

[185Ir \$\varepsilon\$ decay](#) [1962Ha24,1970FiZZ,1971AhZX](#)

Type	Author	History	
		Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106, 619 (2005)	1-Nov-2005

Parent: ^{185}Ir : E=0.0; $J^\pi=5/2^-$; $T_{1/2}=14.4$ h *I*; $Q(\varepsilon)=2474$ 28; % ε +% β^+ decay=100.0

[1962Ha24](#): Radioactivity ^{185}Ir ; measured $E\gamma$, Conversion electrons, mult., mixing ratios.

[1970FiZZ](#): Radioactivity ^{185}Ir ; Ge(Li) detector; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, deduced K Conv. Coeff.; $T_{1/2}$ of ^{185m}Os .

[1971AhZX](#): Radioactivity ^{185}Ir ; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, ICC; ^{185}Os deduced levels, J^π .

[1981Sp06](#): Radioactivity ^{185}Ir ; measured NMR, $\gamma(\theta,T)$, deduced K Conv. Coeff.; oriented nuclei. ^{185}Os deduced levels, J^π .

Other measurements: [1958Di44](#), [1963Em02](#), [1965Qa01](#).

Because of the large number of unplaced γ rays the decay scheme is incomplete, and therefore, ε populations to the various levels have not been deduced.

[185Os Levels](#)

E(level)	J^π [†]	T _{1/2}	Comments
0.0	1/2 ⁻		
37.4 1	3/2 ⁻		
97.4 2	5/2 ⁻		
102.3 7	7/2 ⁻	3.0 μs 4	T _{1/2} : from delayed $\gamma\gamma$ coincidences (1970FiZZ).
127.9 2	3/2 ⁻		
198.1 2	7/2 ⁻		
222.4 3	5/2 ⁻		
260.5 6	9/2 ⁻		
275.7 8	11/2 ⁺	0.78 μs 5	T _{1/2} : from delayed $\gamma\gamma$ coincidences (1970FiZZ).
317.8 3	9/2 ⁻		
351.7 3	7/2 ⁻		
402.6 7	9/2 ⁺		
729.4 4	(5/2 ⁻ ,7/2 ⁻)		
1769.8	5/2 ⁺		J^π : 1732 γ E1 to 3/2 ⁻ , $\gamma\gamma(\theta,\text{H})$ (1981Sp06).
1866.3	5/2 ⁺		J^π : 1829 γ E1 to 3/2 ⁻ , $\gamma\gamma(\theta,\text{H})$ (1981Sp06).
1907.6	5/2 ⁺		J^π : 1870 γ E1 to 3/2 ⁻ , $\gamma\gamma(\theta,\text{H})$ (1981Sp06).
2003.8	5/2 ⁺		J^π : 1876 γ E1 to 3/2 ⁻ , $\gamma\gamma(\theta,\text{H})$ (1981Sp06).

[†] From Adopted Levels, unless otherwise specified.

¹⁸⁵Ir ε decay 1962Ha24,1970FiZZ,1971AhZX (continued) $\gamma(^{185}\text{Os})$

I γ normalization: from decay scheme assuming no ε population to g.s. from ¹⁸⁵Ir($J^\pi=5/2^-$), and $\Sigma I(\gamma+\text{ce})(\text{to g.s.})=100\%$. The normalization factor 0.07 I should be considered an upper limit because there is a total unplaced γ -ray transition intensity of $\approx 20\%$, some of which may feed the ground state.
ce data listed in this table are from 1962Ha24, unless otherwise noted.

E $_{\gamma}^{\dagger}$	I $_{\gamma}^{\ddagger b}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$	Mult. #	$\delta^{@}$	α^c	Comments
(4.9)		102.3	7/2 $^-$	97.4	5/2 $^-$				Transition was not observed. Delayed (158.2 γ)(37.4, 60.0, 97.4 γ 's) coincidences observed in ¹⁸³ W($\alpha, 2\text{ny}$) (1975So01) imply its existence.
(15.2)		275.7	11/2 $^+$	260.5	9/2 $^-$				Transition not observed, its existence is inferred by the 158.2 γ measured in the delayed spectrum in ¹⁸³ W($\alpha, 2\text{ny}$) (1975So01).
24.20 ^a 4	0.26 11	222.4	5/2 $^-$	198.1	7/2 $^-$	M1+E2	0.09 +5-3	94 22	$\alpha(L)= 72 12$; $\alpha(M)= 17 3$ δ : from ce(L1)/ce(L2)exp=3.0 15. I $_{\gamma}$: from Ice(L1)=12.5 and $\alpha(L1)=45.4$. $\alpha(L)= 25.7$; $\alpha(M)= 5.89$ Mult.: from ce(L1):ce(M)exp=7.2.
30.4 ^a 5	0.30 13	127.9	3/2 $^-$	97.4	5/2 $^-$	(M1)		33.5	I $_{\gamma}$: from Ice(L1)=7.3 and $\alpha(L1)=23.2$. $\alpha(L)= 18.7$; $\alpha(M)= 4.28$ From ce(L1)/ce(M)exp=3.
33.85 ^a 5	0.18 8	351.7	7/2 $^-$	317.8	9/2 $^-$	(M1)		24.4	I $_{\gamma}$: from Ice(L1)=3.0 12 and $\alpha(L1)=16.86$. $\alpha(L)= 14.7$; $\alpha(M)= 3.38$ %I $_{\gamma}=3.5$ 2. δ : from ce(L1):ce(L2):ce(L3)exp=600 120:90 18:33 7.
37.4 1	49 10	37.4	3/2 $^-$	0.0	1/2 $^-$	M1+E2	0.05 1	19.2	I $_{\gamma}$: from Ice(L1)=723 and $\alpha(L)=14.7$. $\alpha(L)= 4.32 23$; $\alpha(M)= 1.01 6$; $\alpha(N+..)= 0.308 23$ δ : from ce(L1):ce(L2):ce(L3)exp=250 50:60 12:45 9. I $_{\gamma}$: from Ice(L1)=250 50 and $\alpha(L1)=3.04$. I $_{\gamma}(60\gamma)/I_{\gamma}(97\gamma)=1.65$ was measured in the ($\alpha, 2\text{ny}$) reaction. This ratio and I $_{\gamma}(97\gamma)$ yield I $_{\gamma}(60\gamma)=99$.
60.0 ^a 1	82 17	97.4	5/2 $^-$	37.4	3/2 $^-$	M1+E2	0.18 3	5.6 4	Transition was not observed. A weak E2 transition to the 3/2 $^-, 1/2[510]$ state is expected in analogy with the decay pattern of the 7/2 $^-, 7/2[503]$ state in ¹⁸³ W.
(64.9)		102.3	7/2 $^-$	37.4	3/2 $^-$				$\alpha(K)= 5 3$; $\alpha(L)= 2.2 15$; $\alpha(M)= 0.5 4$; $\alpha(N+..)= 0.16 13$ δ : from ce(L1):ce(L2)exp=18 4:3.5 14.
90.45 14	18.6 19	127.9	3/2 $^-$	37.4	3/2 $^-$	M1(+E2)	≤ 1.5	7.4 5	$\alpha(K)= 3.5 7$; $\alpha(L)= 2.1 4$; $\alpha(M)= 0.52 9$; $\alpha(N+..)= 0.16 3$ δ : from $\alpha(L1)\text{exp}=0.46$ 19 and ce(L1):ce(L2):ce(L3)exp=2.6 10/4.0 16/3.6 15.
94.5 2	5.7 6	222.4	5/2 $^-$	127.9	3/2 $^-$	M1+E2	0.9 3	6.28 18	$\alpha(K)= 0.842$; $\alpha(L)= 3.07$; $\alpha(M)= 0.781$; $\alpha(N+..)=$
97.4 2	60 12	97.4	5/2 $^-$	0.0	1/2 $^-$	E2		4.93	

¹⁸⁵Ir ε decay 1962Ha24,1970FiZZ,1971AhZX (continued)

<u>$\gamma^{(185\text{Os})}$ (continued)</u>									
E_γ^{\dagger}	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	$\delta^{\text{@}}$	α^c	Comments
								0.235	
100.75 16	35 4	198.1	7/2 ⁻	97.4 5/2 ⁻	M1+E2	0.22 5	5.63		I_γ : from Ice(L2)=95 19 and α (L2)=1.58. Mult.: from ce(L2):ce(L3):ce(M):ce(N)exp=95:85:47:12. $\alpha(K)= 4.52$; $\alpha(L)= 0.85$; $\alpha(M)= 0.198$; $\alpha(N+..)= 0.061$ δ : from $\alpha(K)\text{exp}=4.2$ 9 and ce(K):ce(L1):ce(L2):ce(L3)exp=145 30:26 5:3.5 14:2.5 10.
119.65 18	0.76 8	317.8	9/2 ⁻	198.1 7/2 ⁻	M1+E2	≤ 1.2	3.1 6		$\alpha(K)= 2.2$ 11; $\alpha(L)= 0.7$ 4; $\alpha(M)= 0.16$ 10; $\alpha(N+..)= 0.05$ 3 δ : from $\alpha(K)\text{exp}=2.6$ 11.
124.95 ^a 20	0.47 19	222.4	5/2 ⁻	97.4 5/2 ⁻	(M1)		3.07		$\alpha(K)= 2.54$; $\alpha(L)= 0.411$; $\alpha(M)= 0.0942$; $\alpha(N+..)= 0.0294$
126.9 2	12 5	402.6	9/2 ⁺	275.7 11/2 ⁺	M1+E2	≈ 0.4	2.77 15		I_γ : from Ice(K)=1.2 5 and $\alpha(K)=2.536$ (M1 theory). Mult.: M1,E2 from decay scheme. Only conversion electrons were observed. An upper limit on I_γ gives $\alpha(K)\text{exp}<1.7$, and $\delta<0.9$. Evaluator adopts (M1).
127.9 2	10 4	127.9	3/2 ⁻	0.0 1/2 ⁻	M1		2.87		$\alpha(K)= 2.16$ 24; $\alpha(L)= 0.46$ 8; $\alpha(M)= 0.109$ 20; $\alpha(N+..)= 0.034$ 5 δ : from ce(K):ce(L1):ce(L2):ce(L3)exp= \approx 18:3.2: \approx 1:weak. I_γ : from measured $I_\gamma(126.9\gamma+127.9\gamma)=21.7$ 22 and calculated $I_\gamma(127.9)=9.7$ 39. $I_\gamma(126.9)=10$ 5, from Ice(L1)=3.2 and $\alpha(L1)=0.31$. $I_\gamma(126.9)=10$ 5, from $I_\gamma(126.9)/I_\gamma(300.3)=1.05$ 45 in ($\alpha,2n\gamma$).
129.4 ^a 2		351.7	7/2 ⁻	222.4 5/2 ⁻	(E2+M1)		2.2 6		$\alpha(K)= 2.37$; $\alpha(L)= 0.384$; $\alpha(M)= 0.0881$; $\alpha(N+..)= 0.0275$ Mult.: from ce(K)/ce(L)exp=5.1. I_γ : $I_\gamma(126.9\gamma+127.9\gamma)=21.7$ 22 was measured. $I_\gamma(127.9\gamma)=9.7$ 39 from Ice(K)=23 9 and $\alpha(K)=2.37$.
142.1 ^{&} 2	0.6 1	402.6	9/2 ⁺	260.5 9/2 ⁻	[E1]		0.160		$\alpha(K)= 0.131$; $\alpha(L)= 0.0223$; $\alpha(M)= 0.00509$; $\alpha(N+..)= 0.00153$
153.5 2	29 3	351.7	7/2 ⁻	198.1 7/2 ⁻	M1+E2	0.8 3	1.37 14		$\alpha(K)= 0.99$ 17; $\alpha(L)= 0.29$ 5; $\alpha(M)= 0.070$ 11; $\alpha(N+..)= 0.0214$ 21 δ : from $\alpha(K)\text{exp}=1.0$ 2.
158.2 2	34 4	260.5	9/2 ⁻	102.3 7/2 ⁻	M1+E2		1.2 4		$\alpha(K)= 0.8$ 5; $\alpha(L)= 0.27$ 13; $\alpha(M)= 0.07$ 3; $\alpha(N+..)= 0.020$ 5 Mult.: from $\alpha(L1)\text{exp}=0.13$ and ce(K):ce(L1):ce(L2):ce(M)exp= \approx 30:4.6:weak:1.4.
160.7 2	25 3	198.1	7/2 ⁻	37.4 3/2 ⁻	E2		0.721		$\alpha(K)= 0.300$; $\alpha(L)= 0.317$; $\alpha(M)= 0.0801$; $\alpha(N+..)= 0.0240$ Mult.: from $\alpha(M)\text{exp}=0.06$ 3 and ce(K):ce(L2):ce(L3):ce(M):ce(N)exp= \approx 5:<5.9: <5.8:1.6:0.44.
x177.3		1.7							

¹⁸⁵Ir ε decay 1962Ha24, 1970FiZZ, 1971AhZX (continued)

¹⁸⁵Ir ε decay 1962Ha24, 1970FiZZ, 1971AhZX (continued)

$\gamma^{(185)\text{Os}}$ (continued)										
E_γ^{\dagger}	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	$\delta^{\text{@}}$	α^c	Comments	
$^{x}370.6$	1.2									
$^{x}377.6$ 2	3.0 3	729.4	(5/2 $^{-}$, 7/2 $^{-}$)	351.7	7/2 $^{-}$	(M1)		0.143	$\alpha(K) = 0.119; \alpha(L) = 0.0189; \alpha(M) = 0.00433; \alpha(N+..) = 0.00131$	
									Mult.: from $\alpha(K)\exp=0.16$ 7 and ce(K):ce(L1) $\exp=0.48$:weak.	
									I_γ : measured intensities of 1970FiZZ and 1971AhZX do not agree: $I_\gamma=3.0$ (1970FiZZ), $I_\gamma=11.4$ (1971AhZX). $I_\gamma=4.0$ 16 from $\text{Ice}(K)=0.48$ 19 and $\alpha(K)=0.119$.	
$^{x}382.2$	1.0									
$^{x}394.4$	1.1									
$^{x}398.5$ 2	4.6 5					(M1)		0.124	$\alpha(K) = 0.103; \alpha(L) = 0.0164; \alpha(M) = 0.00375; \alpha(N+..) = 0.00114$	
									Mult.: from $\alpha(K)\exp=0.08$ 3 (1970FiZZ).	
$^{x}402.6$	2.3									
$^{x}406.9$ 2	6.5 7					(M1)		0.118	$\alpha(K) = 0.0976; \alpha(L) = 0.0155; \alpha(M) = 0.00354; \alpha(N+..) = 0.00108$	
									Mult.: from $\alpha(K)\exp=0.10$ 2.	
$^{x}418.8$ 2	3.8 4					(M1+E2)	0.6 4	0.090 17	$\alpha(K) = 0.073$ 15; $\alpha(L) = 0.0126$ 23; $\alpha(M) = 0.0029$ 5; $\alpha(N+..) = 0.00088$ 10	
									δ : from $\alpha(K)\exp=0.074$ 14.	
$^{x}426.8$	2.0									
$^{x}431.4$ 7	5.4					(M1+E2)			I_γ : from 1971AhZX .	
									Mult.: from $\alpha(K)\exp\approx 0.046$.	
$^{x}446.1$	0.9									
$^{x}449.8$	1.5									
$^{x}453.0$	0.7									
$^{x}464.9$	1.5									
$^{x}486.4$	1.2									
$^{x}489.0$	2.9									
$^{x}501.0$	1.8									
$^{x}507.0$ 2	9.7 10	729.4	(5/2 $^{-}$, 7/2 $^{-}$)	222.4	5/2 $^{-}$	(M1)		0.0664	$\alpha(K) = 0.0549; \alpha(L) = 0.00864$	
									Mult.: from $\alpha(K)\exp=0.036$.	
$^{x}513.1$ 2	13.1 14					(M1+E2)	1.5 6	0.035 5	$\alpha(K) = 0.028$ 5; $\alpha(L) = 0.0054$ 7	
									δ : from $\alpha(K)\exp=0.028$ 5.	
$^{x}517.4$	3.1									
$^{x}533.0$	1.1									
$^{x}539.2$ 2	18.6 19					(M1+E2)		0.038 19	$\alpha(K) = 0.031$ 16; $\alpha(L) = 0.0054$ 24	
									Mult.: from $\alpha(K)\exp\approx 0.030$.	
$^{x}544.9$	2.0									
$^{x}550.4$ 2	16.7 17									
$^{x}576.1$	2.0									
$^{x}590.0$	2.2									
$^{x}601.3$	2.0	729.4	(5/2 $^{-}$, 7/2 $^{-}$)	127.9	3/2 $^{-}$					
$^{x}627.2$ 2	8.0 8									
$^{x}638.5$ & 2	4.2 4									

From ENSDF

¹⁸⁵₇₆Ir ε decay 1962Ha24,1970FiZZ,1971AhZX (continued) $\gamma(^{185}\text{Os})$ (continued)

E $_{\gamma}^{\dagger}$	I $_{\gamma}^{\ddagger b}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$	Comments
^x 642.8	4.1					
^x 646.2	2	17.7	18			
^x 666.1	2	7.2	7			
^x 670.9		6.1				
^x 681.5		3.2				
691.9	6.0	729.4	(5/2 ⁻ ,7/2 ⁻)	37.4	3/2 ⁻	
^x 695.4	2.1					
^x 710.6	1.7					
^x 726.5	1.1					
^x 743.2	3.6					
^x 745.7	11	8.1				E $_{\gamma}$: from 1962Ha24.
^x 759.2	2.0					
^x 761.2	2.2					
^x 785.4	1.4					
^x 796.4	2.0					
^x 798.2	2.0					
^x 807.3	10.6					
^x 817.1	0.7					
^x 823.9	0.5					
^x 828.3	2.0					
^x 850.8	2.5					
^x 855.7	1.1					
^x 860.6	0.5					
^x 870.8	0.9					
^x 913.9	10.6					
^x 925.0	4.4					
^x 954.9	1.5					
^x 959.0	3.2					
^x 966.2	2.5					
^x 978.2	1.6					
^x 997.2	1.7					
^x 1016.8	0.5					
^x 1038.7						
1040.7		1769.8	5/2 ⁺	729.4	(5/2 ⁻ ,7/2 ⁻)	I $_{\gamma}(1038.7\gamma+1040.7\gamma)=6.8$ was measured.
^x 1064.2	2.8					
^x 1076.2	1.2					
^x 1079.3	1.4					
^x 1094.4	1.2					
^x 1101.8	0.9					
^x 1127.9	2.0					
^x 1153.9	1.0					
^x 1157.5	1.0					
^x 1165.9	1.0					
1178.1	1.0	1907.6	5/2 ⁺	729.4	(5/2 ⁻ ,7/2 ⁻)	

¹⁸⁵Ir ε decay 1962Ha24,1970FiZZ,1971AhZX (continued) $\gamma(^{185}\text{Os})$ (continued)

E_γ^{\dagger}	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	Comments
^x 1190.4	2.0						
^x 1205.3	0.4						
^x 1221.2	1.2						
^x 1226.1	2.3						
^x 1230.6	1.8						
^x 1237.0	1.2						
^x 1247.2	1.8						
^x 1255.6	1.2						
^x 1264.4	3.1						
^x 1266.6	3.1						
^x 1299.7	6.3						
^x 1310.9	12.3						
^x 1318.2	4.3						
^x 1325.2	4.1						
^x 1345.9	1.8						
^x 1359.1	2.7						
^x 1361.8	2.3						
^x 1366.6	2.5						
^x 1384.6	2.7						
^x 1390.9	1.2						
^x 1409.1	1.6						
1418.1	7.7	1769.8	5/2 ⁺	351.7	7/2 ⁻		
^x 1441.3	7.7						
^x 1463.1	2.3						
^x 1465.8	2.1						
^x 1478.3	1.8						
^x 1512.0	0.5						
^x 1568.3	3.6						
1571.6	3.8	1769.8	5/2 ⁺	198.1	7/2 ⁻		
^x 1579.9	1.4						
^x 1625.9	2.8						
1641.8	16.6	1769.8	5/2 ⁺	127.9	3/2 ⁻		
1652.2	0.7	2003.8	5/2 ⁺	351.7	7/2 ⁻		
1668.3	52.0	1866.3	5/2 ⁺	198.1	7/2 ⁻	E1	Mult.: from $\alpha(K)\exp=0.00048$ 11 (1981Sp06).
1685.0	4.3	1907.6	5/2 ⁺	222.4	5/2 ⁻		
^x 1698.5	2.3						
^x 1701.0	2.8						
1709.6	4.9	1907.6	5/2 ⁺	198.1	7/2 ⁻		
1732.2	39.4	1769.8	5/2 ⁺	37.4	3/2 ⁻	E1	Mult.: from $\alpha(K)\exp=0.00072$ 15 (1981Sp06).
1738.4	34.4	1866.3	5/2 ⁺	127.9	3/2 ⁻	E1	Mult.: from $\alpha(K)\exp=0.00096$ 21 (1981Sp06).
^x 1757.6	13.0						
^x 1763.1	1.4						
1768.0 ^e	1.0	1866.3	5/2 ⁺	97.4	5/2 ⁻		
1779.8 ^d	5.4 ^d	1907.6	5/2 ⁺	127.9	3/2 ⁻		Possible doublet.

¹⁸⁵₇₆Ir ε decay 1962Ha24, 1970FiZZ, 1971AhZX (continued) $\gamma(^{185}\text{Os})$ (continued)

E_γ^\dagger	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	Comments
1779.8 ^{de}	5.4 ^d	2003.8	5/2 ⁺	222.4	5/2 ⁻		
x1794.2	0.5						
1804.9 ^e	5.9	2003.8	5/2 ⁺	198.1	7/2 ⁻	E1	Mult.: from $\alpha(K)\exp<0.001$ (1981Sp06).
1828.8	144	1866.3	5/2 ⁺	37.4	3/2 ⁻	E1	Mult.: from $\alpha(K)\exp=0.00047$ 10 (1981Sp06).
x1854.7	1.0						
1870.0	17.2	1907.6	5/2 ⁺	37.4	3/2 ⁻	E1	Mult.: from $\alpha(K)\exp=0.00039$ 9 (1981Sp06).
1876.0	6.4	2003.8	5/2 ⁺	127.9	3/2 ⁻	E1	Mult.: from $\alpha(K)\exp=0.00021$ 19 (1981Sp06).
x1882.5	2.1						
x1893.2	1.0						
x1901.3	0.5						
x1920.3	0.5						
x1924.0	1.0						
x1938.0	0.5						
x1942.3	0.5						
x1948.4	1.7						
1966.5	1.4	2003.8	5/2 ⁺	37.4	3/2 ⁻		
x1978.4	0.5						
x1982.4	0.2						
x1996.6	0.5						
x2014.4	0.2						
x2026.2	0.7						
x2044.4	1.4						
x2049.7	4.9						

[†] From 1962Ha24 (conv. electrons by magnetic spectrometer), 1970FiZZ (γ), 1971AhZX (γ). All I_γ and E_γ values given without uncertainties are from 1971AhZX, except for those high-energy E1 transitions determined by 1981Sp06.

[‡] From 1970FiZZ and 1971AhZX. See 1974E108 for comparison of measured intensities. Relative intensities are normalized to 60 for 97.4γ E2 to give $\alpha(L2)=1.58$.

[#] From I_γ and ce data of 1962Ha24, unless otherwise indicated, normalized to $\alpha(L2)(97.4\gamma)=1.58$. Uncertainties on Ice's are $\approx 20\%$ for the strong lines, and $\approx 40\%$ for the weak ones (1962Ha24).

^④ Derived by evaluator from ce data of 1962Ha24 using the minimization method and computer code of 1980Ry04. Evaluator assigned uncertainties to Ice following authors' guidelines.

& Observed by 1970FiZZ only.

^a Observed in ce spectrum by 1962Ha24 only.

^b For absolute intensity per 100 decays, multiply by 0.07 I .

^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.

^{185}Ir ε decay 1962Ha24,1970FiZZ,1971AhZX (continued) **$\gamma(^{185}\text{Os})$ (continued)**

^e Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

185 Ir ε decay 1962Ha24, 1970FiZZ, 1971AhZX

