

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106,367 (2005)	31-Aug-2005

Q(β⁻)=-4.08×10³ 4; S(n)=7.26×10³ 3; S(p)=5.00×10³ 4; Q(α)=3.73×10³ 4 [2012Wa38](#)

Note: Current evaluation has used the following Q record \$ -4080 40 7270 40 5000 40 3720 40 [2003Au03](#).

¹⁸¹Os Levels

Cross Reference (XREF) Flags

- A ¹⁸¹Ir ε decay
- B ¹⁸⁵Pt α decay
- C ¹⁸²W(α,5nγ), ¹⁸⁵Re(p,5nγ)
- D (HI,xnγ)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0.0 ^l	1/2 ⁻	105 min 3	ABCD	%ε+%β ⁺ =100 T _{1/2} : from 1966Ho16 . Others: 1966Be47 , 1968Be43 , 1969Hu03 . J ^π : Coriolis coupled bandhead. Shell model calculations predict the low-lying states of ν1/2[521], (g.s.) ν7/2[514] (49.22) and ν9/2[624] (156.93) configurations. The ground state is assigned as ν1/2[521], and it ε decays to 1/2 ⁻ , 3/2 ⁻ members of 1/2[541] band in ¹⁸¹ Re.
49.20 ^f 14	7/2 ⁻	2.7 min 1	A CD	%ε+%β ⁺ ≈100; %IT≤3 (1998Ro32) T _{1/2} : from 1967Go25 . Other value: 2.8 min 1 (1966At06). J ^π : log ft≈4.7 to 9/2 ⁻ [514] of ¹⁸¹ Re and no population to higher band members. Band head of ν7/2[514] configuration. See comments in the J ^π argument of the ground state.
93.90 ^k 7	3/2 ⁻		A D	
102.76 ^l 7	5/2 ⁻		A CD	J ^π : E2 to 1/2 ⁻ .
156.91 [@] 15	9/2 ⁺	262 ns 6	A CD	T _{1/2} : from γγ(t) (HI,xnγ) (2003Cu03). Other: 316 ns 18 from (p,5nγ) (1974Ka19). J ^π : E1 to 7/2 ⁻ . See comments in the J ^π argument of the ground state.
172.76 ^e 14	9/2 ⁻		A CD	J ^π : M1 to 7/2 ⁻ .
200.27 [#] 16	11/2 ⁺		A CD	J ^π : D to 9/2 ⁺ .
274.27 [@] 17	13/2 ⁺		CD	J ^π : D to 11/2 ⁺ , E2 to 9/2 ⁺ .
320.93 ^k 10	7/2 ⁻		A D	
321.02 ^f 14	11/2 ⁻		A CD	J ^π : D to 9/2 ⁻ , E2 to 7/2 ⁻ .
334.26 ^l 10	9/2 ⁻		A CD	J ^π : E2 to 5/2 ⁻ .
341.24 20	(7/2 ⁺)		A	J ^π : γ to 9/2 ⁺ and 7/2 ⁻ .
368.02 15	(5/2 ⁻)		A	J ^π : γ to 9/2 ⁻ and 3/2 ⁻ .
423.12 [#] 17	15/2 ⁺		CD	J ^π : D to 13/2 ⁺ , E2 to 11/2 ⁺ .
423.88 20	(7/2 ⁻)		A	J ^π : γ to 9/2 ⁻ and 5/2 ⁻ .
491.34 ^e 15	13/2 ⁻	22.4 ^z ps 11	CD	J ^π : D to 11/2 ⁻ , E2 to 9/2 ⁻ .
507.06 15	7/2 ⁻		A	J ^π : γ to states of 9/2 ⁻ , 9/2 ⁺ and 3/2 ⁻ .
509.30 19	(9/2 ⁺)		A	J ^π : γ to (7/2 ⁺) and 11/2 ⁺ .
525.1 3			A	
531.12 [@] 18	17/2 ⁺		CD	J ^π : D to 15/2 ⁺ , E2 to 13/2 ⁺ .
574.3 4	(9/2 ⁻)		A	
575.80 22			A	
640.35 16			A	
663.65 ^k 16	11/2 ⁻		A D	
677.22 ^l 11	13/2 ⁻	10.5 ^z ps 7	CD	J ^π : E2 to 9/2 ⁻ .

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Adopted Levels, Gammas (continued) ^{181}Os Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
682.33 ^f 15	15/2 ⁻	9.4 ^z ps 6	CD	J ^π : D to 13/2 ⁻ , E2 to 11/2 ⁻ .
685.1 3			A	
749.30 20			A	
788.28 [#] 18	19/2 ⁺		CD	J ^π : D to 17/2 ⁺ , E2 to 15/2 ⁺ .
891.08 ^e 15	17/2 ⁻	4.9 ^z ps 4	CD	J ^π : E2 to 13/2 ⁻ .
895.91 [@] 18	21/2 ⁺		CD	J ^π : E2 to 17/2 ⁺ .
1094.45 ^k 19	15/2 ⁻		D	
1098.95 ^l 13	17/2 ⁻	3.5 ^z ps 4	CD	J ^π : E2 to 13/2 ⁻ .
1116.59 ^f 15	19/2 ⁻	2.38 ^z ps 17	CD	J ^π : D to 17/2 ⁻ , E2 to 15/2 ⁻ .
1270.78 [#] 22	23/2 ⁺		CD	J ^π : E2 to 19/2 ⁺ .
1355.40 ^e 15	21/2 ⁻	2.32 ^z ps 16	CD	J ^π : E2 to 17/2 ⁻ .
1359.59 [@] 22	25/2 ⁺		CD	J ^π : E2 to 21/2 ⁺ .
1554.01 ^l 14	21/2 ⁻	2.8 ^z ps 5	CD	J ^π : E2 to 17/2 ⁻ .
1583.15 ^k 22	19/2 ⁻		D	
1606.76 ^f 15	23/2 ⁻		CD	J ^π : E2 to 19/2 ⁻ .
1688.6? 3			A	
1701.67? 22			A	
1722.4? 3			A	
1744.12 18	21/2 ⁺	7 ^x ns 2	CD	T _{1/2} : Other: 13 ns 2. quoted by 1995Ku14 in (HI,xnγ) from a priv comm. with Ts. Venkova (1990). Configuration= $\nu 7/2[514](\nu 9/2[624]\nu 5/2[512])$. J ^π : $\Delta J=0$ to 21/2 ⁺ , and D from 23/2 ⁻ member of the $K^{\pi}=23/2^{-}$ t-band.
1848.26 [#] 24	27/2 ⁺		CD	J ^π : E2 to 23/2 ⁺ .
1868.19 ^e 15	25/2 ⁻		CD	J ^π : E2 to 21/2 ⁻ .
1875.02 ^c 17	23/2 ⁻		CD	J ^π : E1 to 21/2 ⁻ .
1907.3 [@] 3	29/2 ⁺		CD	J ^π : E2 to 25/2 ⁺ .
1920.2 ^{γa} 11			D	
1926.7 ⁱ 4	21/2 ⁻		D	J ^π : 810γ to the 19/2 ⁻ state of the $\nu 7/2[514]$ band and 1035γ to the 17/2 ⁻ state of the $\nu 7/2[514]$ band.
1989.35 ^l 14	25/2 ⁻		CD	J ^π : E2 to 21/2 ⁻ .
2017.23 ^h 20	23/2 ⁻		D	J ^π : γ to the 19/2 ⁻ and 21/2 ⁻ states of $\nu 7/2[514]$ band.
2079.11 ^b 17	25/2 ⁻		CD	J ^π : D to 23/2 ⁻ .
2099.9 ^k 3	23/2 ⁻		D	
2138.29 ^f 16	27/2 ⁻		CD	J ^π : D to 25/2 ⁻ , E2 to 23/2 ⁻ .
2141.25 ⁱ 20	25/2 ⁻		D	J ^π : 123.6γ D to 23/2 ⁻ .
2142.2 ^{γ&} 13			D	
2176.81 ⁿ 15	25/2 ⁻		D	J ^π : 189γ (M1) to the 25/2 ⁻ state of the $\nu 1/2[521]$ band and 622γ to the 21/2 ⁻ state of the $\nu 1/2[521]$ band.
2293.39 ^c 17	27/2 ⁻		CD	J ^π : D to 25/2 ⁻ .
2301.39 ^h 18	27/2 ⁻		D	J ^π : 159.8γ D to 25/2 ⁻ , 283.9γ E2 to 23/2 ⁻ .
2384.31 ^l 15	29/2 ⁻		CD	J ^π : 395.0 γ E2 to 25/2 ⁻ .
2393.1 ^{γa} 13			D	
2415.90 ^e 15	29/2 ⁻		CD	J ^π : D to 27/2 ⁻ , E2 to 25/2 ⁻ .
2491.73 ⁱ 20	29/2 ⁻		D	J ^π : 190.0γ D to 27/2 ⁻ .
2492.3 [#] 5	31/2 ⁺		CD	J ^π : E2 to 27/2 ⁺ .
2507.6 [@] 5	33/2 ⁺		CD	J ^π : E2 to 29/2 ⁺ .
2522.74 ^b 15	29/2 ⁻		CD	J ^π : E2 to 25/2 ⁻ state of $\nu 7/2[514]$ band.
2609.6 ^k 4	27/2 ⁻		D	
2628.39 ⁿ 17	29/2 ⁻		D	

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Adopted Levels, Gammas (continued) ^{181}Os Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
2632.40 24	(25/2 ⁻)		D	
2646.04 23	(23/2 ⁻)		D	
2647.2?& 14			D	
2658.8 3	(31/2 ⁺)		D	
2699.76 ^f 17	31/2 ⁻		CD	J ^π : E2 to 27/2 ⁻ .
2714.01 ^h 20	31/2 ⁻		D	J ^π : D to 29/2 ⁻ , E2 to 27/2 ⁻ .
2768.32 ^c 17	31/2 ⁻		D	J ^π : E2 to 27/2 ⁻ state of ν7/2[514] band.
2824.23 ^l 16	33/2 ⁻		CD	J ^π : E2 to 29/2 ⁻ .
2903.1? ^a 15			D	
2960.29 ⁱ 21	33/2 ⁻		D	J ^π : D to 31/2 ⁻ .
2981.05 ^e 16	33/2 ⁻		CD	J ^π : E2 to 29/2 ⁻ .
3039.71 22	(31/2 ⁺)		D	
3040.55 ^b 17	33/2 ⁻		D	J ^π : E2 to 29/2 ⁻ state of ν7/2[514] band.
3054.36 17	(29/2 ⁻)		D	
3092.29 15	(29/2 ⁻)		D	
3107.5@ 5	37/2 ⁺		CD	J ^π : E2 to 33/2 ⁺ .
3107.9 ^k 4	31/2 ⁻		D	
3108.9 4	(29/2 ⁻)		D	
3163.5# 5	35/2 ⁺		CD	J ^π : E2 to 31/2 ⁺ .
3182.1?& 17			D	
3192.0 ⁿ 3	33/2 ⁻		D	
3235.52 ^h 20	35/2 ⁻		D	J ^π : E2 to 31/2 ⁻ .
3259.09 20	(31/2 ⁺)		D	
3266.65 ^f 25	35/2 ⁻		CD	J ^π : E2 to 31/2 ⁻ .
3268.4 3	(25/2 ⁻)		D	
3335.19 ^c 18	35/2 ⁻		D	J ^π : E2 to 31/2 ⁻ .
3350.74 ^l 19	37/2 ⁻		D	
3471.1? ^a 17			D	
3526.21 ⁱ 21	37/2 ⁻		D	
3536.69 20	(31/2 ⁻)		D	
3555.75 ^e 24	37/2 ⁻		D	J ^π : E2 to 33/2 ⁻ .
3579.27 15	33/2 ⁻	<5 ^x ns	D	Configuration: 5 quasiparticle state ν(7/2[514],9/2[624],1/2[521])π(5/2[402],11/2[505]). J ^π : D (ΔJ=0) to 33/2 ⁻ state at 2824.3; Q to 29/2 ⁻ state at 2384.4.
3632.8 ^k 5	35/2 ⁻		D	
3655.11 ^b 17	37/2 ⁻		D	J ^π : Q to 33/2 ⁻ state of ν7/2[514] band.
3694.2@ 5	41/2 ⁺		CD	J ^π : E2 to 37/2 ⁺ .
3738.67 18	35/2 ⁻	24 ns 4	D	Configuration: 5 quasiparticle state ν(7/2[514],9/2[624],1/2[521])π(7/2[404],11/2[505]). T _{1/2} : from γγ(t) (HI,xnγ) (2003Cu03). Other: 34 ns 6 from 1991VeZV. J ^π : M1 to K=33/2 ⁻ state.
3780.1?& 20			D	
3798.5 ^o 3	37/2 ⁻		D	
3816.6# 7	39/2 ⁺		D	J ^π : E2 to 35/2 ⁺ .
3842.74 ^h 21	39/2 ⁻		D	
3864.1 ^f 3	39/2 ⁻		D	
3877.0 ⁿ 4	37/2 ⁻		D	
3914.55 ^q 21	37/2 ⁺		D	J ^π : E1 to K=35/2 ⁻ state.
3969.24 ^l 21	41/2 ⁻	0.319 ^y ps 21	D	

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Adopted Levels, Gammas (continued) ^{181}Os Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
3974.5 ^c 3	39/2 ⁻		D	
4139.91 24	(39/2 ⁺)		D	J ^π : D to K=37/2 ⁺ state.
4165.39 ⁱ 23	41/2 ⁻		D	
4168.8 ^k 5	39/2 ⁻		D	
4173.90 ^j 23	(41/2 ⁻)		D	
4184.8 ^e 3	41/2 ⁻		D	J ^π : E2 to 37/2 ⁻ .
4321.8 [@] 6	45/2 ⁺	0.291 ^y ps 28	D	J ^π : E2 to 41/2 ⁺ .
4326.83 ^p 23	(39/2 ⁺)		D	J ^π : D to 37/2 ⁺ 4.
4336.01 ^b 20	41/2 ⁻		D	J ^π : E2 to 37/2 ⁻ .
4447.6 ^o 4	41/2 ⁻		D	
4459.9 [#] 10	43/2 ⁺		D	
4511.9 ^h 3	43/2 ⁻		D	
4521.83 ^s 23	(41/2 ⁺)	<3 ns	D	T _{1/2} : from the minimum lifetime obtainable from the Ey-time lifetime analysis with the large-volume GAMMASPHERE detectors in (HI,xny) (2003Cu03). J ^π : D to (39/2 ⁺). J ^π : E2 to 39/2 ⁻ .
4527.3 ^f 3	43/2 ⁻		D	J ^π : E2 to 39/2 ⁻ .
4612.8 ⁿ 5	41/2 ⁻		D	
4631.93 ^q 24	(41/2 ⁺)		D	J ^π : D to (39/2 ⁺).
4674.05 ^l 23	45/2 ⁻	0.152 ^y ps 14	D	
4685.4 ^c 3	43/2 ⁻		D	
4794.1 ^j 3	(45/2 ⁻)		D	
4843.7 ⁱ 5	45/2 ⁻		D	
4844.31 ^r 24	(43/2 ⁺)		D	J ^π : D to (41/2 ⁺).
4887.6 ^e 3	45/2 ⁻		D	J ^π : E2 to 41/2 ⁻ .
4947.2 ^v 3	(43/2 ⁻)		D	J ^π : D to (41/2 ⁺) state of K=37/2 ⁺ band.
5030.0 [@] 7	49/2 ⁺	0.215 ^y ps 21	D	J ^π : E2 to 45/2 ⁺ .
5061.11 ^b 23	45/2 ⁻		D	J ^π : E2 to 41/2 ⁻ .
5112.92 ^p 23	(43/2 ⁺)		D	J ^π : D to (41/2 ⁺); Q to (39/2 ⁺).
5166.0 ^o 4	45/2 ⁻		D	
5169.9 [#] 11	47/2 ⁺		D	J ^π : E2 to 43/2 ⁺ .
5178.68 ^s 25	(45/2 ⁺)		D	J ^π : D to (43/2 ⁺); E2 to (41/2 ⁺).
5211.7 ^h 4	47/2 ⁻		D	
5259.9 ^f 4	47/2 ⁻		D	J ^π : E2 to 43/2 ⁻ .
5274.0 ^w 3	(45/2 ⁻)		D	J ^π : D to (43/2 ⁻).
5379.1 ⁿ 6	45/2 ⁻		D	
5427.3 ^c 3	47/2 ⁻		D	
5454.9 ^l 3	49/2 ⁻	0.159 ^y ps 14	D	J ^π : E2 to 45/2 ⁻ .
5469.1 ^q 3	(45/2 ⁺)		D	J ^π : D to (43/2 ⁺); Q to (41/2 ⁺).
5490.9 ^j 4	(49/2 ⁻)		D	
5509.8 ^u 3	(47/2 ⁺)		D	J ^π : D to (45/2 ⁺) and Q to (43/2 ⁺), members of K=41/2 ⁺ band.
5523.8 ^r 3	(47/2 ⁺)		D	J ^π : D to (45/2 ⁺); E2 to (43/2 ⁺).
5541.7 ⁱ 7	49/2 ⁻		D	
5614.1 ^v 11	(47/2 ⁻)		D	J ^π : D to (45/2 ⁻).
5654.1 ^d 3	49/2 ⁻		D	J ^π : Q to 45/2 ⁻ .
5673.6 ^e 4	49/2 ⁻		D	J ^π : E2 to 45/2 ⁻ .
5808.81 ^b 25	49/2 ⁻		D	J ^π : E2 to 45/2 ⁻ .
5832.0 ^p 3	(47/2 ⁺)		D	J ^π : D to (45/2 ⁺).
5832.3 [@] 10	53/2 ⁺	0.173 ^y ps 14	D	

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Adopted Levels, Gammas (continued)

^{181}Os Levels (continued)					
E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments	
5879.6 ^s 3	(49/2 ⁺)		D	J ^π : D to (47/2 ⁺); E2 to (45/2 ⁺).	
5922.1 ^o 8	49/2 ⁻		D		
5931.1 ^h 6	51/2 ⁻		D		
5963.8 [#] 11	51/2 ⁺		D		
5965.3 ^w 4	(49/2 ⁻)		D	J ^π : Q to (45/2 ⁻).	
6020.1 ^g 4	51/2 ⁻		D	J ^π : Q to 47/2 ⁻ .	
6061.1 ^f 4	51/2 ⁻		D	J ^π : E2 to 47/2 ⁻ .	
6177.9 ^u 4	(51/2 ⁺)		D	J ^π : E2 to (47/2 ⁺).	
6181.5 ⁿ 7	(49/2 ⁻)		D		
6191.3 ^c 4	51/2 ⁻		D		
6208.2 ^q 3	(49/2 ⁺)		D	J ^π : D to (47/2 ⁺).	
6242.3 ^r 3	(51/2 ⁺)		D	J ^π : D to (49/2 ⁺); E2 to (47/2 ⁺).	
6264.0 ⁱ 9	53/2 ⁻		D		
6279.0 ^j 4	(53/2 ⁻)		D		
6301.3 ^l 3	53/2 ⁻	0.180 ^y ps 21	D		
6403.5 ^d 4	53/2 ⁻		D	J ^π : E2 to 49/2 ⁻ .	
6475.5 ^p 3	(51/2 ⁺)		D	J ^π : D to (49/2 ⁺); Q to (47/2 ⁺).	
6521.1 ^e 6	53/2 ⁻		D		
6574.8 ^b 11	53/2 ⁻		D		
6607.2 ^v 3	(51/2 ⁻)		D	J ^π : D to (49/2 ⁺) state of K=37/2 ⁺ band.	
6614.6 ^s 4	(53/2 ⁺)		D	J ^π : D to (51/2 ⁺); E2 to (49/2 ⁺).	
6678.7 ^h 10	55/2 ⁻		D		
6729.6 ^o 9	53/2 ⁻		D		
6730.2 [@] 11	57/2 ⁺	0.125 ^y ps +21-14	D		
6806.6 ^g 5	55/2 ⁻		D	J ^π : E2 to 51/2 ⁻ .	
6840.5 [#] 13	55/2 ⁺		D		
6855.1 ^t 4	(55/2 ⁺)		D	J ^π : Q to (51/2 ⁺).	
6874.1 ^u 4	(55/2 ⁺)		D	J ^π : E2 to (51/2 ⁺).	
6905.1 ^f 4	55/2 ⁻		D		
6921.5 ^q 4	(53/2 ⁺)		D	J ^π : D to (51/2 ⁺).	
6991.6 ^r 5	(55/2 ⁺)		D	J ^π : D to (53/2 ⁺); E2 to (51/2 ⁺).	
6995.9 ^c 4	55/2 ⁻		D		
6999.5 ⁱ 10	(57/2 ⁻)		D		
7014.6 ⁿ 7	(53/2 ⁻)		D		
7138.0 ^j 5	(57/2 ⁻)		D		
7200.3 ^l 3	57/2 ⁻		D		
7213.9 ^m 4	(57/2 ⁻)		D		
7229.6 ^d 4	57/2 ⁻		D		
7243.7 4	(55/2 ⁺)		D	J ^π : D to (53/2 ⁺) state of K=37/2 ⁺ band.	
7353.9 ^p 4	(55/2 ⁺)		D	J ^π : D to (53/2 ⁺).	
7362.0 ^e 7	57/2 ⁻		D		
7363.0 ^b 11	57/2 ⁻		D		
7381.6 ^s 5	(57/2 ⁺)		D	J ^π : D to (55/2 ⁺); E2 to (53/2 ⁺).	
7456.1 ^h 10	59/2 ⁻		D		
7486.9 4	(55/2 ⁺)		D	J ^π : Q to (51/2 ⁺) and (53/2 ⁺) states of K=37/2 ⁺ band.	
7509.2 ^t 5	(59/2 ⁺)		D	J ^π : E2 to (55/2 ⁺).	
7528.3 4	(57/2 ⁺)		D	J ^π : D to (55/2 ⁺).	
7583.9 ^o 10	57/2 ⁻		D		
7629.1 ^u 6	(59/2 ⁺)		D	J ^π : E2 to (55/2 ⁺).	

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Adopted Levels, Gammas (continued) ^{181}Os Levels (continued)

E(level) [†]	J ^π [‡]	XREF	Comments
7664.6 ^g 5	59/2 ⁻	D	
7727.5 [@] 12	61/2 ⁺	D	
7750.4 ⁱ 11	(61/2 ⁻)	D	
7773.5 ^r 11	(59/2 ⁺)	D	J ^π : E2 to (55/2 ⁺).
7794 [#] 5	59/2 ⁺	D	
7803.1 ^f 4	59/2 ⁻	D	
7842.9 ^c 5	59/2 ⁻	D	
7864.1 ⁿ 8	(57/2 ⁻)	D	
7927.1 ^q 4	(57/2 ⁺)	D	J ^π : D to (55/2 ⁺).
8095.6 ^d 11	61/2 ⁻	D	
8164.0 ^b 15	(61/2 ⁻)	D	
8169.9 ^m 5	(61/2 ⁻)	D	
8173.6 ^s 6	(61/2 ⁺)	D	J ^π : E2 to (57/2 ⁺).
8173.8 ^l 4	61/2 ⁻	D	
8231.8 ^t 6	(63/2 ⁺)	D	J ^π : E2 to (59/2 ⁺).
8259.8 ^e 11	61/2 ⁻	D	
8261.9 ^h 11	(63/2 ⁻)	D	
8452.4 ^p 4	(59/2 ⁺)	D	J ^π : D to (57/2 ⁺).
8457.4 ^u 8	(63/2 ⁺)	D	J ^π : Q to (59/2 ⁺).
8590.4 ^g 6	63/2 ⁻	D	
8716.9 ^c 11	63/2 ⁻	D	
8766.9 ^q 5	(61/2 ⁺)	D	J ^π : D to (59/2 ⁺).
8782.7 ^f 4	63/2 ⁻	D	
8818.1 [@] 15	65/2 ⁺	D	
8826 [#] 5	63/2 ⁺	D	
8971.3 ^{?t} 6	(67/2 ⁺)	D	J ^π : Q to (63/2 ⁺).
8980.6 ^d 15	(65/2 ⁻)	D	
9091.1 ^h 11	(67/2 ⁻)	D	
9177.6 ^m 6	(65/2 ⁻)	D	
9191 ^e 3	65/2 ⁻	D	
9202.9 ^l 4	65/2 ⁻	D	
9573.0 ^g 6	67/2 ⁻	D	
9612.9 ^c 15	67/2 ⁻	D	
9860.1 ^f 6	67/2 ⁻	D	
9919 [#] 5	67/2 ⁺	D	
9999.9 [@] 18	(69/2 ⁺)	D	
10229.3 ^m 6	(69/2 ⁻)	D	
10308.6 ^l 7	69/2 ⁻	D	
10544.9 ^c 18	71/2 ⁻	D	
10596.5 ^g 7	71/2 ⁻	D	
11004.1 ^f 10	(71/2 ⁻)	D	
11263.3 [@] 20	(73/2 ⁺)	D	
11317.3 ^m 11	(73/2 ⁻)	D	
11464.1 ^l 8	73/2 ⁻	D	
11652.1 ^g 7	75/2 ⁻	D	
12585.2 [@] 22	(77/2 ⁺)	D	
12741.5 ^g 8	(79/2 ⁻)	D	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

¹⁸¹Os Levels (continued)

- † From least-squares fit to γ energies by evaluator. 0.3 keV uncertainty assumed when not reported.
- ‡ From band assignments and connecting dipole and stretched E2 transitions as proposed in (HI,xny) experiments. Additional arguments are given in comments.
- # Band(A): $\nu 9/2[624]$, $\alpha=-1/2$ A=7.3 keV, B=19.0 eV, fit to levels J=11/2⁺ to 23/2⁺.
- @ Band(a): $\nu 9/2[624]$, $\alpha=+1/2$ A=4.7 keV, B=29 eV, fit to levels J=9/2⁺ to 21/2⁺.
- & Band(B): coupled band (?).
- ^a Band(b): coupled band (?).
- ^b Band(c): t-band, $K^\pi=23/2^-$, $\alpha=+1/2$. Configuration= $\nu 7/2[514](\nu 9/2[624]\nu 7/2[633])$ A=7.5 keV, B=2.48 eV, fit to levels J=25/2⁻ to 37/2⁻.
- ^c Band(C): t-band, $K^\pi=23/2^-$, $\alpha=-1/2$. Configuration= $\nu 7/2[514](\nu 9/2[624]\nu 7/2[633])$ A=7.8 keV, B=1.42 eV, fit to levels J=23/2⁻ to 35/2⁻.
- ^d Band(D): Band based on 49/2⁻, $\alpha=+1/2$. From crossing of $\nu 7/2[514]$, $\alpha=-1/2$ band by another sequence.
- ^e Band(e): $\nu 7/2[514]$, $\alpha=+1/2$ A=13.9 keV, B=-12.9 eV, fit to levels J=9/2⁻ to 21/2⁻.
- ^f Band(E): $\nu 7/2[514]$, $\alpha=-1/2$ A=13.9 keV, B=-13.5 eV, fit to levels J=7/2⁻ to 19/2⁻.
- ^g Band(F): Band based on 51/2⁻, $\alpha=-1/2$. From crossing of $\nu 7/2[514]$, $\alpha=-1/2$ band by another sequence.
- ^h Band(G): Band based on 23/2⁻, $\alpha=-1/2$. Configuration= $\nu 9/2[624](\nu 7/2[633]\nu 1/2[521])$ A=5.0 keV, B=8.9 eV, fit to levels J=23/2⁻ to 35/2⁻.
- ⁱ Band(g): Band based on 21/2⁻, $\alpha=+1/2$. Configuration= $\nu 9/2[624](\nu 7/2[633]\nu 1/2[521])$ A=3.9 keV, B=12.3 eV, fit to levels J=21/2⁻ to 33/2⁻.
- ^j Band(H): Band based on (41/2⁻), $\alpha=+1/2$. From crossing of 21/2⁻, $\alpha=+1/2$ band by 1/2[521] or 5/2[512] orbit.
- ^k Band(i): $\nu 1/2[521]$, $\alpha=-1/2$ A=20.4 keV, B=-6.7 eV, a=0.191, fit to levels J=3/2⁻ to 15/2⁻.
- ^l Band(I): $\nu 1/2[521]$, $\alpha=+1/2$ A=15.8 keV, B=-40 eV, a=0.89, fit to levels J=1/2⁻ to 13/2⁻.
- ^m Band(J): Band based on 57/2⁻. From crossing of $\nu 1/2[521]$, $\alpha=+1/2$ band by another sequence.
- ⁿ Band(K): Band based on 25/2⁻, $\alpha=+1/2$. Possible configuration= $\nu 9/2[624]\pi(5/2[602],11/2[505])$ or $\nu 9/2[624]\pi(9/2[514],11/2[505])$. It should be noted that this band is of the same signature with the band based on 37/2⁻, but they are not signature partners.
- ^o Band(L): Band based on 37/2⁻, $\alpha=+1/2$. Possible configuration= $\nu 9/2[624]\pi(5/2[602],11/2[505])$ or $\nu 9/2[624]\pi(9/2[514],11/2[505])$. It should be noted that this band is of the same signature with the band based on 25/2⁻, but they are not signature partners.
- ^p Band(M): $K^\pi=37/2^+$, $\alpha=-1/2$. Configuration: 5 quasiparticle state $\nu(7/2[514],9/2[624],1/2[521])\pi(9/2[514],11/2[505])$.
- ^q Band(m): $K^\pi=37/2^+$, $\alpha=+1/2$. Configuration: 5 quasiparticle state $\nu(7/2[514],9/2[624],1/2[521])\pi(9/2[514],11/2[505])$.
- ^r Band(N): $K^\pi=41/2^+$, $\alpha=-1/2$. Configuration: 5 quasiparticle state $\nu(7/2[514],9/2[624],7/2[633])\pi(7/2[404],11/2[505])$.
- ^s Band(n): $K^\pi=41/2^+$, $\alpha=+1/2$. Configuration: 5 quasiparticle state $\nu(7/2[514],9/2[624],7/2[633])\pi(7/2[404],11/2[505])$.
- ^t Band(O): (55/2⁺) band, $\alpha=-1/2$.
- ^u Band(o): (47/2⁺) band, $\alpha=+1/2$.
- ^v Band(P): $K^\pi=(43/2^-)$, $\alpha=-1/2$. Configuration: 7 quasiparticle state $\nu(7/2[514],9/2[624],1/2[521])\pi(5/2[402],9/2[514],1/2[541],11/2[505])$.
- ^w Band(p): $K^\pi=(43/2^-)$, $\alpha=+1/2$. Configuration: 7 quasiparticle state $\nu(7/2[514],9/2[624],1/2[521])\pi(5/2[402],9/2[514],1/2[541],11/2[505])$.
- ^x From $\gamma\gamma(t)$ in (HI,xny) (2003Cu03).
- ^y From Doppler-shift attenuation method (DSAM) in (HI,xny) (2003Cu03).
- ^z From recoil-distance method (2002Po06).

$\gamma(^{181}\text{Os})$

<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>α&</u>	<u>Comments</u>
49.20	7/2 ⁻	(49.2)		0.0	1/2 ⁻	[M3]		
93.90	3/2 ⁻	93.86 [‡]	8	0.0	1/2 ⁻	(E2) [@]	5.75	
102.76	5/2 ⁻	102.79 [‡]	7	0.0	1/2 ⁻	E2	3.97	
156.91	9/2 ⁺	107.73 [‡]	7	49.20	7/2 ⁻	E1 [@]	0.327	B(E1)(W.u.)=4.86×10 ⁻⁷ 12

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{181}\text{Os})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha\&$	Comments
172.76	9/2 ⁻	123.57 [‡] 6	100	49.20	7/2 ⁻	M1 [@]	3.16	
200.27	11/2 ⁺	43.18 [‡] 9	100	156.91	9/2 ⁺	D		
274.27	13/2 ⁺	73.99 14	100 3	200.27	11/2 ⁺	D		
		117.68 24	18 8	156.91	9/2 ⁺	E2	2.32	
320.93	7/2 ⁻	218.28 [‡] 20	10 2	102.76	5/2 ⁻			
		227.02 [‡] 8	100 9	93.90	3/2 ⁻	E2	0.221	
321.02	11/2 ⁻	148.42 [‡] 8	28 8	172.76	9/2 ⁻	D		
		271.79 [‡] 8	100 4	49.20	7/2 ⁻	E2	0.125	
334.26	9/2 ⁻	(13.7)		320.93	7/2 ⁻			
		231.54 [‡] 7	100	102.76	5/2 ⁻	E2	0.207	
341.24	(7/2 ⁺)	184.49 [@] 22	100 [@] 7	156.91	9/2 ⁺			
		291.7 [@]		49.20	7/2 ⁻			
368.02	(5/2 ⁻)	195.3 [@]		172.76	9/2 ⁻			
		265.0 [@]		102.76	5/2 ⁻			
		273.9 [@]		93.90	3/2 ⁻			
		318.86 [@] 13	100 [@] 4	49.20	7/2 ⁻			
423.12	15/2 ⁺	148.82 9	79 7	274.27	13/2 ⁺	D		
		222.53 13	100 4	200.27	11/2 ⁺	E2	0.234	
423.88	(7/2 ⁻)	251.1 [@]		172.76	9/2 ⁻			
		321.0 [@]		102.76	5/2 ⁻			
		374.8 [@]		49.20	7/2 ⁻			
491.34	13/2 ⁻	170.42 8	7.8 8	321.02	11/2 ⁻	D		
		318.50 7	100 3	172.76	9/2 ⁻	E2	0.0772	B(E2)(W.u.)=109 6
507.06	7/2 ⁻	138.8 [@]		368.02	(5/2 ⁻)			
		334.0 [@]		172.76	9/2 ⁻			
		350.38 [@] 13	100 [@]	156.91	9/2 ⁺			
		404.1 [@]		102.76	5/2 ⁻			
		413.2 [@]		93.90	3/2 ⁻			
		457.3 [@]		49.20	7/2 ⁻			
509.30	(9/2 ⁺)	168.5 [@]		341.24	(7/2 ⁺)			
		308.98 [@] 13	100 [@] 16	200.27	11/2 ⁺			
		352.2 [@]	14 [@] 3	156.91	9/2 ⁺			
525.1		431.2 [@]		93.90	3/2 ⁻			
531.12	17/2 ⁺	107.94 19	41 14	423.12	15/2 ⁺	D		
		257.08 15	100.0 18	274.27	13/2 ⁺	E2	0.148	
574.3	(9/2 ⁻)	150.4 [@]		423.88	(7/2 ⁻)			
575.80		481.7 [@]		93.90	3/2 ⁻			
		576.0 [@]		0.0	1/2 ⁻			
640.35		319.5 [@] 3		320.93	7/2 ⁻			
		537.5 [@]		102.76	5/2 ⁻			
		546.4 [@]		93.90	3/2 ⁻			
		640.4 [@]		0.0	1/2 ⁻			
663.65	11/2 ⁻	342.72 [‡] 13	100	320.93	7/2 ⁻	E2	0.0626	
677.22	13/2 ⁻	343.01 7	100	334.26	9/2 ⁻	E2	0.0624	B(E2)(W.u.)=176 11
682.33	15/2 ⁻	190.96 8	6.2 4	491.34	13/2 ⁻	D		
		361.35 8	100 3	321.02	11/2 ⁻	E2	0.0539	B(E2)(W.u.)=143 9

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{181}\text{Os})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha\&$	Comments
685.1		484.7@		200.27	11/2 ⁺			
		528.2@		156.91	9/2 ⁺			
749.30		576.5@ 2	100@	172.76	9/2 ⁻			
		700.13@ 19	100@	49.20	7/2 ⁻			
788.28	19/2 ⁺	257.19 9	30 6	531.12	17/2 ⁺	D		
		364.98 9	100 5	423.12	15/2 ⁺	E2	0.0523	
891.08	17/2 ⁻	208.8 1	4.8 6	682.33	15/2 ⁻			
		399.75 8	100 3	491.34	13/2 ⁻	E2	0.0408	B(E2)(W.u.)=170 13
895.91	21/2 ⁺	107.64 21	20 11	788.28	19/2 ⁺			
		364.84 15	100 4	531.12	17/2 ⁺	E2	0.0525	
1094.45	15/2 ⁻	430.8 1	100	663.65	11/2 ⁻	E2	0.0335	
1098.95	17/2 ⁻	421.77 7	100	677.22	13/2 ⁻	E2	0.0354	B(E2)(W.u.)=192 20
1116.59	19/2 ⁻	225.70 17	3.3 4	891.08	17/2 ⁻	D		
		434.25 7	100 3	682.33	15/2 ⁻	E2	0.0328	B(E2)(W.u.)=237 16
1270.78	23/2 ⁺	374.79 21	27 3	895.91	21/2 ⁺			
		482.31 20	100 5	788.28	19/2 ⁺	E2	0.0250	
1355.40	21/2 ⁻	238.35 21	2.6 4	1116.59	19/2 ⁻			
		464.33 7	100 3	891.08	17/2 ⁻	E2	0.0276	B(E2)(W.u.)=176 11
1359.59	25/2 ⁺	88.8 6	3.0 17	1270.78	23/2 ⁺			
		463.80 15	100 3	895.91	21/2 ⁺	E2	0.0276	
1554.01	21/2 ⁻	455.11 7	100	1098.95	17/2 ⁻	E2	0.0290	B(E2)(W.u.)=165 15
1583.15	19/2 ⁻	488.7 1	100	1094.45	15/2 ⁻	E2	0.0242	
1606.76	23/2 ⁻	252.32 15	3.2 14	1355.40	21/2 ⁻			
		490.35 7	100 3	1116.59	19/2 ⁻	E2	0.0240	
1688.6?		1181.8@ 9	16@ 3	507.06	7/2 ⁻			
		1347.1@ 3	27@ 9	341.24	(7/2 ⁺)			
		1639.7@ 3	100@ 4	49.20	7/2 ⁻			
1701.67?		1528.6@ 3	100@ 7	172.76	9/2 ⁻			
		1545.0@ 3	21@	156.91	9/2 ⁺			
		1652.5@ 3	59@	49.20	7/2 ⁻			
1722.4?		1380.8@ 4	98@ 9	341.24	(7/2 ⁺)			
		1565.7@ 3	100@ 9	156.91	9/2 ⁺			
1744.12	21/2 ⁺	848.20 7	100 4	895.91	21/2 ⁺			Mult.: $\Delta J=0$ transition.
		955.16 24	31 8	788.28	19/2 ⁺			
		1213.1 3	14.1 15	531.12	17/2 ⁺			
1848.26	27/2 ⁺	488.9 2	14.8 20	1359.59	25/2 ⁺			
		577.24 19	100 4	1270.78	23/2 ⁺	E2	0.0162	
1868.19	25/2 ⁻	262.3 1	8 6	1606.76	23/2 ⁻			
		512.55 7	100 3	1355.40	21/2 ⁻	E2	0.0216	
1875.02	23/2 ⁻	130.83 7	100	1744.12	21/2 ⁺	D		
1907.3	29/2 ⁺	547.71 15	100	1359.59	25/2 ⁺	E2	0.0184	
1920.2?		176 ^a		1744.12	21/2 ⁺			
1926.7	21/2 ⁻	809.8 5	100 90	1116.59	19/2 ⁻			
		1035.3 5	50 30	891.08	17/2 ⁻			
1989.35	25/2 ⁻	435.90 7	100	1554.01	21/2 ⁻	E2	0.0326	
2017.23	23/2 ⁻	91.0 8	8 8	1926.7	21/2 ⁻			
		661.6 3	100 17	1355.40	21/2 ⁻			
		898.7 3	63 18	1116.59	19/2 ⁻			
2079.11	25/2 ⁻	204.05 7	100	1875.02	23/2 ⁻	D		
2099.9	23/2 ⁻	516.7 2	100	1583.15	19/2 ⁻	E2	0.0212	
2138.29	27/2 ⁻	267.5 3	3.7 10	1868.19	25/2 ⁻	D		
		531.47 8	100 3	1606.76	23/2 ⁻	E2	0.0198	

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Adopted Levels, Gammas (continued)

$\gamma(^{181}\text{Os})$ (continued)							
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha\&$
2141.25	25/2 ⁻	123.60 16	25 10	2017.23	23/2 ⁻	D	
		213.0 7	3 3	1926.7	21/2 ⁻	E2	0.272
		534.5 4	100 3	1606.76	23/2 ⁻	D	
		786.4 9	8 4	1355.40	21/2 ⁻		
2142.2?		222 ^a		1920.2?			
2176.81	25/2 ⁻	188.5 1	26.6 15	1989.35	25/2 ⁻		
		621.8 1	100 5	1554.01	21/2 ⁻		
2293.39	27/2 ⁻	214.46 9	100 3	2079.11	25/2 ⁻	D	
		418.24 16	43 5	1875.02	23/2 ⁻	E2	0.0363
2301.39	27/2 ⁻	159.8 3	100 8	2141.25	25/2 ⁻	D	
		283.9 2	9 8	2017.23	23/2 ⁻	E2	0.109
		312.1 2	30.5 5	1989.35	25/2 ⁻		
		431.5 5	12 7	1868.19	25/2 ⁻	Q	
		695.5 7	11 4	1606.76	23/2 ⁻		
2384.31	29/2 ⁻	394.98 14	100.0 25	1989.35	25/2 ⁻	E2	0.0421
		516.50 14	19 3	1868.19	25/2 ⁻	Q	
2393.1?		251 ^a		2142.2?			
		473 ^a		1920.2?			
2415.90	29/2 ⁻	276.4 3	7.5 12	2138.29	27/2 ⁻	D	
		547.79 7	100 3	1868.19	25/2 ⁻	E2	0.0184
2491.73	29/2 ⁻	190.02 22	23 4	2301.39	27/2 ⁻	D	
		349.79 21	100 9	2141.25	25/2 ⁻	E2	0.0591
2492.3	31/2 ⁺	585.4 8	8.5 19	1907.3	29/2 ⁺		
		644.0 4	100 16	1848.26	27/2 ⁺	E2	0.0126
2507.6	33/2 ⁺	600.2 4	100	1907.3	29/2 ⁺	E2	0.0148
2522.74	29/2 ⁻	229.22 14	100 4	2293.39	27/2 ⁻		
		442.4 2	62 7	2079.11	25/2 ⁻	E2	0.0312
		654.9 1	43 5	1868.19	25/2 ⁻	Q	
2609.6	27/2 ⁻	509.7 2	100	2099.9	23/2 ⁻	E2	0.0219
2628.39	29/2 ⁻	244		2384.31	29/2 ⁻		
		451.7 2	46 5	2176.81	25/2 ⁻	E2	0.0296
		639.0 1	100 8	1989.35	25/2 ⁻		
2632.40	(25/2 ⁻)	643.6 9	28 10	1989.35	25/2 ⁻		
		1078.4 2	100 17	1554.01	21/2 ⁻		
2646.04	(23/2 ⁻)	657.5 5	28 10	1989.35	25/2 ⁻		
		1091.9 2	100 17	1554.01	21/2 ⁻		
2647.2?		254 ^a		2393.1?			
		505 ^a		2142.2?			
2658.8	(31/2 ⁺)	273.9 4	100	2384.31	29/2 ⁻		
2699.76	31/2 ⁻	283.8 2	9 1	2415.90	29/2 ⁻		
		560.59 12	100 3	2138.29	27/2 ⁻	E2	0.0174
2714.01	31/2 ⁻	222.28 15	77 50	2491.73	29/2 ⁻	D	
		331		2384.31	29/2 ⁻		
		412.45 16	100 10	2301.39	27/2 ⁻	E2	0.0376
2768.32	31/2 ⁻	246	50 25	2522.74	29/2 ⁻		
		475.2 1	100 6	2293.39	27/2 ⁻	E2	0.0260
		631.5 2	100 60	2138.29	27/2 ⁻	Q	
2824.23	33/2 ⁻	440.02 7	100	2384.31	29/2 ⁻	E2	0.0317
2903.1?		256 ^a		2647.2?			
		510 ^a		2393.1?			
2960.29	33/2 ⁻	246.37 13	76 52	2714.01	31/2 ⁻	D	
		467.77 19	100 10	2491.73	29/2 ⁻	E2	0.0270
2981.05	33/2 ⁻	565.34 9	100 4	2415.90	29/2 ⁻	E2	0.0171
		596.5 3	1.6 2	2384.31	29/2 ⁻		
3039.71	(31/2 ⁺)	623.7 2	100	2415.90	29/2 ⁻		

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Adopted Levels, Gammas (continued)

$\gamma(^{181}\text{Os})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha\&$	Comments
3040.55	33/2 ⁻	272	65 19	2768.32	31/2 ⁻			
		518.0 1	83 48	2522.74	29/2 ⁻	E2	0.0211	
		624.39 25	100 5	2415.90	29/2 ⁻	Q		
3054.36	(29/2 ⁻)	423.0 11	50 25	2632.40	(25/2 ⁻)			
		1064.9 3	100 38	1989.35	25/2 ⁻			
3092.29	(29/2 ⁻)	708.1 2	71 11	2384.31	29/2 ⁻			
		1103.0 1	100 13	1989.35	25/2 ⁻			
3107.5	37/2 ⁺	599.83 17	100	2507.6	33/2 ⁺	E2	0.0149	
3107.9	31/2 ⁻	498.3 2	100	2609.6	27/2 ⁻	E2	0.0231	
3108.9	(29/2 ⁻)	1240.7 3	100	1868.19	25/2 ⁻			
3163.5	35/2 ⁺	654.8 ^a 26	5 2	2507.6	33/2 ⁺			
		671.15 20	100 5	2492.3	31/2 ⁺	E2	0.0115	
3182.1?		279 ^a		2903.1?				
3192.0	33/2 ⁻	563.6 2	100	2628.39	29/2 ⁻	E2	0.0172	
		808		2384.31	29/2 ⁻			
3235.52	35/2 ⁻	275.5 5	100 12	2960.29	33/2 ⁻			
		412.5 2	1.0 9	2824.23	33/2 ⁻			
		521.4 1	43 4	2714.01	31/2 ⁻	E2	0.0207	
3259.09	(31/2 ⁺)	842.8 2	100	2415.90	29/2 ⁻			
3266.65	35/2 ⁻	566.89 17	100	2699.76	31/2 ⁻	E2	0.0169	
3268.4	(25/2 ⁻)	622.4 2	100	2646.04	(23/2 ⁻)			
3335.19	35/2 ⁻	296		3040.55	33/2 ⁻			
		567.5 1	100 6	2768.32	31/2 ⁻	E2	0.0169	
		634.8 1	33 5	2699.76	31/2 ⁻	Q		
3350.74	37/2 ⁻	526.5 1	100	2824.23	33/2 ⁻	E2	0.0202	
3471.1?		289 ^a		3182.1?				
		568 ^a		2903.1?				
3526.21	37/2 ⁻	290.8 1	55 4	3235.52	35/2 ⁻			
		565.7 1	100 10	2960.29	33/2 ⁻	E2	0.0170	
3536.69	(31/2 ⁻)	1243.3 1	100	2293.39	27/2 ⁻			
3555.75	37/2 ⁻	574.70 18	100	2981.05	33/2 ⁻	E2	0.0164	
3579.27	33/2 ⁻	(42)		3536.69	(31/2 ⁻)			E_γ : transition inferred from coincidence relations in (HI,xn γ) (2003Cu03).
		319.8 2	16 3	3259.09	(31/2 ⁺)			
		471		3107.5	37/2 ⁺			
		487.1 1	49 4	3092.29	(29/2 ⁻)			
		524.9 1	57 5	3054.36	(29/2 ⁻)			
		539.3 3	9 2	3039.71	(31/2 ⁺)			
		599.6 2	17 3	2981.05	33/2 ⁻			
		623.0 12	32 4	2960.29	33/2 ⁻			
		754.9 1	91 5	2824.23	33/2 ⁻	D		
		920.2 3	8 2	2658.8	(31/2 ⁺)			
		1056.3 1	53 5	2522.74	29/2 ⁻	Q		
		1195.0 1	100 6	2384.31	29/2 ⁻	Q		
3632.8	35/2 ⁻	524.9 2	100	3107.9	31/2 ⁻	E2	0.0204	
3655.11	37/2 ⁻	322		3335.19	35/2 ⁻			
		614.7 1	100 6	3040.55	33/2 ⁻	E2	0.0141	
		673.9 1	60 4	2981.05	33/2 ⁻	Q		
3694.2	41/2 ⁺	586.70 17	100	3107.5	37/2 ⁺	E2	0.0156	
3738.67	35/2 ⁻	159.4 1	100	3579.27	33/2 ⁻	M1	1.54	B(M1)(W.u.)=1.2×10 ⁻⁴ 4 Mult.: from intensity balance in (HI,xn γ) (2003Cu03).
3780.1?		309 ^a		3471.1?				
3798.5	37/2 ⁻	606.5 1	100	3192.0	33/2 ⁻			
3816.6	39/2 ⁺	653.1 5	100	3163.5	35/2 ⁺	E2	0.0123	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{181}\text{Os})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha\&$	Comments
3842.74	39/2 ⁻	316.3 1	38 3	3526.21	37/2 ⁻			
		607.3 1	100 6	3235.52	35/2 ⁻	E2	0.0145	
3864.1	39/2 ⁻	597.5 1	100	3266.65	35/2 ⁻	E2	0.0150	
3877.0	37/2 ⁻	685.0 2	100	3192.0	33/2 ⁻	E2	0.0110	
3914.55	37/2 ⁺	175.9 1	100	3738.67	35/2 ⁻	E1	0.093	Mult.: from intensity balance in (HI,xn γ) (2003Cu03).
3969.24	41/2 ⁻	618.5 1	100	3350.74	37/2 ⁻	E2	0.0139	
3974.5	39/2 ⁻	639.3 2	100	3335.19	35/2 ⁻	E2	0.0129	
4139.91	(39/2 ⁺)	225.3 2	100	3914.55	37/2 ⁺	D		
4165.39	41/2 ⁻	322.4 1	100 5	3842.74	39/2 ⁻			
		640.7 3	98 16	3526.21	37/2 ⁻	E2	0.0128	
4168.8?	39/2 ⁻	536.0 ^a 2	100	3632.8	35/2 ⁻			
4173.90	(41/2 ⁻)	647.7 1	100	3526.21	37/2 ⁻			
4184.8	41/2 ⁻	629.1 1	100	3555.75	37/2 ⁻	E2	0.0133	
4321.8	45/2 ⁺	627.6 3	100	3694.2	41/2 ⁺	E2	0.0134	B(E2)(W.u.)=324 30
4326.83	(39/2 ⁺)	412.3 1	100	3914.55	37/2 ⁺	D		
4336.01	41/2 ⁻	680.9 1	100	3655.11	37/2 ⁻	E2	0.0112	
4447.6	41/2 ⁻	649.1 2	100	3798.5	37/2 ⁻	E2	0.0124	
4459.9	43/2 ⁺	643.3 7	100	3816.6	39/2 ⁺	E2	0.0127	
4511.9	43/2 ⁻	346.2 2	81 14	4165.39	41/2 ⁻			
		669.4 2	100 12	3842.74	39/2 ⁻	E2	0.0116	
4521.83	(41/2 ⁺)	194.9 1	100 13	4326.83	(39/2 ⁺)	D		
		381.9 1	96 13	4139.91	(39/2 ⁺)	D		
4527.3	43/2 ⁻	663.2 1	100	3864.1	39/2 ⁻	E2	0.0119	
4612.8	41/2 ⁻	735.8 3	100	3877.0	37/2 ⁻	E2	0.0095	
4631.93	(41/2 ⁺)	305.0 1	100	4326.83	(39/2 ⁺)	D		
4674.05	45/2 ⁻	704.8 1	100	3969.24	41/2 ⁻	E2	0.0104	
4685.4	43/2 ⁻	710.9 1	100	3974.5	39/2 ⁻	E2	0.0102	
4794.1	(45/2 ⁻)	620.2 2	100	4173.90	(41/2 ⁻)	E2	0.0138	
4843.7	45/2 ⁻	678.3 4	100	4165.39	41/2 ⁻	E2	0.0113	
4844.31	(43/2 ⁺)	322.4 1	100	4521.83	(41/2 ⁺)	D		
4887.6	45/2 ⁻	702.8 1	100	4184.8	41/2 ⁻	E2	0.0104	
4947.2	(43/2 ⁻)	315.3 1	100	4631.93	(41/2 ⁺)	D		
5030.0	49/2 ⁺	708.2 4	100	4321.8	45/2 ⁺	E2	0.0103	B(E2)(W.u.)=240 21
5061.11	45/2 ⁻	725.1 1	100	4336.01	41/2 ⁻	E2	0.0098	
5112.92	(43/2 ⁺)	165.6 5	2 1	4947.2	(43/2 ⁻)			
		268.6 1	29 3	4844.31	(43/2 ⁺)	D		
		480.9 1	94 6	4631.93	(41/2 ⁺)	D		
		591.0 1	39 3	4521.83	(41/2 ⁺)	D		
		786.3 1	100 6	4326.83	(39/2 ⁺)	Q		
5166.0	45/2 ⁻	718.4 2	100	4447.6	41/2 ⁻	E2	0.0100	
5169.9	47/2 ⁺	710.0 3	100	4459.9	43/2 ⁺	E2	0.0102	
5178.68	(45/2 ⁺)	334.3 1	100 19	4844.31	(43/2 ⁺)	D		
		657.4 3	49 15	4521.83	(41/2 ⁺)	E2	0.0121	
5211.7	47/2 ⁻	699.8 2	100	4511.9	43/2 ⁻	E2	0.0105	
5259.9	47/2 ⁻	732.6 2	100	4527.3	43/2 ⁻	E2	0.0095	
5274.0	(45/2 ⁻)	326.8 1	100	4947.2	(43/2 ⁻)	D		
5379.1	45/2 ⁻	766.3 3	100	4612.8	41/2 ⁻	E2	0.0087	
5427.3	47/2 ⁻	741.9 1	100	4685.4	43/2 ⁻	E2	0.0093	
5454.9	49/2 ⁻	780.9 1	100	4674.05	45/2 ⁻	E2	0.0083	B(E2)(W.u.)=200 16
5469.1	(45/2 ⁺)	356.2 1	100 5	5112.92	(43/2 ⁺)	D		
		836.3 ^a 2	9.8 15	4631.93	(41/2 ⁺)	Q		
5490.9	(49/2 ⁻)	696.8 2	100	4794.1	(45/2 ⁻)	E2	0.0106	
5509.8	(47/2 ⁺)	331.2 1	100	5178.68	(45/2 ⁺)	D		
		665.5 1	100	4844.31	(43/2 ⁺)	Q		

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Adopted Levels, Gammas (continued)

$\gamma(^{181}\text{Os})$ (continued)							
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha\&$
5523.8	(47/2 ⁺)	345.2 2	100 22	5178.68	(45/2 ⁺)	D	
		679.8 3	87 26	4844.31	(43/2 ⁺)	E2	0.0112
5541.7	49/2 ⁻	698.0 5	100	4843.7	45/2 ⁻	E2	0.0106
5614.1	(47/2 ⁻)	340.0 ^a 10	100	5274.0	(45/2 ⁻)	D	
5654.1	49/2 ⁻	766.4 1	100	4887.6	45/2 ⁻	Q	
5673.6	49/2 ⁻	786.0 3	100	4887.6	45/2 ⁻	E2	0.00822
5808.81	49/2 ⁻	747.7 1	100	5061.11	45/2 ⁻	E2	0.0091
5832.0	(47/2 ⁺)	362.9 1	100	5469.1	(45/2 ⁺)	D	
5832.3	53/2 ⁺	802.3 7	100	5030.0	49/2 ⁺	E2	0.00787
5879.6	(49/2 ⁺)	355.8 1	100 14	5523.8	(47/2 ⁺)	D	
		700.7 2	58 8	5178.68	(45/2 ⁺)	E2	0.0105
5922.1	49/2 ⁻	756.1 6	100	5166.0	45/2 ⁻	E2	0.0089
5931.1	51/2 ⁻	719.4 4	100	5211.7	47/2 ⁻	E2	0.0099
5963.8	51/2 ⁺	793.9 4	100	5169.9	47/2 ⁺	E2	0.00805
5965.3	(49/2 ⁻)	691.3 3	100	5274.0	(45/2 ⁻)	Q	
6020.1	51/2 ⁻	760.2 1	100	5259.9	47/2 ⁻	Q	
6061.1	51/2 ⁻	801.2 1	100	5259.9	47/2 ⁻	E2	0.00789
6177.9	(51/2 ⁺)	668.1 2	100	5509.8	(47/2 ⁺)	E2	0.0117
6181.5	(49/2 ⁻)	802.4 ^a 4	100	5379.1	45/2 ⁻		
6191.3	51/2 ⁻	764.0 1	100	5427.3	47/2 ⁻	E2	0.0087
6208.2	(49/2 ⁺)	376.2 1	100	5832.0	(47/2 ⁺)	D	
6242.3	(51/2 ⁺)	362.5 2	55 12	5879.6	(49/2 ⁺)	D	
		718.7 2	100 13	5523.8	(47/2 ⁺)	E2	0.0099
6264.0	53/2 ⁻	722.3 5	100	5541.7	49/2 ⁻	E2	0.0098
6279.0	(53/2 ⁻)	788.1 1	100	5490.9	(49/2 ⁻)	E2	0.00817
6301.3	53/2 ⁻	846.3 1	100	5454.9	49/2 ⁻	E2	0.00704
6403.5	53/2 ⁻	749.5 1	100	5654.1	49/2 ⁻	E2	0.0091
6475.5	(51/2 ⁺)	267.3 1	100 8	6208.2	(49/2 ⁺)	D	
		643.4 9	1 3	5832.0	(47/2 ⁺)	Q	
6521.1	53/2 ⁻	847.5 4	100	5673.6	49/2 ⁻	E2	0.00702
6574.8	53/2 ⁻	766		5808.81	49/2 ⁻	E2	0.0087
6607.2	(51/2 ⁻)	399.0 1	100	6208.2	(49/2 ⁺)	D	
6614.6	(53/2 ⁺)	372.5 10	7 7	6242.3	(51/2 ⁺)	D	
		735.0 2	100 27	5879.6	(49/2 ⁺)	E2	0.0095
6678.7	55/2 ⁻	747.6 8	100	5931.1	51/2 ⁻	E2	0.0091
6729.6	53/2 ⁻	807.5 5	100	5922.1	49/2 ⁻	E2	0.00777
6730.2	57/2 ⁺	897.9 3	100	5832.3	53/2 ⁺	E2	0.00623
6806.6	55/2 ⁻	786.5 2	100	6020.1	51/2 ⁻	E2	0.00821
6840.5	55/2 ⁺	876.7 6	100	5963.8	51/2 ⁺	E2	0.00655
6855.1	(55/2 ⁺)	677.2 2	100	6177.9	(51/2 ⁺)	Q	
6874.1	(55/2 ⁺)	696.2 2	100	6177.9	(51/2 ⁺)	E2	0.0107
6905.1	55/2 ⁻	844.0 1	100	6061.1	51/2 ⁻	E2	0.00708
6921.5	(53/2 ⁺)	314.3 ^a 22	0.2 2	6607.2	(51/2 ⁻)	D	
		446.0 1	100 5	6475.5	(51/2 ⁺)	D	
6991.6	(55/2 ⁺)	376.9 10	100	6614.6	(53/2 ⁺)	D	
		749.3 3	100	6242.3	(51/2 ⁺)	E2	0.0091
6995.9	55/2 ⁻	804.6 2	100	6191.3	51/2 ⁻	E2	0.00783
6999.5	(57/2 ⁻)	735.5 ^a 4	100	6264.0	53/2 ⁻		
7014.6	(53/2 ⁻)	833.1 ^a 2	100	6181.5	(49/2 ⁻)		
7138.0	(57/2 ⁻)	859.0 2	100	6279.0	(53/2 ⁻)	E2	0.00683
7200.3	57/2 ⁻	899.0 1	100	6301.3	53/2 ⁻	E2	0.00622
7213.9	(57/2 ⁻)	912.6 3	100	6301.3	53/2 ⁻		
7229.6	57/2 ⁻	826.0 1	100	6403.5	53/2 ⁻	E2	0.00741
7243.7	(55/2 ⁺)	322.2 1	100	6921.5	(53/2 ⁺)	D	
7353.9	(55/2 ⁺)	432.4 1	100	6921.5	(53/2 ⁺)	D	

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Adopted Levels, Gammas (continued) $\gamma(^{181}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.#	$\alpha\&$
7362.0	57/2 ⁻	840.9 4	100	6521.1	53/2 ⁻	E2	0.00714
7363.0	57/2 ⁻	788.2 3	100	6574.8	53/2 ⁻	E2	0.00817
7381.6	(57/2 ⁺)	390.1 10	100 10	6991.6	(55/2 ⁺)	D	
		767.0 3	16 7	6614.6	(53/2 ⁺)	E2	0.0087
7456.1	59/2 ⁻	777.4 3	100	6678.7	55/2 ⁻	E2	0.0084
7486.9	(55/2 ⁺)	565.2 7	100 13	6921.5	(53/2 ⁺)	Q	
		1011.4 2	62 10	6475.5	(51/2 ⁺)	Q	
7509.2	(59/2 ⁺)	654.1 2	100	6855.1	(55/2 ⁺)	E2	0.0122
7528.3	(57/2 ⁺)	284.6 1	100	7243.7	(55/2 ⁺)	D	
7583.9	57/2 ⁻	854.3 3	100	6729.6	53/2 ⁻	E2	0.00691
7629.1	(59/2 ⁺)	755.0 4	100	6874.1	(55/2 ⁺)	E2	0.0090
7664.6	59/2 ⁻	858.0 1	100	6806.6	55/2 ⁻	E2	0.00684
7727.5	61/2 ⁺	997.3 5	100	6730.2	57/2 ⁺	E2	0.00504
7750.4	(61/2 ⁻)	750.9 ^a 5	100	6999.5	(57/2 ⁻)		
7773.5	(59/2 ⁺)	781.9 10	100	6991.6	(55/2 ⁺)	E2	0.00831
7794	59/2 ⁺	954 4	100	6840.5	55/2 ⁺	E2	0.00551
7803.1	59/2 ⁻	898.0 1	100	6905.1	55/2 ⁻	E2	0.00623
7842.9	59/2 ⁻	847.0 2	100	6995.9	55/2 ⁻	E2	0.00703
7864.1	(57/2 ⁻)	849.4 ^a 2	100	7014.6	(53/2 ⁻)		
7927.1	(57/2 ⁺)	440.2 1	100 9	7486.9	(55/2 ⁺)	D	
		573.2 1	40 4	7353.9	(55/2 ⁺)	D	
8095.6	61/2 ⁻	866 ^a		7229.6	57/2 ⁻		
8164.0	(61/2 ⁻)	801 ^a		7363.0	57/2 ⁻		
8169.9	(61/2 ⁻)	956.0 3	100	7213.9	(57/2 ⁻)	E2	0.00549
8173.6	(61/2 ⁺)	792.0 3	100	7381.6	(57/2 ⁺)	E2	0.00809
8173.8	61/2 ⁻	973.5 2	100	7200.3	57/2 ⁻	E2	0.00529
8231.8	(63/2 ⁺)	722.6 3	100	7509.2	(59/2 ⁺)	E2	0.0098
8259.8	61/2 ⁻	897.7 8	100	7362.0	57/2 ⁻	E2	0.0062 4
8261.9	(63/2 ⁻)	805.8 ^a 3	100	7456.1	59/2 ⁻		
8452.4	(59/2 ⁺)	525.3 1	100	7927.1	(57/2 ⁺)	D	
8457.4?	(63/2 ⁺)	828.1 ^a 5	100	7629.1	(59/2 ⁺)	Q	
8590.4	63/2 ⁻	925.8 3	100	7664.6	59/2 ⁻	E2	0.00585
8716.9	63/2 ⁻	874		7842.9	59/2 ⁻	E2	0.00659
8766.9	(61/2 ⁺)	314.5 3	16 5	8452.4	(59/2 ⁺)	D	
		839.9 ^a 1	100 11	7927.1	(57/2 ⁺)	Q	
8782.7	63/2 ⁻	979.6 1	100	7803.1	59/2 ⁻	E2	0.00522
8818.1	65/2 ⁺	1090.6 9	100	7727.5	61/2 ⁺	E2	0.00422
8826	63/2 ⁺	1031.7 6	100	7794	59/2 ⁺	E2	0.00471
8971.3?	(67/2 ⁺)	739.3 ^a 3	100	8231.8	(63/2 ⁺)	Q	
8980.6	(65/2 ⁻)	885 ^a		8095.6	61/2 ⁻		
9091.1	(67/2 ⁻)	829.2 ^a 1	100	8261.9	(63/2 ⁻)		
9177.6	(65/2 ⁻)	1007.7 2	100	8169.9	(61/2 ⁻)	E2	0.00493
9191	65/2 ⁻	931.4 23	100	8259.8	61/2 ⁻	E2	0.00578
9202.9	65/2 ⁻	1029.1 1	100	8173.8	61/2 ⁻	E2	0.00473
9573.0	67/2 ⁻	982.6 3	100	8590.4	63/2 ⁻	E2	0.00519
9612.9	67/2 ⁻	896		8716.9	63/2 ⁻	E2	0.00626
9860.1	67/2 ⁻	1077.4 4	100	8782.7	63/2 ⁻	E2	0.00432
9919	67/2 ⁺	1092.7 9	100	8826	63/2 ⁺	E2	0.00420
9999.9	(69/2 ⁺)	1181.8 9	100	8818.1	65/2 ⁺	E2	0.00361
10229.3	(69/2 ⁻)	1051.7 2	100	9177.6	(65/2 ⁻)	E2	0.00453
10308.6	69/2 ⁻	1105.7 5	100	9202.9	65/2 ⁻	E2	0.00410
10544.9	71/2 ⁻	932		9612.9	67/2 ⁻	E2	0.00578
10596.5	71/2 ⁻	1023.5 2	100	9573.0	67/2 ⁻	E2	0.00478
11004.1	(71/2 ⁻)	1143.9 ^a 8	100	9860.1	67/2 ⁻		

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Adopted Levels, Gammas (continued) $\gamma(^{181}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. #	$\alpha^\&$
11263.3	(73/2 ⁺)	1263.4 9	100	9999.9	(69/2 ⁺)	E2	0.00317
11317.3	(73/2 ⁻)	1088.0 9	100	10229.3	(69/2 ⁻)	E2	0.00424
11464.1	73/2 ⁻	1155.5 5	100	10308.6	69/2 ⁻	E2	0.00377
11652.1	75/2 ⁻	1055.6 2	100	10596.5	71/2 ⁻	E2	0.00450
12585.2	(77/2 ⁺)	1321.9 9	100	11263.3	(73/2 ⁺)	E2	0.00291
12741.5	(79/2 ⁻)	1089.3 ^a 4	100	11652.1	75/2 ⁻		

[†] From (HI,xn γ) and $^{182}\text{W}(\alpha,5n\gamma)$, except as noted.

[‡] Weighted average of values from ^{181}Ir ε decay, $^{182}\text{W}(\alpha,5n\gamma)$ and (HI,xn γ).

Unless otherwise noted, multipolarities are from DCO ratios of (HI,xn γ) (2003Cu03) and $\gamma(\theta)$ of $^{182}\text{W}(\alpha,5n\gamma)$ (1976Ne03).

@ From ^{181}Ir ε decay.

& 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.

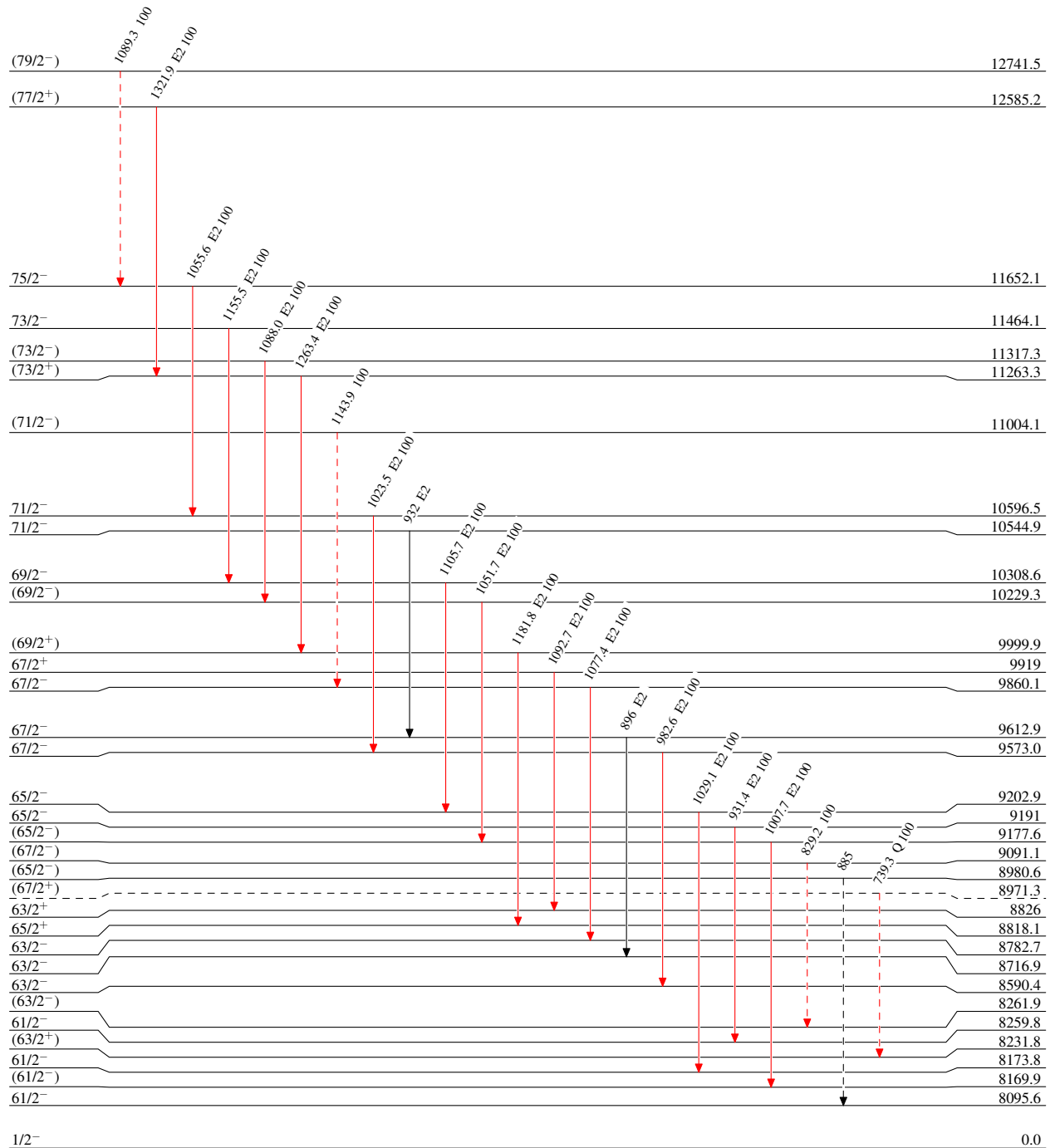
^a Placement of transition in the level scheme is uncertain.

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)



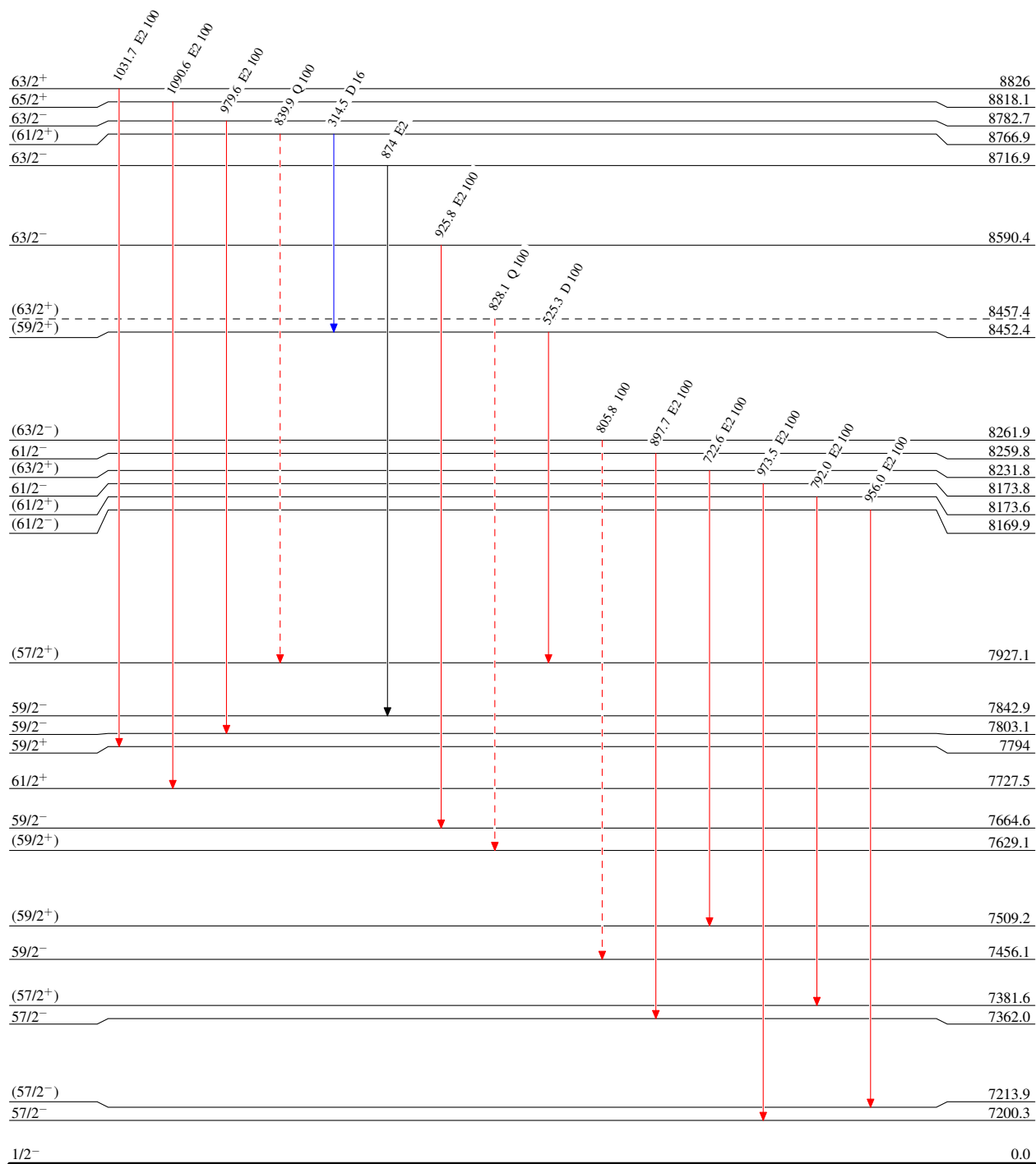
Adopted Levels, Gammas

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)



105 min 3

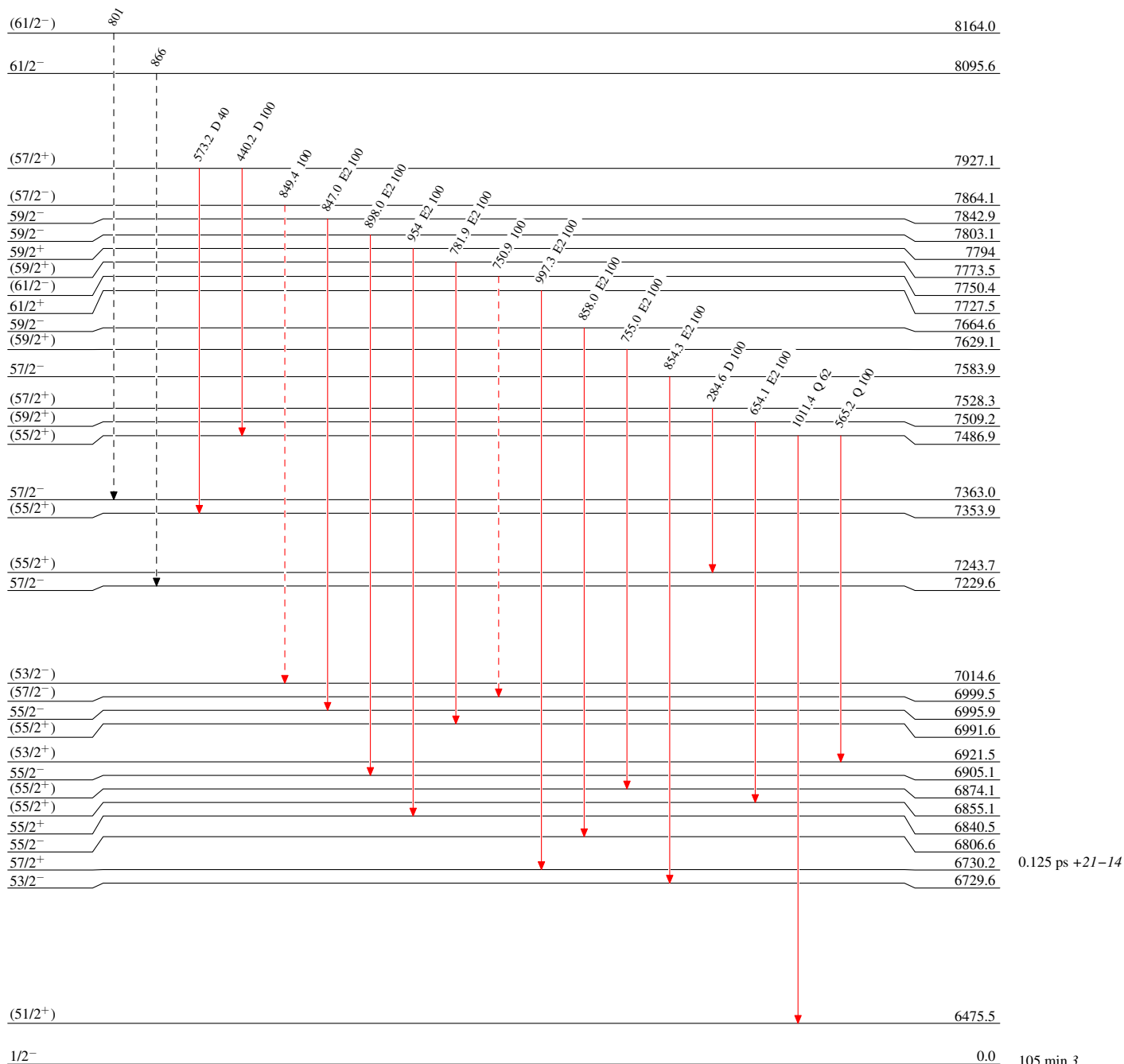
Adopted Levels, Gammas

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)



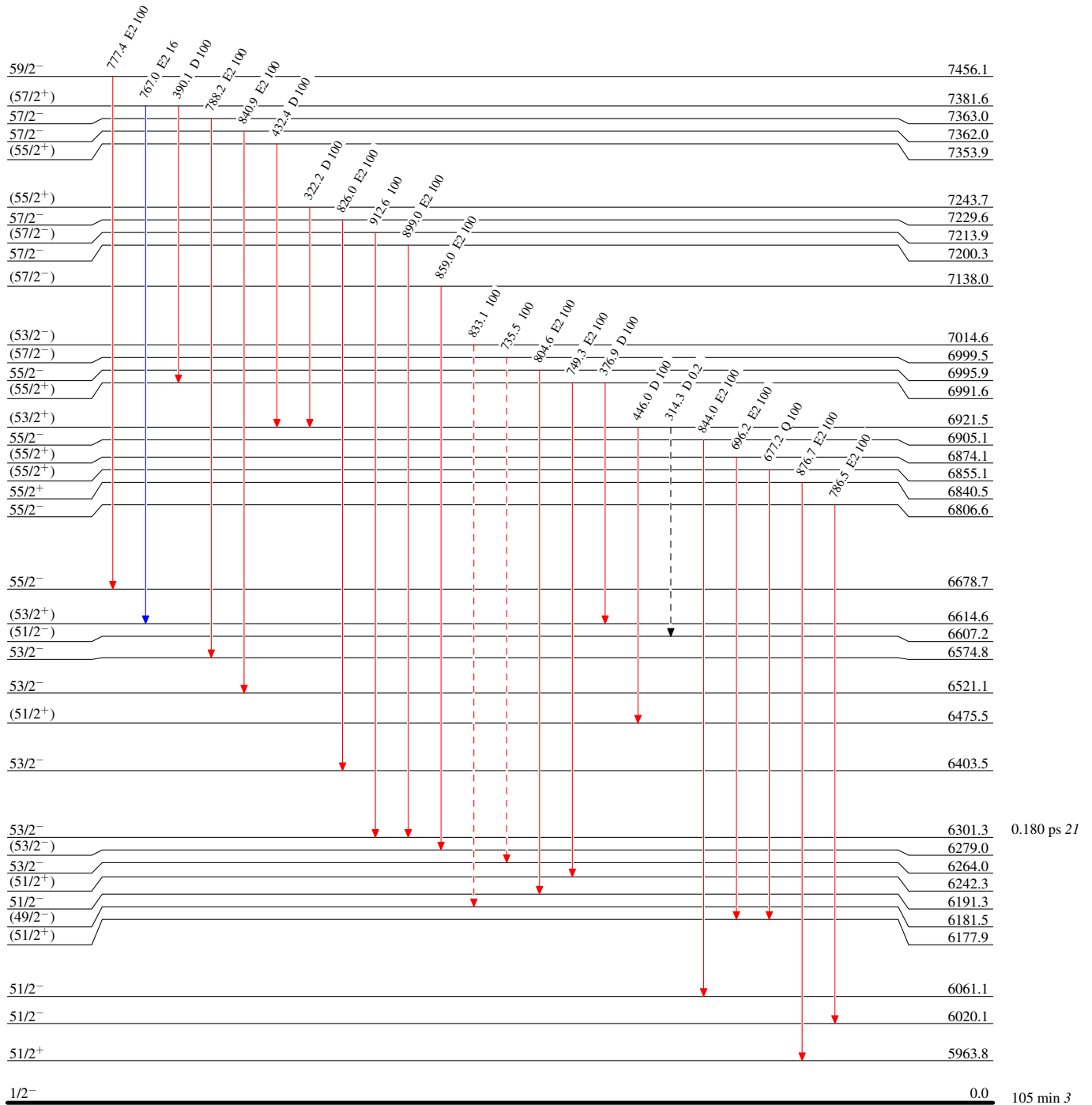
Adopted Levels, Gammas

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)



$^{181}_{76}\text{Os}_{105}$

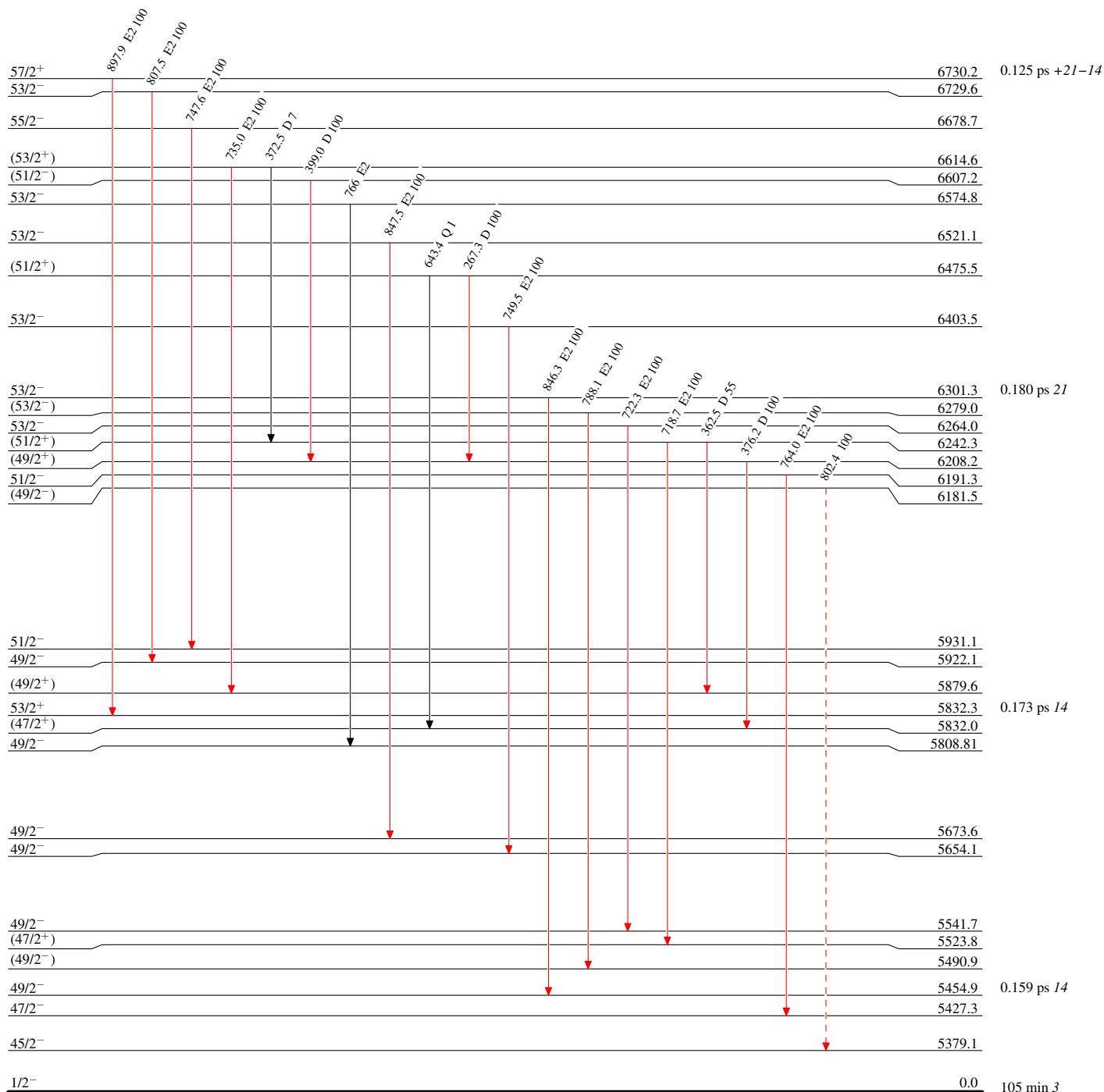
Adopted Levels, Gammas

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)



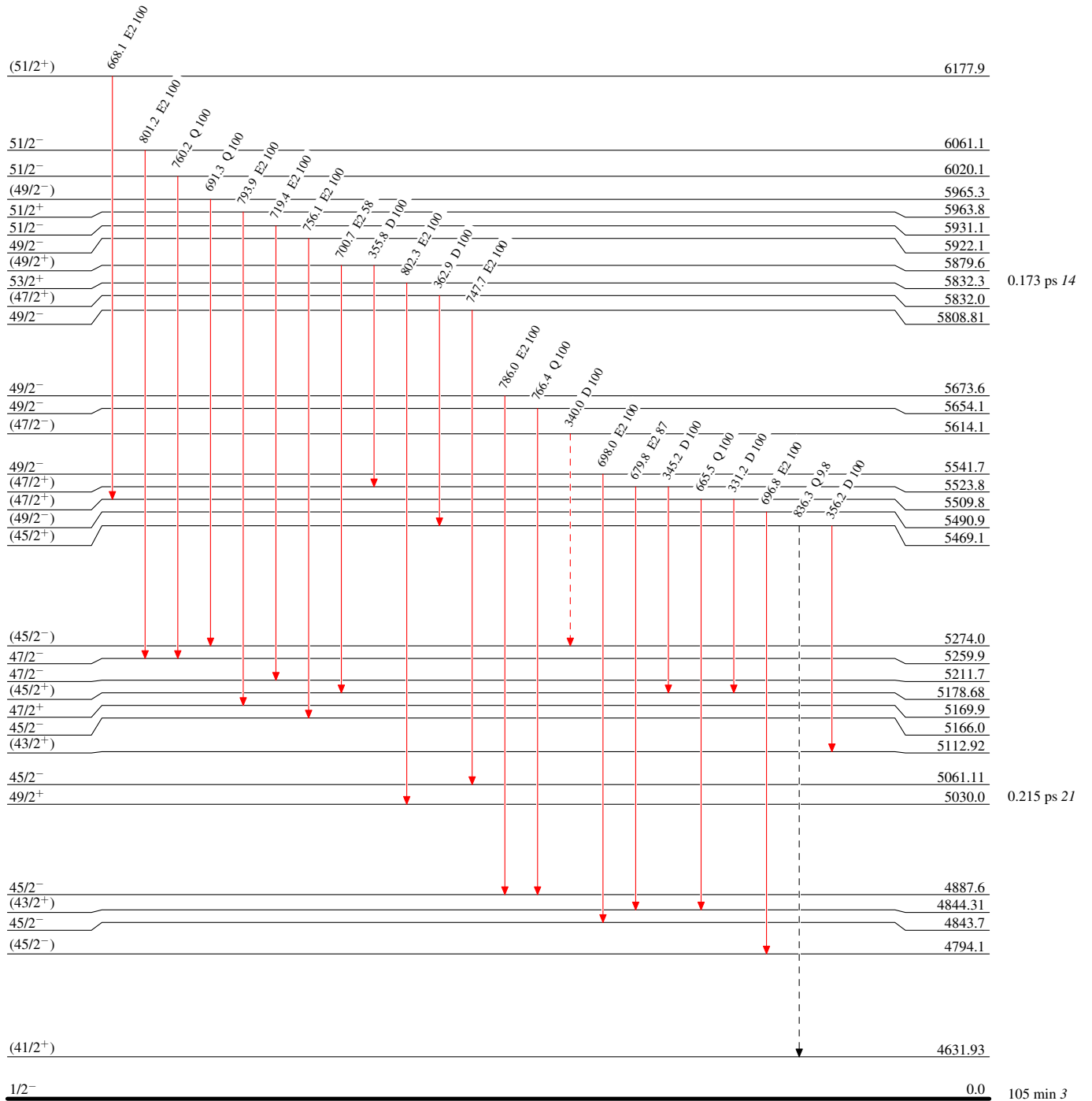
Adopted Levels, Gammas

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)



$^{181}_{76}\text{Os}_{105}$

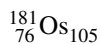
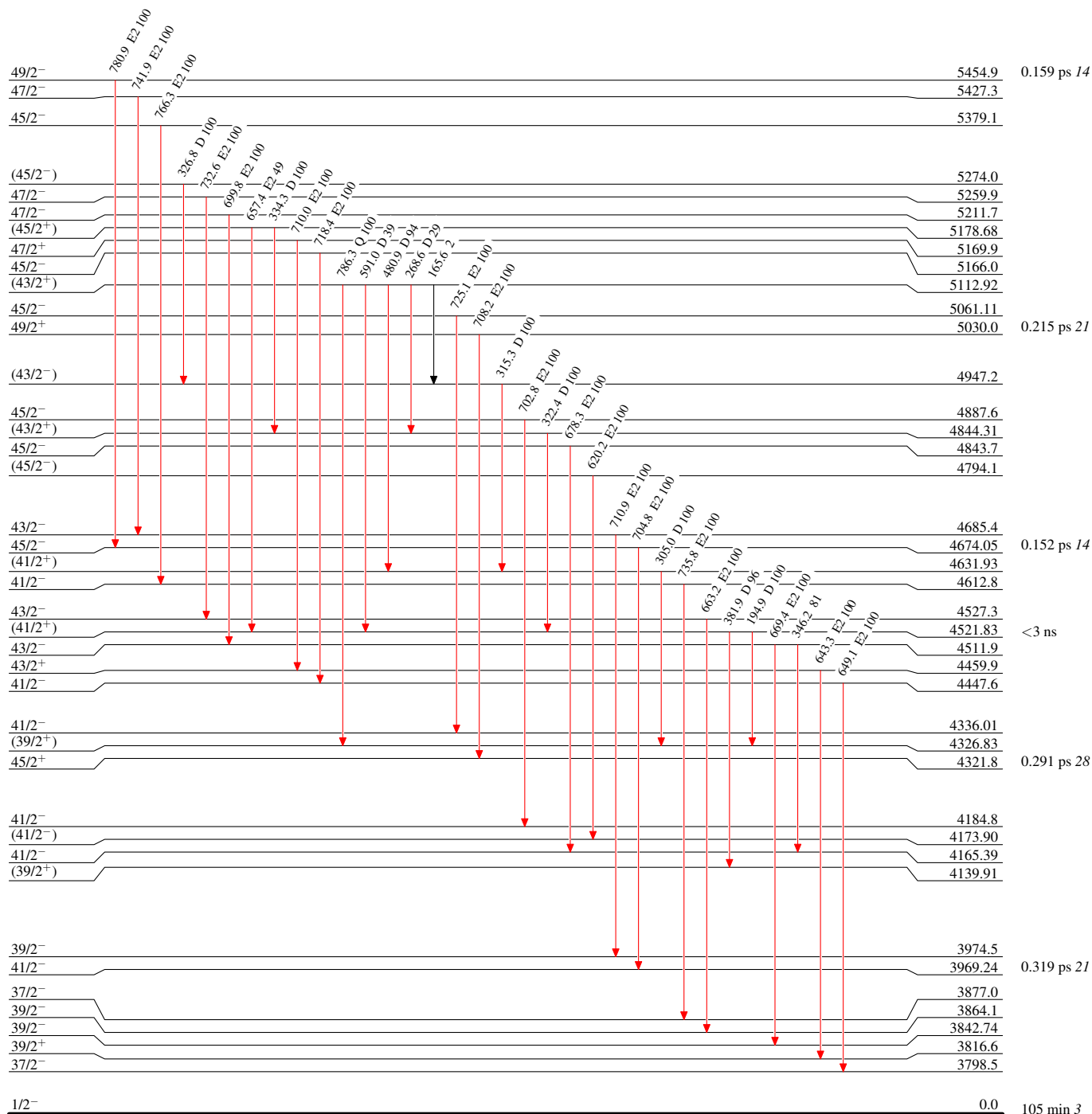
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

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



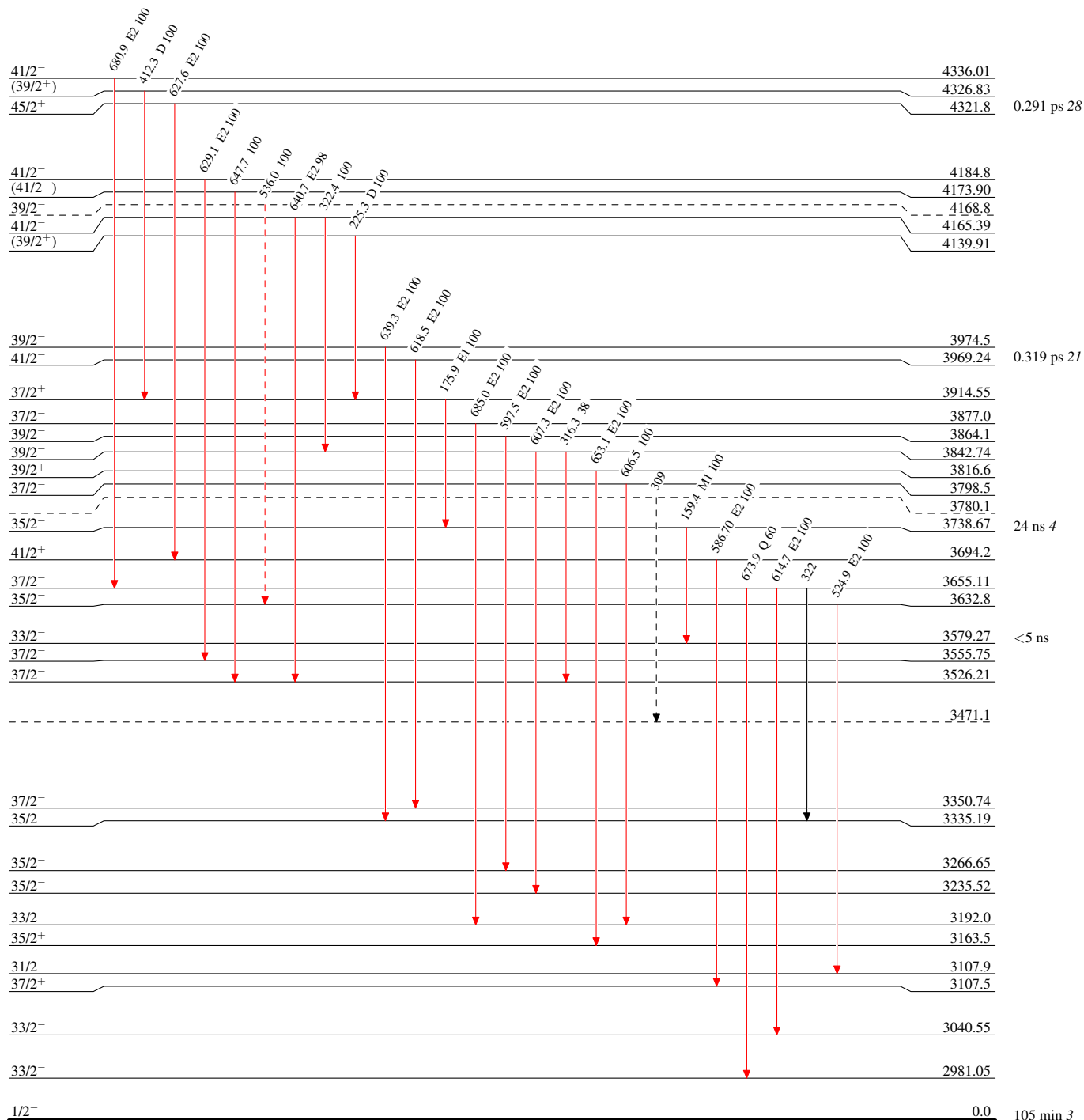
Adopted Levels, Gammas

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)



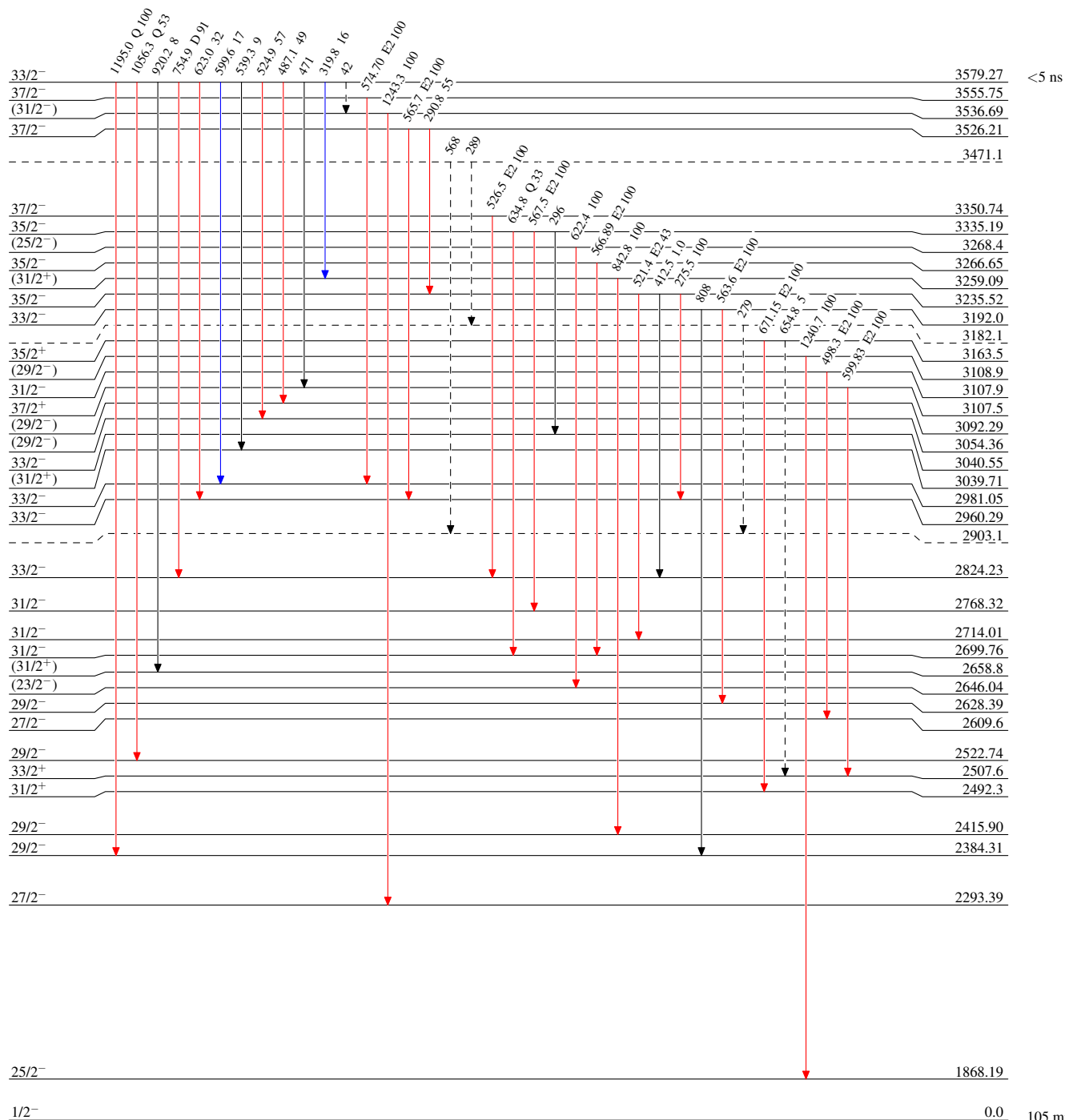
Adopted Levels, Gammas

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)



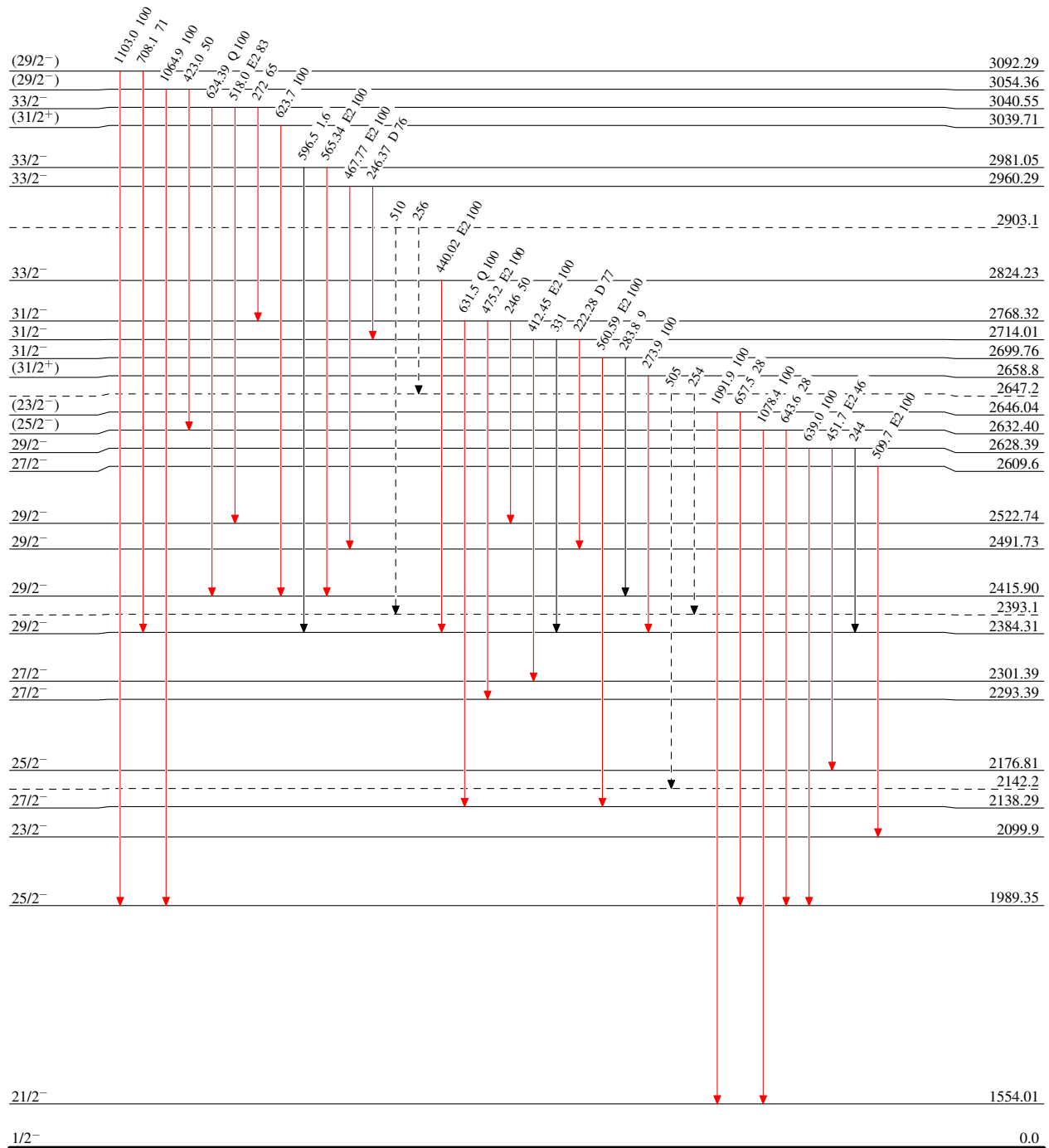
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

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



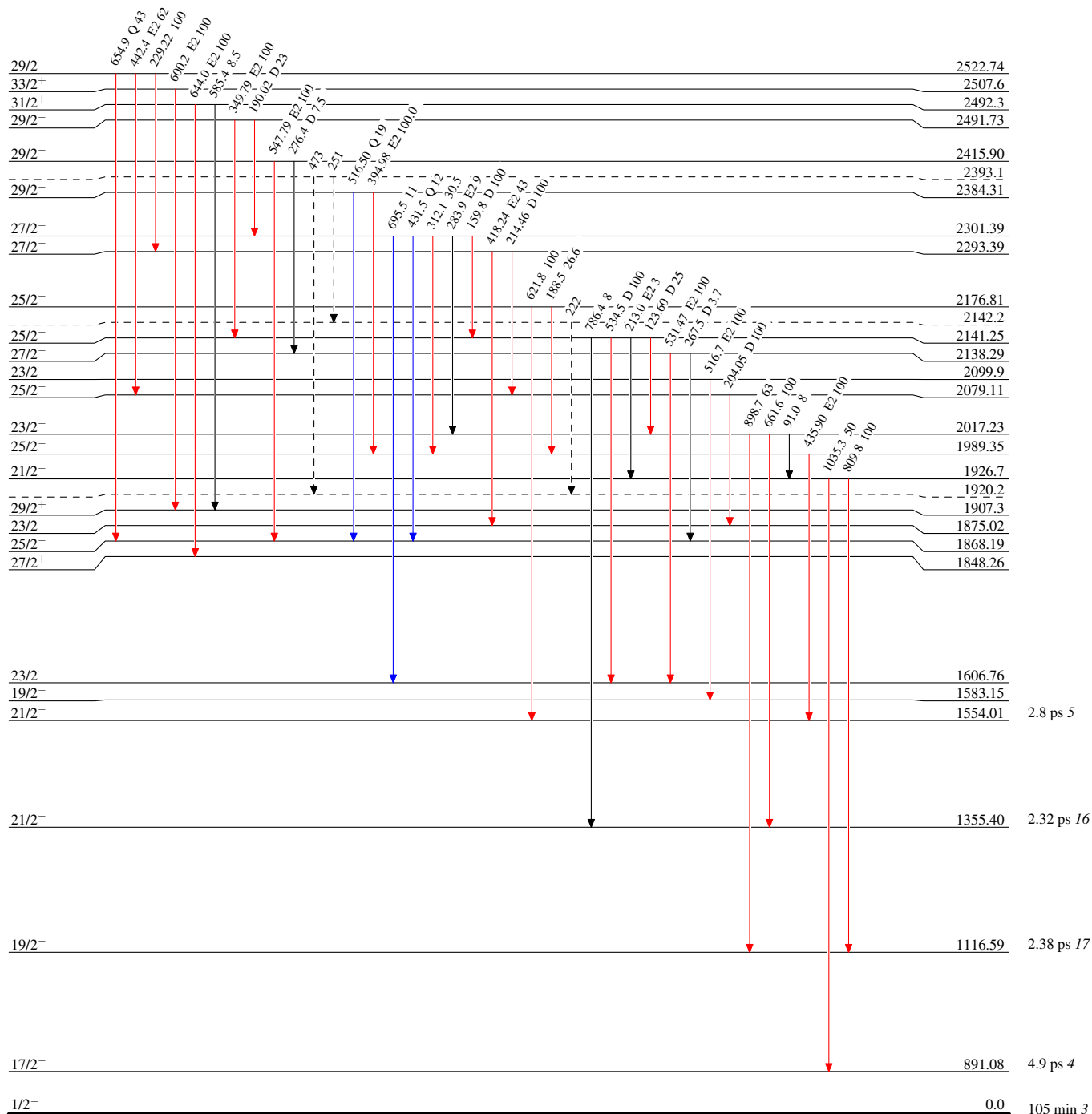
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Type not specified

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



$^{181}_{76}\text{Os}_{105}$

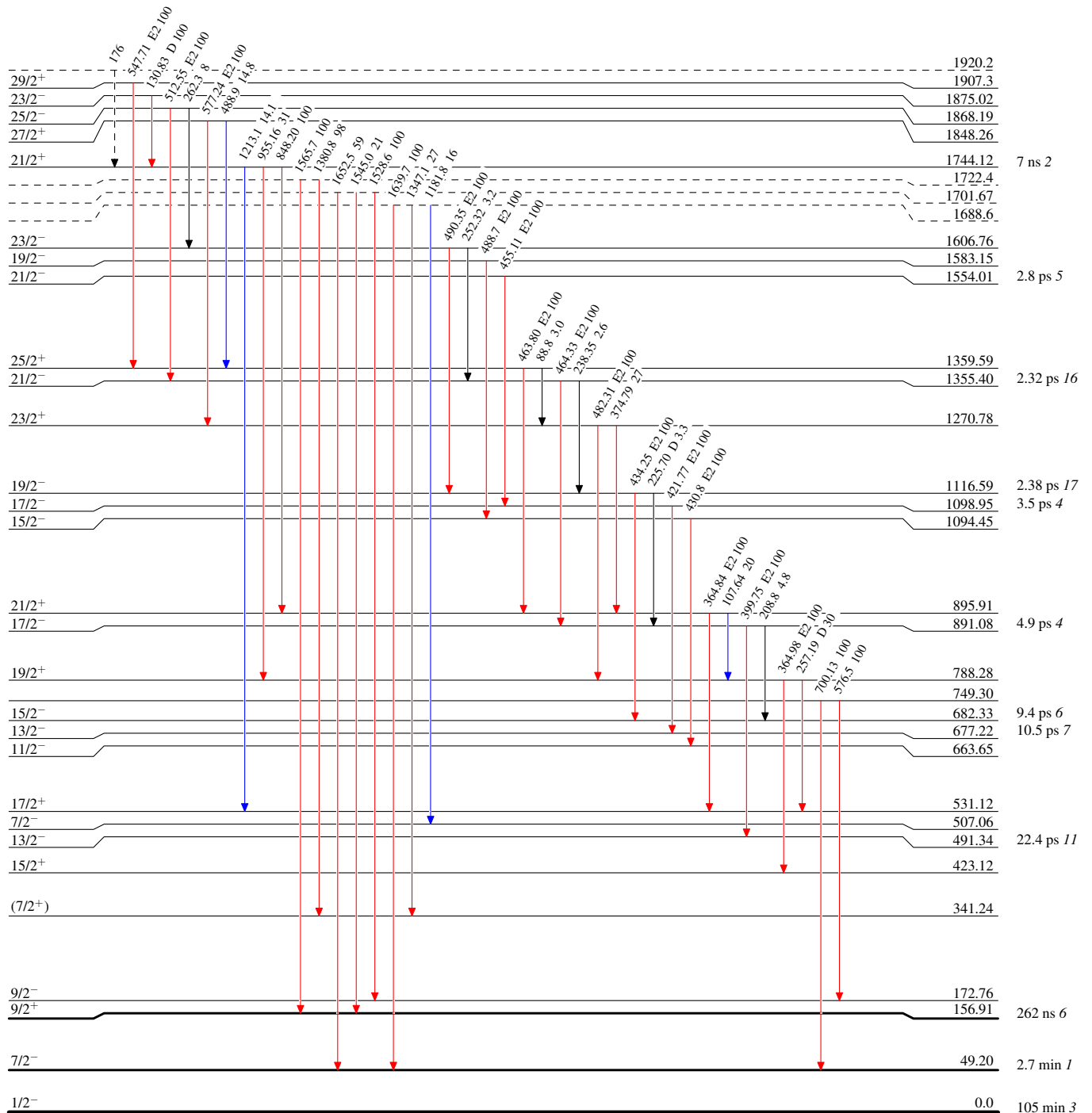
Adopted Levels, Gammas

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)



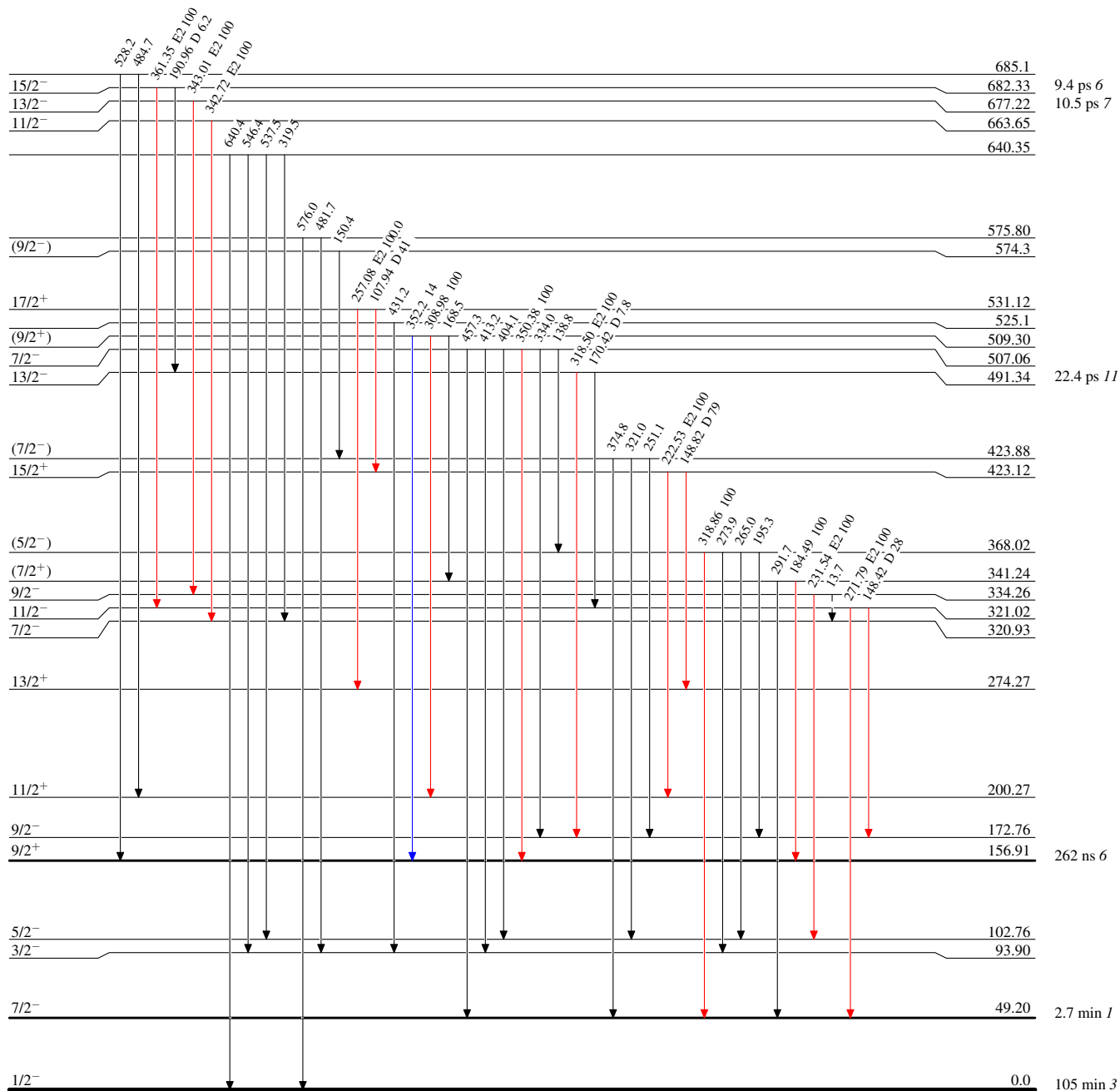
Adopted Levels, Gammas

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)



$^{181}_{76}\text{Os}_{105}$

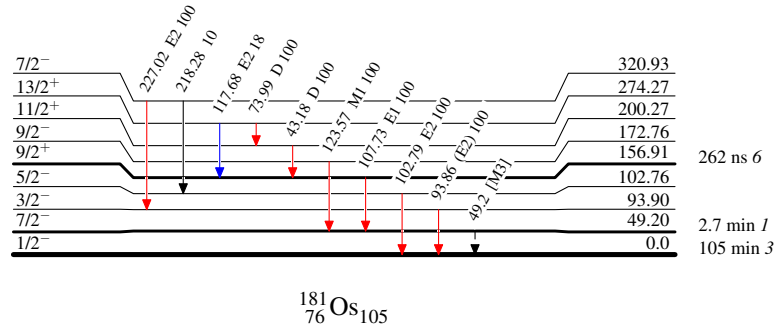
Adopted Levels, Gammas

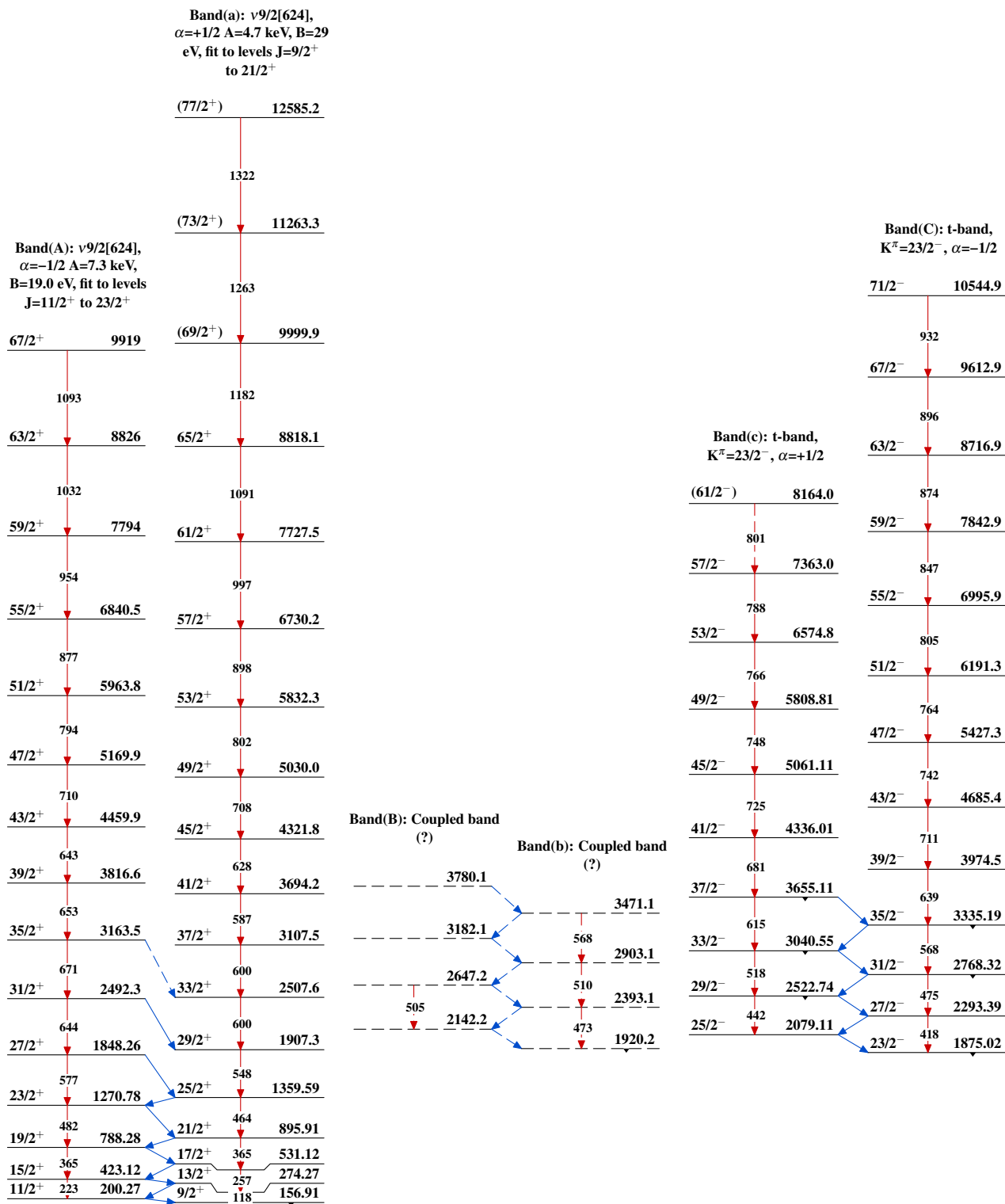
Legend

Level Scheme (continued)

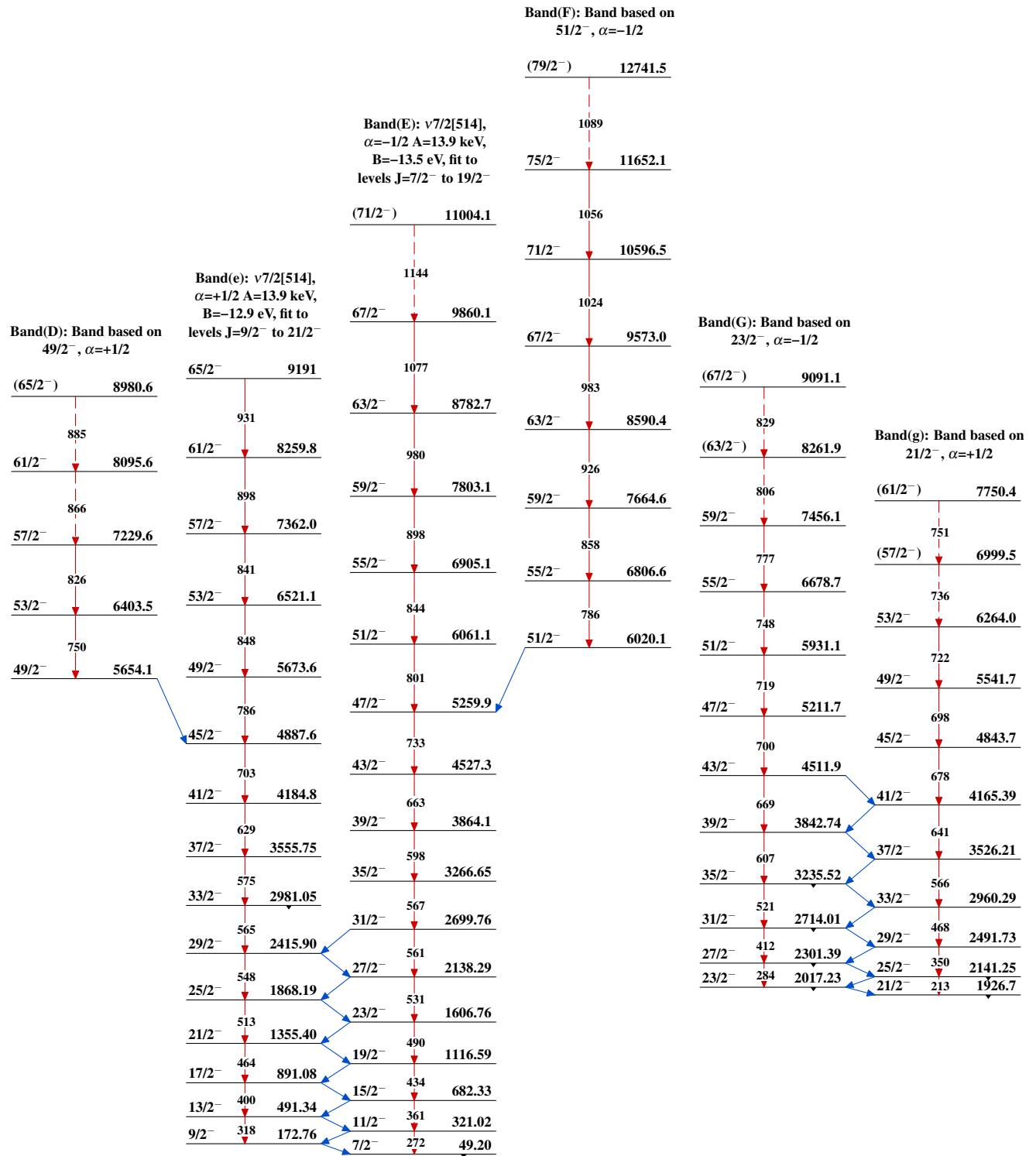
Intensities: Type not specified

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

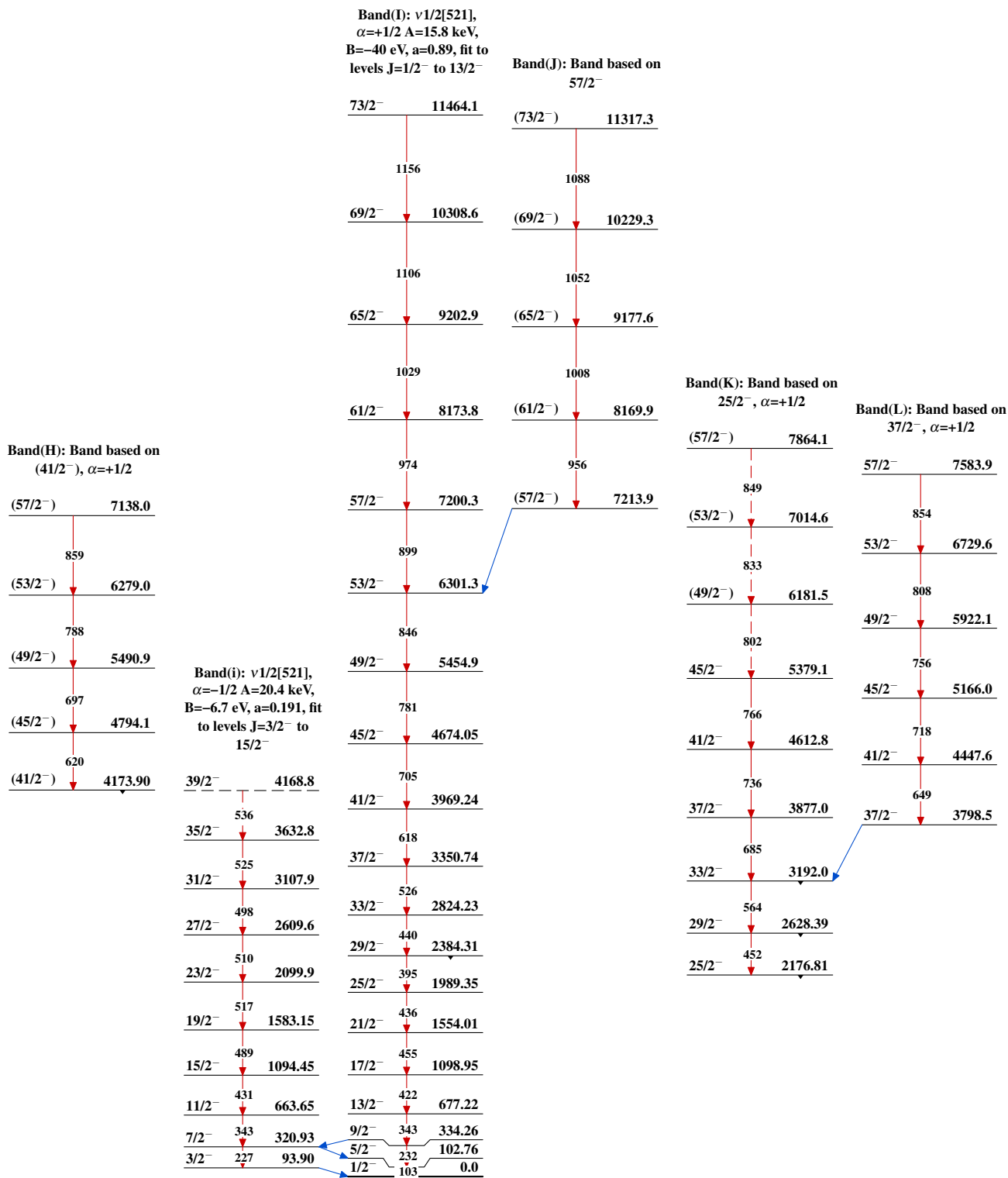


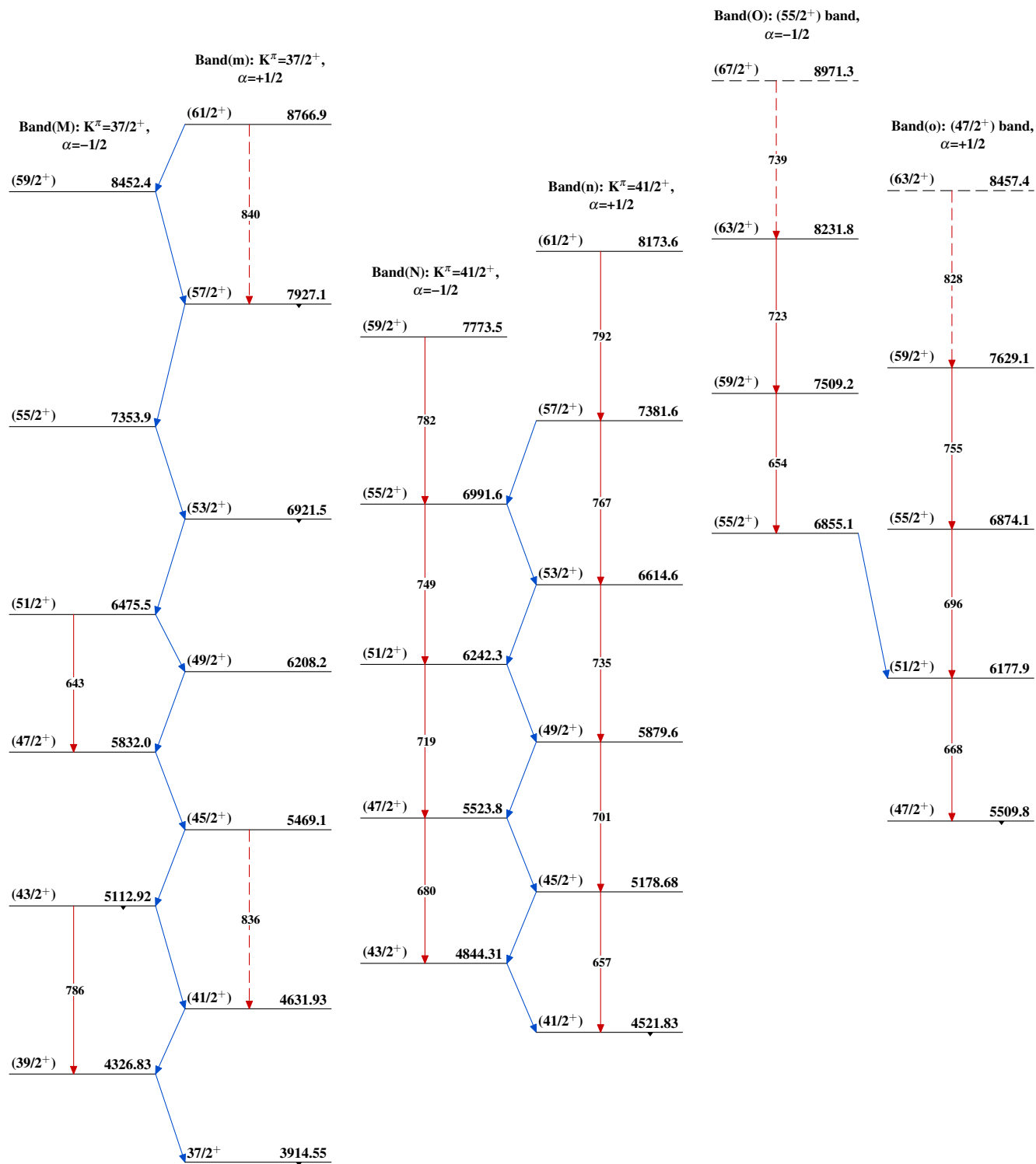
Adopted Levels, Gammas

Adopted Levels, Gammas (continued)



Adopted Levels, Gammas (continued)



Adopted Levels, Gammas (continued)

Adopted Levels, Gammas (continued)

Band(P): $K^\pi=(43/2^-)$,
 $\alpha=-1/2$

(51/2⁻) 6607.2

Band(p): $K^\pi=(43/2^-)$,
 $\alpha=+1/2$

(49/2⁻) 5965.3

(47/2⁻) 5614.1

691

(45/2⁻) 5274.0

(43/2⁻) 4947.2

$^{181}_{76}\text{Os}_{105}$