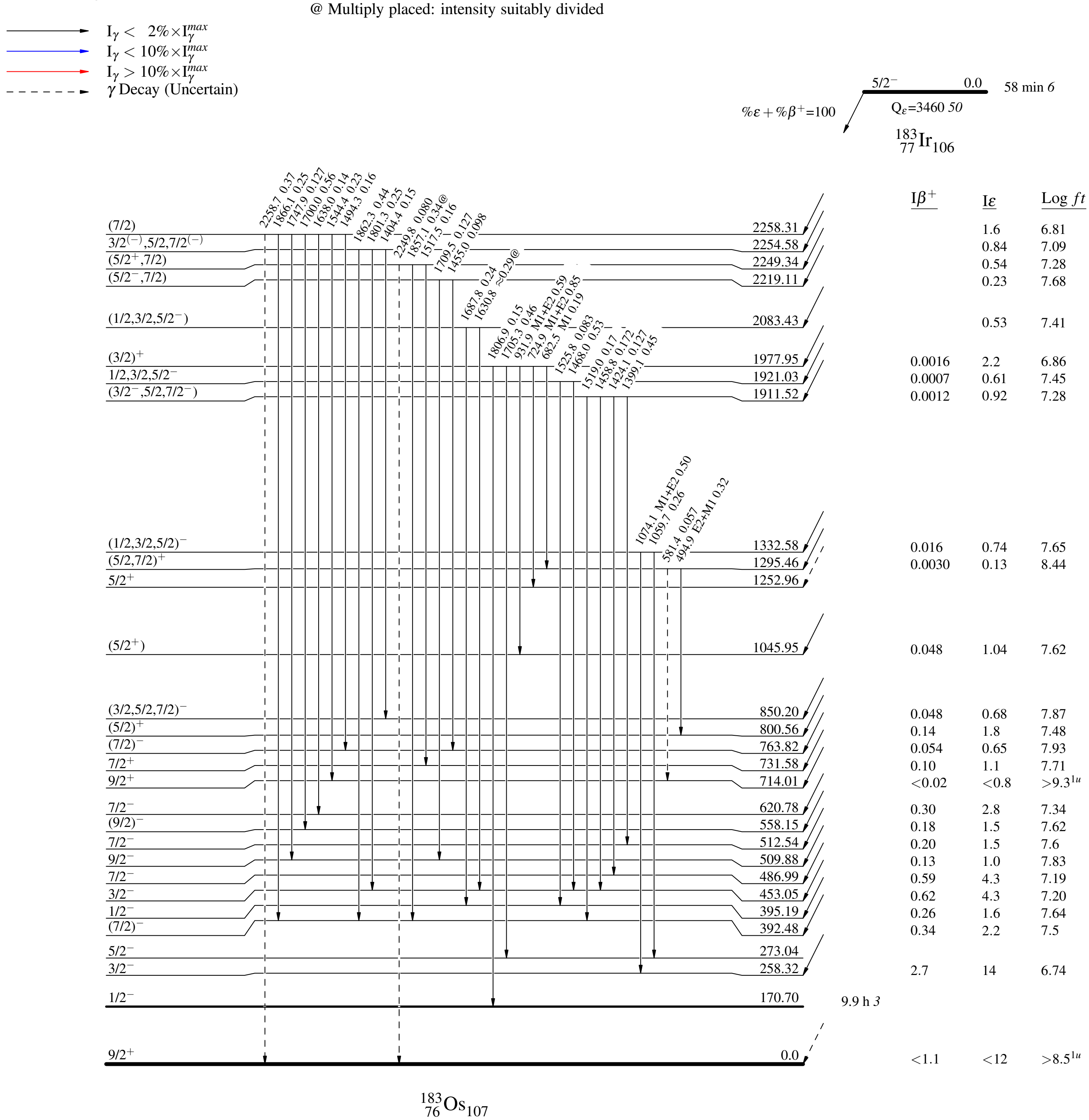
		Iβ⁺	Iε	Log ft
(5/2⁺,7/2)	2511.21		0.46	7.13
3/2,5/2,7/2⁽⁻⁾	2310.49		0.54	7.24
(5/2)⁻	2300.03		8.1	6.07
(7/2)⁻	2273.79		7.6	6.12
(7/2)⁺	1236.76			
7/2⁺	896.76	0.066	1.0	7.68
(3/2,5/2,7/2)⁻	832.03	0.14	1.9	7.44
(5/2)⁺	800.56	0.14	1.8	7.48
(7/2)⁻	763.82	0.054	0.65	7.93
7/2⁺	731.58	0.10	1.1	7.71
9/2⁺	714.01	<0.02	<0.8	>9.3[1u]
(5/2)⁻	669.09	0.20	2.0	7.47
(7/2)⁻	655.32	0.08	0.8	7.86
7/2⁻	620.78	0.30	2.8	7.34
(3/2)⁻	582.21	0.26	2.2	7.44
5/2⁻	544.38	0.31	2.5	7.41
5/2⁻	513.09	0.33	2.6	7.41
9/2⁻	509.88	0.13	1.0	7.83
7/2⁻	486.99	0.59	4.3	7.19
3/2⁻	453.05	0.62	4.3	7.20
1/2⁻	395.19	0.26	1.6	7.64
(7/2)⁻	392.48	0.34	2.2	7.5
5/2⁻	273.04			
9/2⁺	0.0	<1.1	<12	>8.5[1u]

^{183}Ir ε decay 1988Ro13

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

@ Multiply placed: intensity suitably divided

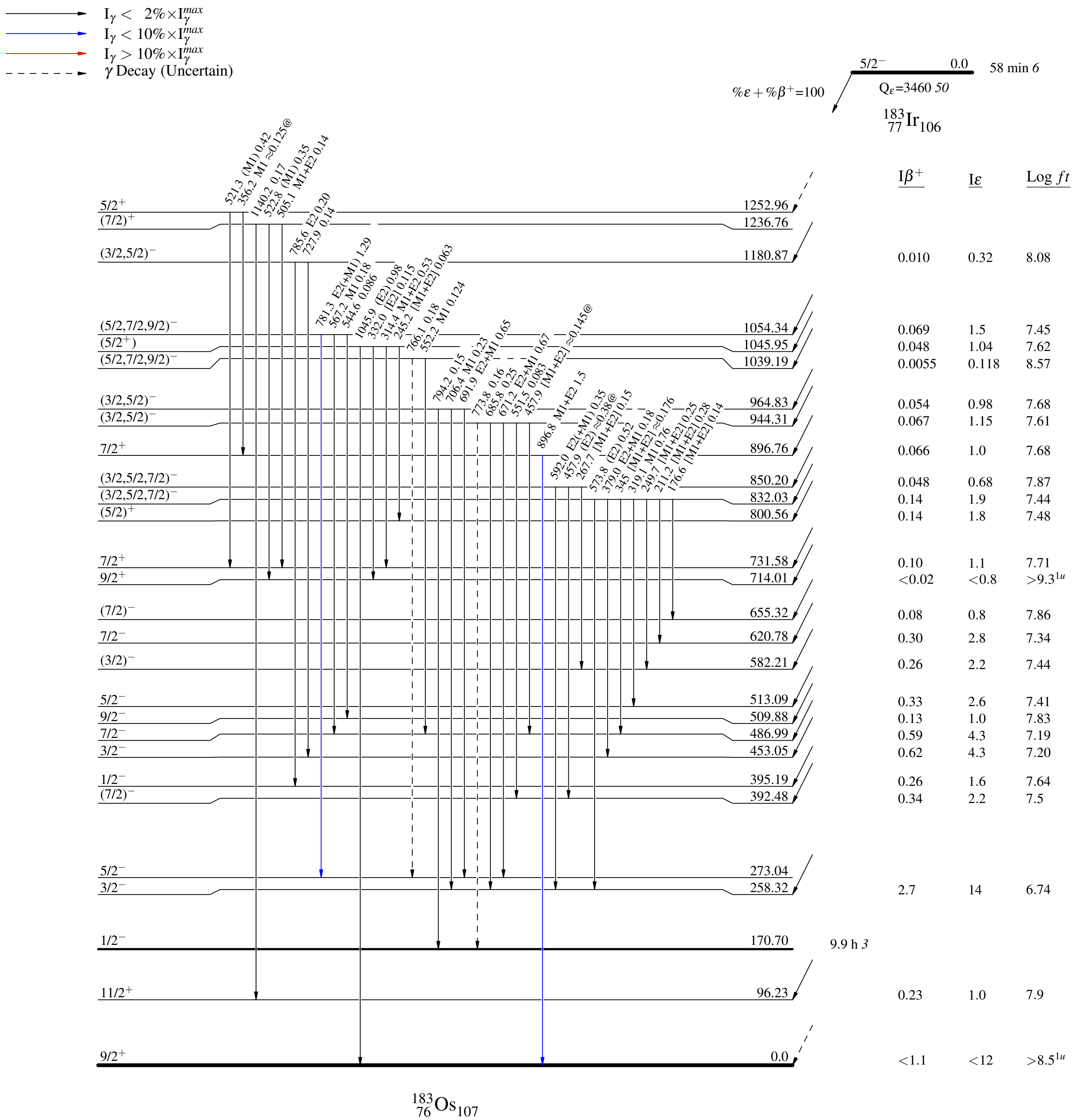


^{183}Ir ε decay 1988Ro13

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

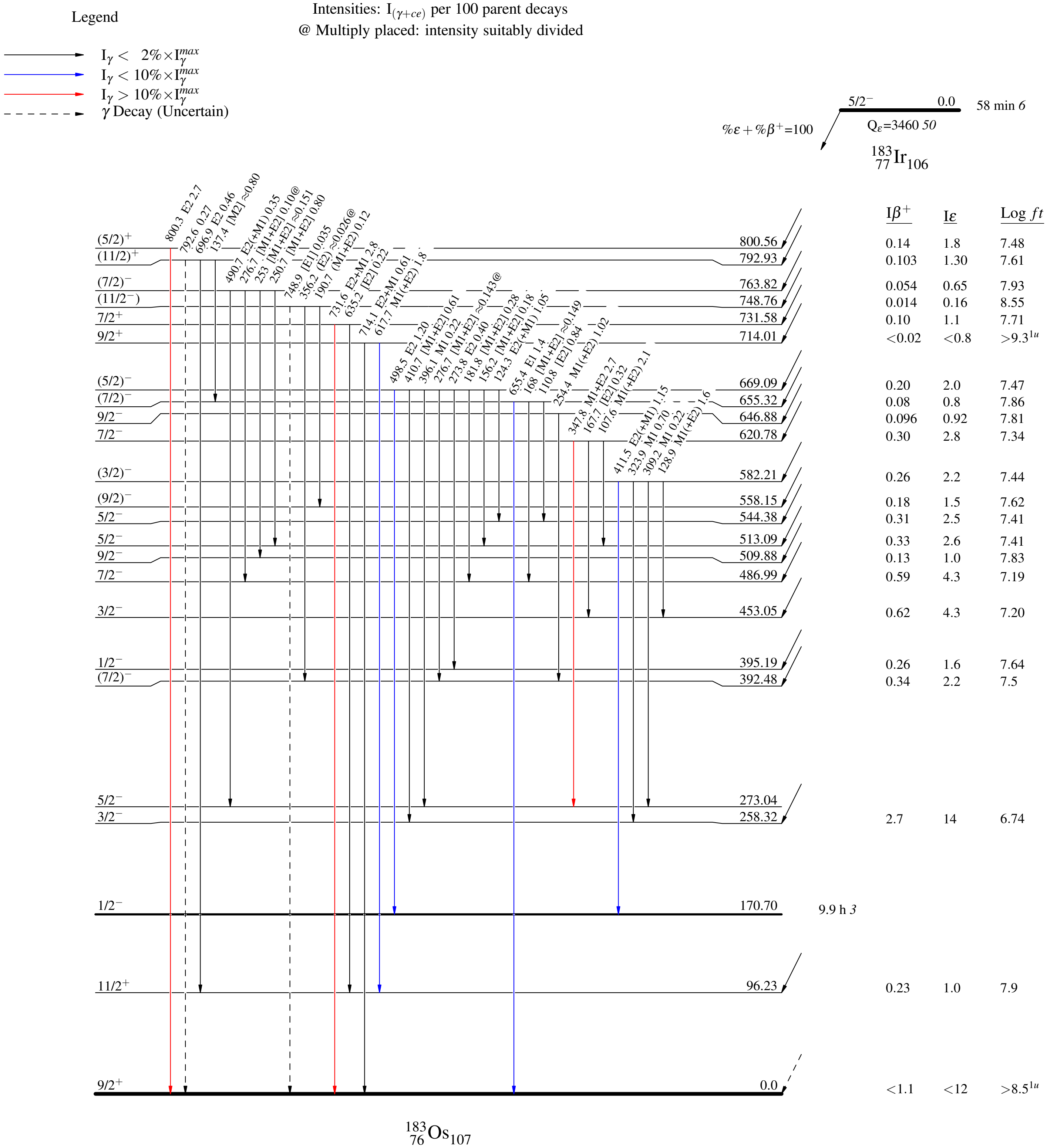
@ Multiply placed: intensity suitably divided



^{183}Ir ε decay 1988Ro13

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
@ Multiply placed: intensity suitably divided



^{183}Ir ε decay 1988Ro13

Decay Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

@ Multiply placed: intensity suitably divided