

Adopted Levels, Gammas

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

Q(β⁻)=-2.47×10³ 3; S(n)=6624.5 3; S(p)=5874 5; Q(α)=3019 5 [2012Wa38](#)

Note: Current evaluation has used the following Q record.

Q(β⁻)=-2474 28; S(n)=6624.53 28; S(p)=5872 4; Q(α)=3020 5 [2003Au03](#)

Other Reactions:

¹⁸⁴W(p,π⁻): [1988Ab05](#).

¹⁹⁷Au(p,X): [1990Wo12](#).

¹⁸⁵Os Levels

≥11/2 members of the 9/2[624] and 11/2[615] rotational bands are significantly mixed by the Coriolis interaction ([1975So01](#)).

Cross Reference (XREF) Flags

A	¹⁸⁵ Ir ε decay	D	¹⁸⁷ Os(p,t)
B	W(α,xnγ)	E	(HI,xnγ)
C	¹⁸⁴ Os(n,γ) E=th		

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0.0 ^a	1/2 ⁻	93.6 d 5	ABCDE	%ε=100 J ^π : L=0 in (p,t), J ^π (¹⁸⁷ Os)=1/2 ⁻ . T _{1/2} : from 1957Jo09 . Other values: 94.7 d 28 (1947Go01), 93.4 d 18 (1958Fo47). Others: 1948Ka08 , 1951Tu09 , 1960Su13 , 1963Gr22 .
37.45 ^{&6}	3/2 ⁻		ABCDE	J ^π : 37.4γ M1+E2 to 1/2 ⁻ , band structure.
97.47 ^{ap6}	5/2 ⁻		ABCdE	XREF: d(98). J ^π : 60.1γ M1+E2 to 3/2 ⁻ , 97.5γ E2 to 1/2 ⁻ , band structure.
102.37 ^{cp11}	7/2 ⁻	3.0 μs 4	AB dE	XREF: d(98). J ^π : energy systematics of 7/2[503] Nilsson orbital in other odd-A Os isotopes. See comments on 666 level for J ^π assignment. T _{1/2} : from ¹⁸⁵ Ir ε decay (1970FiZZ). Other: ≈ 3 μs from ¹⁸³ W(α,2nγ) (1975So01).
127.95 ^{#7}	3/2 ⁻		ABCDE	J ^π : 128.0γ M1 to 1/2 ⁻ , 90.5γ M1(+E2) to 3/2 ⁻ . n3/2[512] rotational band head.
198.19 ^{&6}	7/2 ⁻		ABCDE	J ^π : 101.0γ M1+E2 to 5/2 ⁻ , 160.5γ E2 to 3/2 ⁻ , band structure.
222.41 ^{@7}	5/2 ⁻		ABCDE	J ^π : 24.2γ M1+E2 to 7/2 ⁻ , 185.1γ M1(+E2) to 3/2 ⁻ .
260.64 ^{b10}	9/2 ⁻		ABCDE	XREF: D(257). J ^π : 158.3γ M1+E2 to 7/2 ⁻ , band structure.
275.53 ^{d12}	11/2 ⁺	0.78 μs 5	AB DE	J ^π : 126.9γ M1+E2 from 9/2 ⁺ , band head of ν11/2[615] rotational band. The γ transitions from the 1176.7 state of the band based on the 402.4 level to the 414.2, 590.3, 776.3 and 1025.0 states of this band and the band structures establish the the 275.5 state and 402.4 state as the band heads of the 11/2 ⁺ [615] and 9/2 ⁺ [624], respectively. T _{1/2} : from ¹⁸⁵ Ir ε decay (1970FiZZ). Other: T _{1/2} ≈0.7 μs from ¹⁸³ W(α,2nγ) (1975So01).
317.86 ^{a7}	9/2 ⁻		ABC E	J ^π : 119.7γ M1+E2 to 7/2 ⁻ , 220.3γ E2 to 5/2 ⁻ , band structure.
351.70 ^{#7}	7/2 ⁻		ABCDE	J ^π : 254.2γ M1+E2 to 5/2 ⁻ , 33.8γ (M1) to 9/2 ⁻ ; band structure.
402.40 ^{fq11}	9/2 ⁺		AB dE	XREF: d(410). J ^π : 300.1γ E1 to 7/2 ⁻ state of 7/2 ⁻ [503] band, energy systematics of 9/2[624] Nilsson orbital in other odd-A Os isotopes. See also, the comment for J ^π argument of the 275.5 state.

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Adopted Levels, Gammas (continued)

¹⁸⁵Os Levels (continued)

E(level) [†]	J ^{π‡}	XREF	Comments
406.60 24	(1/2 ⁻ ,3/2)	C	J ^π : populated by primary γ ray in (n,γ); γ to 1/2 ⁻ and 5/2 ⁻ states. 1/2 ⁻ ,1/2[521] assignment has been suggested in (n,γ) by 1974Pr15.
414.18 ^{eq} 12	13/2 ⁺	B dE	XREF: d(410). J ^π : D to 11/2 ⁺ state; band structure.
448.69 ^c 10	11/2 ⁻	B E	J ^π : D to 9/2 ⁻ , Q to 7/2 ⁻ ; band structure.
468.79 21	(1/2 ⁻ ,3/2)	C	J ^π : populated by primary γ ray in (n,γ); γ to 1/2 ⁻ and 5/2 ⁻ states. 3/2 ⁻ ,1/2[521] assignment has been suggested in (n,γ) by 1974Pr15.
476.53 ^{&} 9	11/2 ⁻	B E	J ^π : D to 9/2 ⁻ , Q to 7/2 ⁻ ; band structure.
505.25 [@] 15	9/2 ⁻	CDE	XREF: D(519). J ^π : γ to 5/2 ⁻ and 7/2 ⁻ states of 1/2 ⁻ [510] band; band structure. However, J=5/2 ⁻ ,1/2[521] assignment was suggested in (n,γ) by 1974Pr15.
539.4? 6		C	
590.31 ^d 11	15/2 ⁺	B E	J ^π : D to 13/2 ⁺ , Q to 11/2 ⁺ ; band structure.
591.25 ^g 12	11/2 ⁺	B E	J ^π : D to 13/2 ⁺ state of 11/2 ⁺ [615] band, γ to 9/2 ⁺ ; band structure.
599 7	(3/2 ⁻)	D	E(level): K=3/2 band. Possible K-2 γ-vibrational state based on 1/2[510]. J ^π : Large (p,t) cross section expected for coupling the 2 ⁺ , γ-vibration, of even core to form the K=3/2 and 5/2 γ band.
626.7? 5		C	
642.24 25	(3/2 ⁻ ,5/2 ⁺)	C	J ^π : populated by primary γ ray in (n,γ); γ to 3/2 ⁻ and, possibly, to 7/2 ⁻ state.
646.28 24		C	J ^π : 7/2 ⁻ ,1/2[521] assignment was suggested in (n,γ) by 1974Pr15.
660.26 ^a 9	13/2 ⁻	B E	J ^π : 211.4γ M1+E2 to 11/2 ⁻ , Q to 9/2 ⁻ ; band structure. I _γ (399.6γ)/I _γ (342.4γ)exp=0.32 3 agrees with a value of 0.3, calculated with Coriolis-mixed Nilsson wave functions (1975So01).
666.23 ^b 9	13/2 ⁻	B E	J ^π : The transition of 451γ Q from 1117 level of 1/2 ⁻ [510]band, and the 348.3γ to the 318 level of of 1/2 ⁻ [510]band, establishes the J ^π of this state as 13/2 ⁻ . D to 11/2 ⁻ , Q to 9/2 ⁻ and band structure consequently establishes J ^π =7/2 ⁻ of the bandhead at 102 level. I _γ (348.3γ)/I _γ (405.5γ)exp=0.26 6 is in fair agreement with a value of 0.44, calculated with Coriolis-mixed Nilsson wave functions (1975So01).
679 7		D	
706.78 [#] 9	11/2 ⁻	B E	J ^π : γ to 7/2 ⁻ and 9/2 ⁻ states of 1/2 ⁻ [510] band; band structure.
729.32 12	(5/2 ⁻ ,7/2 ⁻)	A	J ^π : 377.6γ (M1) to (7/2) ⁻ , 507.0γ (M1) to (5/2) ⁻ .
746.5 3		C	J ^π : 5/2 ⁻ assignment was suggested in (n,γ) by 1974Pr15.
776.33 ^e 11	17/2 ⁺	B E	J ^π : D to 15/2 ⁺ , Q to 13/2 ⁺ ; band structure.
781.93 ^f 12	13/2 ⁺	B E	J ^π : γ to 9/2 ⁺ and 11/2 ⁺ states; band structure.
797.1 7	1/2,3/2,5/2 ⁺	C	J ^π : populated by primary γ ray in (n,γ); γ to 3/2 ⁻ state.
802 7	(5/2 ⁻)	D	E(level): K=5/2 band head. Possible K+2 γ-vibrational state coupled to 1/2[510]. J ^π : See J ^π comment for the 599 state.
843.29 22	(3/2 ⁻ ,5/2 ⁺)	C	J ^π : populated by primary γ rays in (n,γ); γ to 5/2 ⁻ and 7/2 ⁻ states.
864.95 ^{&} 10	15/2 ⁻	B E	J ^π : D to 13/2 ⁻ , Q to 11/2 ⁻ ; band structure.
879.6 7	1/2,3/2,5/2 ⁺	C	J ^π : populated by primary γ ray in (n,γ); γ to 3/2 ⁻ state.
903.00 [@] 21	13/2 ⁻	E	J ^π : Q to 9/2 ⁻ ; γ to 11/2 ⁻ state of 1/2 ⁻ [510] band; band structure.
907.34 ^c 10	15/2 ⁻	B E	J ^π : D to 13/2 ⁻ , Q to 11/2 ⁻ ; band structure.
965.2 4	(1/2,3/2)	C	J ^π : populated by primary γ ray in (n,γ); γ to 1/2 ⁻ and 3/2 ⁻ states.
1024.61 ^d 11	19/2 ⁺	B E	J ^π : D to 17/2 ⁺ , Q to 15/2 ⁺ ; band structure.
1024.96 ^g 14	15/2 ⁺	B E	J ^π : γ to 11/2 ⁺ and 13/2 ⁺ states; band structure.
1061.5 7	1/2,3/2,5/2 ⁺	C	J ^π : populated by primary γ ray in (n,γ). May be the same as the 1/2 ⁻ level observed at 1070 keV in (p,t).
1070 ⁿ 7	1/2 ⁻	D	J ^π : L=0 in (p,t); J ^π (¹⁸⁷ Os)=1/2 ⁻ .
1116.4 4	(3/2 ⁻ ,5/2 ⁺)	C	J ^π : populated by primary γ ray in (n,γ); γ to 3/2 ⁻ and 7/2 ⁻ states.
1116.90 ^a 10	17/2 ⁻	B E	J ^π : γ to 15/2 ⁻ , Q to 13/2 ⁻ ; band structure.
1123 ⁿ 7	(3/2 ⁻)	D	
1173.52 ^b 11	17/2 ⁻	B E	J ^π : D to 15/2 ⁻ , Q to 13/2 ⁻ ; band structure.

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Adopted Levels, Gammas (continued)

^{185}Os Levels (continued)					
E(level) [†]	J^{π} [‡]	$T_{1/2}$	XREF	Comments	
1176.73 ^f 12	17/2 ⁺		E	J^{π} : γ to 13/2 ⁺ and 15/2 ⁺ states; band structure. Additional information 1.	
1179.6 4	(1/2,3/2,5/2 ⁺)		C	J^{π} : populated by primary γ ray in (n, γ).	
1179.62 [#] 10	15/2 ⁻		B E	J^{π} : γ to 11/2 ⁻ , 13/2 ⁻ and 15/2 ⁻ states of 1/2 ⁻ [510] band; band structure.	
1213 ^o 7	1/2 ⁻		CD	J^{π} : L=0 in (p,t); $J^{\pi}(^{187}\text{Os})=1/2-$.	
1222.09 ^e 12	21/2 ⁺		B E	J^{π} : D to 19/2 ⁺ , Q to 17/2 ⁺ ; band structure.	
1275 ^o 7	(3/2 ⁻)		D		
1322.03 ⁱ 12	17/2 ⁺		B E	J^{π} : 731.4 γ D to 15/2 ⁺ , 907.8 γ to 13/2 ⁺ , which are members of 11/2 ⁺ [615] band.	
1353.72 ^{&} 11	19/2 ⁻		B E	J^{π} : D to 17/2 ⁻ , Q to 15/2 ⁻ ; band structure.	
1354	1/2,3/2,5/2 ⁺		C	J^{π} : populated by primary γ ray in (n, γ).	
1403.72 [@] 25	17/2 ⁻		E	J^{π} : γ to 15/2 ⁻ state of 1/2 ⁻ [510] band; band structure.	
1419	1/2,3/2,5/2 ⁺		C	J^{π} : populated by primary γ ray in (n, γ).	
1442.04 14	(17/2 ⁺)		E	J^{π} : γ to 13/2 ⁺ and 19/2 ⁺ .	
1461.52 ^c 11	19/2 ⁻		B E	J^{π} : D to 17/2 ⁻ , Q to 15/2 ⁻ ; band structure.	
1507	1/2,3/2,5/2 ⁺		C	J^{π} : populated by primary γ ray in (n, γ).	
1519.33 ^h 13	19/2 ⁺		B E	J^{π} : 742.9 γ D to 17/2 ⁺ , 929.1 γ Q to 15/2 ⁺ , 494.9 γ to 19/2 ⁺ states, which are members of 11/2 ⁺ [615] band.	
1541	1/2,3/2,5/2 ⁺		C	J^{π} : populated by primary γ ray in (n, γ).	
1552.25 ^g 14	19/2 ⁺		B E	J^{π} : γ to 15/2 ⁺ and 17/2 ⁺ states; band structure.	
1565.60 ^d 12	23/2 ⁺		B E	J^{π} : D to 21/2 ⁺ , Q to 19/2 ⁺ ; band structure.	
1591.27 ^j 11	19/2 ⁺		B E	J^{π} : 566.8 γ to 19/2 ⁺ , 814.9 γ D to 17/2 ⁺ , 1001.1 γ to 15/2 ⁺ , which are members of 11/2 ⁺ [615] band.	
1647.20 ^f 12	21/2 ⁺		E	J^{π} : γ to 17/2 ⁺ state; γ to the 17/2 ⁺ , 19/2 ⁺ and 21/2 ⁺ states of the 11/2 ⁺ [615] band; band structure.	
1670.37 ^a 13	21/2 ⁻		B E	J^{π} : Q to 17/2 ⁻ ; band structure.	
1733.3 6	(21/2 ⁺)		E	J^{π} : γ to 17/2 ⁺ and 21/2 ⁺ .	
1744.36 ^e 12	25/2 ⁺		B E	J^{π} : Q to 21/2 ⁺ ; band structure.	
1745.52 ⁱ 12	21/2 ⁺		E	J^{π} : γ to 17/2 ⁺ , 19/2 ⁺ and 21/2 ⁺ states, which are members of 11/2 ⁺ [615] band.	
1755.96 [#] 11	19/2 ⁻		B E	J^{π} : γ to 17/2 ⁻ and 19/2 ⁻ states of 1/2 ⁻ [510] band; band structure.	
1769.38 ^b 13	21/2 ⁻		B E	J^{π} : D to 19/2 ⁻ , Q to 17/2 ⁻ ; band structure.	
1769.76 12	5/2 ⁺		A	J^{π} : 1732.2 γ E1 to 3/2 ⁻ , 1418.1 γ to 7/2 ⁻ .	
1844.46 ^k 12	21/2 ⁺		B E	J^{π} : γ to 17/2 ⁺ , 19/2 ⁺ and 21/2 ⁺ states; band structure.	
1866.37 18	5/2 ⁺		A	J^{π} : 1829 γ E1 to 3/2 ⁻ ; 1668 γ E1 to 7/2 ⁻ .	
1907.58 15	5/2 ⁺		A	J^{π} : 1870 γ E1 to 3/2 ⁻ ; 1710 γ to 7/2 ⁻ ; $\gamma\gamma(\theta)$.	
1929.50 ^{&} 13	23/2 ⁻		B E	J^{π} : γ to 21/2 ⁻ , Q to 19/2 ⁻ ; band structure.	
1937.04 15	(19/2 ⁺)		E	J^{π} : D to 17/2 ⁺ .	
1966.22 14	(21/2 ⁺)		E	J^{π} : γ to 17/2 ⁺ , 19/2 ⁺ states.	
1981.07 15	(21/2 ⁺)		E	J^{π} : γ to (17/2 ⁺), (21/2 ⁺) states.	
1987.13 ^l 11	23/2 ⁻	5.5 ns 10	B E	J^{π} : 142.7 γ D to 21/2 ⁺ , 231.2 γ Q to 19/2 ⁻ , 633.5 γ to 19/2 ⁻ . $T_{1/2}$: From (α , xn γ) 1996Bb29.	
1994.1 [@] 4	21/2 ⁻		E	J^{π} : Q to 17/2 ⁻ ; band structure.	
2000.50 ^h 12	23/2 ⁺		E	J^{π} : γ to 19/2 ⁺ and 21/2 ⁺ ; band structure.	
2003.43 15	5/2 ⁺		A	J^{π} : 1876 γ E1 to 3/2 ⁻ ; 1805 γ E1 to 7/2 ⁻ ; $\gamma\gamma(\theta)$.	
2034.35 17	(21/2 ⁺)		E	J^{π} : γ to (17/2 ⁺).	
2040.2 8	(21/2 ⁺)		E	J^{π} : γ to (19/2 ⁺).	
2095.35 ^c 12	23/2 ⁻		B E	J^{π} : D to 21/2 ⁻ , Q to 19/2 ⁻ ; band structure.	
2108.07 ^j 12	23/2 ⁺		E	J^{π} : γ to 19/2 ⁺ , 21/2 ⁺ ; band structure.	
2157.1 8	(21/2 ⁻)		E	J^{π} : γ to (19/2 ⁺).	
2164.44 ^g 17	(23/2 ⁺)		E	J^{π} : γ to 19/2 ⁺ state; band structure.	

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Adopted Levels, Gammas (continued) ^{185}Os Levels (continued)

E(level) [†]	J ^π [‡]	XREF	Comments
2197.81 15	(23/2 ⁻)	E	J ^π : γ to 19/2 ⁻ , (21/2 ⁺), 23/2 ⁻ states.
2204.15 ^d 13	27/2 ⁺	B E	J ^π : Q to 23/2 ⁺ ; band structure.
2249.29 ^f 13	25/2 ⁺	E	J ^π : γ to 21/2 ⁺ state; γ to the 21/2 ⁺ and 23/2 ⁺ states of the 11/2 ⁺ [615] band; band structure.
2264.27 ^m 13	25/2 ⁻	B E	J ^π : D to 23/2 ⁻ ; band structure.
2280.78 ⁱ 13	25/2 ⁺	E	J ^π : γ to 21/2 ⁺ , 23/2 ⁺ ; band structure.
2304.97 ^a 17	25/2 ⁻	B E	J ^π : Q to 21/2 ⁻ ; band structure.
2350.68 ^e 13	29/2 ⁺	B E	J ^π : Q to 25/2 ⁺ ; band structure.
2386.77 ^k 13	25/2 ⁺	E	J ^π : γ to 21/2 ⁺ , 23/2 ⁺ ; band structure.
2402.9 [#] 4	(23/2 ⁻)	E	J ^π : γ to 19/2 ⁻ ; band structure.
2435.14 ^b 15	25/2 ⁻	B E	J ^π : D to 23/2 ⁻ , Q to 21/2 ⁻ ; band structure.
2511.38 16	(25/2 ⁺)	E	J ^π : γ to 21/2 ⁺ , 23/2 ⁺ , 25/2 ⁺ states.
2551.98 ^l 13	27/2 ⁻	E	J ^π : D to 25/2 ⁻ , Q to 23/2 ⁻ ; band structure.
2571.38 ^{&} 14	27/2 ⁻	B E	J ^π : Q to 23/2 ⁻ ; band structure.
2575.40 ^h 13	27/2 ⁺	E	J ^π : γ to 23/2 ⁺ and 25/2 ⁺ ; band structure.
2602.18 13	27/2 ⁻	B E	J ^π : γ to 23/2 ⁻ , 25/2 ⁻ states.
2654.3 [@] 5	(25/2 ⁻)	E	J ^π : γ to 21/2 ⁻ ; band structure.
2679.05 ^j 13	27/2 ⁺	E	J ^π : γ to 23/2 ⁺ , 25/2 ⁺ ; band structure.
2790.17 ^c 15	27/2 ⁻	B E	J ^π : γ to 25/2 ⁻ , Q to 23/2 ⁻ ; band structure.
2848.58 ^m 14	29/2 ⁻	E	J ^π : D to 27/2 ⁻ , Q to 25/2 ⁻ ; band structure.
2885.44 ⁱ 13	(29/2 ⁺)	E	J ^π : γ to 25/2 ⁺ , 27/2 ⁺ ; band structure.
2898.67 17	(29/2 ⁻)	E	J ^π : D to 27/2 ⁻ .
2928.67 ^d 14	31/2 ⁺	B E	J ^π : Q to 27/2 ⁺ ; band structure.
2941.73 14	(27/2)	B E	J ^π : D to 27/2 ⁻ ; γ to 25/2 ⁻ .
2969.06 ^f 14	(29/2 ⁺)	E	J ^π : γ to 25/2 ⁺ state; γ to the 25/2 ⁺ and 27/2 ⁺ states of the 11/2 ⁺ [615] band; band structure.
2987.38 ^k 15	(29/2 ⁺)	E	J ^π : γ to 25/2 ⁺ ; band structure.
2989.07 ^a 20	29/2 ⁻	B E	J ^π : Q to 25/2 ⁻ ; band structure.
3037.96 ^e 14	33/2 ⁺	B E	J ^π : Q to 29/2 ⁺ ; band structure.
3067.2 [#] 5	(27/2 ⁻)	E	J ^π : γ to (23/2 ⁻); band structure.
3138.04 ^b 18	(29/2 ⁻)	B E	J ^π : γ to 25/2 ⁻ ; band structure.
3139.97 ^l 14	31/2 ⁻	E	J ^π : γ to 29/2 ⁻ , Q to 27/2 ⁻ ; band structure.
3213.33 ^{&} 17	31/2 ⁻	E	J ^π : γ to 29/2 ⁻ , Q to 27/2 ⁻ ; band structure.
3219.65 ^h 14	(31/2 ⁺)	E	J ^π : γ to 27/2 ⁺ and 29/2 ⁺ ; band structure.
3225.32 17	31/2 ⁻	B E	J ^π : D to 29/2 ⁻ ; Q to 27/2 ⁻ .
3309.32 ^j 14	(31/2 ⁺)	E	J ^π : γ to 27/2 ⁺ , 29/2 ⁺ ; band structure.
3332.7 [@] 6	(29/2 ⁻)	E	J ^π : γ to (25/2 ⁻); band structure.
3377.42 15	(29/2 ⁺)	E	J ^π : D to 29/2 ⁻ ; Q to (25/2 ⁺).
3461.07 ^m 15	33/2 ⁻	E	J ^π : γ to 31/2 ⁻ , Q to 29/2 ⁻ ; band structure.
3511.77 ^c 18	(31/2 ⁻)	E	J ^π : γ to 27/2 ⁻ ; band structure.
3537.12 18	(31/2 ⁺)	E	J ^π : M1+E2 to (29/2 ⁺).
3544.62 19	(33/2)	E	J ^π : D to 31/2 ⁻ .
3552.41 ⁱ 16	(33/2 ⁺)	E	J ^π : γ to 29/2 ⁺ ; band structure.
3663.4 ^k 11	(33/2 ⁺)	E	J ^π : γ to (29/2 ⁺); band structure.
3694.37 ^a 22	33/2 ⁻	B E	J ^π : γ to 29/2 ⁻ ; band structure.
3702.9 ^l 6	35/2 ⁻	E	J ^π : γ to 33/2 ⁻ , Q to 31/2 ⁻ ; band structure.
3718.80 ^d 15	35/2 ⁺	B E	J ^π : Q to 31/2 ⁺ ; band structure.
3787.53 ^e 16	37/2 ⁺	B E	J ^π : Q to 33/2 ⁺ ; band structure.
3807.11 ^f 17	(33/2 ⁺)	E	J ^π : γ to (29/2 ⁺) state; γ to the 29/2 ⁺ and 31/2 ⁺ states of the 11/2 ⁺ [615] band; band structure.
3816.84 ^b 21	(33/2 ⁻)	B E	J ^π : γ to (29/2 ⁻); band structure.
3872.22 ^{&} 19	(35/2 ⁻)	E	J ^π : γ to 31/2 ⁻ ; band structure.

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Adopted Levels, Gammas (continued)

¹⁸⁵Os Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
3876.96 20	(33/2)		E	J ^π : D to (31/2 ⁺).
3889.38 20	(33/2)		E	J ^π : D to (31/2 ⁺); γ to 31/2 ⁻ .
3893.42 19	(35/2) ⁻		E	J ^π : γ to 31/2 ⁻ .
3904.55 ^h 15	(35/2) ⁺		E	J ^π : γ to 31/2 ⁺ and 33/2 ⁺ ; band structure.
4011.15 ^j 15	(35/2) ⁺		E	J ^π : γ to (31/2) ⁺ , 33/2 ⁺ ; band structure.
4101.17 ^m 18	(37/2) ⁻		E	J ^π : γ to 33/2 ⁻ , 35/2 ⁻ ; band structure.
4164.93 21	(35/2)		E	J ^π : D to (33/2).
4209.01 22			E	
4246.91 ⁱ 19	(37/2) ⁺		E	J ^π : γ to 33/2 ⁺ ; band structure.
4277.81 23	(35/2)		E	J ^π : D to (33/2).
4300.1 3	(35/2)		E	J ^π : D to (33/2).
4304.5 ^l 6	(39/2) ⁻		E	J ^π : γ to 35/2 ⁻ ; band structure.
4428.4 ^a 11	(37/2) ⁻		E	J ^π : γ to 33/2 ⁻ ; band structure.
4432.33 23	(37/2)		E	J ^π : γ to (35/2).
4528.40 ^d 18	39/2 ⁺		B E	J ^π : Q to 35/2 ⁺ ; band structure.
4536.32 ^{&} 22	(39/2) ⁻		E	J ^π : γ to (35/2) ⁻ ; band structure.
4553.93 ^e 19	41/2 ⁺		B E	J ^π : Q to 37/2 ⁺ ; band structure.
4581.13 25	(39/2)		E	J ^π : Q to (35/2).
4630.4 11	(39/2) ⁻		E	J ^π : γ to (35/2) ⁻ .
4647.20 ^h 16	(39/2) ⁺		E	J ^π : γ to 35/2 ⁺ and 37/2 ⁺ ; band structure.
4732.23 25	(39/2)		E	J ^π : γ to (35/2), (37/2) states.
4792.78 ^m 21	(41/2) ⁻		E	J ^π : γ to (37/2) ⁻ ; band structure.
4882.52 24			E	
4976.5 ^l 6	(43/2) ⁻		E	J ^π : γ to (39/2) ⁻ ; band structure.
5007.1 3	(41/2)	18 ns 2	E	J ^π : γ to (39/2). T _{1/2} : from (HI,xnγ) (2004Sh08). K=41/2 isomer. Possible configurations with 7 quasiparticles: ν(1/2[510]1/2[521]7/2[503]9/2[624]11/2[615])⊗π(5/2[402]7/2[404]); or ν(1/2[510]1/2[521]3/2[512]9/2[624]11/2[615])⊗π(7/2[404]9/2[514]); or ν(1/2[521]3/2[512]7/2[503]9/2[624]11/2[615])⊗π(1/2[541]9/2[514]).
5204.4 ^a 15	(41/2) ⁻		E	J ^π : γ to (37/2) ⁻ ; band structure.
5235.32 ^{&} 24	(43/2) ⁻		E	J ^π : γ to (39/2) ⁻ ; band structure.
5274.40 ^d 21	(43/2) ⁺		E	J ^π : γ to 39/2 ⁺ ; band structure.
5285.43 ^e 22	45/2 ⁺		E	J ^π : Q to 41/2 ⁺ ; band structure.
5426.4 15			E	
5432.0 3			E	
5542.08 ^m 23	(45/2) ⁻		E	J ^π : γ to (41/2) ⁻ ; band structure.
5713.4 ^l 7	(47/2) ⁻		E	J ^π : γ to (43/2) ⁻ ; band structure.
5785.8 3			E	
5962.3 3			E	
6017.70 ^d 23	(47/2) ⁺		E	J ^π : γ to (43/2) ⁺ ; band structure.
6046.23 ^e 24	(49/2) ⁺		E	J ^π : γ to 45/2 ⁺ ; band structure.
6203.3 3			E	
6285.5 3			E	
6338.78 ^m 25	(49/2) ⁻		E	J ^π : γ to (45/2) ⁻ ; band structure.
6349.8 3			E	
6506.5 ^l 7	(51/2) ⁻		E	J ^π : γ to (47/2) ⁻ ; band structure.
6580.1 3			E	
6586.6 3			E	
6803.5 3			E	
6835.8 ^d 4	(51/2) ⁺		E	J ^π : γ to (47/2) ⁺ ; band structure.
6886.1 ^e 3	(53/2) ⁺		E	J ^π : γ to (49/2) ⁺ ; band structure.
7006.9 4			E	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{185}Os Levels (continued)

E(level) [†]	J^π [‡]	XREF	Comments
7033.1 11		E	
7099.0 4		E	
7358.5 ^l 12	(5/2) ⁻	E	J^π : γ to (5/2) ⁻ ; band structure.

[†] From least-squares fit to the $E\gamma$'s by evaluator with $\Delta E(\gamma)=0.3$ keV assumed for data from (HI,xn γ) and $\Delta E(\gamma)=0.5$ keV for data from (n, γ) when uncertainties are not given.

[‡] J^π and Nilsson orbital assignments are based on rotational structure and γ -ray decay patterns, on the energy systematics of Nilsson orbitals in other odd-Os isotopes, and on the comparison of experimental (p,t) cross sections with theoretical values. Specific arguments are presented with individual levels.

Band(A): $\nu 3/2[512]$ rotational band, $\alpha=-1/2$. Rotational parameters: A=19.2, B=-35.7. Spin members of the band used in the fit: 3/2 to 7/2.

@ Band(a): $\nu 3/2[512]$ rotational band, $\alpha=+1/2$. Rotational parameters: A=19.2, B=-35.7. Spin members of the band used in the fit: 3/2 to 7/2.

& Band(b): $\nu 1/2[510]$ g. s. Rotational band, $\alpha=-1/2$. Rotational parameters: A=11.8, B=71.7, a=0.026. Members of the band used in the fit: 1/2 to 9/2.

^a Band(B): $\nu 1/2[510]$ g. s. Rotational band, $\alpha=+1/2$. Rotational parameters: A=11.8, B=71.7, a=0.026. Members of the band used in the fit: 1/2 to 9/2.

^b Band(c): $\nu 7/2[503]$ rotational band, $\alpha=+1/2$ Rotational parameters: A=18.0, B=-23.4. Spin members of the band used in the fit: 7/2 to 11/2.

^c Band(C): $\nu 7/2[503]$ rotational band, $\alpha=-1/2$ Rotational parameters: A=18.0, B=-23.4. Spin members of the band used in the fit: 7/2 to 11/2.

^d Band(D): $\nu 11/2[615]$ rotational band, $\alpha=-1/2$ Rotational parameters: A=9.7, B=38.5. Spin members of the band used in the fit: 11/2 to 15/2.

^e Band(d): $\nu 11/2[615]$ rotational band, $\alpha=+1/2$ Rotational parameters: A=9.7, B=38.5. Spin members of the band used in the fit: 11/2 to 15/2.

^f Band(E): $\nu 9/2[624]$ rotational band, $\alpha=+1/2$. Rotational parameters: A=19.2, B=-104. Spin members of the band used in the fit: 9/2 to 13/2.

^g Band(e): $\nu 9/2[624]$ rotational band, $\alpha=-1/2$. Rotational parameters: A=19.2, B=-104. Spin members of the band used in the fit: 9/2 to 13/2.

^h Band(F): $\nu 11/2[615] \otimes \gamma$ phonon, $\alpha=-1/2$. 3-quasiparticle configuration is also possible.

ⁱ Band(G): $\nu 11/2[615] \otimes \gamma$ phonon, $\alpha=+1/2$. 3-quasiparticle configuration is also possible.

^j Band(H): $\nu 1/2[521] \nu 7/2[503] \nu 11/2[615]$, $\alpha=-1/2$.

^k Band(h): $\nu 1/2[521] \nu 7/2[503] \nu 11/2[615]$, $\alpha=+1/2$.

^l Band(I): $\nu 3/2[512] \otimes \pi 9/2[514] \pi 11/2[505]$, $\alpha=-1/2$.

^m Band(i): $\nu 3/2[512] \otimes \pi 9/2[514] \pi 11/2[505]$, $\alpha=+1/2$.

ⁿ Band(J): K=1/2 band. Probably the 1/2⁻[510] particle (hole) coupled to the excited 0⁺ state in ^{184}Os (^{186}Os) ([1976Sh15](#)).

^o Band(K): K=1/2 band.

^p [1976Sh15](#) assumes a 98-keV (97.4 + 102.3) doublet in (p,t).

^q [1976Sh15](#) assumes a 410-keV (402.6 + 414.4) doublet in (p,t).

Adopted Levels, Gammas (continued)

$\gamma(^{185}\text{Os})$									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	$\delta^\#$	α^C	Comments
37.45	3/2 ⁻	37.4 [@] 1	100	0.0	1/2 ⁻	M1+E2	0.05 1	19.2	
97.47	5/2 ⁻	60.10 7	100 6	37.45	3/2 ⁻	M1+E2	0.18 3	5.6 4	
		97.48 8	67 11	0.0	1/2 ⁻	E2		4.93	
102.37	7/2 ⁻	(4.9)		97.47	5/2 ⁻				Transition not observed. Its existence is inferred from delayed (158.2 γ) (97 γ , 60 γ , 37 γ) coincidences in ¹⁸³ W(α ,2n γ) (1975So01).
		(64.9)		37.45	3/2 ⁻				Expected from analogy with ¹⁸³ W level scheme.
127.95	3/2 ⁻	30.4 [@] 5	1.6 [@] 7	97.47	5/2 ⁻	(M1)		33.5	
		90.52 11	100 8	37.45	3/2 ⁻	M1(+E2)	≤ 1.5	7.4 5	
		128.03 9	55 21	0.0	1/2 ⁻	M1		2.87	
198.19	7/2 ⁻	100.97 8	103 ^b 45	97.47	5/2 ⁻	M1+E2	0.22 5	5.63	
		160.50 8	100 5	37.45	3/2 ⁻	E2		0.721	
222.41	5/2 ⁻	24.20 [@] 4	1.1 [@] 5	198.19	7/2 ⁻	M1+E2	0.09 +5-3	106 28	
		94.47 17	23 2	127.95	3/2 ⁻	M1+E2	0.9 3	6.30 21	
		124.95 [@] 20	2.0 [@] 8	97.47	5/2 ⁻	(M1)		3.07	
		185.10 13	40 3	37.45	3/2 ⁻	M1(+E2)		0.7 3	
		222.34 13	100 5	0.0	1/2 ⁻	(E2)		0.236	
260.64	9/2 ⁻	158.29 7	100	102.37	7/2 ⁻	M1+E2		1.2 4	Mult.: Dipole from (HI,xn γ).
275.53	11/2 ⁺	(15.2)		260.64	9/2 ⁻	[E1]		13.5	B(E1)(W.u.)=5.2 $\times 10^{-6}$ 11 Transition not observed. Its existence is inferred by the 158.2 γ measured in the delayed spectrum.
317.86	9/2 ⁻	57.5 ^{ad}	0.5 ^a 5	260.64	9/2 ⁻				
		119.69 9	4.3 3	198.19	7/2 ⁻	M1+E2	≤ 1.2	3.1 6	
		220.27 9	100.0 24	97.47	5/2 ⁻	E2		0.243	
351.70	7/2 ⁻	33.85 [@] 5	0.09 [@] 4	317.86	9/2 ⁻	(M1)		24.4	
		129.4 [@] 2		222.41	5/2 ⁻	(E2+M1)		2.2 6	
		153.48 13	15.1 12	198.19	7/2 ⁻	M1+E2	0.8 3	1.37 14	
		223.85 14	15.5 10	127.95	3/2 ⁻	E2		0.231	
		254.23 8	100 4	97.47	5/2 ⁻	M1+E2	0.3 1	0.397 15	
		314.29 17	11 ^b 5	37.45	3/2 ⁻	[E2]		0.0804	
402.40	9/2 ⁺	126.90 9	100 17	275.53	11/2 ⁺	M1+E2	≈ 0.4	2.77 15	
		141.78 9	5.9 8	260.64	9/2 ⁻	[E1]		0.160	
		300.06 9	84 8	102.37	7/2 ⁻	E1		0.0245	
406.60	(1/2 ⁻ ,3/2)	184.2 ^{&} 6	18 ^{&}	222.41	5/2 ⁻				
		278.3 ^{&}		127.95	3/2 ⁻				
		406.7 ^{&} 5	100 ^{&}	0.0	1/2 ⁻				
414.18	13/2 ⁺	138.7 ^a 1	100 ^a	275.53	11/2 ⁺	D ^a			
448.69	11/2 ⁻	188.2 ^a 1	100 ^a 3	260.64	9/2 ⁻	D ^a			
		346.2 ^a 1	47 ^{ab} 4	102.37	7/2 ⁻	Q ^a			

Adopted Levels, Gammas (continued)

$\gamma(^{185}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	Comments		
468.79	(1/2 ⁻ ,3/2)	62.2& 2		406.60	(1/2 ⁻ ,3/2)				
		246.4& 5	1.1&	222.41	5/2 ⁻				
		342.9&	4.4&	127.95	3/2 ⁻				
		431.2& 4	100&	37.45	3/2 ⁻				
		468.5& 10		0.0	1/2 ⁻				
		476.53	11/2 ⁻	158.5 ^a 1	22.6 ^a 6	317.86	9/2 ⁻	D ^a	
				278.4 ^a 1	100.0 ^a 25	198.19	7/2 ⁻	Q ^a	
		505.25	9/2 ⁻	153.6 ^a	5.4 ^a 12	351.70	7/2 ⁻		
				282.9 ^a	100 ^a 4	222.41	5/2 ⁻	Q ^a	
				307.3 ^a	54 ^a 4	198.19	7/2 ⁻		
407.6 ^a	26 ^a 4			97.47	5/2 ⁻				
539.4?		411.8& 10		127.95	3/2 ⁻				
		501.7&		37.45	3/2 ⁻				
		539.6&		0.0	1/2 ⁻				
590.31	15/2 ⁺	176.1 ^a 1	100 ^a 3	414.18	13/2 ⁺	D ^a			
		314.7 ^a 1	56 ^a 2	275.53	11/2 ⁺	Q ^a			
591.25	11/2 ⁺	177.1 ^a 1	20 ^a 3	414.18	13/2 ⁺	D ^a			
		189.1 ^a 1	100 ^a 4	402.40	9/2 ⁺				
626.7?		523.9& 10		97.47	5/2 ⁻				
		589.7& 7	100&	37.45	3/2 ⁻				
		626.3&	24&	0.0	1/2 ⁻				
642.24	(3/2 ⁻ ,5/2 ⁺)	513.3& 8		127.95	3/2 ⁻				
		539.6&d		102.37	7/2 ⁻				
646.28		141.8& 5		505.25	9/2 ⁻				
		177.6& 3		468.79	(1/2 ⁻ ,3/2)				
		447.6&	100&	198.19	7/2 ⁻				
		547.9& 10		97.47	5/2 ⁻				
		609.3&	100&	37.45	3/2 ⁻				
660.26	13/2 ⁻	211.4 ^a 1	29 ^{ab} 5	448.69	11/2 ⁻	M1+E2	Mult.: Dipole from (HI,xn γ).		
		342.4 ^a 1	100.0 ^a 22	317.86	9/2 ⁻	Q ^a			
		399.6 ^a 1	29 ^{ab} 2	260.64	9/2 ⁻	E2			
666.23	13/2 ⁻	217.5 ^a 1	93.0 ^a 20	448.69	11/2 ⁻	D ^a			
		348.3 ^a 1	31.0 ^a 8	317.86	9/2 ⁻	Q ^a			
		405.5 ^a 1	100.0 ^a 24	260.64	9/2 ⁻	Q ^a			
706.78	11/2 ⁻	355.1 ^a 1	52 ^{ab} 10	351.70	7/2 ⁻	Q ^a			
		389.0 ^a 1	100 ^a 3	317.86	9/2 ⁻	D ^a			
		509.0 ^a	5.5 ^a 14	198.19	7/2 ⁻				

∞

Adopted Levels, Gammas (continued)

$\gamma(^{185}\text{Os})$ (continued)							
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	α^C
729.32	(5/2 ⁻ , 7/2 ⁻)	377.6@ 2	31@ 3	351.70	7/2 ⁻	(M1)	0.143
		507.0@ 2	100@ 10	222.41	5/2 ⁻	(M1)	0.0664
		601.3@	21@ 3	127.95	3/2 ⁻		
		691.9@	62@ 7	37.45	3/2 ⁻		
746.5		104.4& 2		642.24	(3/2 ⁻ , 5/2 ⁺)		
		523.9& 10		222.41	5/2 ⁻		
		643.2&	100&	102.37	7/2 ⁻		
776.33	17/2 ⁺	185.9 ^a 1	67.6 ^a 21	590.31	15/2 ⁺	D ^a	
		362.1 ^a 1	100 ^a 3	414.18	13/2 ⁺	Q ^a	
781.93	13/2 ⁺	190.8 ^a 1	51 ^a 2	591.25	11/2 ⁺		
		191.0 ^a 10	100 ^a 4	590.31	15/2 ⁺		
		379.4 ^a 1	49 ^a 2	402.40	9/2 ⁺		
797.1	1/2, 3/2, 5/2 ⁺	669.2&	100&	127.95	3/2 ⁻		
		759.9&	34&	37.45	3/2 ⁻		
843.29	(3/2 ⁻ , 5/2 ⁺)	200.8& 2		642.24	(3/2 ⁻ , 5/2 ⁺)		
		491.9&	36&	351.70	7/2 ⁻		
		620.6&	66&	222.41	5/2 ⁻		
		741.7&	100&	102.37	7/2 ⁻		
		746.3&	64&	97.47	5/2 ⁻		
864.95	15/2 ⁻	204.8 ^a 1	6.2 ^{ab} 11	660.26	13/2 ⁻	D ^a	
		388.3 ^a 1	100.0 ^a 22	476.53	11/2 ⁻	Q ^a	
		416.9 ^a	2.9 ^a 2	448.69	11/2 ⁻		
879.6	1/2, 3/2, 5/2 ⁺	751.5&	100&	127.95	3/2 ⁻		
		842.1&	63&	37.45	3/2 ⁻		
903.00	13/2 ⁻	397.9 ^a	100 ^a 5	505.25	9/2 ⁻	Q ^a	
		426.4 ^a	29 ^a 2	476.53	11/2 ⁻		
907.34	15/2 ⁻	241.1 ^a 1	54.9 ^a 13	666.23	13/2 ⁻	D ^a	
		246.8 ^a 1	15.7 ^a 4	660.26	13/2 ⁻	D ^a	
		458.8 ^a 1	100.0 ^a 24	448.69	11/2 ⁻	Q ^a	
965.2	(1/2, 3/2)	837.5&	73&	127.95	3/2 ⁻		
		965.0&	100&	0.0	1/2 ⁻		
1024.61	19/2 ⁺	248.1 ^a 1	47.3 ^a 15	776.33	17/2 ⁺	D ^a	
		434.1 ^a 1	100 ^a 3	590.31	15/2 ⁺	Q ^a	
1024.96	15/2 ⁺	243.3 ^a 1	100 ^a 4	781.93	13/2 ⁺		
		434.3 ^a 2	85 ^a 4	591.25	11/2 ⁺		
1061.5	1/2, 3/2, 5/2 ⁺	181.6&	53&	879.6	1/2, 3/2, 5/2 ⁺		
		419.5&	100&	642.24	(3/2 ⁻ , 5/2 ⁺)		

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	$\gamma(^{185}\text{Os})$ (continued)			Comments
				E_f	J_f^π	Mult. ‡	
1061.5	1/2,3/2,5/2 ⁺	522.2& 10		539.4?			
1116.4	(3/2 ⁻ ,5/2 ⁺)	1014.6&	100&	102.37	7/2 ⁻		
		1078.3&	98&	37.45	3/2 ⁻		
1116.90	17/2 ⁻	251.9 ^a	0.3 ^a 2	864.95	15/2 ⁻		
		450.9 ^a 1	18 ^{ab} 2	666.23	13/2 ⁻	Q ^a	
		456.5 ^a 1	100.0 ^a 23	660.26	13/2 ⁻	Q ^a	
1173.52	17/2 ⁻	265.9 ^a 1	49 ^{ab} 4	907.34	15/2 ⁻	D ^a	
		507.4 ^a 1	100.0 ^a 22	666.23	13/2 ⁻	Q ^a	
		513.5 ^a	21.4 ^a 11	660.26	13/2 ⁻		
1176.73	17/2 ⁺	151.6 ^a 10	15 ^a 2	1024.96	15/2 ⁺		
		151.9 ^a 1	20 ^a 2	1024.61	19/2 ⁺		
		394.5 ^a 1	78 ^a 4	781.93	13/2 ⁺		E _γ : level-energy difference=394.8.
		400.2 ^a 1	41 ^a 2	776.33	17/2 ⁺	D ^a	
		586.6 ^a 1	100 ^a 6	590.31	15/2 ⁺		
		762.7 ^a 1	50 ^a 4	414.18	13/2 ⁺		
1179.6	(1/2,3/2,5/2 ⁺)	336.0&	95&	843.29	(3/2 ⁻ ,5/2 ⁺)		
		382.7&	100&	797.1	1/2,3/2,5/2 ⁺		
1179.62	15/2 ⁻	315.0 ^a	15.3 ^a 7	864.95	15/2 ⁻		
		473.0 ^a 1	100.0 ^a 23	706.78	11/2 ⁻	Q ^a	
		512.9 ^a 1	25.5 ^{ab} 25	666.23	13/2 ⁻		
		519.5 ^a 1	67.7 ^a 16	660.26	13/2 ⁻	D(+Q) ^a	
		703.3 ^a	6.5 ^a 7	476.53	11/2 ⁻		
1222.09	21/2 ⁺	197.4 ^a 1	18.1 ^a 6	1024.61	19/2 ⁺	D ^a	
		445.6 ^a 1	100 ^a 3	776.33	17/2 ⁺	Q ^a	
1322.03	17/2 ⁺	731.4 ^a 1	100 ^a 3	590.31	15/2 ⁺	D ^a	
		907.8 ^a 1	51 ^a 2	414.18	13/2 ⁺		
1353.72	19/2 ⁻	236.7 ^a 1	3.4 ^a 1	1116.90	17/2 ⁻	D ^a	
		488.8 ^a 1	100.0 ^a 22	864.95	15/2 ⁻	Q ^a	
1403.72	17/2 ⁻	500.8 ^a	100 ^a 5	903.00	13/2 ⁻		
		538.7 ^a	20 ^a 2	864.95	15/2 ⁻		
1442.04	(17/2 ⁺)	417.1 ^a 10	57 ^a 2	1024.96	15/2 ⁺		
		417.4 ^a 1	35 ^a 2	1024.61	19/2 ⁺		
		660.4 ^a 10	100 ^a 4	781.93	13/2 ⁺		
1461.52	19/2 ⁻	287.8 ^a 1	33.8 ^a 8	1173.52	17/2 ⁻	D ^a	
		554.3 ^a 1	100.0 ^a 24	907.34	15/2 ⁻	Q ^a	
1519.33	19/2 ⁺	494.9 ^a 10	14 ^a 1	1024.61	19/2 ⁺		
		742.9 ^a 1	100 ^a 3	776.33	17/2 ⁺	D ^a	
		929.1 ^a 1	53 ^a 2	590.31	15/2 ⁺	Q ^a	
1552.25	19/2 ⁺	375.8 ^a 10	85 ^a 4	1176.73	17/2 ⁺		

Adopted Levels, Gammas (continued)

γ(¹⁸⁵Os) (continued)

E _i (level)	J ^π _i	E _γ [†]	I _γ [†]	E _f	J ^π _f	Mult. [‡]	Comments
1552.25	19/2 ⁺	527.2 ^a 1	100 ^a 4	1024.96	15/2 ⁺		E _γ : level-energy difference=527.6.
		527.7 ^a 1	89 ^a 4	1024.61	19/2 ⁺		E _γ : level-energy difference=527.3.
1565.60	23/2 ⁺	343.4 ^a 1	27 ^a 1	1222.09	21/2 ⁺	D ^a	
		541.0 ^a 1	100 ^a 3	1024.61	19/2 ⁺	Q ^a	
1591.27	19/2 ⁺	268.7 ^a 1	17 ^a 1	1322.03	17/2 ⁺		E _γ : poor fit; level-energy difference=269.2.
		566.8 ^a 1	32 ^a 1	1024.61	19/2 ⁺		
		814.9 ^a 1	100 ^a 4	776.33	17/2 ⁺	D ^a	
1647.20	21/2 ⁺	1001.1 ^a 1	23 ^a 1	590.31	15/2 ⁺		
		425.0 ^a 1	51 ^a 3	1222.09	21/2 ⁺		
		470.1 ^a 1	100 ^a 4	1176.73	17/2 ⁺		E _γ : poor fit; level-energy difference=470.5.
		622.6 ^a 1	81 ^a 3	1024.61	19/2 ⁺	D ^a	
		871.1 ^a 1	89 ^a 3	776.33	17/2 ⁺		
1670.37	21/2 ⁻	553.5 ^a 1	100 ^a	1116.90	17/2 ⁻	Q	
1733.3	(21/2 ⁺)	511.4 ^a 10	100 ^a 3	1222.09	21/2 ⁺		
		956.9 ^a 10	9 ^a 2	776.33	17/2 ⁺		
1744.36	25/2 ⁺	178.7 ^a 1	5.7 ^a 1	1565.60	23/2 ⁺		
		522.4 ^a 1	100 ^a 3	1222.09	21/2 ⁺	Q ^a	
1745.52	21/2 ⁺	423.6 ^a 1	37 ^a 2	1322.03	17/2 ⁺		
		523.4 ^a 1	27 ^a 2	1222.09	21/2 ⁺		
		720.8 ^a 1	100 ^a 3	1024.61	19/2 ⁺	D ^a	
		969.3 ^a 1	32 ^a 2	776.33	17/2 ⁺		
1755.96	19/2 ⁻	164.7 ^a 1	21 ^a 7	1591.27	19/2 ⁺	D ^a	
		236.5 ^a 3	12.4 ^a 3	1519.33	19/2 ⁺		
		402.5 ^a 10	3.5 ^a 2	1353.72	19/2 ⁻		
		434.0 ^a 1	11.2 ^a 6	1322.03	17/2 ⁺		
		576.2 ^a 1	100.0 ^a 21	1179.62	15/2 ⁻	Q ^a	
		639.2 ^a 1	59.9 ^a 13	1116.90	17/2 ⁻	D(+Q) ^a	
1769.38	21/2 ⁻	307.8 ^a 1	26 ^{ab} 4	1461.52	19/2 ⁻	D ^a	
		595.9 ^a 1	100.0 ^a 22	1173.52	17/2 ⁻	Q ^a	
1769.76	5/2 ⁺	1040.7 [@]	<17 [@]	729.32	(5/2 ⁻ , 7/2 ⁻)		
		1418.1 [@]	19.5 [@]	351.70	7/2 ⁻		
		1571.6 [@]	9.6 [@]	198.19	7/2 ⁻		
		1641.8 [@]	42 [@]	127.95	3/2 ⁻		
		1732.2 [@]	100 [@]	37.45	3/2 ⁻	E1	
1844.46	21/2 ⁺	252.9 ^a 1	27 ^a 1	1591.27	19/2 ⁺		
		522.5 ^a 10	23 ^a 1	1322.03	17/2 ⁺		
		622.3 ^a 1	29 ^a 1	1222.09	21/2 ⁺		
		819.9 ^a 1	100 ^a 3	1024.61	19/2 ⁺	D ^a	
		1068.4 ^a 1	30 ^a 1	776.33	17/2 ⁺		

Adopted Levels, Gammas (continued)

γ(¹⁸⁵Os) (continued)

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ[†]</u>	<u>I_γ[†]</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[‡]</u>
1866.37	5/2 ⁺	1668.3 [@]	36 [@]	198.19	7/2 ⁻	E1
		1738.4 [@]	24 [@]	127.95	3/2 ⁻	E1
		1768.0 ^{@d}	0.7 [@]	97.47	5/2 ⁻	
		1828.8 [@]	100 [@]	37.45	3/2 ⁻	E1
1907.58	5/2 ⁺	1178.1 [@]	6 [@]	729.32	(5/2 ⁻ ,7/2 ⁻)	
		1685.0 [@]	25 [@]	222.41	5/2 ⁻	
		1709.6 [@]	28 [@]	198.19	7/2 ⁻	
		1779.8 [@]	≤31 [@]	127.95	3/2 ⁻	
		1870.0 [@]	100 [@]	37.45	3/2 ⁻	E1
1929.50	23/2 ⁻	259.3 ^a 2	0.79 ^a 14	1670.37	21/2 ⁻	
		575.6 ^a 1	100.0 ^a 23	1353.72	19/2 ⁻	Q ^a
1937.04	(19/2 ⁺)	615.0 ^a 1	100 ^a	1322.03	17/2 ⁺	D ^a
1966.22	(21/2 ⁺)	941.7 ^a 1	100 ^a 4	1024.61	19/2 ⁺	
		1189.5 ^a 2	43 ^a 4	776.33	17/2 ⁺	
1981.07	(21/2 ⁺)	248.0 ^a 10	26 ^a 3	1733.3	(21/2 ⁺)	
		428.6 ^a 10	29 ^a 3	1552.25	19/2 ⁺	
		539.0 ^a 1	100 ^a 3	1442.04	(17/2 ⁺)	
1987.13	23/2 ⁻	142.7 ^a 1	13.9 ^a 5	1844.46	21/2 ⁺	D ^a
		231.2 ^a 1	100.0 ^a 21	1755.96	19/2 ⁻	Q ^a
		633.5 ^a 1	4 ^{ab} 1	1353.72	19/2 ⁻	Q ^a
1994.1	21/2 ⁻	590.4 ^a	100 ^a	1403.72	17/2 ⁻	Q ^a
2000.50	23/2 ⁺	481.2 ^a 1	61 ^a 2	1519.33	19/2 ⁺	
		778.3 ^a 1	100 ^a 4	1222.09	21/2 ⁺	D ^a
		976.0 ^a 1	13 ^a 1	1024.61	19/2 ⁺	
2003.43	5/2 ⁺	1652.2 [@]	11 [@]	351.70	7/2 ⁻	
		1779.8 [@]	≤84 [@]	222.41	5/2 ⁻	
		1804.9 [@]	92 [@]	198.19	7/2 ⁻	E1
		1876.0 [@]	100 [@]	127.95	3/2 ⁻	E1
		1966.5 [@]	22 [@]	37.45	3/2 ⁻	
2034.35	(21/2 ⁺)	592.3 ^a 1	100 ^a	1442.04	(17/2 ⁺)	
2040.2	(21/2 ⁺)	103.0 ^a 10	100 ^a	1937.04	(19/2 ⁺)	
2095.35	23/2 ⁻	325.6 ^a 1	17.5 ^a 4	1769.38	21/2 ⁻	D ^a
		633.8 ^a 1	100.0 ^a 24	1461.52	19/2 ⁻	Q ^a
2108.07	23/2 ⁺	263.4 ^a 1	100 ^a 4	1844.46	21/2 ⁺	
		516.8 ^a 1	53 ^a 2	1591.27	19/2 ⁺	
		886.1 ^a 1	98 ^a 4	1222.09	21/2 ⁺	D ^a
2157.1	(21/2 ⁻)	220.3 ^a 10	100 ^a	1937.04	(19/2 ⁺)	D ^a
2164.44	(23/2 ⁺)	612.2 ^a 1	100 ^a	1552.25	19/2 ⁺	
2197.81	(23/2 ⁻)	(41)		2157.1	(21/2 ⁻)	

Adopted Levels, Gammas (continued)

γ(¹⁸⁵Os) (continued)

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ[†]</u>	<u>I_γ[†]</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[‡]</u>	<u>δ[#]</u>
2197.81	(23/2 ⁻)	157.4 ^a 10	4 ^a 1	2040.2	(21/2 ⁺)		
		210.2 ^a 10	100 ^a 4	1987.13	23/2 ⁻		
		736.3 ^a 1	12 ^a 1	1461.52	19/2 ⁻		
2204.15	27/2 ⁺	459.5 ^a 1	14.0 ^a 5	1744.36	25/2 ⁺		
		638.8 ^a 1	100 ^a 3	1565.60	23/2 ⁺	Q ^a	
2249.29	25/2 ⁺	601.9 ^a 1	100 ^a 3	1647.20	21/2 ⁺		
		683.6 ^a 1	39 ^a 2	1565.60	23/2 ⁺		
		1027.2 ^a 1	53 ^a 2	1222.09	21/2 ⁺	Q ^a	
2264.27	25/2 ⁻	277.1 ^a 1	100 ^a	1987.13	23/2 ⁻	D ^a	
2280.78	25/2 ⁺	535.4 ^a 1	69 ^a 3	1745.52	21/2 ⁺		
		714.9 ^a 1	100 ^a 4	1565.60	23/2 ⁺	D ^a	
2304.97	25/2 ⁻	634.6 ^a 1	100 ^a	1670.37	21/2 ⁻	Q ^a	
2350.68	29/2 ⁺	606.2 ^a 1	100 ^a	1744.36	25/2 ⁺	Q ^a	
2386.77	25/2 ⁺	278.8 ^a 1	70 ^a 3	2108.07	23/2 ⁺		
		542.5 ^a 1	100 ^a 5	1844.46	21/2 ⁺		
		821.2 ^a 1	43 ^a 3	1565.60	23/2 ⁺		
2402.9	(23/2 ⁻)	646.9 ^a	100 ^a	1755.96	19/2 ⁻		
2435.14	25/2 ⁻	339.7 ^a	36 ^a 2	2095.35	23/2 ⁻	D ^a	
		665.4 ^a 1	100 ^a 4	1769.38	21/2 ⁻	Q ^a	
2511.38	(25/2 ⁺)	346.7 ^a 10	21 ^a 1	2164.44	(23/2 ⁺)	Q ^a	
		477.1 ^a 10	15 ^a 1	2034.35	(21/2 ⁺)		
		511.1 ^a 10	26 ^a 1	2000.50	23/2 ⁺		
		530.3 ^a 1	100 ^a 3	1981.07	(21/2 ⁺)		
		545.3 ^a 10	18 ^a 1	1966.22	(21/2 ⁺)		
		667.1 ^a 10	24 ^a 1	1844.46	21/2 ⁺		
		767.2 ^a 10	13 ^a 1	1744.36	25/2 ⁺		
		864.4 ^a 10	7 ^a 1	1647.20	21/2 ⁺		
		946.0 ^a 10	7 ^a 1	1565.60	23/2 ⁺		
		1289.5 ^a 10	29 ^a 1	1222.09	21/2 ⁺		
2551.98	27/2 ⁻	287.5 ^a 1	100 ^a 3	2264.27	25/2 ⁻	D ^a	
		565.0 ^a 1	46 ^a 2	1987.13	23/2 ⁻	Q ^a	
		622.8 ^a 3	51 ^a 2	1929.50	23/2 ⁻	Q ^a	
2571.38	27/2 ⁻	641.7 ^a 1	100 ^a	1929.50	23/2 ⁻	Q ^a	
2575.40	27/2 ⁺	574.9 ^a 1	100 ^a 4	2000.50	23/2 ⁺	Q ^a	
		831.1 ^a 1	44 ^a 2	1744.36	25/2 ⁺	D ^a	
2602.18	27/2 ⁻	(52)		2551.98	27/2 ⁻		
		337.8 ^a 1	95 ^a 3	2264.27	25/2 ⁻	(M1+E2)	0.17 +7-13
		405.0 ^a 10	40 ^a 1	2197.81	(23/2 ⁻)		
		615.1 ^a 1	100 ^a 3	1987.13	23/2 ⁻	Q ^a	
2654.3	(25/2 ⁻)	660.2 ^a	100 ^a	1994.1	21/2 ⁻		
2679.05	27/2 ⁺	292.5 ^a 1	25 ^a 2	2386.77	25/2 ⁺		

Adopted Levels, Gammas (continued)

$\gamma(^{185}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]
2679.05	27/2 ⁺	570.8 ^a 1	100 ^a 5	2108.07	23/2 ⁺	
		934.7 ^a 1	57 ^a 2	1744.36	25/2 ⁺	
2790.17	27/2 ⁻	355.1 ^a	11 ^a 1	2435.14	25/2 ⁻	
		694.8 ^a 1	100 ^a 3	2095.35	23/2 ⁻	Q ^a
		860.9 ^a 5	9 ^a 1	1929.50	23/2 ⁻	
2848.58	29/2 ⁻	296.4 ^a 1	94 ^a 3	2551.98	27/2 ⁻	D ^a
		584.5 ^a 1	100 ^a 3	2264.27	25/2 ⁻	Q ^a
2885.44	(29/2) ⁺	604.5 ^a 1	100 ^a 3	2280.78	25/2 ⁺	
		635.9 ^a 1	67 ^a 2	2249.29	25/2 ⁺	
		681.1 ^a 10	7 ^a 1	2204.15	27/2 ⁺	
		1141.5 ^a 1	19 ^a 1	1744.36	25/2 ⁺	
2898.67	(29/2) ⁻	296.0 ^a 10	100 ^a	2602.18	27/2 ⁻	D ^a
2928.67	31/2 ⁺	578.0 ^a 1	7.5 ^a 5	2350.68	29/2 ⁺	
		724.5 ^a 1	100 ^a 3	2204.15	27/2 ⁺	Q ^a
2941.73	(27/2)	339.5 ^a 1	100 ^a 3	2602.18	27/2 ⁻	D ^a
		677.5 ^a 1	10 ^a 1	2264.27	25/2 ⁻	
2969.06	(29/2) ⁺	719.7 ^a 1	100 ^a 4	2249.29	25/2 ⁺	
		764.8 ^a 10	57 ^a 22	2204.15	27/2 ⁺	
		1224.8 ^a 1	22 ^a 2	1744.36	25/2 ⁺	
2987.38	(29/2) ⁺	600.7 ^a 1	100 ^a 4	2386.77	25/2 ⁺	
		1242.6 ^a 2	18 ^a 2	1744.36	25/2 ⁺	
2989.07	29/2 ⁻	684.1 ^a 1	100 ^a	2304.97	25/2 ⁻	Q ^a
3037.96	33/2 ⁺	687.0 ^a 1	100 ^a	2350.68	29/2 ⁺	Q ^a
3067.2	(27/2) ⁻	664.3 ^a	100 ^a	2402.9	(23/2) ⁻	
3138.04	(29/2) ⁻	702.9 ^a 1	100 ^a	2435.14	25/2 ⁻	
3139.97	31/2 ⁻	291.3 ^a 1	26 ^a 1	2848.58	29/2 ⁻	
		568.4 ^a 1	21 ^a 1	2571.38	27/2 ⁻	
		588.2 ^a 1	100 ^a 3	2551.98	27/2 ⁻	Q ^a
3213.33	31/2 ⁻	314.6 ^a 1	31 ^a 1	2898.67	(29/2) ⁻	
		642.0 ^a 1	100 ^a 3	2571.38	27/2 ⁻	Q ^a
3219.65	(31/2) ⁺	644.3 1	100 3	2575.40	27/2 ⁺	
		869.2 1	29 1	2350.68	29/2 ⁺	D ^a
3225.32	31/2 ⁻	326.7 ^a 1	25 ^a 1	2898.67	(29/2) ⁻	D ^a
		653.9 ^a 1	100 ^a 4	2571.38	27/2 ⁻	Q ^a
3309.32	(31/2) ⁺	630.3 ^a 1	100 ^a 4	2679.05	27/2 ⁺	
		958.6 ^a 1	39 ^a 2	2350.68	29/2 ⁺	
3332.7	(29/2) ⁻	678.4 ^a	100 ^a	2654.3	(25/2) ⁻	
3377.42	(29/2) ⁺	435.7 ^a 1	100 ^a 3	2941.73	(27/2)	D ^a
		479.3 ^a 10	4.6 ^a 4	2898.67	(29/2) ⁻	
		866.0 ^a 1	20.5 ^a 4	2511.38	(25/2) ⁺	Q ^a
3461.07	33/2 ⁻	321.0 ^a 1	18 ^a 1	3139.97	31/2 ⁻	

Adopted Levels, Gammas (continued)

$\gamma(^{185}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	Comments
3461.07	33/2 ⁻	612.6 ^a 1	100 ^a 3	2848.58	29/2 ⁻	Q ^a	
3511.77	(31/2) ⁻	721.6 ^a 1	100 ^a	2790.17	27/2 ⁻		
3537.12	(31/2) ⁺	159.7 ^a 1	100 ^a	3377.42	(29/2) ⁺	M1+E2	ECC=0.97 2 from (HI,xny).
3544.62	(33/2)	319.3 ^a 1	100 ^a	3225.32	31/2 ⁻	D ^a	
3552.41	(33/2) ⁺	667.0 ^a 1	100 ^a 3	2885.44	(29/2) ⁺		
		1201.6 ^a 2	5 ^a 1	2350.68	29/2 ⁺		
3663.4	(33/2) ⁺	676.0 ^a 10	100 ^a	2987.38	(29/2) ⁺		
3694.37	33/2 ⁻	705.3 ^a 1	100 ^a	2989.07	29/2 ⁻		
3702.9	35/2 ⁻	241.9 ^a 10	6 ^a 1	3461.07	33/2 ⁻		
		489.4 ^a 10	14 ^a 1	3213.33	31/2 ⁻		
		563.0 ^a 10	100 ^a 4	3139.97	31/2 ⁻	Q ^a	
3718.80	35/2 ⁺	681.0 ^a 1	9 ^a 1	3037.96	33/2 ⁺		
		790.1 ^a 1	100 ^a 3	2928.67	31/2 ⁺	Q ^a	
3787.53	37/2 ⁺	749.4 ^a 1	100 ^a	3037.96	33/2 ⁺	Q ^a	
3807.11	(33/2) ⁺	838.1 ^a 1	100 ^a 8	2969.06	(29/2) ⁺		
		878.4 ^a 10	38 ^a 8	2928.67	31/2 ⁺		
		1455.8 ^a 4	23 ^a 8	2350.68	29/2 ⁺		
3816.84	(33/2) ⁻	678.8 ^a 1	100 ^a	3138.04	(29/2) ⁻		
3872.22	(35/2) ⁻	658.9 ^a 1	100 ^a	3213.33	31/2 ⁻		
3876.96	(33/2)	339.5 ^a 1	100 ^a	3537.12	(31/2) ⁺	D ^a	E _{γ} : level-energy difference=339.8.
3889.38	(33/2)	352.6 ^a 1	100 ^a	3537.12	(31/2) ⁺	D ^a	E _{γ} : level-energy difference=352.2.
		676 ^{ad}		3213.33	31/2 ⁻		
3893.42	(35/2) ⁻	668.1 ^a 1	100 ^a	3225.32	31/2 ⁻		
3904.55	(35/2) ⁺	685.2 ^a 1	100 ^a 4	3219.65	(31/2) ⁺		E _{γ} : level-energy difference=684.9.
		866.3 ^a 1	9 ^a 2	3037.96	33/2 ⁺		
		976.1 ^a 3	7 ^a 2	2928.67	31/2 ⁺		
4011.15	(35/2) ⁺	701.8 ^a 1	100 ^a 7	3309.32	(31/2) ⁺		
		973.2 ^a 1	57 ^a 7	3037.96	33/2 ⁺		
4101.17	(37/2) ⁻	398 ^{ad}		3702.9	35/2 ⁻		
		640.1 ^a 1	100 ^a	3461.07	33/2 ⁻		
4164.93	(35/2)	275.9 ^a 1	50 ^a 3	3889.38	(33/2)		E _{γ} : level-energy difference=275.5.
		287.6 ^a 1	100 ^a 3	3876.96	(33/2)	D ^a	E _{γ} : level-energy difference=288.0.
4209.01		664.4 ^a 1	100 ^a	3544.62	(33/2)		
4246.91	(37/2) ⁺	694.5 ^a 1	100 ^a 4	3552.41	(33/2) ⁺		
		1209.1 ^a 10	3 ^a 1	3037.96	33/2 ⁺		
4277.81	(35/2)	388.4 ^a 1	61 ^a 2	3889.38	(33/2)		
		401.8 ^a 10	100 ^a 4	3876.96	(33/2)	D ^a	
4300.1	(35/2)	(22)		4277.81	(35/2)		
		411.3 ^a 10	100 ^a 2	3889.38	(33/2)	D ^a	
		424.4 ^a 10	34 ^a 2	3876.96	(33/2)	D ^a	
4304.5	(39/2) ⁻	601.6 ^a 1	100 ^a	3702.9	35/2 ⁻		

Adopted Levels, Gammas (continued)

γ(¹⁸⁵Os) (continued)

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π	Mult. [‡]	E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π
4428.4	(37/2) ⁻	734.0 ^a 10	100 ^a	3694.37	33/2 ⁻		5432.0		424.9 ^a 1	100 ^a 5	5007.1	(41/2)
4432.33	(37/2)	267.4 ^a 1	100 ^a	4164.93	(35/2)		5542.08	(45/2) ⁻	749.3 ^a 1	100 ^a	4792.78	(41/2) ⁻
4528.40	39/2 ⁺	809.6 ^a 1	100 ^a	3718.80	35/2 ⁺	Q ^a	5713.4	(47/2) ⁻	736.9 ^a 1	100 ^a	4976.5	(43/2) ⁻
4536.32	(39/2) ⁻	664.1 ^a 1	100 ^a	3872.22	(35/2) ⁻		5785.8		353.7 ^a 1	100 ^a	5432.0	
4553.93	41/2 ⁺	766.4 ^a 1	100 ^a	3787.53	37/2 ⁺	Q ^a	5962.3		955.2 ^a 1	100 ^a	5007.1	(41/2)
4581.13	(39/2)	281.0 ^a 1	100 ^a 3	4300.1	(35/2)	Q ^a	6017.70	(47/2) ⁺	743.3 ^a 1	100 ^a	5274.40	(43/2) ⁺
		303.3 ^a 1	45 ^a 1	4277.81	(35/2)		6046.23	(49/2) ⁺	760.8 ^a 1	100 ^a	5285.43	45/2 ⁺
4630.4	(39/2) ⁻	737.0 ^a 10	100 ^a	3893.42	(35/2) ⁻		6203.3		241.0 ^a 1	100 ^a	5962.3	
4647.20	(39/2) ⁺	742.7 ^a 1	100 ^a 7	3904.55	(35/2) ⁺		6285.5		499.7 ^a 1	100 ^a	5785.8	
		859.5 ^a 1	40 ^a 7	3787.53	37/2 ⁺		6338.78	(49/2) ⁻	796.7 ^a 1	100 ^a	5542.08	(45/2) ⁻
		928.9 ^a 2	40 ^a 7	3718.80	35/2 ⁺		6349.8		564.0 ^a 1	79 ^a 7	5785.8	
4732.23	(39/2)	299.9 ^a 1	100 ^a 8	4432.33	(37/2)				917.8 ^a 1	100 ^a 14	5432.0	
		567.5 ^a 10	67 ^a 8	4164.93	(35/2)		6506.5	(51/2) ⁻	793.1 ^a 1	100 ^a	5713.4	(47/2) ⁻
4792.78	(41/2) ⁻	691.6 ^a 1	100 ^a	4101.17	(37/2) ⁻		6580.1		617.8 ^a 1	100 ^a	5962.3	
4882.52		673.5 ^a 1	100 ^a	4209.01			6586.6		800.8 ^a 1	100 ^a	5785.8	
4976.5	(43/2) ⁻	672.0 ^a 1	100 ^a	4304.5	(39/2) ⁻		6803.5		453.7 ^a 1	100 ^a	6349.8	
5007.1	(41/2)	426.0 ^a 1	100 ^a	4581.13	(39/2)	D ^a	6835.8	(51/2) ⁺	818.1 ^{ad} 2	100 ^a	6017.70	(47/2) ⁺
5204.4	(41/2) ⁻	776.0 ^a 10	100 ^a	4428.4	(37/2) ⁻		6886.1	(53/2) ⁺	839.9 ^a 1	100 ^a	6046.23	(49/2) ⁺
5235.32	(43/2) ⁻	699.0 ^a 1	100 ^a	4536.32	(39/2) ⁻		7006.9		426.8 ^a 2	100 ^a	6580.1	
5274.40	(43/2) ⁺	746.0 ^a 1	100 ^a	4528.40	39/2 ⁺		7033.1		453 ^{ad}		6580.1	
5285.43	45/2 ⁺	731.5 ^a 1	100 ^a	4553.93	41/2 ⁺	Q ^a	7099.0		512.4 ^a 1	100 ^a	6586.6	
5426.4		796.0 ^a 10	100 ^a	4630.4	(39/2) ⁻		7358.5	(55/2) ⁻	852.0 ^a 10	100 ^a	6506.5	(51/2) ⁻

[†] From weighted average of values from ¹⁸⁵Ir ε decay, ¹⁸⁴Os(n,γ) and (HI,xny), unless otherwise specified.

[‡] From ¹⁸⁵Ir ε decay and W(α,xny), except as noted.

From ce data in ¹⁸⁵Ir ε decay.

@ From ¹⁸⁵Ir ε decay.

& From ¹⁸⁴Os(n,γ).

^a From (HI,xny).

^b Unweighted average of values from ¹⁸⁵Ir ε decay, ¹⁸⁴Os(n,γ) and (HI,xny).

^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.

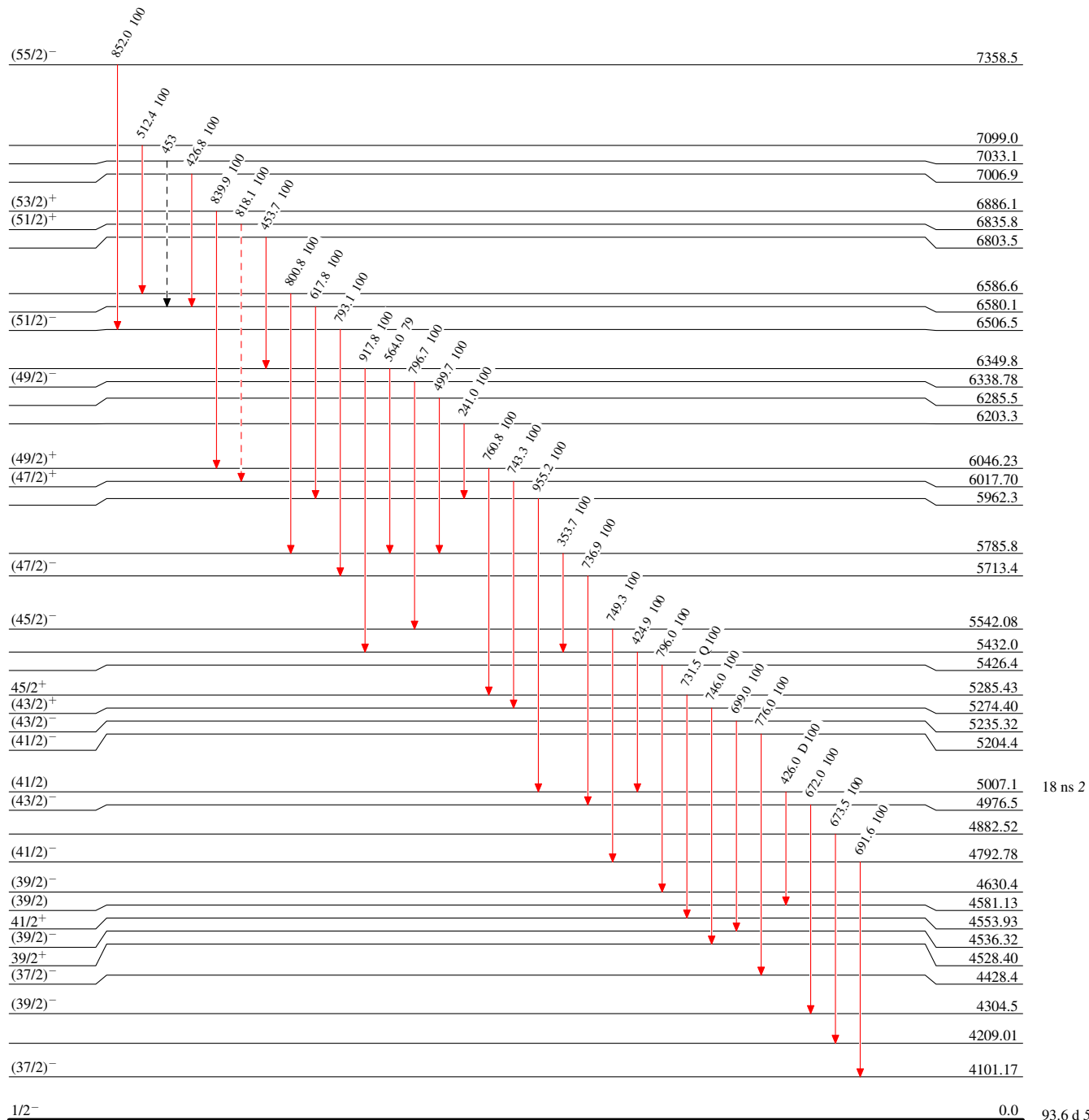
^d Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme
 Intensities: Type not specified

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



$^{185}_{76}\text{Os}_{109}$

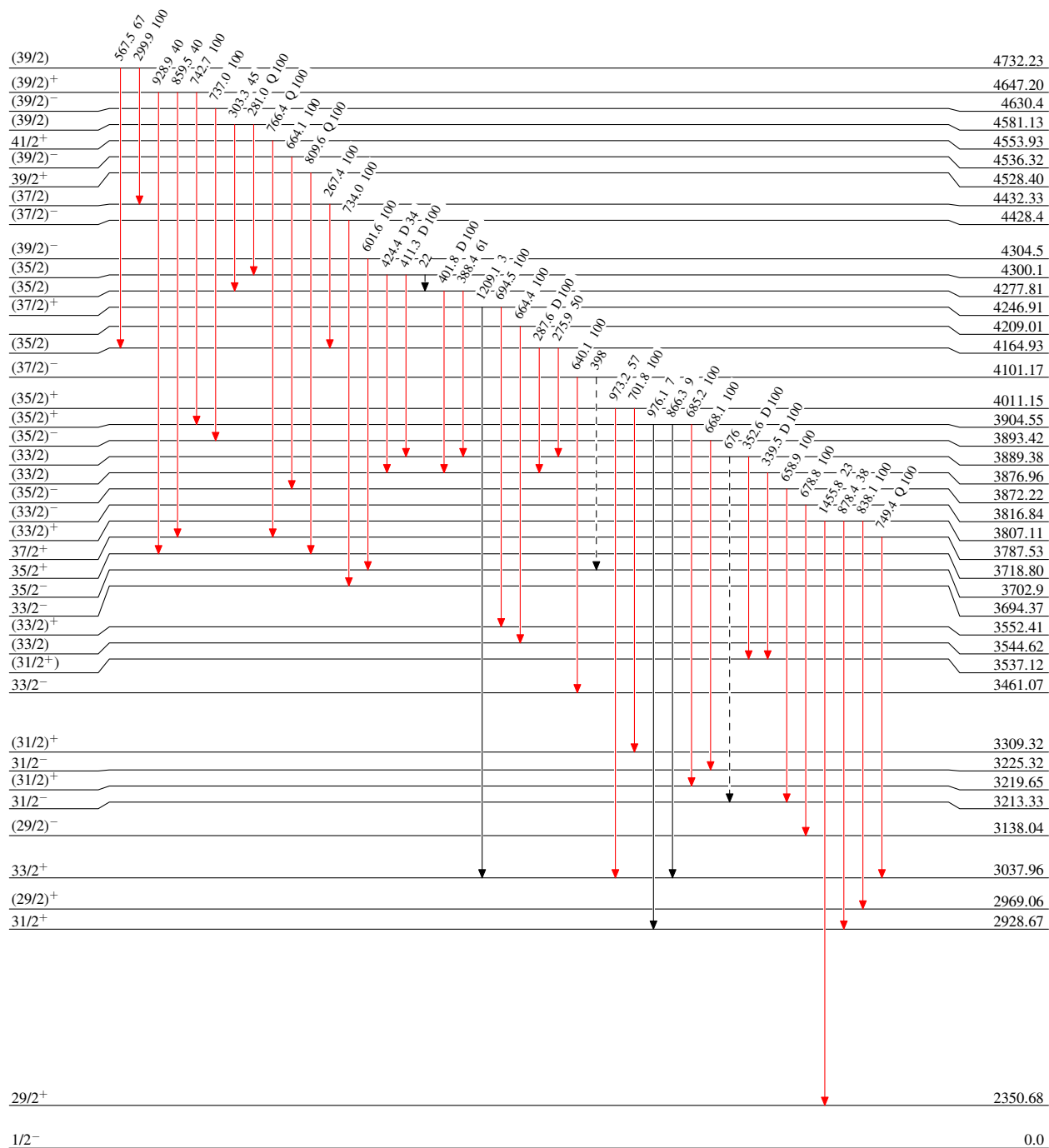
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

- ▶ I_γ < 2% × I_γ^{max}
- ▶ I_γ < 10% × I_γ^{max}
- ▶ I_γ > 10% × I_γ^{max}
- - - -▶ γ Decay (Uncertain)



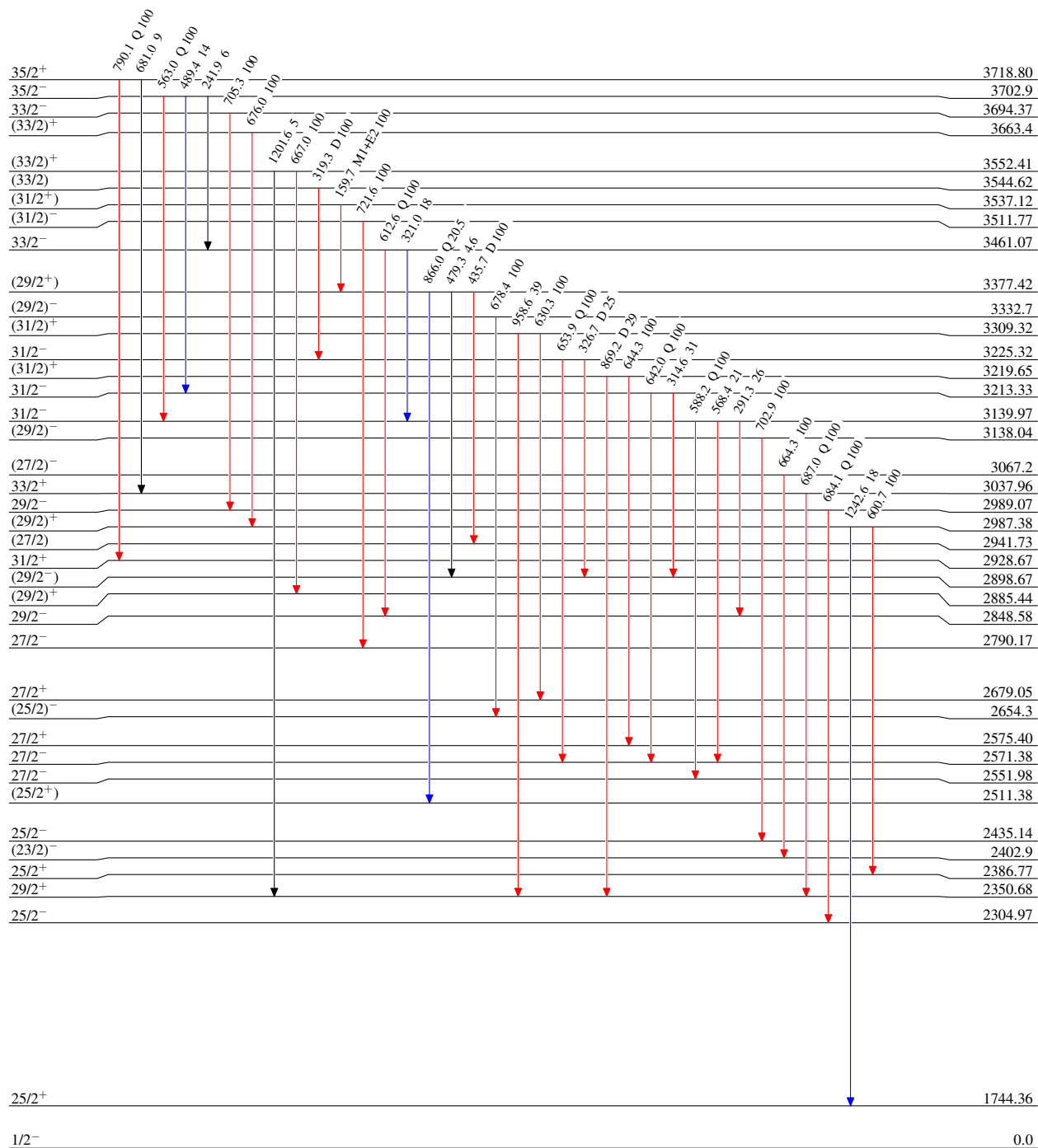
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$



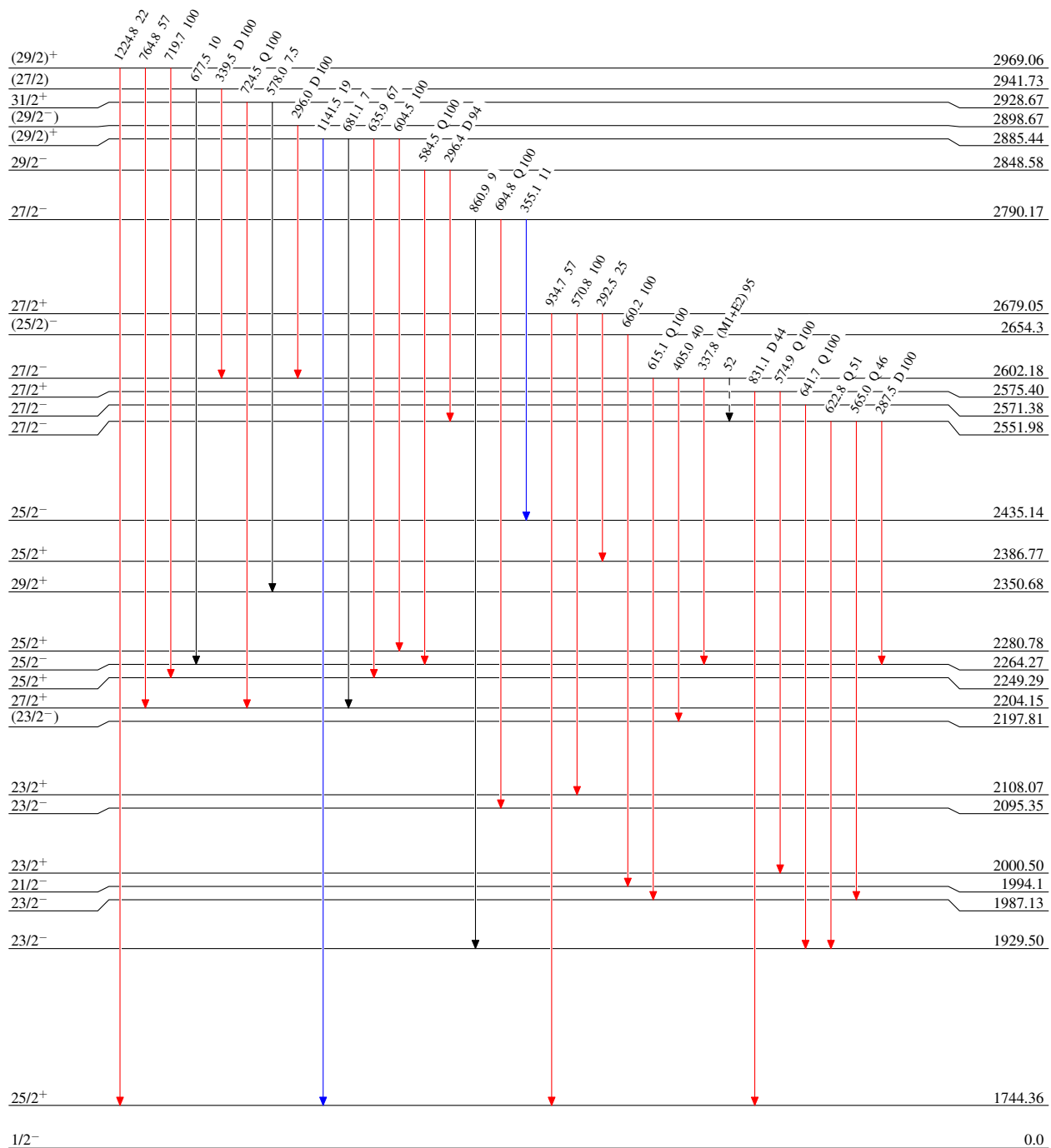
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

- ▶ I_γ < 2% × I_γ^{max}
- ▶ I_γ < 10% × I_γ^{max}
- ▶ I_γ > 10% × I_γ^{max}
- - - -▶ γ Decay (Uncertain)



5.5 ns 10

93.6 d 5

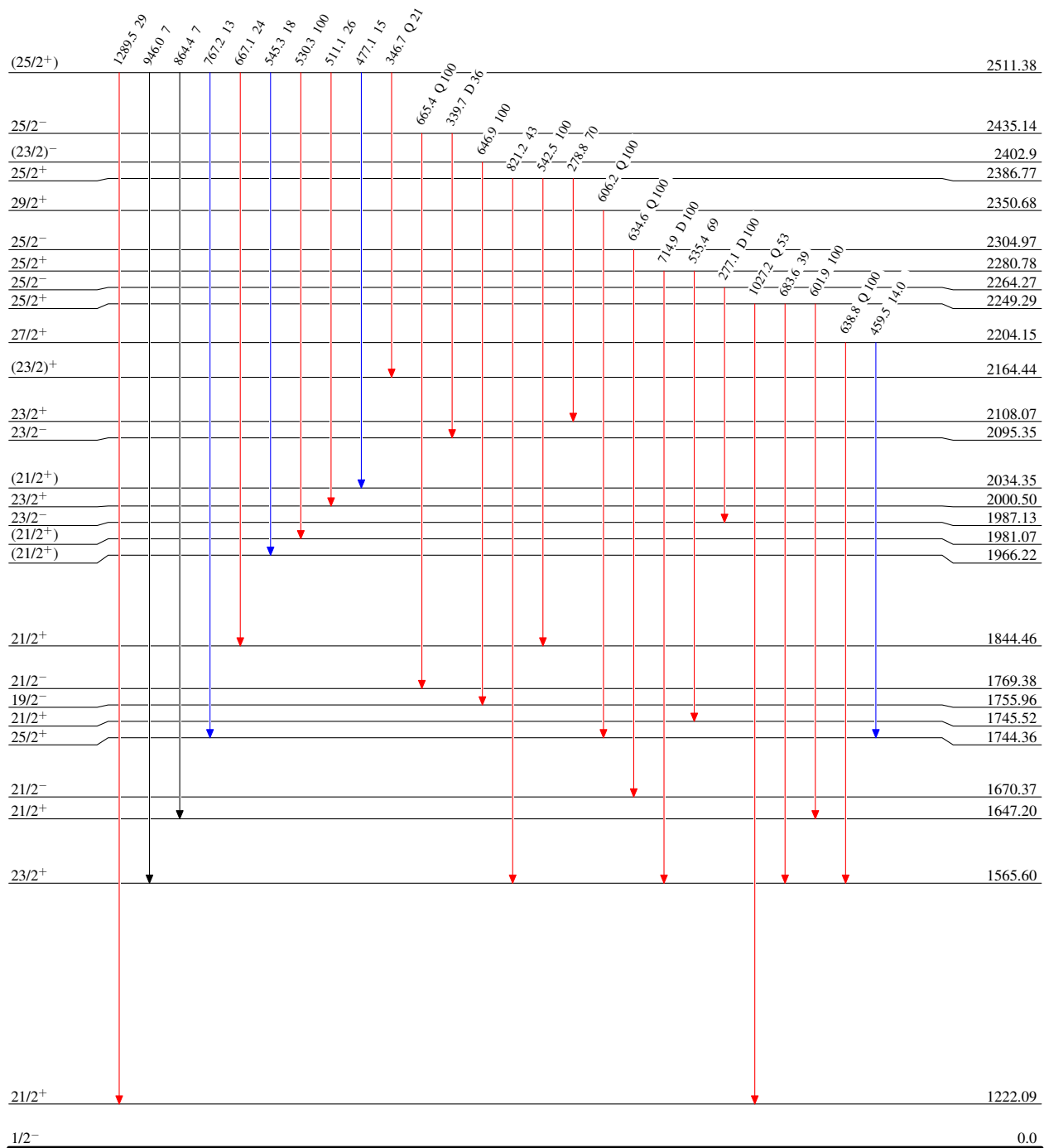
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$



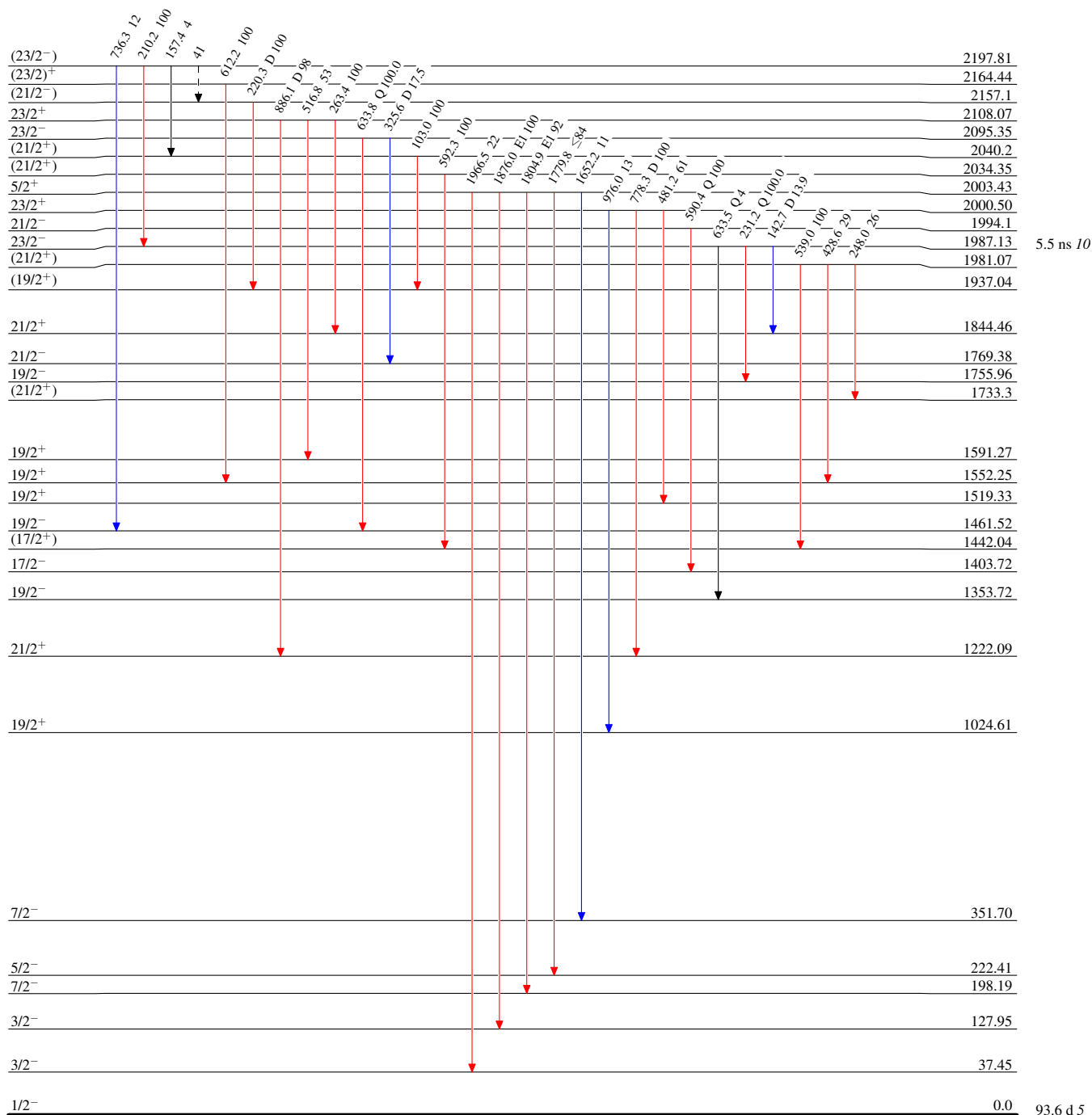
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

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



$^{185}_{76}\text{Os}_{109}$

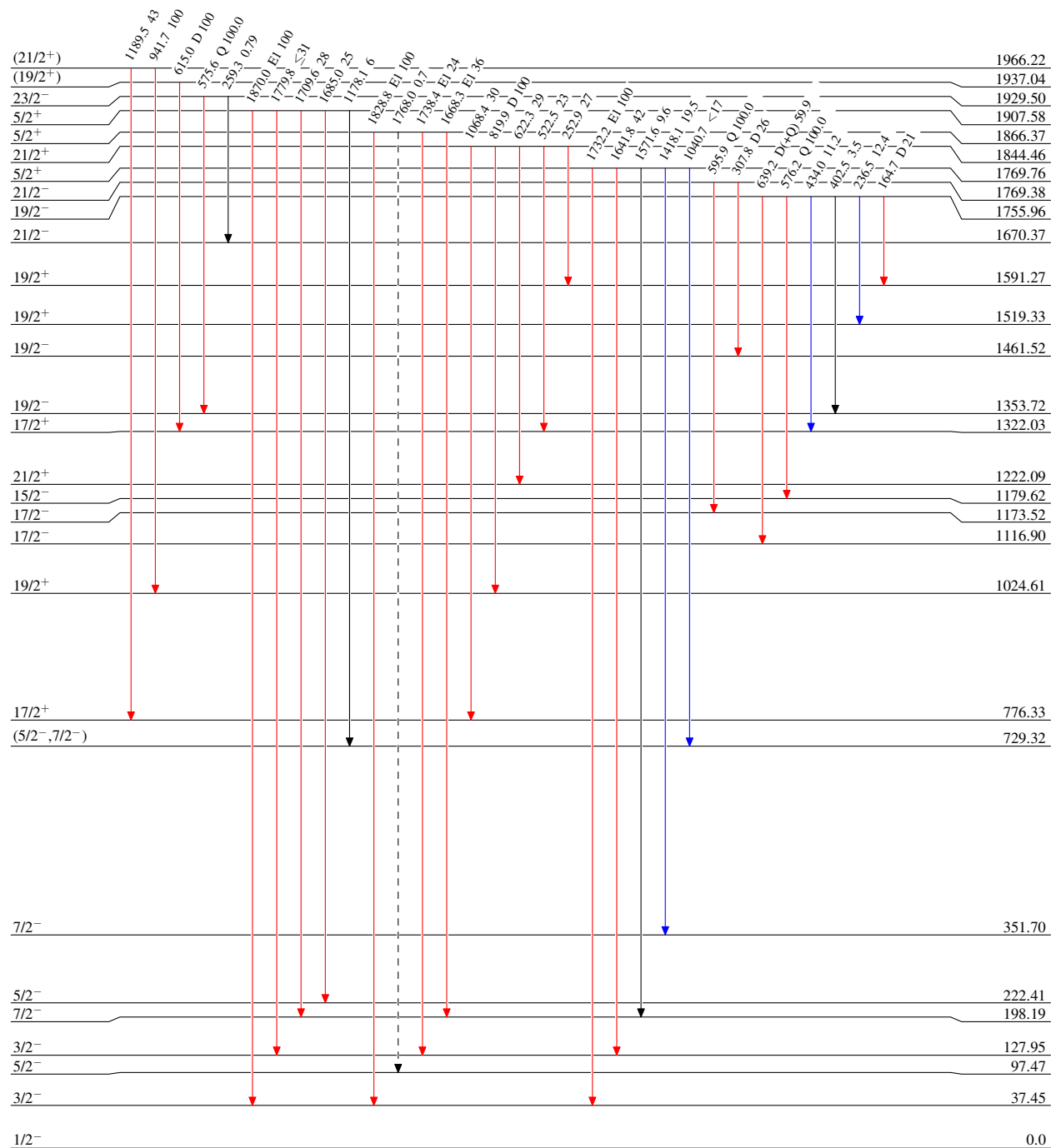
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

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



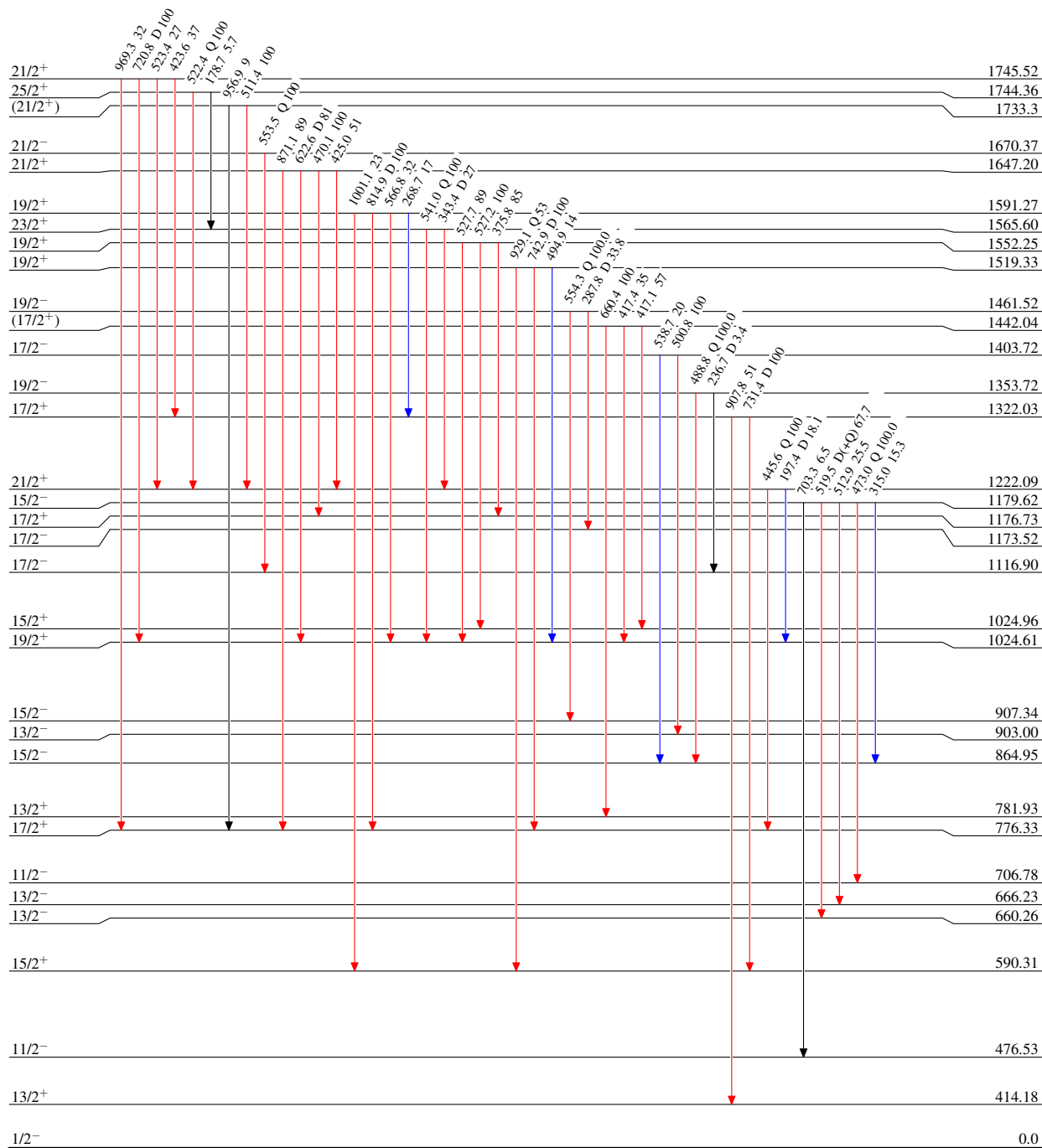
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$



93.6 d 5

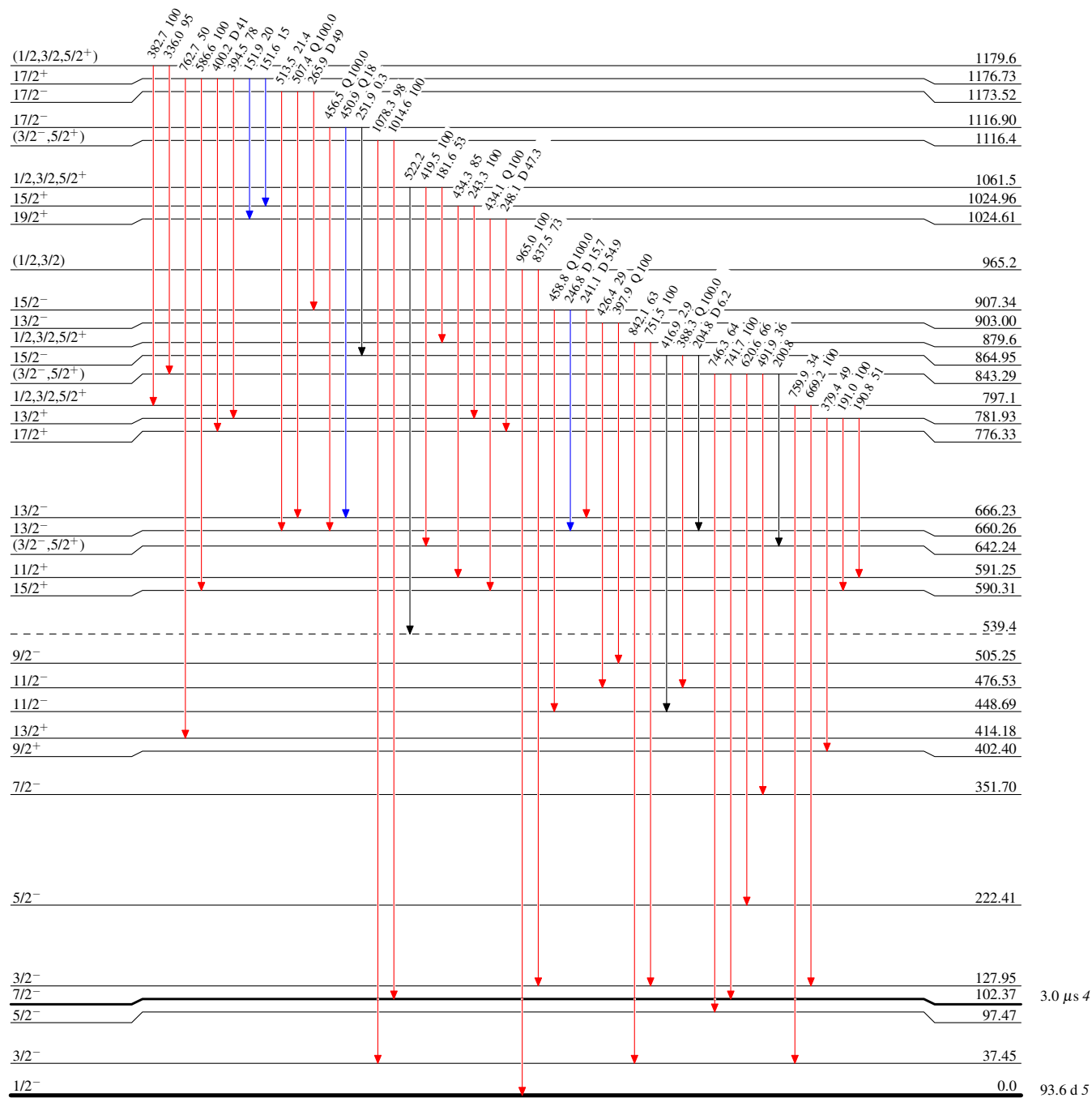
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- ▶ $I_\gamma < 2\% \times I_\gamma^{max}$
- ▶ $I_\gamma < 10\% \times I_\gamma^{max}$
- ▶ $I_\gamma > 10\% \times I_\gamma^{max}$



$^{185}_{76}\text{Os}_{109}$

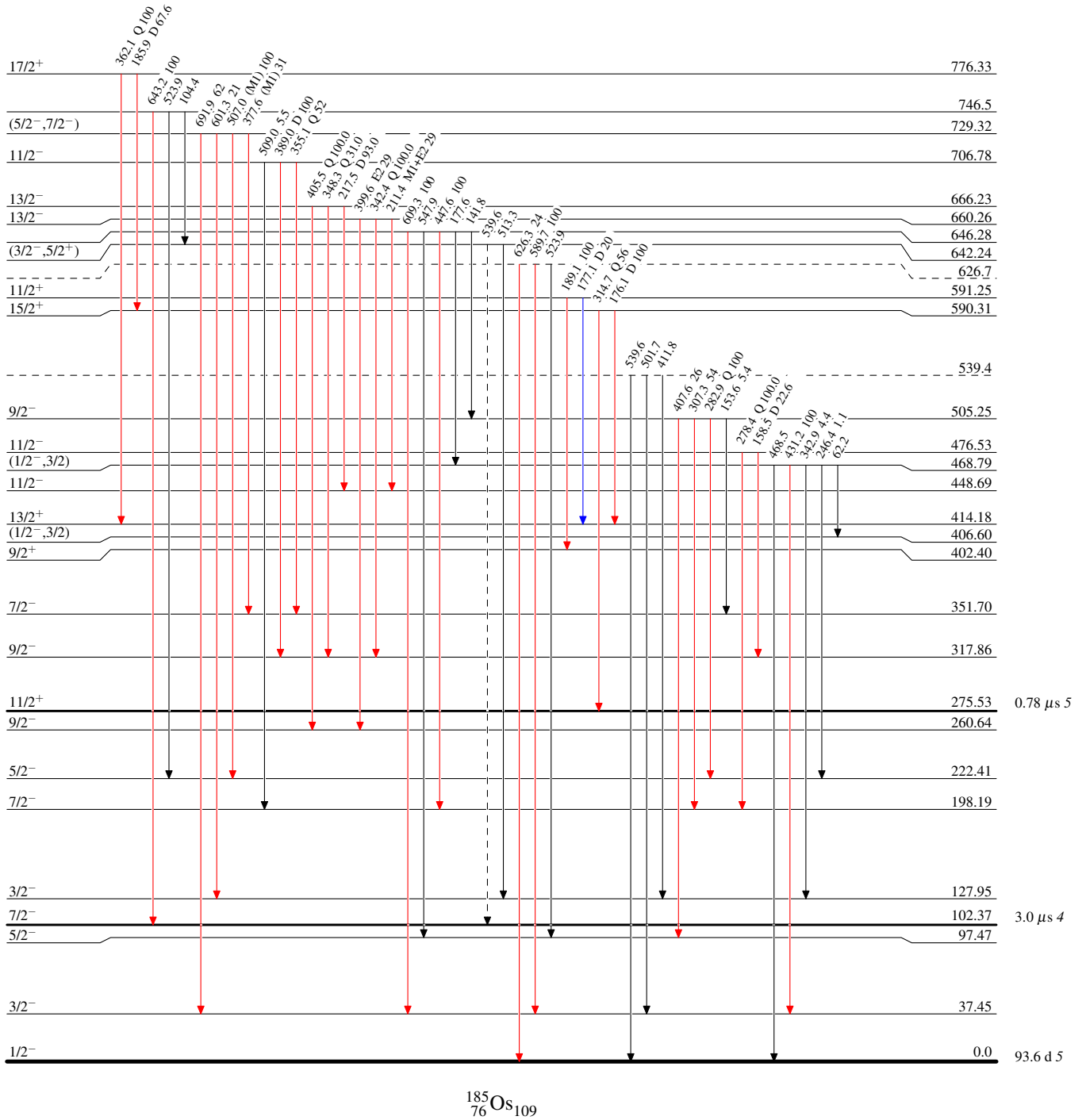
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

- ▶ I_γ < 2% × I_γ^{max}
- ▶ I_γ < 10% × I_γ^{max}
- ▶ I_γ > 10% × I_γ^{max}
- - - -▶ γ Decay (Uncertain)



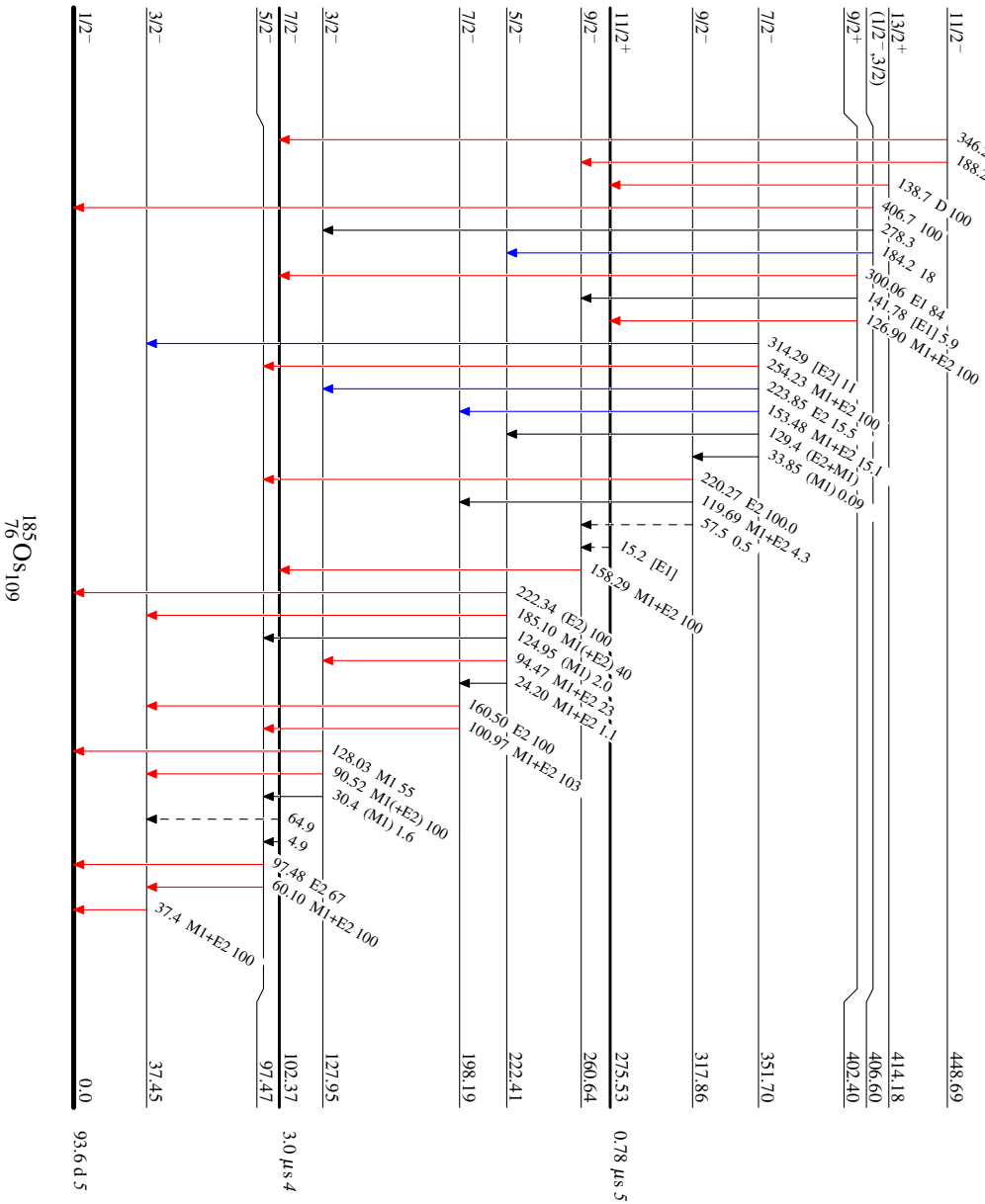
¹⁸⁵₇₆Os₁₀₉

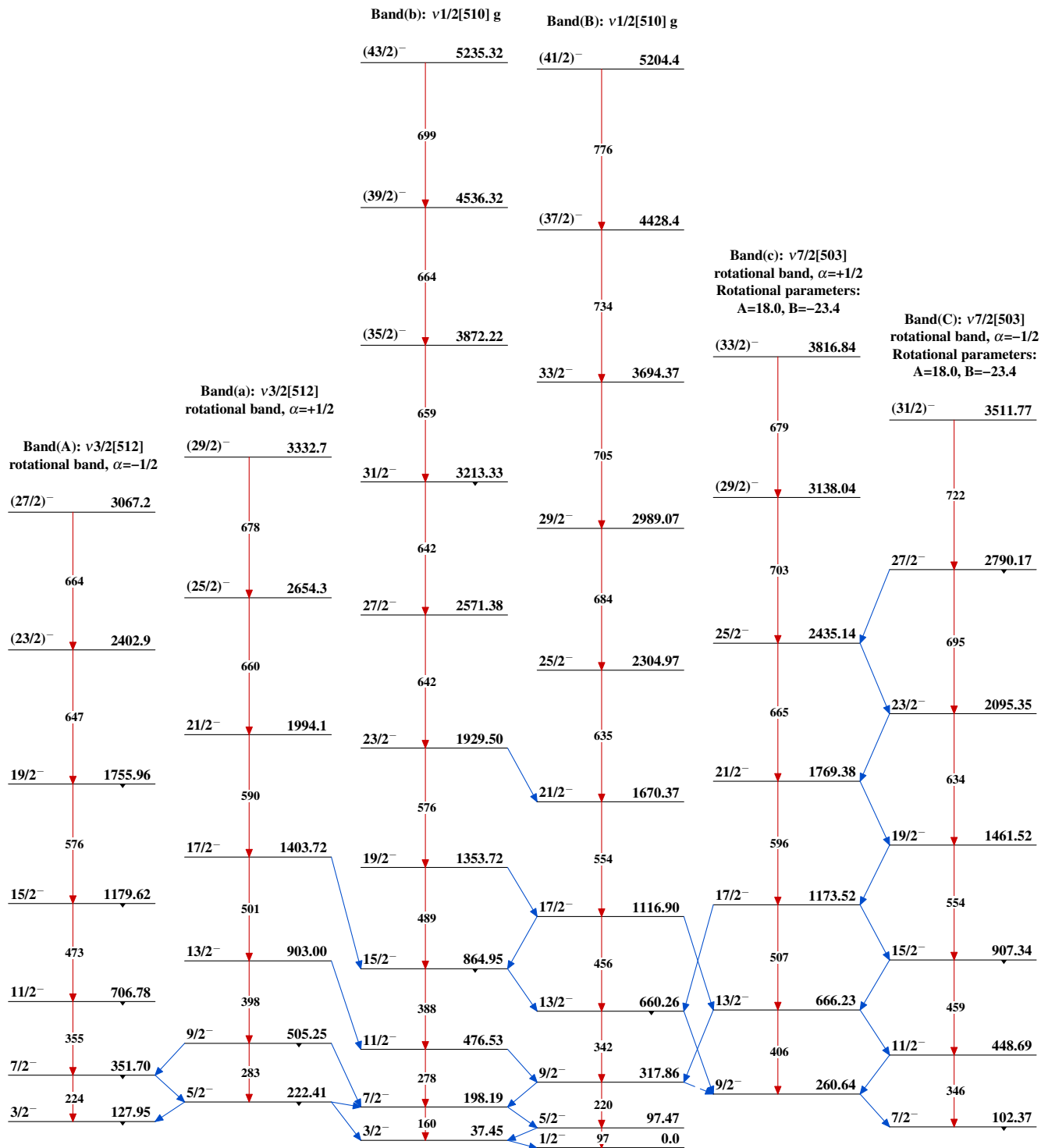
Adopted Levels, Gammas

Level Scheme (continued)

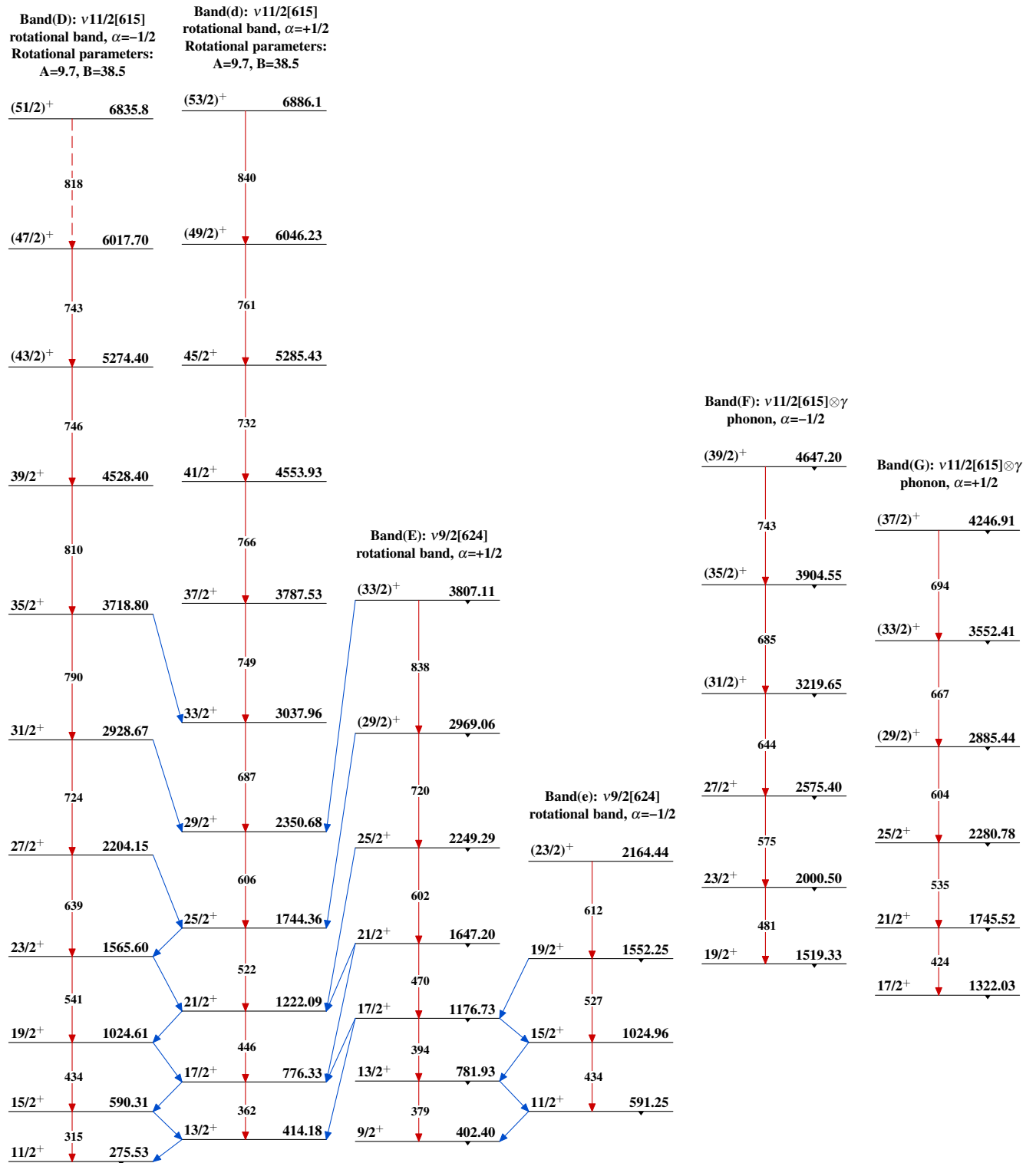
Intensities: Type not specified

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



Adopted Levels, Gammas $^{185}_{76}\text{Os}_{109}$

Adopted Levels, Gammas (continued)



Adopted Levels, Gammas (continued)

