¹⁸³Os ε decay (9.9 h) 1983Br24,1970Ak01

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

Parent: ¹⁸³Os: E=170.70 7; $J^{\pi}=1/2^{-}$; $T_{1/2}=9.9$ h 3; $Q(\varepsilon)=2150\ 50$; $\%\varepsilon+\%\beta^{+}$ decay=85 2

¹⁸³Os-% ε +% β^+ decay: Assuming Σ (I(γ +ce) to g.s.)=85 2. ε branching deduced from %IT(¹⁸³Os)=15 2 if negligible ε + β^+

branch to g.s., but $\log f^{lu}t > 8.5$ only limits $\% \varepsilon + \% \beta^+$ to <26.

Other references: 1960Ne03, 1968Ha39, 1970PIZZ.

1983Br24: high-purity ¹⁸³Os sources from ¹⁸²W(α ,3n) using isotopically enriched targets and followed by chemical separation; additional sources from W(α ,xn) using natural W foils and chemical separation; low-energy photon spectrometer (FWHM \approx 0.55 keV At 122 keV) and large-volume Ge(Li) spectrometers (FWHM \approx 1.9 keV At 1332 keV); measured E γ , I γ , $\gamma\gamma$ coin, γ (t).

1970Ak01: sources from Os fraction or Os from Ir fraction decay following 660 MeV proton bombardment of Au, or from decay of separated Ir isotopes produced by 100 MeV ²²Ne bombardment of Ho; β spectrographs and $2\pi \sqrt{2}$ spectrometer (for E(ce)>800);

Ge(Li) detectors; measured E γ , I γ , I(ce), $\gamma\gamma$ coin (100 ns resolving time).

The decay scheme is primarily from 1983Br24. the total energy release for this decay scheme is 2102 260 cf.QxBR=1973 63.

¹⁸³Re Levels

E(level) [†]	$J^{\pi \ddagger}$	T _{1/2}	Comments
0.0	5/2+	70.0 d 14	$T_{1/2}$: from Adopted Levels.
114.33 5	7/2+		·/- ·
598.82 6	(5/2)-		
700.61 6	$(1/2)^{-}$		
828.98 8	$(3/2)^{-}$		
878.91 <i>5</i>	1/2+		
954.78 <i>4</i>	$(3/2^+)$		
1034.73 4	$(3/2)^+$		
1040.70 9	$(5/2)^+$		
1066.09 9	(3/2)		
1101.95 4	$(1/2)^+$		
1107.89 4	$(3/2)^+$		
1353.76 5	$(3/2^+)$		
1414.60 10	$(1/2^{-}, 3/2)$		
1563.13 14	$\leq (1/2^-, 3/2, 5/2^+)$		
1903.93 8	$(1/2^+, 3/2^+)$		

[†] From least-squares fit to $E\gamma$, omitting the 1904 γ which fits its placement poorly.

[‡] From Adopted Levels.

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\varepsilon, \beta^+ radiations
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E(decay)	E(level)	$\mathrm{I}\beta^+$ [†]	$\mathrm{I}\varepsilon^{\dagger}$	Log ft	$\mathrm{I}(\varepsilon + \beta^+)^\dagger$	Comments
$(4.2 \times 10^2 5)$	1903.93		0.87 6	7.11 14	0.87 6	εK=0.774 9; εL=0.171 7; εM+=0.0553 25
$(7.6 \times 10^2 5)$	1563.13		0.22 4	8.29 11	0.22 4	εK=0.8003 21; εL=0.1516 15; εM+=0.0481 6
$(9.1 \times 10^2 5)$	1414.60		0.40 7	8.20 10	0.40 7	εK=0.8050 14; εL=0.1482 10; εM+=0.0468 4
$(9.7 \times 10^2 5)$	1353.76		0.97 19	7.87 10	0.97 19	εK=0.8065 12; εL=0.1471 9; εM+=0.0464 4
$(1.21 \times 10^3 5)$	1107.89		21.9 6	6.73 5	21.9 6	εK=0.8108 7; εL=0.1440 6; εM+=0.04527 20
$(1.22 \times 10^3 5)$	1101.95		53.7 16	6.34 5	53.7 16	εK=0.8108 7; εL=0.1439 6; εM+=0.04525 20
$(1.25 \times 10^3 5)$	1066.09		0.5 4	8.4 4	0.5 4	εK=0.8113 7; εL=0.1436 5; εM+=0.04512 19
$(1.28 \times 10^3 5)$	1040.70		0.42 6	9.25 ¹ <i>u</i> 10	0.42 6	εK=0.7937 16; εL=0.1563 12; εM+=0.0500 5
$(1.29 \times 10^3 5)$	1034.73		3.1 5	7.63 8	3.1 5	εK=0.8117 6; εL=0.1433 5; εM+=0.04501 18
$(1.44 \times 10^3 5)$	878.91	0.0011 7	2.0 3	7.92 8	2.0 3	av Eβ=208 23; εK=0.8129 3; εL=0.1420 4;
						$\epsilon M_{\pm} = 0.04453.15$

Continued on next page (footnotes at end of table)

¹⁸³Os ε decay (9.9 h) 1983Br24,1970Ak01 (continued)

ϵ, β^+ radiations (continued)

E(decay)	E(level)	$I\beta^+$ [†]	Ιε	Log ft	$\mathrm{I}(\varepsilon\!+\!\beta^+)^\dagger$	Comments
$(1.49 \times 10^3 5)$	828.98		0.4 5	8.7 6	0.4 5	εK=0.8131 2; εL=0.1416 4; εM+=0.04439 14
$(2.32 \times 10^{3 \ddagger} 5)$	0.0	0.13 13	13 13	8.8 ¹ <i>u</i> 5	13 <i>13</i>	av Eβ=605 22; εK=0.8018 9; εL=0.1434 5; εM+=0.04515 18

 † For absolute intensity per 100 decays, multiply by 0.85 2. ‡ Existence of this branch is questionable.

					¹⁸³ Os	ε decay (9	.9 h) 19	83Br24,197	70Ak01 (co	ontinued)
							$\gamma(1)$	¹⁸³ Re)		
Iγ normaliza $\% \varepsilon + \% \beta^+$	ation: assur to <26.	ming Σ (I(γ -	+ce) to g.	s.)=85 2. <i>e</i>	branchi	ng deduced	d from %IT	$G(^{183}Os) = 15$	5 2 if negli	gible $\varepsilon + \beta^+$ branch to g.s., but $\log f^{\mathrm{du}} t > 8.5$ only limits
E_{γ}^{\ddagger}	$I_{\gamma}^{\ddagger b}$	E _i (level)	\mathbf{J}_i^{π}	E_f	J_f^{π}	Mult. [#]	$\delta^{@}$	α^{\dagger}	$I_{(\gamma+ce)}^{b}$	Comments
^x 66.15 3										E_{γ} : from 1970Ak01; placed by authors from a 665 level known from ¹⁸³ Os ε decay (13.0 h) but not expected to be fed In this decay. Placement implies high multipolarity and γ is otherwise unknown so placement is excluded here and In Adopted Levels, Gammas. I(γ+ce)≈1.64 from 1970Ak01 if Ti(1102γ)=100. Mult.: L2/L3≈1 (1970Ak01).
67.24 3	1.75 18	1101.95	(1/2)+	1034.73	(3/2)+	M1+E2	≈0.075	≈2.93		α(L)≈2.26; α(M)≈0.520 $ α(N)≈0.1259; α(O)≈0.0210; α(P)≈0.001477 $ E _γ : from 1970Ak01; not reported by 1983Br24. Mult.: L1/L2=9 (1970Ak01); α(L1)exp=2.9. L1:L2=65:7.5 (1968Ha39). From 1960Ne03, 1968Ha39, and 1970Ak01. δ calculated from L1/L2=65/7.5 (1968Ha39) and Iγ from relative electron intensities (1968Ha39, 1970Ak01) and adopted α.
80.03 4		1034.73	(3/2)+	954.78	(3/2+)	[M1]		9.79	<1.9	ce(K)/(γ+ce)=0.750 6; ce(L)/(γ+ce)=0.1218 22; ce(M)/(γ+ce)=0.0279 6 ce(N)/(γ+ce)=0.00676 13; ce(O)/(γ+ce)=0.001135 22; ce(P)/(γ+ce)=8.28×10 ⁻⁵ 16 α(K)=8.09 12; α(L)=1.315 19; α(M)=0.301 5; α(N)=0.0729 11; α(O)=0.01224 18 I _γ : I _γ =0.45 11 (1983Br24) is inconsistent with intensity balance through the 955-keV level. Authors indicate that this transition may include a component from ¹⁸³ Os(13 h) decay. The adopted I(γ+ce) is calculated from the intensity balance through the 955-keV level.
101.79 5	0.42 17	700.61	$(1/2)^{-}$	598.82	(5/2)-	[E2]		3.84		$\alpha(K)=0.816$ 12; $\alpha(L)=2.28$ 4; $\alpha(M)=0.581$ 9 $\alpha(N)=0.1370$ 20; $\alpha(O)=0.0107$ 3; $\alpha(R)=7.42\times10^{-5}$ 11
114.35 7 *126.2 <i>1</i>	1.44 <i>12</i> 0.38 <i>13</i>	114.33	7/2+	0.0	5/2+	M1+E2	0.24 4	3.46 6		$\alpha(N)=0.137720, \alpha(G)=0.01973, \alpha(P)=1.42\times10^{-7} II$ $\alpha(K)=2.796; \alpha(L)=0.51618; \alpha(M)=0.1205$ $\alpha(N)=0.028911; \alpha(O)=0.0047515; \alpha(P)=0.0003047$ I_{γ} : calculated from intensity balance through 114-keV level. Mult.: from Adopted Gammas. E_{γ} : from 1970Ak01; placed by authors between the 1353
128.30 8	0.28 ^a 6	828.98	(3/2)-	700.61	(1/2)-	[M1]		2.53		rejected by evaluator. $\alpha(K)=2.10 \ 3; \ \alpha(L)=0.337 \ 5; \ \alpha(M)=0.0770 \ 11$
147.11 <i>10</i>	0.91 25	1101.95	$(1/2)^+$	954.78	(3/2+)	(M1)		1.718		α (N)=0.0187 3; α (O)=0.00314 5; α (P)=0.000229 4 α (K)=1.423 21; α (L)=0.228 4; α (M)=0.0521 8

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From ENSDF

I

				183 Os ε d	lecay (9.	9 h) 1 9	83Br24,197	70Ak01 (continued)
						$\gamma(^{183}\text{Re})$	(continued)
E _γ ‡	$I_{\gamma}^{\ddagger b}$	E _i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	J_f^π	Mult. [#]	α^{\dagger}	Comments
^x 163.2 <i>1</i>								α (N)=0.01264 <i>18</i> ; α (O)=0.00212 <i>3</i> ; α (P)=0.0001552 <i>22</i> Mult.: α (K)exp=1.25. K:L1=18:4 (1968Ha39). E _{γ} : from 1970Ak01; placed by authors from an 828 level to a 664 level known from ¹⁸³ Os ε decay (13.0 h), but adopted spin change is prohibitively large so evaluator has rejected that placement
230.10 15	0.71 ^{<i>a</i>} 23	828.98	(3/2)-	598.82	(5/2)-	[M1]	0.492	$\alpha(K)=0.408 6; \ \alpha(L)=0.0648 \ 10; \ \alpha(M)=0.01481 \ 21 \ \alpha(N)=0.00359 \ 5; \ \alpha(O)=0.000604 \ 9; \ \alpha(P)=4.42\times10^{-5} \ 7$
237.00 15	0.5 5	1066.09	(3/2)	828.98	(3/2)-	[M1]	0.453	$\alpha(K)=0.005575; \alpha(G)=0.00000047; \alpha(K)=0.0136420$ $\alpha(K)=0.003315; \alpha(G)=0.0005568; \alpha(E)=4.08\times10^{-5}6$
245.90 5	0.63 25	1353.76	(3/2+)	1107.89	(3/2)+	(M1)	0.410	$\alpha(K)=0.3405; \alpha(L)=0.05398; \alpha(M)=0.0123218$ $\alpha(N)=0.002995; \alpha(O)=0.0005027; \alpha(P)=3.68\times10^{-5}6$ Mult: $\alpha(K)$ exp=0.50
251.92 8	0.80 10	1353.76	(3/2+)	1101.95	$(1/2)^+$	(M1)	0.383	$\alpha(K)=0.318\ 5;\ \alpha(L)=0.0505\ 7;\ \alpha(M)=0.01152\ 17$ $\alpha(N)=0.00279\ 4;\ \alpha(O)=0.000470\ 7;\ \alpha(P)=3.44\times10^{-5}\ 5$ Mult: K-1 1=0.016:0.003 (1960Ne03) $\alpha(K)$ exp=0.36
365.51 8	0.34 12	1066.09	(3/2)	700.61	(1/2)-	[M1]	0.1400	$\alpha(K)=0.1163 \ 17; \ \alpha(L)=0.0183 \ 3; \ \alpha(M)=0.00417 \ 6$ $\alpha(N)=0.001011 \ 15; \ \alpha(O)=0.0001701 \ 24; \ \alpha(P)=1.252\times10^{-5} \ 18$
401.32 8 484.49 5	0.85 7 4.52 <i>23</i>	1101.95 598.82	$(1/2)^+$ (5/2) ⁻	700.61 114.33	(1/2) ⁻ 7/2 ⁺	E1	0.00790	$\alpha(K)$ =0.00662 <i>10</i> ; $\alpha(L)$ =0.000992 <i>14</i> ; $\alpha(M)$ =0.000225 <i>4</i> $\alpha(N)$ =5.42×10 ⁻⁵ <i>8</i> ; $\alpha(O)$ =8.96×10 ⁻⁶ <i>13</i> ; $\alpha(P)$ =6.07×10 ⁻⁷ <i>9</i> Mult.: $\alpha(K)$ exp=0.0056 (E γ misprinted As 84.7 In table 2 of 1970Ak01).
535.62 25 550.28 10 585.60 10 714.20 15	$0.009^{a} 5$ 0.38 8 $0.42^{a} 11$ $0.20^{a} 6$ $0.18^{a} 8$	1414.60 1903.93 1414.60 1414.60	$(1/2^-,3/2)$ $(1/2^+,3/2^+)$ $(1/2^-,3/2)$ $(1/2^-,3/2)$	878.91 1353.76 828.98 700.61	$\frac{1/2^{+}}{(3/2^{+})}$ $\frac{(3/2)^{-}}{(1/2)^{-}}$			
734.01 15	$0.18 8 0.32^{a} 8 0.25 13$	1563.13	$\leq (1/2^-, 3/2, 5/2^+)$	828.98	(3/2)-			
795.94 <i>15</i> 815.53 <i>20</i> 829.01 <i>18</i> 840.58 8	0.23 13 0.68 7 0.18 5 0.26 7 1.31 16	1903.93 1414.60 828.98 954.78	$(1/2^+, 3/2^+)$ $(1/2^-, 3/2)$ $(3/2)^-$ $(3/2^+)$	1107.89 598.82 0.0 114.33	(3/2) ⁺ (5/2) ⁻ 5/2 ⁺ 7/2 ⁺			
*853.37 <i>15</i> 878.91 <i>5</i>	0.67 9 4.0 5	878.91	1/2+	0.0	5/2+	E2	0.00615	α (K)=0.00499 7; α (L)=0.000892 13; α (M)=0.000207 3 α (N)=4.99×10 ⁻⁵ 7; α (O)=8.15×10 ⁻⁶ 12; α (P)=5.01×10 ⁻⁷ 7
926.06 20	0.26 7	1040.70	(5/2)+	114.33	7/2+	(E2)	0.00552	Mult.: $\alpha(K)\exp=0.0041$. $\alpha(K)=0.00450$ 7; $\alpha(L)=0.000789$ 11; $\alpha(M)=0.000182$ 3 $\alpha(N)=4.40\times10^{-5}$ 7; $\alpha(O)=7.21\times10^{-6}$ 11; $\alpha(P)=4.52\times10^{-7}$ 7 Mult : from Adopted Commas
948.98 15	0.47 4	1903.93	$(1/2^+, 3/2^+)$	954.78	$(3/2^+)$			Mun.: nom Adopted Gammas.

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From ENSDF

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			18	33 Os ε de	cay (9.9	h) 1983	Br24,1970A	k01 (continued)
						$\gamma(^{183}\text{Re})$ (c	ontinued)	
E_{γ}^{\ddagger}	$I_{\gamma}^{\ddagger b}$	E _i (level)	J_i^π	E_f	\mathbf{J}_f^{π}	Mult. [#]	α^{\dagger}	Comments
954.88 8	2.82 4	954.78	(3/2+)	0.0	5/2+	E2	0.00519	$\alpha(K)=0.00424\ 6;\ \alpha(L)=0.000735\ 11;\ \alpha(M)=0.0001698\ 24$ $\alpha(N)=4.10\times10^{-5}\ 6;\ \alpha(O)=6.72\times10^{-6}\ 10;\ \alpha(P)=4.25\times10^{-7}\ 6$ Mult.: $\alpha(K)$ exp=0.0043.
964.54 20	0.13 2	1563.13	$\leq (1/2^{-}, 3/2, 5/2^{+})$	598.82	$(5/2)^{-}$			
993.43 15	0.35 4	1107.89	$(3/2)^+$ $(3/2)^+$	114.33	7/2+ 5/2+	$M1\pm F2$	0.007.3	$\alpha(\mathbf{K}) = 0.0058$ 22: $\alpha(\mathbf{L}) = 0.0009$ 3: $\alpha(\mathbf{M}) = 0.00021$ 7
1034.08 5	12.30 12	1054.75	(3/2)	0.0	5/2	WIT+E2	0.007 5	$\alpha(\text{K})=0.003722, \ \alpha(\text{L})=0.00093, \ \alpha(\text{M})=0.000217$ $\alpha(\text{N})=5.1\times10^{-5} \ 17; \ \alpha(\text{O})=8.\text{E}-6 \ 3; \ \alpha(\text{P})=6.0\times10^{-7} \ 24$ Mult.: $\alpha(\text{K})\text{exp}=0.0072, \ \text{K}:\text{L}1=2.1:\approx0.7 \ (1968\text{Ha39}).$
1040.77 10	0.59 8	1040.70	$(5/2)^+$	0.0	5/2+	(M1)	0.00944	α (K)=0.00789 ¹ <i>I</i> 1; α (L)=0.001198 <i>I</i> 7; α (M)=0.000272 <i>4</i> α (N)=6.60×10 ⁻⁵ <i>I</i> 0; α (O)=1.113×10 ⁻⁵ <i>I</i> 6; α (P)=8.31×10 ⁻⁷ <i>I</i> 2 Mult : from 4 dotted Common
1101.93 5	100.0 <i>10</i>	1101.95	(1/2)+	0.0	5/2+	(E2)	0.00390	$\alpha(K)=0.00321 \ 5; \ \alpha(L)=0.000533 \ 8; \ \alpha(M)=0.0001225 \ 18 \\ \alpha(N)=2.96\times10^{-5} \ 5; \ \alpha(O)=4.88\times10^{-6} \ 7; \ \alpha(P)=3.22\times10^{-7} \ 5; \\ \alpha(IPF)=2.09\times10^{-7} \ 3 \\ Mult: \ K:L1=6 \ 05:1 \ (1968Ha39).$
								% $I\gamma$ =49.2 12 based on recommended decay scheme normalization.
^x 1104.66 <i>15</i> 1107.93 <i>5</i>	1.1 <i>4</i> 45.7 <i>4</i>	1107.89	(3/2)+	0.0	5/2+	M1	0.00808	$\alpha(K)=0.00675 \ 10; \ \alpha(L)=0.001023 \ 15; \ \alpha(M)=0.000232 \ 4$ $\alpha(N)=5.64\times10^{-5} \ 8; \ \alpha(O)=9.51\times10^{-6} \ 14; \ \alpha(P)=7.11\times10^{-7} \ 10;$ $\alpha(IPF)=3.96\times10^{-7} \ 6$ Mult: $\alpha(K)=0.0060$ K:1 1=5 65:1 1 (1068Hc20)
^x 1110.44 20 ^x 1161.11 20	0.61 <i>12</i> 1.1 <i>3</i>							Munt., <i>a</i> (K)exp=0.0000, K .L1=5.05.1.1 (1908na59).
^x 1168 ^{&} 1	0.19 6							
x1173.99 10	0.38^{a} 15							
x1331.08 10	0.22 8							
1353.57 10	0.35 5	1353.76	(3/2+)	0.0	5/2+	(E2)	0.00265	$\alpha(K)=0.00218 \ 3; \ \alpha(L)=0.000344 \ 5; \ \alpha(M)=7.86\times10^{-5} \ 11 \ \alpha(N)=1.90\times10^{-5} \ 3; \ \alpha(O)=3.16\times10^{-6} \ 5; \ \alpha(P)=2.18\times10^{-7} \ 3; \ \alpha(IPF)=2.77\times10^{-5} \ 4 \ Mult.: \ \alpha(K)exp=0.0025.$
^x 1468.91 25	0.03 1							
^1473.13 25 ×1562.60 10	0.03 1							
^x 1626.39 10	0.13^{a} 2							
^x 1642 ^{&} 2	0.08 3							
^x 1650.02 <i>10</i>	0.06 2							_
^x 1678.48 <i>10</i>	0.07 2					(E2)	0.00189	$\alpha(K)=0.001469\ 21;\ \alpha(L)=0.000223\ 4;\ \alpha(M)=5.08\times10^{-5}\ 8$ $\alpha(N)=1.228\times10^{-5}\ 18;\ \alpha(O)=2.05\times10^{-6}\ 3;\ \alpha(P)=1.464\times10^{-7}\ 21;$ $\alpha(IPF)=0.0001329\ 19$ Mult : $\alpha(K)=0.0016$
^x 1707 ^{&} 2	0.09 4							

From ENSDF

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¹⁸³Os ε decay (9.9 h) **1983Br24,1970Ak01** (continued)

$\gamma(^{183}\text{Re})$ (continued)

Eγ [‡]	I_{γ} [‡] <i>b</i>	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f \mathbf{J}_f^{\pi}$	Mult. [#]	α^{\dagger}	Comments
^x 1725 ^{&} 2	0.08 3						
$x_{1787}^{\infty} 2$	0.10 4				(E2)	1.72×10^{-3}	$\alpha(\mathbf{K}) = 0.001284$ 18. $\alpha(\mathbf{K}) = 0.000102$ 2. $\alpha(\mathbf{M}) = 4.20\times10^{-5}$ 7
. 1800.71 15	0.19 5				(E2)	1.72×10	$\alpha(\mathbf{N})=0.00124770; \alpha(\mathbf{L})=0.0001953; \alpha(\mathbf{M})=4.39\times10^{-7} 7$ $\alpha(\mathbf{N})=1.061\times10^{-5} 15; \alpha(\mathbf{O})=1.777\times10^{-6} 25; \alpha(\mathbf{P})=1.279\times10^{-7} 18;$ $\alpha(\mathbf{IPF})=0.000187 3$
X1000 00 05	0.160.0					0.000(4	Mult.: $\alpha(K) \exp = 0.0009$.
*1826.06 25	0.164 2				(M1)	0.00264	$\alpha(\mathbf{K})=0.00198\ 3;\ \alpha(\mathbf{L})=0.000296\ 5;\ \alpha(\mathbf{M})=6.70\times10^{-7}\ 10^{-7}\ 3;$ $\alpha(\mathbf{N})=1.625\times10^{-5}\ 23;\ \alpha(\mathbf{O})=2.74\times10^{-6}\ 4;\ \alpha(\mathbf{P})=2.07\times10^{-7}\ 3;$ $\alpha(\mathbf{IPF})=0.000274\ 4$
						2	Mult.: α (K)exp=0.0016.
1903.50 <i>10</i>	0.23 2	1903.93	$(1/2^+, 3/2^+)$	0.0 5/2+	(E2)	1.62×10^{-3}	$\begin{aligned} &\alpha(\mathbf{K}) = 0.001168 \ 17; \ \alpha(\mathbf{L}) = 0.0001746 \ 25; \ \alpha(\mathbf{M}) = 3.96 \times 10^{-5} \ 6 \\ &\alpha(\mathbf{N}) = 9.58 \times 10^{-6} \ 14; \ \alpha(\mathbf{O}) = 1.606 \times 10^{-6} \ 23; \ \alpha(\mathbf{P}) = 1.163 \times 10^{-7} \ 17; \\ &\alpha(\mathbf{IPF}) = 0.000230 \ 4 \end{aligned}$
							Mult.: α (K)exp=0.0018.
^x 1919.00 25 ^x 1948.13 25	0.04 <i>1</i> 0.07 <i>2</i>						E_{γ} : fits placement poorly; omitted from least-squares fit. Mult.: $\alpha(K)exp=0.0028$.

[†] Additional information 1.
[‡] From 1983Br24, except As noted.

[#] Based on conversion electron data from 1970Ak01 and I γ adopted here, except As noted. the γ and ce intensity scales were normalized so $\alpha(K)\exp(1102\gamma)=\alpha(K)(E2 \text{ theory})=0.00321.$

^a From Adopted Gammas. ^c Unplaced γ from 1970Ak01. I γ from 1970Ak01 renormalized so I(1102 γ)=100 as In 1983Br24. ^a Transition may include contribution from ¹⁸³Os(13.0 h) ε decay.

^b For absolute intensity per 100 decays, multiply by 0.492 12.

 $x \gamma$ ray not placed in level scheme.

¹⁸³Os ε decay (9.9 h) 1983Br24,1970Ak01

