

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

Q(β⁻)=-3842 18; S(n)=7091 17; S(p)=5513 15; Q(α)=2844 14 [2021Wa16](#)

²⁰¹Pb Levels

Cross Reference (XREF) Flags

A	²⁰¹ Bi ε decay	D	¹⁹² Os(¹⁴ C,5nγ)
B	²⁰⁵ Po α decay	E	¹⁹⁷ Au(²⁰⁷ Pb,Xγ)
C	²⁰⁰ Hg(α,3nγ)		

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0 [‡]	5/2 ⁻	9.33 h 5	ABCD	%ε+%β ⁺ =100 μ=+0.6731 6 (2019StZV) Q=-0.01 4 (1986An06,2021StZZ) J ^π : Atomic beam magnetic resonance (1977Gu18); Favored α decay from ²⁰⁵ Po g.s. (J ^π =5/2 ⁻); μ. T _{1/2} : Weighted average of 9.300 75 (330.7γ(t)), 9.40 15 (691.9γ(t)) and 9.350 78 (945.4γ(t)) in 1981An11 . Others: 8 h 2 (1950Ne77), 8.4 h 10 (1954Wa12), 9.4 h 2 (1955Be12) and 10.0 h 8 (1960Li08). μ,Q: From 1986An06 , using the atomic beam with laser fluorescence spectroscopy technique. μ=+0.6753 5 in 1986An06 , but diamagnetic correction applied in 2019StZV . δ<r ² >=-0.4093 fm ² 34 (1986An06). Other: -0.4225 5 fm ² (1982Th05).
88.5 [#] 5	3/2 ⁻		A C	J ^π : 88.6γ M1+E2 to 5/2 ⁻ ; systematics in neighboring nuclei.
169.9 [@] 5	(1/2 ⁻)		A C	J ^π : 81.4γ to 3/2 ⁻ ; systematics in neighboring nuclei.
538.7 7	(3/2 ⁻)		A C	J ^π : 368.8γ to (1/2 ⁻), 538.7γ to 5/2 ⁻ ; systematics in neighboring nuclei.
629.1 ^{&} 3	13/2 ⁺	60.8 s 18	A CDE	%IT=100 J ^π : 629.1γ M4 to 5/2 ⁻ . T _{1/2} : Weighted average of 60.1 s 44 (1955Fi30) and 61 s 2 (1956St05). Other: 50 s (1952Ho41).
879.6 10	(5/2 ⁻)		A C	J ^π : 791.0γ M1 to 3/2 ⁻ , 2170γ from 7/2 ⁺ .
910.5 [?] 12	5/2 ⁻		A	J ^π : 822.6γ M1(+E2) to 3/2 ⁻ , 740.7γ from 7/2 ⁺ .
936.1 ^b 3	7/2 ⁻		A C	J ^π : 847.7γ E2 to 3/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
990.5 ^c 3	7/2 ⁻		A	J ^π : 902.0γ E2 to 3/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1014.2 ^b 4	9/2 ⁻		A C	J ^π : 1014.1γ E2 to 5/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1185.8 4	(7/2 ⁻)		A C	J ^π : 171.7γ M1(+E2) to 9/2 ⁻ , 1186.5γ to 5/2 ⁻ .
1325.4 ^a 5	7/2 ⁻		A	J ^π : 1325.2γ M1+E2 to 5/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1415.4 ^d 4	9/2 ⁺		A	J ^π : 786.4γ E2 to 13/2 ⁺ , 424.5γ (E1) to 7/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1447.9 5	(11/2 ⁺)		A C	J ^π : 818.9γ E2+M1 to 13/2 ⁺ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1490.3 6	7/2 ⁻ ,9/2 ⁻		A	J ^π : 499.9γ M1(+E2) to 7/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1541.8 ^e 4	17/2 ⁺		CDE	J ^π : 912.7γ E2 to 13/2 ⁺ .
1545.8 4	15/2 ⁺		CDE	J ^π : 916.7γ M1+E2 to 13/2 ⁺ .
1651.0 4	7/2 ⁺		A	J ^π : 1650.9γ E1 to 5/2 ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1737.3 4	9/2 ⁺		A	J ^π : 746.8γ E1 to 7/2 ⁻ , 1108.1γ E2 to 13/2 ⁺ .
1843.8 5	11/2 ⁺		A	J ^π : 1214.5γ M1(+E2) to 13/2 ⁺ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
1875.6 5	9/2 ⁺		A	J ^π : 224.5γ M1(+E2) to 7/2 ⁺ , 428.0γ M1(+E2) to 11/2 ⁺ .
1896.1 ^f 4	19/2 ⁺	3.3 ns 3	CDE	J ^π : 350.3γ E2 to 15/2 ⁺ , 354.3γ M1 to 17/2 ⁺ .

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Adopted Levels, Gammas (continued)

<u>²⁰¹Pb Levels (continued)</u>				
E(level) [†]	J ^π	T _{1/2}	XREF	Comments
T _{1/2} : Weighted average of 3.2 ns 6 using (350γ,354γ,913γ,917γ)(t) in 1981He07 (²⁰⁰ Hg(α,3nγ)) and 3.3 ns 3 from γγ(Δt) and centroid-shift analysis in 2020Wa24 (¹⁹⁷ Au(²⁰⁷ Pb,Xγ)).				
1902.2 ^g 5	21/2 ⁺		CD	J ^π : 360.4γ E2 to 17/2 ⁺ .
1977.6 5	7/2 ⁺ ,9/2 ⁺		A	J ^π : 986.5γ E1 to 7/2 ⁻ , 529.8γ to 11/2 ⁺ .
2068.5 5	21/2		CD	J ^π : 166.2γ D,E2 ΔJ=0 to 21/2 ⁺ .
2119.5 5	9/2 ⁺		A	J ^π : 275.5γ M1(+E2) to 11/2 ⁺ , 1183.7γ to 7/2 ⁻ .
2151.9 6	7/2 ⁺		A	J ^π : 414.6γ M1(+E2) to 9/2 ⁺ , 1241.4γ (E1) to 5/2 ⁻ .
2208.9 6	(9/2 ⁺)		A	J ^π : 557.7γ to 7/2 ⁺ , 1579.8γ to 13/2 ⁺ , 1298.4γ to 5/2 ⁻ .
2279.8 8	(9/2 ⁺) ⁺		A	J ^π : 832.0γ M1(+E2) to 11/2 ⁺ , 1265.7γ to 9/2 ⁻ , 1400.3γ to (5/2) ⁻ .
2439.4 7	7/2 ⁺ ,9/2 ⁺		A	J ^π : 1024.4γ M1(+E2) to 9/2 ⁺ , 1503.0γ to 7/2 ⁻ .
2459.9 6	7/2 ⁺ ,9/2 ⁺		A	J ^π : 250.9γ M1+E2 to (9/2 ⁺), 1469.5γ to 7/2 ⁻ .
2474.6 5	(7/2 ⁺ ,9/2 ⁺)		A	J ^π : 1288.9γ (E1) to (7/2) ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
2496.3 ^h 4	21/2 ⁻		CDE	J ^π : 594.5γ (E1) to 21/2 ⁺ , 600.5γ (E1) to 19/2 ⁺ , 222.4γ E2 from 25/2 ⁻ .
2506.8 4	9/2 ⁺		A	J ^π : 1570.8γ E1 to 7/2 ⁻ , 1877.4γ to 13/2 ⁺ .
2548.9 6	(11/2 ⁻)		A	J ^π : 1558.6γ (E2) to 7/2 ⁻ , 1919.4γ to 13/2 ⁺ .
2604.0 7	(21/2)		C	J ^π : 707.9γ D to 19/2 ⁺ .
2718.5 ⁱ 4	25/2 ⁻	63 ns 3	CDE	μ=-0.79 4 (1988Ro08,2020StZV); Q=0.46 2 (1979MaYQ,2021StZZ) XREF: D(2719.6)E(2719.1). J ^π : μ; π from 222.2γ E2 to negative parity state; systematics of similar isomers in neighboring Pb nuclei; proposed configuration. T _{1/2} : From (222.3γ,350.3γ,354.3γ,600.3γ,913.2γ,917.1γ)(t) in 1988Ro08 (²⁰⁰ Hg(α,3nγ)). Other: ≈55 ns in 1981He07. μ,Q: Using the time dependent perturbed angular distribution technique.
2718.5+x ^j 4	(29/2 ⁻)	508 ns 5	CDE	μ=-1.011 6 (1988Ro08,2020StZV) Additional information 1. E(level): X<70 keV in 1981He07. J ^π : From systematics. Consistent with the proposed configuration and μ. T _{1/2} : From (222.3γ,350.3γ,354.3γ,600.3γ,913.2γ,917.1γ)(t) in 1988Ro08 (²⁰⁰ Hg(α,3nγ)). Other: 540 ns 40 γ(t) in 1981He07 (²⁰⁰ Hg(α,3nγ)). μ: Using the time dependent perturbed angular distribution technique.
2732.8 6			D	
2736.2 6			D	
2788.8 6	11/2 ⁻		A	J ^π : 239.7γ M1+E2 to 11/2 ⁻ , 1051.6γ E1 to 9/2 ⁺ , 2159.7 to 13/2 ⁺ .
2794.2 5	(19/2,21/2,23/2) ⁻		C	J ^π : 297.9γ M1+E2 to 21/2 ⁻ .
2961.8 6	(7/2,9/2) ⁻		A	J ^π : 1971.0γ to 7/2 ⁻ , 2082.0γ to (5/2) ⁻ ; direct population in ²⁰¹ Bi ε decay (J ^π =9/2 ⁻).
3050.7 5	(7/2) ⁺		A	J ^π : 931.6γ M1(+E2) to 9/2 ⁺ , 2170.4γ to (5/2) ⁻ .
3509.5+x 4	(31/2 ⁻)		CD	J ^π : 791.0γ M1+E2 to (29/2 ⁻).
3545.0+x 4	(33/2 ⁻)		CDE	J ^π : 826.6γ E2 to (29/2 ⁻).
3638.0+x 4	(31/2)		CD	J ^π : 919.4γ (D) to (29/2 ⁻).
3832.3+x 6	(35/2 ⁻)		CDE	J ^π : 287.2γ M1+E2 to (33/2 ⁻).
3932.0+x ^k 4	(33/2 ⁺)		CD	J ^π : 293.9γ D to (31/2),387.0γ (D) to (33/2 ⁻), 422.5γ (D) to (31/2 ⁻); proposed configuration.
4059.5 7			D	
4059.5+y ⁿ 7			D	Additional information 2.
4168.7+y ⁿ 5			D	
4350.3+y ⁿ 7			D	
4505.1+x 6	(35/2)		CD	J ^π : 573.2γ D to (33/2 ⁺).
4560.2+x 6	(37/2 ⁺)		CDE	J ^π : 628.4γ E2 to (33/2 ⁺), 728.0 D to (35/2 ⁻).
4614.1+y ⁿ 9			D	
4640.0+x ^l 6	(41/2 ⁺)	46 ns 3	CDE	μ=-3.7 8 (1988Ro08,2020StZV)

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Adopted Levels, Gammas (continued)

²⁰¹Pb Levels (continued)

E(level) [†]	J ^π	XREF	Comments
			XREF: C(4638.0+X).
			J ^π : 80γ E2 to (37/2 ⁺).
			T _{1/2} : Unweighted average of 52 ns 2 from γγ(Δt) in 2019Ro12 , using 902γ-(728γ,827γ) and 447γ-(728γ,827γ) in ¹⁹⁷ Au(²⁰⁷ Pb,Xγ), 43 ns 3 from 80.1γ(t) in 1989Su12 (¹⁹² Os(¹⁴ C,5nγ)), and 43 ns 3 from (727.7γ,287.0γ,825.6γ)(t) in 1988Ro08 (²⁰⁰ Hg(α,3nγ)).
			μ: Using time dependent perturbed angular distribution technique.
4640.0+u ^D 7		D	Additional information 3 .
4640.0+v ^Q 7		D	Additional information 4 .
4640.0+z ^O 7		D	Additional information 5 .
4640.1+x 5	(35/2)	C	J ^π : 708.1γ to (33/2 ⁺).
4647.6+x 6	(35/2)	D	J ^π : 142.5γ (D) to (35/2 ⁺), 715.7γ D to (33/2 ⁺).
4780.5+z ^O 5		D	
4793.8+v ^Q 5		D	
4817.4+u ^P 5		D	
4830.2+x 6	(39/2)	D	J ^π : 190.4γ D to (41/2 ⁺), 269.9γ D to (37/2 ⁺).
4954.9+y ^N 10		D	
4956.3+z ^O 7		D	
4992.4+v ^Q 7		D	
5000.1+x 7		C	
5043.1+u ^P 7		D	
5087.1+x 6	(43/2)	CDE	J ^π : 447.3γ D to (41/2 ⁺).
5172.4+x 7		C	
5178.6+z ^O 9		D	
5242.4+v ^Q 9		D	
5321.3+u ^P 9		D	
5358.7+y ^N 10		D	
5389.1+x 7	(45/2)	D	J ^π : 302.0γ D to (43/2).
5425.5+x 7		C	
5455.0+z ^O 10		D	
5554.4+v ^Q 10		D	
5581.9+x 7	(39/2 ⁻)	D	J ^π : 1749.5γ E2 to (35/2 ⁻).
5648.0+u ^P 10		D	
5787.3+z ^O 12		D	
5817.7+y ^N 10		D	
5830.0+x 7	(45/2 ⁺)	D	J ^π : 1190.1γ E2 to (41/2 ⁺).
5835.7+x 6	(41/2)	D	J ^π : 253.7γ (D) to (39/2 ⁻), 1005.5γ D to (39/2 ⁻).
5891.3+x 7	(43/2)	D	J ^π : 1251.3γ D to (41/2 ⁺).
5928.8+v ^Q 12		D	
5989.4+x 6	(45/2)	DE	J ^π : 98.2γ D to (43/2), 153.7γ E2 to (41/2), 159.4γ (D) to (45/2 ⁺).
6028.4+u ^P 12		D	
6145.1+x ^M 7	(35/2)	D	J ^π : 1640.0γ ΔJ=0, (D) to (35/2).
6175.4+z ^O 12		D	
6246.8+x ^M 8	(37/2)	D	J ^π : 101.7γ (M1) to (35/2); band structure.
6323.4+y ^N 11		D	
6323.9+x 7	(45/2 ⁺)	D	J ^π : 1683.8γ E2 to (41/2 ⁺).
6336.1+y 11		D	
6364.8+v ^Q 13		D	
6376.4+x ^M 9	(39/2)	D	J ^π : 129.7γ (M1) to (37/2); band structure.
6458.1+u ^P 13		D	
6460.1+x 7	(47/2)	D	J ^π : 136.2γ D to (45/2 ⁺), 470.7γ D to (45/2).
6548.0+x ^M 9	(41/2)	D	J ^π : 171.6γ (M1) to (39/2); band structure.
6616.7+z ^O 12		D	

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Adopted Levels, Gammas (continued)

²⁰¹Pb Levels (continued)

E(level) [†]	J ^π	XREF	Comments
6706.7+x 7	(49/2)	D	J ^π : 717.3γ E2 to (45/2).
6768.5+x ^m 8	(43/2)	D	J ^π : 220.5γ (M1) to (41/2); band structure.
6858.2+v ^q 14		D	
6881.9+y ⁿ 12		D	
6910.1+x 8	(47/2)	D	J ^π : 586.1γ D to (45/2 ⁺).
6941.2+u ^p 14		D	
7008.4+x 8	(49/2)	D	J ^π : 548.3γ D to (47/2).
7044.3+x ^m 7	(45/2)	D	J ^π : 275.9γ (M1) to (43/2); band structure.
7108.4+z ^o 13		D	
7142.3+x 7	(49/2 ⁺)	D	J ^π : 232.2γ D to (47/2), 682.3γ D to (47/2), 1312.3γ E2 to (45/2 ⁺).
7339.5+x 8	(51/2)	D	J ^π : 197.2γ D to (49/2 ⁺), 331.1γ D to (49/2).
7377.5+x 7	(47/2)	D	J ^π : 333.1γ (M1) to (45/2,47/2), 1388.1γ D to (45/2).
7378.9+x ^m 7	(47/2)	D	J ^π : 334.6γ (M1) to (45/2,47/2), 1389.4γ D to (45/2).
7471.4+u ^p 15		D	
7648.2+z ^o 13		D	
7759.5+x 7	(49/2)	D	J ^π : 380.6γ D to (47/2), 382.0γ D to (47/2).
7772.2+x ^m 8	(49/2)	D	J ^π : 393.3γ (M1) to (47/2), 394.8γ (M1) to (47/2).
8003.4+x 10	(53/2)	D	J ^π : 663.9γ D to (51/2).
8018.7+x 8	(51/2)	D	J ^π : 259.2γ D to (49/2), 1312.0γ D to (49/2).
8198.0+x 9	(53/2)	D	J ^π : 179.3γ D to (51/2).
8214.7+x 9	(51/2)	D	J ^π : 442.5γ (M1) to (49/2).
8226.1+x ^m 9	(51/2)	D	J ^π : 453.9γ (M1) to (49/2).
8653.8+x 11	(55/2)	D	J ^π : 455.8γ (M1) to (53/2).

[†] From a least squares fit to Eγ.

[‡] Configuration= $\nu f_{5/2}^{-1}$.

Configuration= $\nu p_{3/2}^{-1}$.

@ Configuration= $\nu p_{1/2}^{-1}$. The assignment is tentative.

& Configuration= $\nu i_{13/2}^{-1}$.

^a Configuration= $\nu f_{7/2}^{-1}$. The assignment is tentative.

^b Configuration= $\nu (f_{5/2}^{-1}) \otimes 2^+$.

^c Configuration= $\nu (p_{3/2}^{-1}) \otimes 2^+$.

^d Configuration= $\nu (i_{13/2}^{-1}) \otimes 2^+$.

^e Probably an admixture of configuration= $\nu (f_{5/2}^{-1}, p_{1/2}^{-1}, i_{13/2}^{-1}) \otimes 2^+$ and configuration= $\nu (i_{13/2}^{-1}) \otimes 2^+$.

^f Probably an admixture of configuration= $\nu (f_{5/2}^{-1}, p_{1/2}^{-1}, i_{13/2}^{-1}) \otimes 4^+$ and configuration= $\nu (i_{13/2}^{-1}) \otimes 4^+$.

^g Configuration= $\nu (f_{5/2}^{-2}, i_{13/2}^{-1})$.

^h Configuration= $\nu [p_{3/2}^{-1}, (i_{13/2}^{-2})_{12+}]$.

ⁱ Probably an admixture of configuration= $\nu [f_{5/2}^{-1}, (i_{13/2}^{-2})_{10+}]$, configuration= $\nu [p_{3/2}^{-1}, (i_{13/2}^{-2})_{12+}]$ and configuration= $\nu [p_{1/2}^{-1}, (i_{13/2}^{-2})_{12+}]$.

^j Configuration= $\nu [f_{5/2}^{-1}, (i_{13/2}^{-2})_{12+}]$.

^k Configuration= $\nu (i_{13/2}^{-3})$.

^l Configuration= $\nu (p_{3/2}^{-1}, f_{5/2}^{-1}, i_{13/2}^{-3})$.

^m Band(A): configuration= $\nu [p_{3/2}^{-1}, (i_{13/2}^{-2})_{12+}] \otimes \pi (h_{9/2}^{+1}, i_{13/2}^{+1})_{11-}$. Band 2 in 1995Ba70.

ⁿ Band(B): configuration= $\nu (i_{13/2}^{-1}) \otimes \pi (h_{9/2}^{+1}, i_{13/2}^{+1})_{11-}$. Band 1 in 1995Ba70.

^o Band(C): Band 3 in 1995Ba70.

^p Band(D): Band 4 in 1995Ba70.

^q Band(E): Band 5 in 1995Ba70.

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	$\gamma(^{201}\text{Pb})$		Comments
							δ^a	α^b	
88.5	3/2 ⁻	88.6 10	100	0	5/2 ⁻	M1+E2		9.1 21	$\alpha(\text{L})=4.8$ 29; $\alpha(\text{M})=1.2$ 8 $\alpha(\text{N})=0.31$ 20; $\alpha(\text{O})=0.056$ 34; $\alpha(\text{P})=0.0029$ 5 Mult.: From $\alpha(\text{exp})$ in ^{201}Bi ε decay. α : From intensity balance in ^{201}Bi ε decay. E_γ : Not observed experimentally; E_γ from E(level) difference.
169.9	(1/2 ⁻)	(81.4 7)	100	88.5	3/2 ⁻				
538.7	(3/2 ⁻)	368.8 10	100 19	169.9	(1/2 ⁻)				
		450.3 10	70 14	88.5	3/2 ⁻				
		538.7 10	50 11	0	5/2 ⁻				
629.1	13/2 ⁺	629.1 5	100	0	5/2 ⁻	M4		0.813 12	B(M4)(W.u.)=3.08 +11-10 $\alpha(\text{K})=0.552$ 8; $\alpha(\text{L})=0.1949$ 28; $\alpha(\text{M})=0.0504$ 7 $\alpha(\text{N})=0.01299$ 19; $\alpha(\text{O})=0.00252$ 4; $\alpha(\text{P})=0.0002177$ 31 Mult.: From $\alpha(\text{K})\text{exp}=0.6$ 2, K/L=2.3 3 and L12/L3=4 1 (1956St05) and $\alpha(\text{L})\text{exp}=0.21$ 1 (1978Ri04) in ^{201}Bi ε decay.
879.6	(5/2 ⁻)	710.0 ^c 10	7.4 14	169.9	(1/2 ⁻)				
		791.0 ^c 10	27 6	88.5	3/2 ⁻	M1(+E2)	<1.1	0.027 6	$\alpha(\text{K})=0.022$ 5; $\alpha(\text{L})=0.0037$ 7; $\alpha(\text{M})=0.00087$ 16 $\alpha(\text{N})=0.00022$ 4; $\alpha(\text{O})=4.4\times 10^{-5}$ 9; $\alpha(\text{P})=4.6\times 10^{-6}$ 10 Mult., δ : From $\alpha(\text{K})\text{exp}=0.028$ 11 in ^{201}Bi ε decay.
		879.6 10	100 20	0	5/2 ⁻	E2+M1	7.3 16	0.00888 22	$\alpha(\text{K})=0.00700$ 18; $\alpha(\text{L})=0.001430$ 30; $\alpha(\text{M})=0.000342$ 7 $\alpha(\text{N})=8.68\times 10^{-5}$ 18; $\alpha(\text{O})=1.69\times 10^{-5}$ 4; $\alpha(\text{P})=1.60\times 10^{-6}$ 4 E_γ : Other: 879.6 keV 5 in $^{200}\text{Hg}(\alpha,3n\gamma)$. Mult., δ : From $\alpha(\text{K})\text{exp}=0.007$ 3 in ^{201}Bi ε decay.
910.5?	5/2 ⁻	372.3 ^c 10	5.4 11	538.7	(3/2 ⁻)				
		822.6 ^c 10	43 9	88.5	3/2 ⁻	M1(+E2)	<1.7	0.022 7	$\alpha(\text{K})=0.018$ 6; $\alpha(\text{L})=0.0031$ 9; $\alpha(\text{M})=7.3\times 10^{-4}$ 20 $\alpha(\text{N})=1.9\times 10^{-4}$ 5; $\alpha(\text{O})=3.7\times 10^{-5}$ 10; $\alpha(\text{P})=3.9\times 10^{-6}$ 12 Mult., δ : From $\alpha(\text{K})\text{exp}=0.019$ 8 in ^{201}Bi ε decay.
		911.0 ^c 10	100 20	0	5/2 ⁻	M1(+E2)	<0.5	0.0211 15	$\alpha(\text{K})=0.0174$ 13; $\alpha(\text{L})=0.00289$ 18; $\alpha(\text{M})=0.00068$ 4 $\alpha(\text{N})=0.000172$ 11; $\alpha(\text{O})=3.42\times 10^{-5}$ 22; $\alpha(\text{P})=3.66\times 10^{-6}$ 25 Mult., δ : From $\alpha(\text{K})\text{exp}=0.028$ 7 in ^{201}Bi ε decay.
936.1	7/2 ⁻	847.7 10	16 3	88.5	3/2 ⁻	E2		0.00924 13	$\alpha(\text{K})=0.00724$ 10; $\alpha(\text{L})=0.001524$ 22; $\alpha(\text{M})=0.000366$ 5 $\alpha(\text{N})=9.27\times 10^{-5}$ 13; $\alpha(\text{O})=1.801\times 10^{-5}$ 26; $\alpha(\text{P})=1.675\times 10^{-6}$ 24 Mult.: From $\alpha(\text{K})\text{exp}=0.009$ 5 in ^{201}Bi ε decay.
		936.2 5	100 5	0	5/2 ⁻	M1,E2		0.014 7	$\alpha(\text{K})=0.012$ 6; $\alpha(\text{L})=0.0020$ 8; $\alpha(\text{M})=4.8\times 10^{-4}$ 19 $\alpha(\text{N})=1.2\times 10^{-4}$ 5; $\alpha(\text{O})=2.4\times 10^{-5}$ 10; $\alpha(\text{P})=2.5\times 10^{-6}$ 11 Mult.: From $\alpha(\text{K})\text{exp}=0.004$ 3 in ^{201}Bi ε decay.
990.5	7/2 ⁻	902.0 5	100 5	88.5	3/2 ⁻	E2		0.00816 11	$\alpha(\text{K})=0.00644$ 9; $\alpha(\text{L})=0.001313$ 18; $\alpha(\text{M})=0.000314$ 4 $\alpha(\text{N})=7.96\times 10^{-5}$ 11; $\alpha(\text{O})=1.550\times 10^{-5}$ 22; $\alpha(\text{P})=1.463\times 10^{-6}$ 21 Mult.: From $\alpha(\text{K})\text{exp}=0.006$ 2 in ^{201}Bi ε decay.
		990.6 5	38.8 20	0	5/2 ⁻	E2+M1	2.2 6	0.0087 13	$\alpha(\text{K})=0.0070$ 11; $\alpha(\text{L})=0.00130$ 16; $\alpha(\text{M})=0.00031$ 4

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

<u>E_i(level)</u>	<u>J_i^{π}</u>	<u>E_{γ}^{\dagger}</u>	<u>I_{γ}^{\dagger}</u>	<u>E_f</u>	<u>J_f^{π}</u>	<u>Mult.&</u>	<u>δ^a</u>	<u>α^b</u>	<u>Comments</u>
1014.2	9/2 ⁻	1014.1 5	100	0	5/2 ⁻	E2		0.00648 9	$\alpha(\text{N})=7.8\times 10^{-5}$ 9; $\alpha(\text{O})=1.53\times 10^{-5}$ 19; $\alpha(\text{P})=1.53\times 10^{-6}$ 21 Mult., δ : From $\alpha(\text{K})\text{exp}=0.007$ 2 in ²⁰¹ Bi ϵ decay. $\alpha(\text{K})=0.00517$ 7; $\alpha(\text{L})=0.001000$ 14; $\alpha(\text{M})=0.0002379$ 33 $\alpha(\text{N})=6.03\times 10^{-5}$ 8; $\alpha(\text{O})=1.179\times 10^{-5}$ 17; $\alpha(\text{P})=1.140\times 10^{-6}$ 16
1185.8	(7/2) ⁻	171.7 5	100 5	1014.2	9/2 ⁻	M1(+E2)	<0.5	1.88 13	Mult.: From $\alpha(\text{K})\text{exp}=0.005$ 2 in ²⁰¹ Bi ϵ decay. $\alpha(\text{K})=1.50$ 14; $\alpha(\text{L})=0.292$ 10; $\alpha(\text{M})=0.0694$ 34 $\alpha(\text{N})=0.0176$ 8; $\alpha(\text{O})=0.00347$ 12; $\alpha(\text{P})=0.000344$ 16 Mult., δ : From $\alpha(\text{L})\text{exp}=0.27$ 3, L12/L3>66 in ²⁰¹ Bi ϵ decay.
1325.4	7/2 ⁻	305.7 ^c 10 1186.5 10 1325.2 5	4.1 9 8.4 16 100	879.6	(5/2) ⁻ 5/2 ⁻ 5/2 ⁻	M1+E2	0.6 4	0.0074 11	$\alpha(\text{K})=0.0061$ 9; $\alpha(\text{L})=0.00101$ 14; $\alpha(\text{M})=0.000235$ 33 $\alpha(\text{N})=6.0\times 10^{-5}$ 8; $\alpha(\text{O})=1.19\times 10^{-5}$ 17; $\alpha(\text{P})=1.27\times 10^{-6}$ 19; $\alpha(\text{IPF})=3.08\times 10^{-5}$ 35 Mult., δ : From $\alpha(\text{K})\text{exp}=0.006$ 1 in ²⁰¹ Bi ϵ decay.
1415.4	9/2 ⁺	424.5 10	9.3 18	990.5	7/2 ⁻	(E1)		0.01354 20	$\alpha(\text{K})=0.01117$ 17; $\alpha(\text{L})=0.001823$ 27; $\alpha(\text{M})=0.000424$ 6 $\alpha(\text{N})=0.0001070$ 16; $\alpha(\text{O})=2.095\times 10^{-5}$ 31; $\alpha(\text{P})=2.021\times 10^{-6}$ 30 Mult.: From $\alpha(\text{K})\text{exp}=0.050$ 20 in ²⁰¹ Bi ϵ decay. $\alpha(\text{K})=0.00836$ 12; $\alpha(\text{L})=0.001835$ 26; $\alpha(\text{M})=0.000443$ 6 $\alpha(\text{N})=0.0001121$ 16; $\alpha(\text{O})=2.170\times 10^{-5}$ 31; $\alpha(\text{P})=1.981\times 10^{-6}$ 28
1447.9	(11/2) ⁺	818.9 5	100	629.1	13/2 ⁺	E2		0.01077 15	Mult.: From $\alpha(\text{K})\text{exp}=0.0095$ 8 in ²⁰¹ Bi ϵ decay. $\alpha(\text{K})=0.00800$ 14; $\alpha(\text{L})=0.001698$ 27; $\alpha(\text{M})=0.000408$ 6 $\alpha(\text{N})=0.0001034$ 16; $\alpha(\text{O})=2.007\times 10^{-5}$ 32; $\alpha(\text{P})=1.863\times 10^{-6}$ 31 Mult., δ : From $\alpha(\text{K})\text{exp}=0.0080$ 20 in ²⁰¹ Bi ϵ decay; A ₂ =-0.21 5, A ₄ =0.01 7 using $\gamma(\theta)$ in ²⁰⁰ Hg(α ,3n γ) are consistent with Mult=D.
1490.3	7/2 ⁻ ,9/2 ⁻	499.9 10	100 20	990.5	7/2 ⁻	M1(+E2)	<1.2	0.085 23	$\alpha(\text{K})=0.069$ 20; $\alpha(\text{L})=0.0124$ 25; $\alpha(\text{M})=0.0029$ 6 $\alpha(\text{N})=0.00075$ 14; $\alpha(\text{O})=0.000147$ 29; $\alpha(\text{P})=1.5\times 10^{-5}$ 4 Mult.: From $\alpha(\text{K})\text{exp}=0.08$ 3 in ²⁰¹ Bi ϵ decay.
1541.8	17/2 ⁺	610.4 ^c 10 1490.1 10 912.7 [#] 2	30 6 39 7 100 [#]	879.6	(5/2) ⁻ 5/2 ⁻ 13/2 ⁺	E2		0.00797 11	$\alpha(\text{K})=0.00629$ 9; $\alpha(\text{L})=0.001277$ 18; $\alpha(\text{M})=0.000305$ 4 $\alpha(\text{N})=7.74\times 10^{-5}$ 11; $\alpha(\text{O})=1.507\times 10^{-5}$ 21; $\alpha(\text{P})=1.426\times 10^{-6}$ 20 Mult.: From A ₂ =0.32 5, A ₄ =-0.01 6 (1988Ro08) and A ₂ =0.21 3, A ₄ =-0.05 4 (1981He07) using $\gamma(\theta)$ in ²⁰⁰ Hg(α ,3n γ); R(DCO)=1.08 8 in ¹⁹² Os(¹⁴ C,5n γ).

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	δ^a	α^b	Comments
1545.8	15/2 ⁺	916.7 [#] 2	100 [#]	629.1	13/2 ⁺	M1+E2		0.015 7	$\alpha(\text{K})=0.012 6$; $\alpha(\text{L})=0.0021 9$; $\alpha(\text{M})=5.0\times 10^{-4} 20$ $\alpha(\text{N})=1.3\times 10^{-4} 5$; $\alpha(\text{O})=2.5\times 10^{-5} 10$; $\alpha(\text{P})=2.6\times 10^{-6} 12$ Mult.: From $A_2=-0.51 4$, $A_4=0.15 6$ (1988Ro08) and $A_2=-0.28 3$, $A_4=0.04 4$ (1981He07) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$; $\text{R}(\text{DCO})=0.81 11$ in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
1651.0	7/2 ⁺	325.7 ^c 10 740.7 ^c 10	2.9 6 9.1 16	1325.4 910.5?	7/2 ⁻ 5/2 ⁻	E1		0.00436 6	$\alpha(\text{K})=0.00363 5$; $\alpha(\text{L})=0.000565 8$; $\alpha(\text{M})=0.0001306 19$ $\alpha(\text{N})=3.30\times 10^{-5} 5$; $\alpha(\text{O})=6.52\times 10^{-6} 9$; $\alpha(\text{P})=6.61\times 10^{-7} 9$ Mult.: From $\alpha(\text{K})_{\text{exp}}=0.0030 20$ in ^{201}Bi ϵ decay.
		1650.9 5	100 5	0	5/2 ⁻	E1		$1.33\times 10^{-3} 2$	$\alpha(\text{K})=0.000881 12$; $\alpha(\text{L})=0.0001310 18$; $\alpha(\text{M})=3.01\times 10^{-5} 4$ $\alpha(\text{N})=7.62\times 10^{-6} 11$; $\alpha(\text{O})=1.517\times 10^{-6} 21$; $\alpha(\text{P})=1.601\times 10^{-7} 22$; $\alpha(\text{IPF})=0.000276 4$ Mult.: From $\alpha(\text{K})_{\text{exp}}=0.0006 4$ in ^{201}Bi ϵ decay.
1737.3	9/2 ⁺	288.6 10	7.4 15	1447.9	(11/2) ⁺	M1(+E2)	<0.24	0.465 12	$\alpha(\text{K})=0.379 11$; $\alpha(\text{L})=0.0656 13$; $\alpha(\text{M})=0.01539 29$ $\alpha(\text{N})=0.00391 7$; $\alpha(\text{O})=0.000779 15$; $\alpha(\text{P})=8.26\times 10^{-5} 20$ Mult., δ : From $\alpha(\text{K})_{\text{exp}}=0.45 5$ in ^{201}Bi ϵ decay.
		411.6 10 723.5 10 746.8 10	13.4 24 6.3 13 29 6	1325.4 1014.2 990.5	7/2 ⁻ 9/2 ⁻ 7/2 ⁻	E1		0.00430 6	$\alpha(\text{K})=0.00357 5$; $\alpha(\text{L})=0.000556 8$; $\alpha(\text{M})=0.0001285 18$ $\alpha(\text{N})=3.25\times 10^{-5} 5$; $\alpha(\text{O})=6.42\times 10^{-6} 9$; $\alpha(\text{P})=6.51\times 10^{-7} 9$ Mult.: From $\alpha(\text{K})_{\text{exp}}=0.0050 10$ in ^{201}Bi ϵ decay.
		1108.1 5	100 5	629.1	13/2 ⁺	E2		0.00546 8	$\alpha(\text{K})=0.00439 6$; $\alpha(\text{L})=0.000820 12$; $\alpha(\text{M})=0.0001942 27$ $\alpha(\text{N})=4.92\times 10^{-5} 7$; $\alpha(\text{O})=9.65\times 10^{-6} 14$; $\alpha(\text{P})=9.48\times 10^{-7} 13$; $\alpha(\text{IPF})=2.05\times 10^{-7} 5$ Mult.: From $\alpha(\text{K})_{\text{exp}}=0.005 1$ in ^{201}Bi ϵ decay.
1843.8	11/2 ⁺	1737.6 10 396.1 10 1214.5 5	3.3 7 11.1 22 100 5	0 1447.9 629.1	5/2 ⁻ (11/2) ⁺ 13/2 ⁺	M1(+E2)	<2.3	0.0082 26	$\alpha(\text{K})=0.0067 22$; $\alpha(\text{L})=0.00113 33$; $\alpha(\text{M})=2.6\times 10^{-4} 8$ $\alpha(\text{N})=6.7\times 10^{-5} 19$; $\alpha(\text{O})=1.3\times 10^{-5} 4$; $\alpha(\text{P})=1.4\times 10^{-6} 5$; $\alpha(\text{IPF})=7.5\times 10^{-6} 17$ Mult., δ : From $\alpha(\text{K})_{\text{exp}}=0.006 3$ in ^{201}Bi ϵ decay.
1875.6	9/2 ⁺	224.5 10	55 10	1651.0	7/2 ⁺	M1(+E2)	<0.44	0.90 6	$\alpha(\text{K})=0.72 5$; $\alpha(\text{L})=0.1319 27$; $\alpha(\text{M})=0.0312 6$ $\alpha(\text{N})=0.00791 15$; $\alpha(\text{O})=0.001566 32$; $\alpha(\text{P})=0.000161 8$ Mult., δ : From $\alpha(\text{K})_{\text{exp}}=0.75 8$ in ^{201}Bi ϵ decay.
		384.4 10 428.0 10	18 4 100 17	1490.3 1447.9	7/2 ⁻ ,9/2 ⁻ (11/2) ⁺	M1(+E2)	<0.9	0.136 27	$\alpha(\text{K})=0.110 23$; $\alpha(\text{L})=0.0200 27$; $\alpha(\text{M})=0.0047 6$ $\alpha(\text{N})=0.00120 15$; $\alpha(\text{O})=0.000237 32$; $\alpha(\text{P})=2.4\times 10^{-5} 4$ Mult., δ : From $\alpha(\text{K})_{\text{exp}}=0.12 3$ in ^{201}Bi ϵ decay.
		460.1 10	55 10	1415.4	9/2 ⁺	M1(+E2)	<0.7	0.118 16	$\alpha(\text{K})=0.096 14$; $\alpha(\text{L})=0.0170 17$; $\alpha(\text{M})=0.0040 4$

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. &	δ^a	α^b	Comments
									$\alpha(\text{N})=0.00101$ 10; $\alpha(\text{O})=0.000201$ 20; $\alpha(\text{P})=2.10 \times 10^{-5}$ 27 Mult.: From $\alpha(\text{K})\text{exp}=0.16$ 6 in ^{201}Bi ϵ decay.
1875.6	9/2 ⁺	885.0 10	48 10	990.5	7/2 ⁻				
1896.1	19/2 ⁺	350.3 2	54.4 22	1545.8	15/2 ⁺	E2		0.0739 10	B(E2)(W.u.)=0.136 +15-12 $\alpha(\text{K})=0.0454$ 6; $\alpha(\text{L})=0.02135$ 30; $\alpha(\text{M})=0.00543$ 8 $\alpha(\text{N})=0.001374$ 19; $\alpha(\text{O})=0.000255$ 4; $\alpha(\text{P})=1.684 \times 10^{-5}$ 24 E_γ : From $^{200}\text{Hg}(\alpha, 3\gamma)$. I_γ : From $^{192}\text{Os}(^{14}\text{C}, 5\gamma)$; $I_\gamma=68$ 6 in $^{200}\text{Hg}(\alpha, 3\gamma)$. Mult.: From $A_2=0.25$ 5, $A_4=-0.05$ 6 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha, 3\gamma)$. Note, that $A_2=0.09$ 2, $A_4=-0.07$ 4 in 1981He07 ($^{200}\text{Hg}(\alpha, 3\gamma)$) would imply Mult=M1+E2; R(DCO)=0.95 13 in $^{192}\text{Os}(^{14}\text{C}, 5\gamma)$.
		354.3 2	100 3	1541.8	17/2 ⁺	M1		0.271 4	B(M1)(W.u.)= 8.3×10^{-5} +19-13 $\alpha(\text{K})=0.2220$ 31; $\alpha(\text{L})=0.0378$ 5; $\alpha(\text{M})=0.00884$ 12 $\alpha(\text{N})=0.002245$ 32; $\alpha(\text{O})=0.000448$ 6; $\alpha(\text{P})=4.79 \times 10^{-5}$ 7 E_γ : From $^{200}\text{Hg}(\alpha, 3\gamma)$. I_γ : From $^{192}\text{Os}(^{14}\text{C}, 5\gamma)$. Mult.: From $A_2=0.70$ 5, $A_4=0.04$ 6 (1988Ro08) and $A_2=0.19$ 3, $A_4=0.01$ 4 (1981He07) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha, 3\gamma)$.
1902.2	21/2 ⁺	360.4# 3	100#	1541.8	17/2 ⁺	E2		0.0683 10	$\alpha(\text{K})=0.0426$ 6; $\alpha(\text{L})=0.01929$ 28; $\alpha(\text{M})=0.00490$ 7 $\alpha(\text{N})=0.001239$ 18; $\alpha(\text{O})=0.0002300$ 33; $\alpha(\text{P})=1.543 \times 10^{-5}$ 22 Mult.: From $A_2=0.25$ 3, $A_4=-0.08$ 4 (1981He07) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha, 3\gamma)$; R(DCO)=0.96 9 in $^{192}\text{Os}(^{14}\text{C}, 5\gamma)$.
1977.6	7/2 ⁺ , 9/2 ⁺	529.8 10 562.5 10 651.8 10 986.5 10	100 20 43 9 20 4 100 20	1447.9 1415.4 1325.4 990.5	(11/2) ⁺ 9/2 ⁺ 7/2 ⁻ 7/2 ⁻	E1		0.00256 4	$\alpha(\text{K})=0.002140$ 30; $\alpha(\text{L})=0.000326$ 5; $\alpha(\text{M})=7.53 \times 10^{-5}$ 11 $\alpha(\text{N})=1.904 \times 10^{-5}$ 27; $\alpha(\text{O})=3.77 \times 10^{-6}$ 5; $\alpha(\text{P})=3.90 \times 10^{-7}$ 5 Mult.: From $\alpha(\text{K})\text{exp}=0.005$ 3 in ^{201}Bi ϵ decay.
2068.5	21/2	1042.8 10 166.2# 2	27 5 100#	936.1 1902.2	7/2 ⁻ 21/2 ⁺	D,E2			$\alpha(\text{K})=1.0$ 8; $\alpha(\text{L})=0.37$ 6; $\alpha(\text{M})=0.093$ 20 $\alpha(\text{N})=0.023$ 5; $\alpha(\text{O})=0.0044$ 7; $\alpha(\text{P})=0.00032$ 8 Mult.: From $A_2=0.36$ 5, $A_4=0.01$ 5 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha, 3\gamma)$; R(DCO)=1.08 9 in $^{192}\text{Os}(^{14}\text{C}, 5\gamma)$; consistent with $\Delta J=0$ transition.
2119.5	9/2 ⁺	142.6 10 243.1 10 275.5 10	5.2 12 10.3 21 67 15	1977.6 1875.6 1843.8	7/2 ⁺ , 9/2 ⁺ 9/2 ⁺ 11/2 ⁺	M1(+E2)	<0.25	0.527 15	$\alpha(\text{K})=0.430$ 13; $\alpha(\text{L})=0.0746$ 15; $\alpha(\text{M})=0.01751$ 33

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. &	δ^a	α^b	Comments
									$\alpha(\text{N})=0.00445$ 8; $\alpha(\text{O})=0.000885$ 17; $\alpha(\text{P})=9.38 \times 10^{-5}$ 24 Mult., δ : From $\alpha(\text{K})\text{exp}=0.52$ 9 in ²⁰¹ Bi ϵ decay.
2119.5	9/2 ⁺	671.9 10 703.9 10	13 3 100 21	1447.9 1415.4	(11/2) ⁺ 9/2 ⁺				
2151.9	7/2 ⁺	1183.7 10 414.6 10	31 6 92 18	936.1 1737.3	7/2 ⁻ 9/2 ⁺	M1(+E2)	<0.6	0.160 17	$\alpha(\text{K})=0.130$ 15; $\alpha(\text{L})=0.0230$ 17; $\alpha(\text{M})=0.0054$ 4 $\alpha(\text{N})=0.00137$ 10; $\alpha(\text{O})=0.000272$ 20; $\alpha(\text{P})=2.85 \times 10^{-5}$ 28 Mult., δ : From $\alpha(\text{K})\text{exp}=0.14$ 3 in ²⁰¹ Bi ϵ decay.
		661.5 ^c 10 736.4 10	63 13 88 18	1490.3 1415.4	7/2 ⁻ , 9/2 ⁻ 9/2 ⁺	M1		0.0391 6	$\alpha(\text{K})=0.0322$ 5; $\alpha(\text{L})=0.00535$ 8; $\alpha(\text{M})=0.001250$ 18 $\alpha(\text{N})=0.000317$ 5; $\alpha(\text{O})=6.33 \times 10^{-5}$ 9; $\alpha(\text{P})=6.80 \times 10^{-6}$ 10 Mult.: From $\alpha(\text{K})\text{exp}=0.048$ 10 in ²⁰¹ Bi ϵ decay.
		1137.7 ^c 10 1161.2 10 1241.4 ^c 10	11.2 22 22 4 100 20	1014.2 990.5 910.5?	9/2 ⁻ 7/2 ⁻ 5/2 ⁻	(E1)		1.74 $\times 10^{-3}$ 2	$\alpha(\text{K})=0.001427$ 20; $\alpha(\text{L})=0.0002149$ 30; $\alpha(\text{M})=4.95 \times 10^{-5}$ 7 $\alpha(\text{N})=1.252 \times 10^{-5}$ 18; $\alpha(\text{O})=2.488 \times 10^{-6}$ 35; $\alpha(\text{P})=2.60 \times 10^{-7}$ 4; $\alpha(\text{IPF})=2.94 \times 10^{-5}$ 6 Mult.: From $\alpha(\text{K})\text{exp}=0.004$ 3 in ²⁰¹ Bi ϵ decay.
2208.9	(9/2 ⁺)	557.7 10 1298.4 10	100 22 78 17	1651.0 910.5?	7/2 ⁺ 5/2 ⁻				
2279.8	(9/2 ⁺)	1579.8 10 832.0 10	19 4 82 18	629.1 1447.9	13/2 ⁺ (11/2) ⁺	M1(+E2)	<1.3	0.023 6	$\alpha(\text{K})=0.018$ 5; $\alpha(\text{L})=0.0032$ 7; $\alpha(\text{M})=0.00074$ 17 $\alpha(\text{N})=0.00019$ 4; $\alpha(\text{O})=3.7 \times 10^{-5}$ 9; $\alpha(\text{P})=3.9 \times 10^{-6}$ 10 Mult.: From $\alpha(\text{K})\text{exp}=0.028$ 14 in ²⁰¹ Bi ϵ decay.
2439.4	7/2 ⁺ , 9/2 ⁺	1265.6 10 1400.3 ^c 10 1024.0 10	47 10 100 18 42 9	1014.2 879.6 1415.4	9/2 ⁻ (5/2) ⁻ 9/2 ⁺	M1+E2	2.9 11	0.0075 13	$\alpha(\text{K})=0.0060$ 11; $\alpha(\text{L})=0.00112$ 17; $\alpha(\text{M})=0.00026$ 4 $\alpha(\text{N})=6.7 \times 10^{-5}$ 10; $\alpha(\text{O})=1.32 \times 10^{-5}$ 20; $\alpha(\text{P})=1.30 \times 10^{-6}$ 23 Mult., δ : From $\alpha(\text{K})\text{exp}=0.006$ 3 in ²⁰¹ Bi ϵ decay.
2459.9	7/2 ⁺ , 9/2 ⁺	1253.8 10 1503.0 10 250.9 10	72 14 100 21 13 3	1185.8 936.1 2208.9	(7/2) ⁻ 7/2 ⁻ (9/2) ⁺	M1+E2	0.6 4	0.57 12	$\alpha(\text{K})=0.44$ 11; $\alpha(\text{L})=0.092$ 5; $\alpha(\text{M})=0.0220$ 8 $\alpha(\text{N})=0.00559$ 22; $\alpha(\text{O})=0.00109$ 6; $\alpha(\text{P})=0.000104$

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	$\gamma(^{201}\text{Pb})$ (continued)			Comments
						Mult. &	δ^a	α^b	
									17
2459.9	7/2 ⁺ , 9/2 ⁺	584.3 10 969.9 10 1469.5 10 1523.3 10 1547.6 ^c 10	10.9 21 19 4 26 6 100 20 22 4	1875.6 1490.3 990.5 936.1 910.5?	9/2 ⁺ 7/2 ⁻ , 9/2 ⁻ 7/2 ⁻ 7/2 ⁻ 5/2 ⁻				Mult.: From $\alpha(\text{K})\text{exp}=0.46$ 12 in ²⁰¹ Bi ε decay.
2474.6	(7/2 ⁺ , 9/2 ⁺)	322.3 10 1059.7 10 1288.9 10	6.8 14 18 4 69 14	2151.9 1415.4 1185.8	7/2 ⁺ 9/2 ⁺ (7/2) ⁻	(E1)		1.65×10 ⁻³ 2	$\alpha(\text{K})=0.001338$ 19; $\alpha(\text{L})=0.0002010$ 28; $\alpha(\text{M})=4.63\times 10^{-5}$ 7 $\alpha(\text{N})=1.171\times 10^{-5}$ 16; $\alpha(\text{O})=2.328\times 10^{-6}$ 33; $\alpha(\text{P})=2.434\times 10^{-7}$ 34; $\alpha(\text{IPF})=4.78\times 10^{-5}$ 8 Mult.: From $\alpha(\text{K})\text{exp}=0.003$ 1 in ²⁰¹ Bi ε decay.
2496.3	21/2 ⁻	1538.4 5 594.1 3	100 5 4.2 4	936.1 1902.2	7/2 ⁻ 21/2 ⁺	(E1)		0.00672 9	$\alpha(\text{K})=0.00557$ 8; $\alpha(\text{L})=0.000882$ 12; $\alpha(\text{M})=0.0002045$ 29 $\alpha(\text{N})=5.17\times 10^{-5}$ 7; $\alpha(\text{O})=1.017\times 10^{-5}$ 14; $\alpha(\text{P})=1.013\times 10^{-6}$ 14 E_γ : From ²⁰⁰ Hg(α ,3n γ). I_γ : From ¹⁹² Os(¹⁴ C,5n γ). Mult.: From $A_2=-0.06$ 5, $A_4=0.08$ 6 (1988Ro08) using $\gamma(\theta)$ in ²⁰⁰ Hg(α ,3n γ); R(DCO)=0.73 21 in ¹⁹² Os(¹⁴ C,5n γ); the adopted spin and parity changes for 594.1 γ .
		600.2 1	100.0 20	1896.1	19/2 ⁺	(E1)		0.00658 9	$\alpha(\text{K})=0.00546$ 8; $\alpha(\text{L})=0.000864$ 12; $\alpha(\text{M})=0.0002002$ 28 $\alpha(\text{N})=5.06\times 10^{-5}$ 7; $\alpha(\text{O})=9.96\times 10^{-6}$ 14; $\alpha(\text{P})=9.93\times 10^{-7}$ 14 E_γ : From ²⁰⁰ Hg(α ,3n γ). I_γ : From ¹⁹² Os(¹⁴ C,5n γ). Mult.: From $A_2=-0.21$ 4, $A_4=-0.02$ 6 (1988Ro08) and $A_2=-0.10$ 3, $A_4=-0.03$ 4 (1981He07) using $\gamma(\theta)$ in ²⁰⁰ Hg(α ,3n γ); R(DCO)=0.80 8 in ¹⁹² Os(¹⁴ C,5n γ); the adopted spin and parity changes for 600.2 γ .
2506.8	9/2 ⁺	387.3 10 855.8 10	3.4 7 57 12	2119.5 1651.0	9/2 ⁺ 7/2 ⁺	M1(+E2)	<2.0	0.020 7	$\alpha(\text{K})=0.016$ 6; $\alpha(\text{L})=0.0028$ 9; $\alpha(\text{M})=6.5\times 10^{-4}$ 19 $\alpha(\text{N})=1.6\times 10^{-4}$ 5; $\alpha(\text{O})=3.3\times 10^{-5}$ 10; $\alpha(\text{P})=3.4\times 10^{-6}$ 12 Mult.: From $\alpha(\text{K})\text{exp}=0.020$ 10 in ²⁰¹ Bi ε decay.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. &	δ^a	α^b	Comments
2506.8	9/2 ⁺	1091.5 10	26 6	1415.4	9/2 ⁺	E1		1.36×10^{-3} 2	$\alpha(\text{K})=0.000957$ 13; $\alpha(\text{L})=0.0001426$ 20; $\alpha(\text{M})=3.28 \times 10^{-5}$ 5 $\alpha(\text{N})=8.30 \times 10^{-6}$ 12; $\alpha(\text{O})=1.652 \times 10^{-6}$ 23; $\alpha(\text{P})=1.740 \times 10^{-7}$ 24; $\alpha(\text{IPF})=0.0002190$ 31 Mult.: From $\alpha(\text{K})\text{exp}=0.0009$ 5 in ^{201}Bi ε decay.
		1320.9 10	31 6	1185.8	(7/2) ⁻				
		1516.4 10	38 8	990.5	7/2 ⁻				
		1570.8 5	100 5	936.1	7/2 ⁻				
2548.9	(11/2 ⁻)	1877.4 10	6.0 12	629.1	13/2 ⁺	(E2)		0.00296 4	$\alpha(\text{K})=0.002359$ 33; $\alpha(\text{L})=0.000400$ 6; $\alpha(\text{M})=9.36 \times 10^{-5}$ 13 $\alpha(\text{N})=2.372 \times 10^{-5}$ 33; $\alpha(\text{O})=4.69 \times 10^{-6}$ 7; $\alpha(\text{P})=4.82 \times 10^{-7}$ 7; $\alpha(\text{IPF})=8.27 \times 10^{-5}$ 12 Mult.: From $\alpha(\text{K})\text{exp}=0.0020$ 10 in ^{201}Bi ε decay. E_γ : Very tentative, since the expected lifetime of the 2548.9-keV level would be very long.
		339.7 10	10.7 21	2208.9	(9/2 ⁺)				
		1558.6 10	100 20	990.5	7/2 ⁻				
2604.0	(21/2)	1638.7 ^c 10	13.4 21	910.5?	5/2 ⁻	D			Mult.: From $A_2=-0.10$ 4, $A_4=-0.02$ 6 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha, 3n\gamma)$.
		1919.4 10	12.5 25	629.1	13/2 ⁺				
2718.5	25/2 ⁻	707.9 [#] 5	100 [#]	1896.1	19/2 ⁺	E2		0.299 4	B(E2)(W.u.)=0.181 9 $\alpha(\text{K})=0.1318$ 19; $\alpha(\text{L})=0.1247$ 18; $\alpha(\text{M})=0.0325$ 5 $\alpha(\text{N})=0.00820$ 12; $\alpha(\text{O})=0.001488$ 21; $\alpha(\text{P})=7.85 \times 10^{-5}$ 11 Mult.: From $A_2=0.22$ 5, $A_4=0.02$ 6 (1988Ro08) using $\gamma(\theta)$ and $\alpha(\text{exp})=0.34$ 3 (1981He07) in $^{200}\text{Hg}(\alpha, 3n\gamma)$; R(DCO)=0.93 10 in $^{192}\text{Os}(^{14}\text{C}, 5n\gamma)$.
2732.8		222.2 [#] 1	100 [#]	2496.3	21/2 ⁻	D,E2			Mult.: From R(DCO)=1.08 25 in $^{192}\text{Os}(^{14}\text{C}, 5n\gamma)$.
		664.1 [‡] 5	48 [‡] 4	2068.5	21/2				
2736.2		830.7 [‡] 5	100 [‡] 11	1902.2	21/2 ⁺	D,E2			Mult.: From R(DCO)=1.13 16 in $^{192}\text{Os}(^{14}\text{C}, 5n\gamma)$.
		667.6 [‡] 5	74 [‡] 5	2068.5	21/2				
2788.8	11/2 ⁻	834.0 [‡] 5	100 [‡] 8	1902.2	21/2 ⁺	D,E2			Mult.: From R(DCO)=1.03 16 in $^{192}\text{Os}(^{14}\text{C}, 5n\gamma)$.
		239.7 10	14 3	2548.9	(11/2 ⁻)				
2788.8	11/2 ⁻	1051.6 10	47 10	1737.3	9/2 ⁺	E1		2.29×10^{-3} 3	$\alpha(\text{K})=0.549$ 26; $\alpha(\text{L})=0.1073$ 22; $\alpha(\text{M})=0.0255$ 5 $\alpha(\text{N})=0.00649$ 13; $\alpha(\text{O})=0.001274$ 26; $\alpha(\text{P})=0.000126$ 4 Mult., δ : From $\alpha(\text{K})\text{exp}=0.55$ 2 in ^{201}Bi ε decay.
		1603.8 10	100 18	1185.8	(7/2) ⁻	(E2)		0.00283 4	$\alpha(\text{K})=0.001909$ 27; $\alpha(\text{L})=0.000290$ 4; $\alpha(\text{M})=6.69 \times 10^{-5}$ 9 $\alpha(\text{N})=1.692 \times 10^{-5}$ 24; $\alpha(\text{O})=3.36 \times 10^{-6}$ 5; $\alpha(\text{P})=3.47 \times 10^{-7}$ 5 Mult.: From $\alpha(\text{K})\text{exp}=0.0011$ 10 in ^{201}Bi ε decay.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. &	δ^a	α^b	Comments
2788.8	11/2 ⁻	1851.9 <i>10</i> 2159.7 <i>10</i>	5.3 <i>10</i> 67 <i>14</i>	936.1 629.1	7/2 ⁻ 13/2 ⁺				
2794.2	(19/2,21/2,23/2) ⁻	297.9 [#] <i>3</i>	100 [#]	2496.3	21/2 ⁻	M1+E2		0.28 <i>16</i>	$\alpha(\text{K})=0.21$ <i>14</i> ; $\alpha(\text{L})=0.050$ <i>11</i> ; $\alpha(\text{M})=0.0121$ <i>21</i> $\alpha(\text{N})=0.0031$ <i>5</i> ; $\alpha(\text{O})=0.00059$ <i>13</i> ; $\alpha(\text{P})=5.3 \times 10^{-5}$ <i>24</i> Mult.: From $A_2=-0.99$ <i>13</i> , $A_4=0.13$ <i>5</i> (1981He07) using $\gamma(\theta)$ in ²⁰⁰ Hg($\alpha,3n\gamma$).
2961.8	(7/2,9/2) ⁻	1472.1 <i>10</i> 1775.7 <i>10</i> 1971.0 <i>10</i> 2025.6 <i>10</i> 2082.0 ^c <i>10</i>	71 <i>14</i> 100 <i>19</i> 31 <i>6</i> 50 <i>10</i> 14 <i>3</i>	1490.3 1185.8 990.5 936.1 879.6	7/2 ⁻ ,9/2 ⁻ (7/2) ⁻ 7/2 ⁻ 7/2 ⁻ (5/2) ⁻				
3050.7	(7/2) ⁺	931.6 <i>10</i>	44 <i>9</i>	2119.5	9/2 ⁺	M1(+E2)	<0.6	0.0195 <i>18</i>	$\alpha(\text{K})=0.0160$ <i>15</i> ; $\alpha(\text{L})=0.00268$ <i>23</i> ; $\alpha(\text{M})=0.00063$ <i>5</i> $\alpha(\text{N})=0.000159$ <i>13</i> ; $\alpha(\text{O})=3.17 \times 10^{-5}$ <i>27</i> ; $\alpha(\text{P})=3.38 \times 10^{-6}$ <i>31</i> Mult., δ : From $\alpha(\text{K})\text{exp}=0.020$ <i>5</i> in ²⁰¹ Bi ϵ decay.
		1313.2 <i>10</i> 1634.9 <i>10</i>	28 <i>5</i> 100 <i>20</i>	1737.3 1415.4	9/2 ⁺ 9/2 ⁺	M1(+E2)	<1.2	0.0045 <i>7</i>	$\alpha(\text{K})=0.0036$ <i>6</i> ; $\alpha(\text{L})=0.00059$ <i>9</i> ; $\alpha(\text{M})=0.000137$ <i>22</i> $\alpha(\text{N})=3.5 \times 10^{-5}$ <i>6</i> ; $\alpha(\text{O})=6.9 \times 10^{-6}$ <i>11</i> ; $\alpha(\text{P})=7.4 \times 10^{-7}$ <i>13</i> ; $\alpha(\text{IPF})=0.000164$ <i>23</i> Mult., δ : From $\alpha(\text{K})\text{exp}=0.0040$ <i>10</i> in ²⁰¹ Bi ϵ decay.
		2035.8 <i>10</i> 2060.9 <i>10</i> 2114.7 <i>10</i> 2170.4 ^c <i>10</i>	4.3 <i>9</i> 9.4 <i>19</i> 5.6 <i>11</i> 8.9 <i>18</i>	1014.2 990.5 936.1 879.6	9/2 ⁻ 7/2 ⁻ 7/2 ⁻ (5/2) ⁻				
3509.5+x	(31/2) ⁻	791.0 [‡] <i>5</i>	100 [‡]	2718.5+x	(29/2) ⁻	M1+E2		0.022 <i>11</i>	$\alpha(\text{K})=0.017$ <i>9</i> ; $\alpha(\text{L})=0.0031$ <i>13</i> ; $\alpha(\text{M})=7.4 \times 10^{-4}$ <i>30</i> $\alpha(\text{N})=1.9 \times 10^{-4}$ <i>8</i> ; $\alpha(\text{O})=3.7 \times 10^{-5}$ <i>16</i> ; $\alpha(\text{P})=3.8 \times 10^{-6}$ <i>18</i> Mult.: From $A_2=-1.06$ <i>3</i> , $A_4=-0.01$ <i>5</i> (1988Ro08) using $\gamma(\theta)$ in ²⁰⁰ Hg($\alpha,3n\gamma$) and R(DCO)=0.61 <i>4</i> in ¹⁹² Os(¹⁴ C, ⁵ n γ).
3545.0+x	(33/2) ⁻	826.6 [‡] <i>5</i>	100 [‡]	2718.5+x	(29/2) ⁻	E2		0.00973 <i>14</i>	$\alpha(\text{K})=0.00759$ <i>11</i> ; $\alpha(\text{L})=0.001621$ <i>23</i> ; $\alpha(\text{M})=0.000390$ <i>5</i> $\alpha(\text{N})=9.88 \times 10^{-5}$ <i>14</i> ; $\alpha(\text{O})=1.916 \times 10^{-5}$ <i>27</i> ; $\alpha(\text{P})=1.771 \times 10^{-6}$ <i>25</i>

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. &	α^b	Comments
3638.0+x	(31/2)	919.4 \ddagger 5	100 \ddagger	2718.5+x	(29/2 ⁻)	(D)		$\alpha(\text{K})=0.00759$ 11; $\alpha(\text{L})=0.001621$ 23; $\alpha(\text{M})=0.000390$ 5 $\alpha(\text{N})=9.88\times 10^{-5}$ 14; $\alpha(\text{O})=1.916\times 10^{-5}$ 27; $\alpha(\text{P})=1.771\times 10^{-6}$ 25 Mult.: From $A_2=0.28$ 5, $A_4=-0.03$ 6 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$ and $\text{R(DCO)}=1.00$ 14 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
3832.3+x	(35/2 ⁻)	287.2 \ddagger 5	100 \ddagger	3545.0+x	(33/2 ⁻)	M1+E2	0.31 17	$\alpha(\text{K})=0.012$ 6; $\alpha(\text{L})=0.0021$ 9; $\alpha(\text{M})=5.0\times 10^{-4}$ 20 $\alpha(\text{N})=1.3\times 10^{-4}$ 5; $\alpha(\text{O})=2.5\times 10^{-5}$ 10; $\alpha(\text{P})=2.6\times 10^{-6}$ 12 Mult.: From $A_2=-0.48$ 4, $A_4=0.31$ 7 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$ and $\text{R(DCO)}=0.87$ 12 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
3932.0+x	(33/2 ⁺)	293.9 \ddagger 5	39.4 \ddagger 25	3638.0+x	(31/2)	D		$\alpha(\text{K})=0.23$ 16; $\alpha(\text{L})=0.056$ 11; $\alpha(\text{M})=0.0136$ 21 $\alpha(\text{N})=0.0035$ 5; $\alpha(\text{O})=0.00067$ 13; $\alpha(\text{P})=5.9\times 10^{-5}$ 27 Mult.: From $A_2=-0.51$ 5, $A_4=0.02$ 8 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$; $\text{R(DCO)}=0.76$ 5 and K/L (1989Su12) in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		387.0 \ddagger 5	10.2 \ddagger 3	3545.0+x	(33/2 ⁻)	(D)		$\alpha(\text{K})=0.0255$ 8; $\alpha(\text{L})=0.00432$ 13; $\alpha(\text{M})=0.00101$ 3; $\alpha(\text{N}+..)=0.00032$ 1 I_γ : Note, that $I_\gamma=76$ 8 in $^{200}\text{Hg}(\alpha,3n\gamma)$. Mult.: From $A_2=-0.28$ 4, $A_4=0.07$ 6 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$ and $\text{R(DCO)}=0.78$ 7 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		422.5 \ddagger 5	100 \ddagger 5	3509.5+x	(31/2 ⁻)	(D)		$\alpha(\text{K})=0.0137$ 5; $\alpha(\text{L})=0.00226$ 7; $\alpha(\text{M})=0.00053$ 2; $\alpha(\text{N}+..)=0.00017$ 1 Mult.: From $\text{R(DCO)}=0.90$ 15 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4059.5		1341.0 \ddagger 5	100 \ddagger	2718.5	25/2 ⁻			$\alpha(\text{K})=0.0113$ 4; $\alpha(\text{L})=0.00185$ 6; $\alpha(\text{M})=0.00043$ 1; $\alpha(\text{N}+..)=0.00014$ 1 Mult.: From $\text{R(DCO)}=0.83$ 14 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$. Mult.: $\text{R(DCO)}=0.89$ 16.
4168.7+y		109.2 \ddagger 5	100 \ddagger	4059.5+y		(M1)	7.27 14	$\alpha(\text{K})=5.93$ 11; $\alpha(\text{L})=1.031$ 20; $\alpha(\text{M})=0.242$ 5 $\alpha(\text{N})=0.0615$ 12; $\alpha(\text{O})=0.01225$ 24; $\alpha(\text{P})=0.001308$ 25 Mult.: From $\text{R(DCO)}=0.71$ 15 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4350.3+y		181.6 \ddagger 5	100 \ddagger	4168.7+y		(M1)	1.716 27	$\alpha(\text{K})=1.401$ 22; $\alpha(\text{L})=0.241$ 4; $\alpha(\text{M})=0.0566$ 9 $\alpha(\text{N})=0.01438$ 23; $\alpha(\text{O})=0.00287$ 5; $\alpha(\text{P})=0.000306$ 5 Mult.: From $\text{R(DCO)}=0.66$ 6 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4505.1+x	(35/2)	573.2 \ddagger 5	100 \ddagger	3932.0+x	(33/2 ⁺)	D		Mult.: From $A_2=-0.87$ 5, $A_4=0.14$ 8 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$ and $\text{R(DCO)}=0.63$ 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4560.2+x	(37/2 ⁺)	628.4 \ddagger 5	43.9 \ddagger 23	3932.0+x	(33/2 ⁺)	E2	0.01736 24	$\alpha(\text{K})=0.01298$ 18; $\alpha(\text{L})=0.00332$ 5; $\alpha(\text{M})=0.000812$ 12 $\alpha(\text{N})=0.0002057$ 29; $\alpha(\text{O})=3.94\times 10^{-5}$ 6; $\alpha(\text{P})=3.36\times 10^{-6}$ 5 I_γ : Note, that $I_\gamma\approx 10$ in $^{200}\text{Hg}(\alpha,3n\gamma)$. Mult.: From $\text{R(DCO)}=1.00$ 9 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		728.0 \ddagger 5	100 \ddagger 3	3832.3+x	(35/2 ⁻)	D		Mult.: From $A_2=-0.13$ 5, $A_4=-0.02$ 7 (1988Ro08) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$ and $\text{R(DCO)}=0.89$ 4 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. &	α^b	Comments
4614.1+y		263.8 [‡] 5	100 [‡]	4350.3+y		(M1)	0.607 9	$\alpha(\text{K})=0.496$ 7; $\alpha(\text{L})=0.0849$ 13; $\alpha(\text{M})=0.01988$ 30 $\alpha(\text{N})=0.00505$ 8; $\alpha(\text{O})=0.001007$ 15; $\alpha(\text{P})=0.0001077$ 16 Mult.: From R(DCO)=0.71 6 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4640.0+x	(41/2 ⁺)	80 [@] 1	100 [@]	4560.2+x	(37/2 ⁺)	E2	16.5 6	B(E2)(W.u.)=3.1 3 $\alpha(\text{L})=12.3$ 4; $\alpha(\text{M})=3.25$ 11 $\alpha(\text{N})=0.819$ 27; $\alpha(\text{O})=0.146$ 5; $\alpha(\text{P})=0.00543$ 17 Mult.: From R(DCO)=1.1 4 and K/L in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4640.0+u		u		4640.0+x	(41/2 ⁺)			
4640.0+v		v		4640.0+x	(41/2 ⁺)			
4640.0+z		z		4640.0+x	(41/2 ⁺)			
4640.1+x	(35/2)	708.1 [#] 2	100 [#]	3932.0+x	(33/2 ⁺)			
4647.6+x	(35/2)	142.5 [‡] 5	20.0 [‡] 18	4505.1+x	(35/2)	(D)		Mult.: From R(DCO)=1.00 35 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$, consistent with $\Delta I=0$ transition.
		715.7 [‡] 5	100 [‡] 15	3932.0+x	(33/2 ⁺)	D		Mult.: From R(DCO)=0.66 12 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4780.5+z		139.6 [‡] 5	100 [‡]	4640.0+z		(M1)	3.61 6	$\alpha(\text{K})=2.95$ 5; $\alpha(\text{L})=0.510$ 9; $\alpha(\text{M})=0.1195$ 21 $\alpha(\text{N})=0.0304$ 5; $\alpha(\text{O})=0.00605$ 11; $\alpha(\text{P})=0.000647$ 11 Mult.: From R(DCO)=0.69 17 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4793.8+v		152.9 [‡] 5	100 [‡]	4640.0+v		(M1)	2.79 5	$\alpha(\text{K})=2.28$ 4; $\alpha(\text{L})=0.393$ 7; $\alpha(\text{M})=0.0921$ 16 $\alpha(\text{N})=0.0234$ 4; $\alpha(\text{O})=0.00467$ 8; $\alpha(\text{P})=0.000499$ 8 Mult.: From R(DCO)=0.55 23 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4817.4+u		176.5 [‡] 5	100 [‡]	4640.0+u		(M1)	1.860 30	$\alpha(\text{K})=1.518$ 24; $\alpha(\text{L})=0.262$ 4; $\alpha(\text{M})=0.0613$ 10 $\alpha(\text{N})=0.01558$ 25; $\alpha(\text{O})=0.00311$ 5; $\alpha(\text{P})=0.000332$ 5 Mult.: From R(DCO)=0.83 19 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4830.2+x	(39/2)	190.4 [‡] 5	<25 [‡]	4640.0+x	(41/2 ⁺)	D		Mult.: From R(DCO)=0.81 18 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		269.9 [‡] 5	100 [‡] 18	4560.2+x	(37/2 ⁺)	D		Mult.: From R(DCO)=0.64 12 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4954.9+y		340.8 [‡] 5	100 [‡]	4614.1+y		(M1)	0.301 4	$\alpha(\text{K})=0.247$ 4; $\alpha(\text{L})=0.0420$ 6; $\alpha(\text{M})=0.00982$ 14 $\alpha(\text{N})=0.00250$ 4; $\alpha(\text{O})=0.000498$ 7; $\alpha(\text{P})=5.33 \times 10^{-5}$ 8 Mult.: From R(DCO)=0.69 5 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4956.3+z		175.8 [‡] 5	100 [‡]	4780.5+z		(M1)	1.881 30	$\alpha(\text{K})=1.535$ 25; $\alpha(\text{L})=0.265$ 4; $\alpha(\text{M})=0.0620$ 10 $\alpha(\text{N})=0.01576$ 25; $\alpha(\text{O})=0.00314$ 5; $\alpha(\text{P})=0.000336$ 5 Mult.: From R(DCO)=0.68 19 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
4992.4+v		198.6 [‡] 5	100 [‡]	4793.8+v		(M1)	1.335 21	$\alpha(\text{K})=1.090$ 17; $\alpha(\text{L})=0.1875$ 29; $\alpha(\text{M})=0.0439$ 7 $\alpha(\text{N})=0.01117$ 18; $\alpha(\text{O})=0.002227$ 35; $\alpha(\text{P})=0.000238$ 4 Mult.: From R(DCO)=0.63 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5000.1+x		360.0 [#] 5	100 [#]	4640.1+x	(35/2)			
5043.1+u		225.7 [‡] 5	100 [‡]	4817.4+u		(M1)	0.935 14	$\alpha(\text{K})=0.763$ 12; $\alpha(\text{L})=0.1310$ 20; $\alpha(\text{M})=0.0307$ 5 $\alpha(\text{N})=0.00780$ 12; $\alpha(\text{O})=0.001555$ 24; $\alpha(\text{P})=0.0001663$ 25 Mult.: From R(DCO)=0.88 17 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	α^b	Comments
5087.1+x	(43/2)	446.9 [#] 5	100 [#]	4640.0+x	(41/2 ⁺)	D		Mult.: From R(DCO)=0.76 5 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5172.4+x		667.3 [#] 3	100 [#]	4505.1+x	(35/2)	D		Mult.: From $A_2=-0.38$ 6, $A_4=-0.16$ 9 (1981He07) using $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$.
5178.6+z		222.3 [‡] 5	100 [‡]	4956.3+z		(M1)	0.975 15	$\alpha(\text{K})=0.796$ 12; $\alpha(\text{L})=0.1367$ 21; $\alpha(\text{M})=0.0320$ 5 $\alpha(\text{N})=0.00814$ 13; $\alpha(\text{O})=0.001623$ 25; $\alpha(\text{P})=0.0001735$ 27 Mult.: From DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5242.4+v		250.0 [‡] 5	100 [‡]	4992.4+v		(M1)	0.704 11	$\alpha(\text{K})=0.575$ 9; $\alpha(\text{L})=0.0985$ 15; $\alpha(\text{M})=0.02308$ 35 $\alpha(\text{N})=0.00587$ 9; $\alpha(\text{O})=0.001170$ 18; $\alpha(\text{P})=0.0001250$ 19 Mult.: From DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5321.3+u		278.2 [‡] 5	100 [‡]	5043.1+u		(M1)	0.524 8	$\alpha(\text{K})=0.429$ 6; $\alpha(\text{L})=0.0733$ 11; $\alpha(\text{M})=0.01716$ 26 $\alpha(\text{N})=0.00436$ 6; $\alpha(\text{O})=0.000870$ 13; $\alpha(\text{P})=9.30\times 10^{-5}$ 14 Mult.: From DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5358.7+y		404.0 [‡] 5	100 [‡] 10	4954.9+y		(M1)	0.1905 27	$\alpha(\text{K})=0.1560$ 22; $\alpha(\text{L})=0.0264$ 4; $\alpha(\text{M})=0.00618$ 9 $\alpha(\text{N})=0.001572$ 23; $\alpha(\text{O})=0.000313$ 5; $\alpha(\text{P})=3.35\times 10^{-5}$ 5 Mult.: From DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		744.6 [‡] 5	18 [‡] 6	4614.1+y		E2	0.01206 17	$\alpha(\text{K})=0.00929$ 13; $\alpha(\text{L})=0.002109$ 30; $\alpha(\text{M})=0.000510$ 7 $\alpha(\text{N})=0.0001293$ 18; $\alpha(\text{O})=2.496\times 10^{-5}$ 35; $\alpha(\text{P})=2.244\times 10^{-6}$ 32 Mult.: From DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5389.1+x	(45/2)	302.0 [‡] 5	100 [‡]	5087.1+x	(43/2)	D		Mult.: From DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5425.5+x		785.4 [#] 5	100 [#]	4640.1+x	(35/2)			
5455.0+z		276.4 [‡] 5	100 [‡]	5178.6+z		(M1)	0.534 8	$\alpha(\text{K})=0.436$ 6; $\alpha(\text{L})=0.0746$ 11; $\alpha(\text{M})=0.01747$ 26 $\alpha(\text{N})=0.00444$ 7; $\alpha(\text{O})=0.000885$ 13; $\alpha(\text{P})=9.47\times 10^{-5}$ 14 Mult.: From R(DCO)=0.66 9 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5554.4+v		312.0 [‡] 5	100 [‡]	5242.4+v		(M1)	0.383 6	$\alpha(\text{K})=0.313$ 5; $\alpha(\text{L})=0.0534$ 8; $\alpha(\text{M})=0.01251$ 18 $\alpha(\text{N})=0.00318$ 5; $\alpha(\text{O})=0.000634$ 9; $\alpha(\text{P})=6.78\times 10^{-5}$ 10 Mult.: From R(DCO)=0.58 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5581.9+x	(39/2 ⁻)	1749.5 [‡] 5	100 [‡]	3832.3+x	(35/2 ⁻)	E2	2.48×10^{-3} 4	$\alpha(\text{K})=0.001916$ 27; $\alpha(\text{L})=0.000317$ 4; $\alpha(\text{M})=7.40\times 10^{-5}$ 10 $\alpha(\text{N})=1.877\times 10^{-5}$ 26; $\alpha(\text{O})=3.72\times 10^{-6}$ 5; $\alpha(\text{P})=3.86\times 10^{-7}$ 5; $\alpha(\text{IPF})=0.0001548$ 22 Mult.: From R(DCO)=0.93 19 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5648.0+u		326.7 [‡] 5	100 [‡]	5321.3+u		(M1)	0.338 5	$\alpha(\text{K})=0.276$ 4; $\alpha(\text{L})=0.0471$ 7; $\alpha(\text{M})=0.01103$ 16 $\alpha(\text{N})=0.00280$ 4; $\alpha(\text{O})=0.000559$ 8; $\alpha(\text{P})=5.98\times 10^{-5}$ 9 Mult.: From R(DCO)=0.79 16 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5787.3+z		332.3 [‡] 5	100 [‡]	5455.0+z		(M1)	0.323 5	$\alpha(\text{K})=0.264$ 4; $\alpha(\text{L})=0.0450$ 7; $\alpha(\text{M})=0.01053$ 15 $\alpha(\text{N})=0.00267$ 4; $\alpha(\text{O})=0.000533$ 8; $\alpha(\text{P})=5.71\times 10^{-5}$ 8 Mult.: From R(DCO)=0.69 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	α^b	Comments
5817.7+y		459.0 ‡ 5	100 ‡ 11	5358.7+y		(M1)	0.1355 19	$\alpha(\text{K})=0.1110$ 16; $\alpha(\text{L})=0.01875$ 27; $\alpha(\text{M})=0.00438$ 6 $\alpha(\text{N})=0.001114$ 16; $\alpha(\text{O})=0.0002221$ 32; $\alpha(\text{P})=2.379\times 10^{-5}$ 34 Mult.: From R(DCO)=0.70 6 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		862.8 ‡ 5	22 ‡ 9	4954.9+y		E2	0.00892 13	$\alpha(\text{K})=0.00700$ 10; $\alpha(\text{L})=0.001460$ 21; $\alpha(\text{M})=0.000350$ 5 $\alpha(\text{N})=8.88\times 10^{-5}$ 12; $\alpha(\text{O})=1.725\times 10^{-5}$ 24; $\alpha(\text{P})=1.611\times 10^{-6}$ 23 Mult.: From R(DCO)=0.92 34 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5830.0+x	(45/2 ⁺)	1190.1 ‡ 5	100 ‡	4640.0+x	(41/2 ⁺)	E2	0.00477 7	$\alpha(\text{K})=0.00385$ 5; $\alpha(\text{L})=0.000701$ 10; $\alpha(\text{M})=0.0001657$ 23 $\alpha(\text{N})=4.20\times 10^{-5}$ 6; $\alpha(\text{O})=8.25\times 10^{-6}$ 12; $\alpha(\text{P})=8.20\times 10^{-7}$ 11; $\alpha(\text{IPF})=3.08\times 10^{-6}$ 6 Mult.: From R(DCO)=1.07 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5835.7+x	(41/2)	253.7 ‡ 5	47 ‡ 5	5581.9+x	(39/2 ⁻)	(D)		Mult.: From R(DCO)=0.78 28 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		1005.5 ‡ 5	100 ‡ 5	4830.2+x	(39/2)	(D)		Mult.: From R(DCO)=0.76 20 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5891.3+x	(43/2)	1251.3 ‡ 5	100 ‡	4640.0+x	(41/2 ⁺)	D		Mult.: From R(DCO)=0.74 17 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5928.8+v		374.4 ‡ 5	100 ‡	5554.4+v		(M1)	0.2338 34	$\alpha(\text{K})=0.1913$ 28; $\alpha(\text{L})=0.0325$ 5; $\alpha(\text{M})=0.00760$ 11 $\alpha(\text{N})=0.001932$ 28; $\alpha(\text{O})=0.000385$ 6; $\alpha(\text{P})=4.12\times 10^{-5}$ 6 Mult.: From R(DCO)=0.68 14 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
5989.4+x	(45/2)	98.2 ‡ 5	3.4 ‡ 4	5891.3+x	(43/2)	D		Mult.: From R(DCO)=0.74 21 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		153.7 ‡ 5	8.4 ‡ 4	5835.7+x	(41/2)	E2	1.114 21	$\alpha(\text{K})=0.300$ 5; $\alpha(\text{L})=0.607$ 12; $\alpha(\text{M})=0.1597$ 32 $\alpha(\text{N})=0.0403$ 8; $\alpha(\text{O})=0.00723$ 15; $\alpha(\text{P})=0.000325$ 6 Mult.: From R(DCO)=1.02 15 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		159.4 ‡ 5	9.6 ‡ 4	5830.0+x	(45/2 ⁺)	(D)		Mult.: From R(DCO)=1.06 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		600.2 ‡ 5	12.1 ‡ 17	5389.1+x	(45/2)	(D)		Mult.: From R(DCO)=0.98 16 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		902.2 ‡ 5	100.0 ‡ 8	5087.1+x	(43/2)	D		Mult.: From R(DCO)=0.55 5 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6028.4+u		380.4 ‡ 5	100 ‡	5648.0+u		(M1)	0.2240 32	$\alpha(\text{K})=0.1833$ 26; $\alpha(\text{L})=0.0311$ 4; $\alpha(\text{M})=0.00728$ 11 $\alpha(\text{N})=0.001850$ 27; $\alpha(\text{O})=0.000369$ 5; $\alpha(\text{P})=3.95\times 10^{-5}$ 6 Mult.: From R(DCO)=0.89 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6145.1+x	(35/2)	1640.0 ‡ 5	100 ‡	4505.1+x	(35/2)	(D)		Mult.: From R(DCO)=1.13 26 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6175.4+z		388.1 ‡ 5	100 ‡	5787.3+z		(M1)	0.2122 31	$\alpha(\text{K})=0.1737$ 25; $\alpha(\text{L})=0.0295$ 4; $\alpha(\text{M})=0.00690$ 10 $\alpha(\text{N})=0.001752$ 25; $\alpha(\text{O})=0.000349$ 5; $\alpha(\text{P})=3.74\times 10^{-5}$ 5 Mult.: From R(DCO)=0.59 14 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6246.8+x	(37/2)	101.7 ‡ 5	100 ‡	6145.1+x	(35/2)	(M1)	8.91 18	$\alpha(\text{K})=7.26$ 14; $\alpha(\text{L})=1.266$ 25; $\alpha(\text{M})=0.297$ 6 $\alpha(\text{N})=0.0755$ 15; $\alpha(\text{O})=0.01505$ 30; $\alpha(\text{P})=0.001607$ 32 Mult.: From R(DCO)=0.55 14 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6323.4+y		505.7 ‡ 5	100 ‡ 33	5817.7+y		(M1)	0.1048 15	$\alpha(\text{K})=0.0859$ 12; $\alpha(\text{L})=0.01446$ 21; $\alpha(\text{M})=0.00338$ 5 $\alpha(\text{N})=0.000859$ 12; $\alpha(\text{O})=0.0001713$ 24; $\alpha(\text{P})=1.836\times 10^{-5}$ 26 Mult.: From R(DCO)=0.67 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	α^b	Comments
6323.4+y		964.7 \ddagger 5	67 \ddagger 20	5358.7+y		(E2)	0.00714 10	$\alpha(\text{K})=0.00567$ 8; $\alpha(\text{L})=0.001121$ 16; $\alpha(\text{M})=0.000267$ 4 $\alpha(\text{N})=6.78\times 10^{-5}$ 10; $\alpha(\text{O})=1.323\times 10^{-5}$ 19; $\alpha(\text{P})=1.266\times 10^{-6}$ 18 Mult.: From R(DCO)=0.77 18 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6323.9+x	(45/2 ⁺)	1683.8 \ddagger 5	100 \ddagger	4640.0+x	(41/2 ⁺)	E2	0.00263 4	$\alpha(\text{K})=0.002053$ 29; $\alpha(\text{L})=0.000342$ 5; $\alpha(\text{M})=8.00\times 10^{-5}$ 11 $\alpha(\text{N})=2.027\times 10^{-5}$ 28; $\alpha(\text{O})=4.01\times 10^{-6}$ 6; $\alpha(\text{P})=4.15\times 10^{-7}$ 6; $\alpha(\text{IPF})=0.0001288$ 18 Mult.: From R(DCO)=1.01 17 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6336.1+y		518.4 \ddagger 5	100 \ddagger	5817.7+y		D		Mult.: R(DCO)=0.69 10 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6364.8+v		436.0 \ddagger 5	100 \ddagger	5928.8+v		(M1)	0.1554 22	$\alpha(\text{K})=0.1273$ 18; $\alpha(\text{L})=0.02152$ 31; $\alpha(\text{M})=0.00503$ 7 $\alpha(\text{N})=0.001279$ 18; $\alpha(\text{O})=0.000255$ 4; $\alpha(\text{P})=2.73\times 10^{-5}$ 4 Mult.: From R(DCO)=0.77 21 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6376.4+x	(39/2)	129.7 \ddagger 5	100 \ddagger	6246.8+x	(37/2)	(M1)	4.45 8	$\alpha(\text{K})=3.63$ 6; $\alpha(\text{L})=0.629$ 11; $\alpha(\text{M})=0.1475$ 26 $\alpha(\text{N})=0.0375$ 7; $\alpha(\text{O})=0.00747$ 13; $\alpha(\text{P})=0.000798$ 14 Mult.: From R(DCO)=0.57 8 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6458.1+u		429.7 \ddagger 5	100 \ddagger	6028.4+u		(M1)	0.1615 23	$\alpha(\text{K})=0.1323$ 19; $\alpha(\text{L})=0.02238$ 32; $\alpha(\text{M})=0.00523$ 8 $\alpha(\text{N})=0.001330$ 19; $\alpha(\text{O})=0.000265$ 4; $\alpha(\text{P})=2.84\times 10^{-5}$ 4 Mult.: From R(DCO)=0.79 30 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6460.1+x	(47/2)	136.2 \ddagger 5	8.5 \ddagger 14	6323.9+x	(45/2 ⁺)	D		Mult.: From R(DCO)=0.89 28 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
		470.7 \ddagger 5	100 \ddagger 6	5989.4+x	(45/2)	(D)		Mult.: From R(DCO)=0.94 12 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6548.0+x	(41/2)	171.6 \ddagger 5	100 \ddagger	6376.4+x	(39/2)	(M1)	2.013 33	$\alpha(\text{K})=1.643$ 27; $\alpha(\text{L})=0.283$ 5; $\alpha(\text{M})=0.0664$ 11 $\alpha(\text{N})=0.01688$ 27; $\alpha(\text{O})=0.00336$ 5; $\alpha(\text{P})=0.000359$ 6 Mult.: From R(DCO)=0.58 6 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6616.7+z		441.3 \ddagger 5	100 \ddagger 27	6175.4+z		(M1)	0.1505 22	$\alpha(\text{K})=0.1232$ 18; $\alpha(\text{L})=0.02084$ 30; $\alpha(\text{M})=0.00487$ 7 $\alpha(\text{N})=0.001238$ 18; $\alpha(\text{O})=0.0002469$ 35; $\alpha(\text{P})=2.64\times 10^{-5}$ 4 Mult.: From R(DCO)=0.64 16 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
		829.4 \ddagger 5	35 \ddagger 15	5787.3+z		E2	0.00966 14	$\alpha(\text{K})=0.00755$ 11; $\alpha(\text{L})=0.001608$ 23; $\alpha(\text{M})=0.000387$ 5 $\alpha(\text{N})=9.80\times 10^{-5}$ 14; $\alpha(\text{O})=1.900\times 10^{-5}$ 27; $\alpha(\text{P})=1.758\times 10^{-6}$ 25 Mult.: From R(DCO)=1.2 7 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6706.7+x	(49/2)	717.3 \ddagger 5	100 \ddagger	5989.4+x	(45/2)	E2	0.01305 18	$\alpha(\text{K})=0.00999$ 14; $\alpha(\text{L})=0.002324$ 33; $\alpha(\text{M})=0.000564$ 8 $\alpha(\text{N})=0.0001428$ 20; $\alpha(\text{O})=2.75\times 10^{-5}$ 4; $\alpha(\text{P})=2.446\times 10^{-6}$ 34 Mult.: From R(DCO)=1.05 6 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6768.5+x	(43/2)	220.5 \ddagger 5	100 \ddagger	6548.0+x	(41/2)	(M1)	0.997 15	$\alpha(\text{K})=0.814$ 13; $\alpha(\text{L})=0.1399$ 22; $\alpha(\text{M})=0.0328$ 5 $\alpha(\text{N})=0.00833$ 13; $\alpha(\text{O})=0.001660$ 26; $\alpha(\text{P})=0.0001775$ 27 Mult.: From R(DCO)=0.58 5 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.
6858.2+v		493.4 \ddagger 5	100 \ddagger	6364.8+v		(M1)	0.1118 16	$\alpha(\text{K})=0.0917$ 13; $\alpha(\text{L})=0.01545$ 22; $\alpha(\text{M})=0.00361$ 5 $\alpha(\text{N})=0.000917$ 13; $\alpha(\text{O})=0.0001830$ 26; $\alpha(\text{P})=1.960\times 10^{-5}$ 28 Mult.: From R(DCO)=0.76 20 in $^{192}\text{Os}(^{14}\text{C},5\text{n}\gamma)$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	α^b	Comments
6881.9+y		558.5 \ddagger 5	100 \ddagger	6323.4+y		(M1)	0.0806 11	$\alpha(\text{K})=0.0661$ 9; $\alpha(\text{L})=0.01110$ 16; $\alpha(\text{M})=0.00259$ 4 $\alpha(\text{N})=0.000659$ 9; $\alpha(\text{O})=0.0001315$ 19; $\alpha(\text{P})=1.409\times 10^{-5}$ 20 Mult.: From R(DCO)=0.65 18 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6910.1+x	(47/2)	586.1 \ddagger 5	100 \ddagger	6323.9+x	(45/2 ⁺)	D		Mult.: From R(DCO)=0.76 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
6941.2+u		483.1 \ddagger 5	100 \ddagger	6458.1+u		(M1)	0.1183 17	$\alpha(\text{K})=0.0969$ 14; $\alpha(\text{L})=0.01634$ 23; $\alpha(\text{M})=0.00382$ 5 $\alpha(\text{N})=0.000971$ 14; $\alpha(\text{O})=0.0001936$ 28; $\alpha(\text{P})=2.074\times 10^{-5}$ 30 Mult.: From R(DCO)=0.73 26 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7008.4+x	(49/2)	548.3 \ddagger 5	100 \ddagger	6460.1+x	(47/2)	D		Mult.: From R(DCO)=0.67 9 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7044.3+x	(45/2)	275.9 \ddagger 5	100 \ddagger	6768.5+x	(43/2)	(M1)	0.536 8	$\alpha(\text{K})=0.438$ 7; $\alpha(\text{L})=0.0750$ 11; $\alpha(\text{M})=0.01756$ 26 $\alpha(\text{N})=0.00446$ 7; $\alpha(\text{O})=0.000890$ 13; $\alpha(\text{P})=9.51\times 10^{-5}$ 14 Mult.: From R(DCO)=0.56 3 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7108.4+z		491.7 \ddagger 5	100 \ddagger 22	6616.7+z		(M1)	0.1129 16	$\alpha(\text{K})=0.0925$ 13; $\alpha(\text{L})=0.01559$ 22; $\alpha(\text{M})=0.00364$ 5 $\alpha(\text{N})=0.000926$ 13; $\alpha(\text{O})=0.0001847$ 26; $\alpha(\text{P})=1.979\times 10^{-5}$ 28 Mult.: From R(DCO)=0.64 17 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		933.1 \ddagger 5	44 \ddagger 17	6175.4+z		E2	0.00763 11	$\alpha(\text{K})=0.00604$ 8; $\alpha(\text{L})=0.001212$ 17; $\alpha(\text{M})=0.000289$ 4 $\alpha(\text{N})=7.34\times 10^{-5}$ 10; $\alpha(\text{O})=1.430\times 10^{-5}$ 20; $\alpha(\text{P})=1.360\times 10^{-6}$ 19 Mult.: From R(DCO)=0.8 3 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7142.3+x	(49/2 ⁺)	232.2 \ddagger 5	10 \ddagger 5	6910.1+x	(47/2)	D		Mult.: From R(DCO)=0.81 25 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		682.3 \ddagger 5	17.2 \ddagger 17	6460.1+x	(47/2)	D		Mult.: From R(DCO)=0.73 18 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		1312.3 \ddagger 5	100 \ddagger 7	5830.0+x	(45/2 ⁺)	E2	0.00398 6	$\alpha(\text{K})=0.00322$ 5; $\alpha(\text{L})=0.000569$ 8; $\alpha(\text{M})=0.0001340$ 19 $\alpha(\text{N})=3.40\times 10^{-5}$ 5; $\alpha(\text{O})=6.69\times 10^{-6}$ 9; $\alpha(\text{P})=6.74\times 10^{-7}$ 9; $\alpha(\text{IPF})=1.758\times 10^{-5}$ 26 Mult.: From R(DCO)=0.97 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7339.5+x	(51/2)	197.2 \ddagger 5	100.0 \ddagger 24	7142.3+x	(49/2 ⁺)	D		Mult.: From R(DCO)=0.70 11 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		331.1 \ddagger 5	42 \ddagger 5	7008.4+x	(49/2)	D		Mult.: From R(DCO)=0.77 18 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7377.5+x	(47/2)	333.1 \ddagger 5	100 \ddagger 20	7044.3+x	(45/2)	(M1)	0.321 5	$\alpha(\text{K})=0.262$ 4; $\alpha(\text{L})=0.0447$ 7; $\alpha(\text{M})=0.01046$ 15 $\alpha(\text{N})=0.00266$ 4; $\alpha(\text{O})=0.000530$ 8; $\alpha(\text{P})=5.67\times 10^{-5}$ 8 Mult.: From R(DCO)=0.57 5 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		1388.1 \ddagger 5	5.6 \ddagger 3	5989.4+x	(45/2)	D		Mult.: From R(DCO)=0.72 29 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7378.9+x	(47/2)	334.6 \ddagger 5	100 \ddagger 24	7044.3+x	(45/2)	(M1)	0.317 5	$\alpha(\text{K})=0.259$ 4; $\alpha(\text{L})=0.0441$ 6; $\alpha(\text{M})=0.01033$ 15 $\alpha(\text{N})=0.00262$ 4; $\alpha(\text{O})=0.000523$ 8; $\alpha(\text{P})=5.60\times 10^{-5}$ 8 Mult.: From R(DCO)=0.60 5 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		1389.4 \ddagger 5	4.4 \ddagger 3	5989.4+x	(45/2)	D		Mult.: From R(DCO)=0.64 37 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7471.4+u		530.2 \ddagger 5	100 \ddagger	6941.2+u		(M1)	0.0925 13	$\alpha(\text{K})=0.0758$ 11; $\alpha(\text{L})=0.01275$ 18; $\alpha(\text{M})=0.00298$ 4 $\alpha(\text{N})=0.000757$ 11; $\alpha(\text{O})=0.0001510$ 21; $\alpha(\text{P})=1.618\times 10^{-5}$ 23 Mult.: From R(DCO)=0.85 20 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult.&	α^b	Comments
7648.2+z		539.8 ‡ 5	92 ‡ 25	7108.4+z		(M1)	0.0882 13	$\alpha(\text{K})=0.0723$ 10; $\alpha(\text{L})=0.01215$ 17; $\alpha(\text{M})=0.00284$ 4 $\alpha(\text{N})=0.000722$ 10; $\alpha(\text{O})=0.0001439$ 20; $\alpha(\text{P})=1.543\times 10^{-5}$ 22 Mult.: From R(DCO)=0.66 26 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		1031.4 ‡ 5	100 ‡ 33	6616.7+z		E2	0.00627 9	$\alpha(\text{K})=0.00501$ 7; $\alpha(\text{L})=0.000962$ 14; $\alpha(\text{M})=0.0002287$ 32 $\alpha(\text{N})=5.80\times 10^{-5}$ 8; $\alpha(\text{O})=1.134\times 10^{-5}$ 16; $\alpha(\text{P})=1.100\times 10^{-6}$ 15 Mult.: From R(DCO)=1.2 5 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7759.5+x	(49/2)	380.6 ‡ 5	84 ‡ 8	7378.9+x (47/2)		D		Mult.: From R(DCO)=0.84 29 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		382.0 ‡ 5	100 ‡ 3	7377.5+x (47/2)		D		Mult.: From R(DCO)=0.66 15 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
7772.2+x	(49/2)	393.3 ‡ 5	89 ‡ 12	7378.9+x (47/2)		(M1)	0.2048 30	$\alpha(\text{K})=0.1676$ 24; $\alpha(\text{L})=0.0284$ 4; $\alpha(\text{M})=0.00665$ 10 $\alpha(\text{N})=0.001690$ 24; $\alpha(\text{O})=0.000337$ 5; $\alpha(\text{P})=3.61\times 10^{-5}$ 5 Mult.: From R(DCO)=0.64 10 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		394.8 ‡ 5	100 ‡ 23	7377.5+x (47/2)		(M1)	0.2027 29	$\alpha(\text{K})=0.1659$ 24; $\alpha(\text{L})=0.0281$ 4; $\alpha(\text{M})=0.00658$ 9 $\alpha(\text{N})=0.001673$ 24; $\alpha(\text{O})=0.000334$ 5; $\alpha(\text{P})=3.57\times 10^{-5}$ 5 Mult.: From R(DCO)=0.60 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
8003.4+x	(53/2)	663.9 ‡ 5	100 ‡	7339.5+x (51/2)		D		Mult.: From R(DCO)=0.80 12 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$. Note, that the authors give R(DCO)=0.8 12, which is probably a typo.
8018.7+x	(51/2)	259.2 ‡ 5	9.2 ‡ 5	7759.5+x (49/2)		D		Mult.: From R(DCO)=0.63 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
		1312.0 ‡ 5	100 ‡ 6	6706.7+x (49/2)		D		Mult.: From R(DCO)=0.73 13 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
8198.0+x	(53/2)	179.3 ‡ 5	100 ‡	8018.7+x (51/2)		D		Mult.: From R(DCO)=0.70 6 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
8214.7+x	(51/2)	442.5 ‡ 5	100 ‡	7772.2+x (49/2)		(M1)	0.1494 21	$\alpha(\text{K})=0.1224$ 18; $\alpha(\text{L})=0.02068$ 30; $\alpha(\text{M})=0.00484$ 7 $\alpha(\text{N})=0.001229$ 18; $\alpha(\text{O})=0.0002451$ 35; $\alpha(\text{P})=2.62\times 10^{-5}$ 4 Mult.: From R(DCO)=0.68 16 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
8226.1+x	(51/2)	453.9 ‡ 5	100 ‡	7772.2+x (49/2)		(M1)	0.1396 20	$\alpha(\text{K})=0.1143$ 16; $\alpha(\text{L})=0.01932$ 28; $\alpha(\text{M})=0.00452$ 6 $\alpha(\text{N})=0.001148$ 16; $\alpha(\text{O})=0.0002289$ 33; $\alpha(\text{P})=2.452\times 10^{-5}$ 35 Mult.: From R(DCO)=0.62 14 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.
8653.8+x	(55/2)	455.8 ‡ 5	100 ‡	8198.0+x (53/2)		(M1)	0.1380 20	$\alpha(\text{K})=0.1131$ 16; $\alpha(\text{L})=0.01910$ 27; $\alpha(\text{M})=0.00447$ 6 $\alpha(\text{N})=0.001135$ 16; $\alpha(\text{O})=0.0002263$ 32; $\alpha(\text{P})=2.424\times 10^{-5}$ 35 Mult.: From R(DCO)=0.71 7 in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

† From 1978Ri04 in ^{201}Bi ϵ decay, unless otherwise specified.

‡ From $^{192}\text{Os}(^{14}\text{C},5n\gamma)$.

From $^{200}\text{Hg}(\alpha,3n\gamma)$.

@ From $^{197}\text{Au}(^{207}\text{Pb},X\gamma)$.

& From $\alpha(\text{K})\text{exp}$, $\alpha(\text{L})\text{exp}$ and subshell ratios in ^{201}Bi ϵ decay (1978Ri04), $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,3n\gamma)$ and DCO in $^{192}\text{Os}(^{14}\text{C},5n\gamma)$, coupled together with the observed multiple decay branches and band structures. For rotational band transitions whose multipolarity is determined from $\gamma(\theta)$ or DCO, Mult.=(M1), instead of D, is

Adopted Levels, Gammas (continued)

$\gamma(^{201}\text{Pb})$ (continued)

assigned in this evaluation.

^a From $\alpha(\text{K})_{\text{exp}}$, $\alpha(\text{L})_{\text{exp}}$ and subshell ratios in ^{201}Bi ε decay ([1978Ri04](#)) and the briccmixing program, unless otherwise stated.

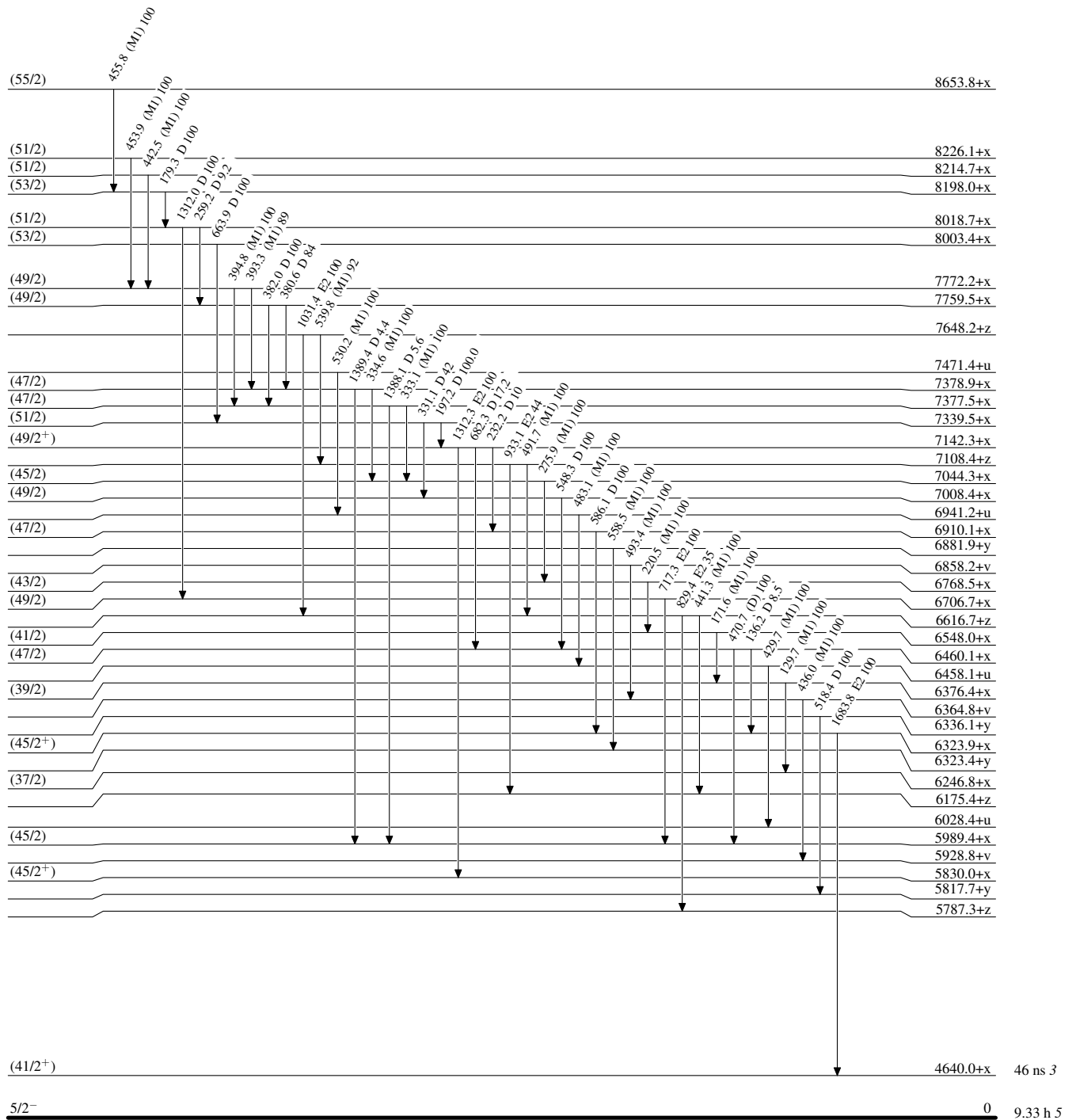
^b [Additional information 6](#).

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

Adopted Levels, Gammas

Level Scheme

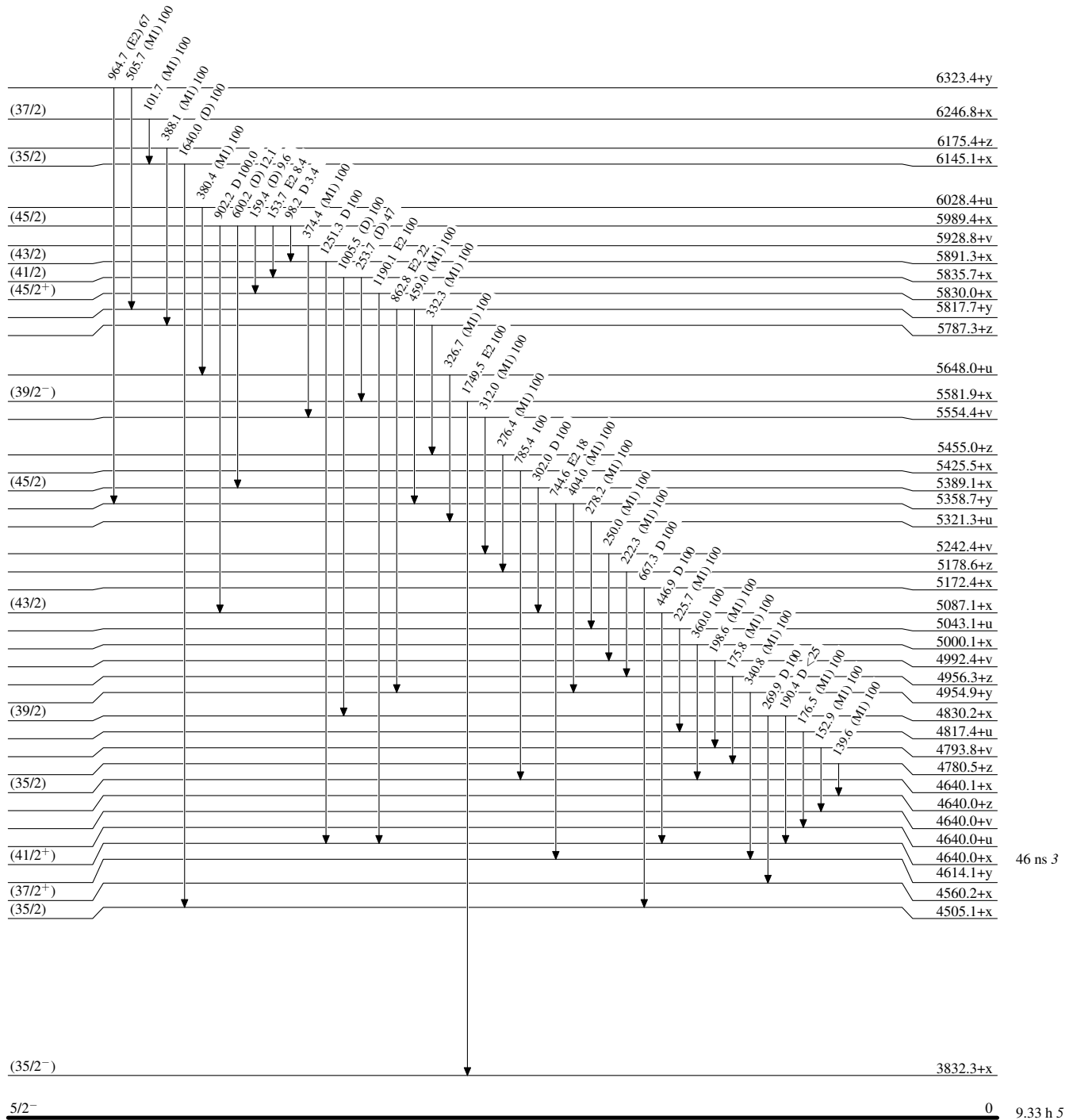
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Level Scheme (continued)

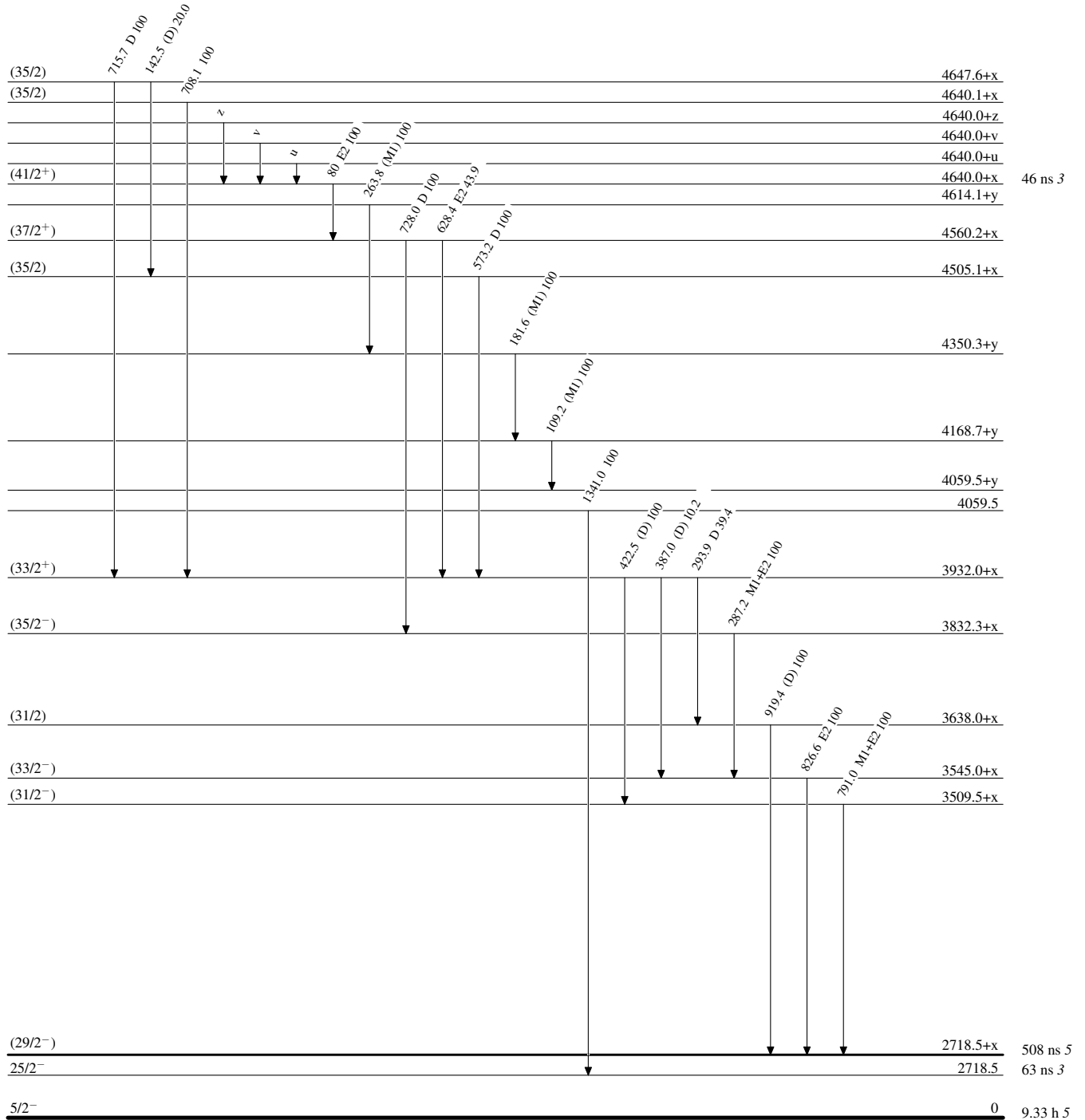
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



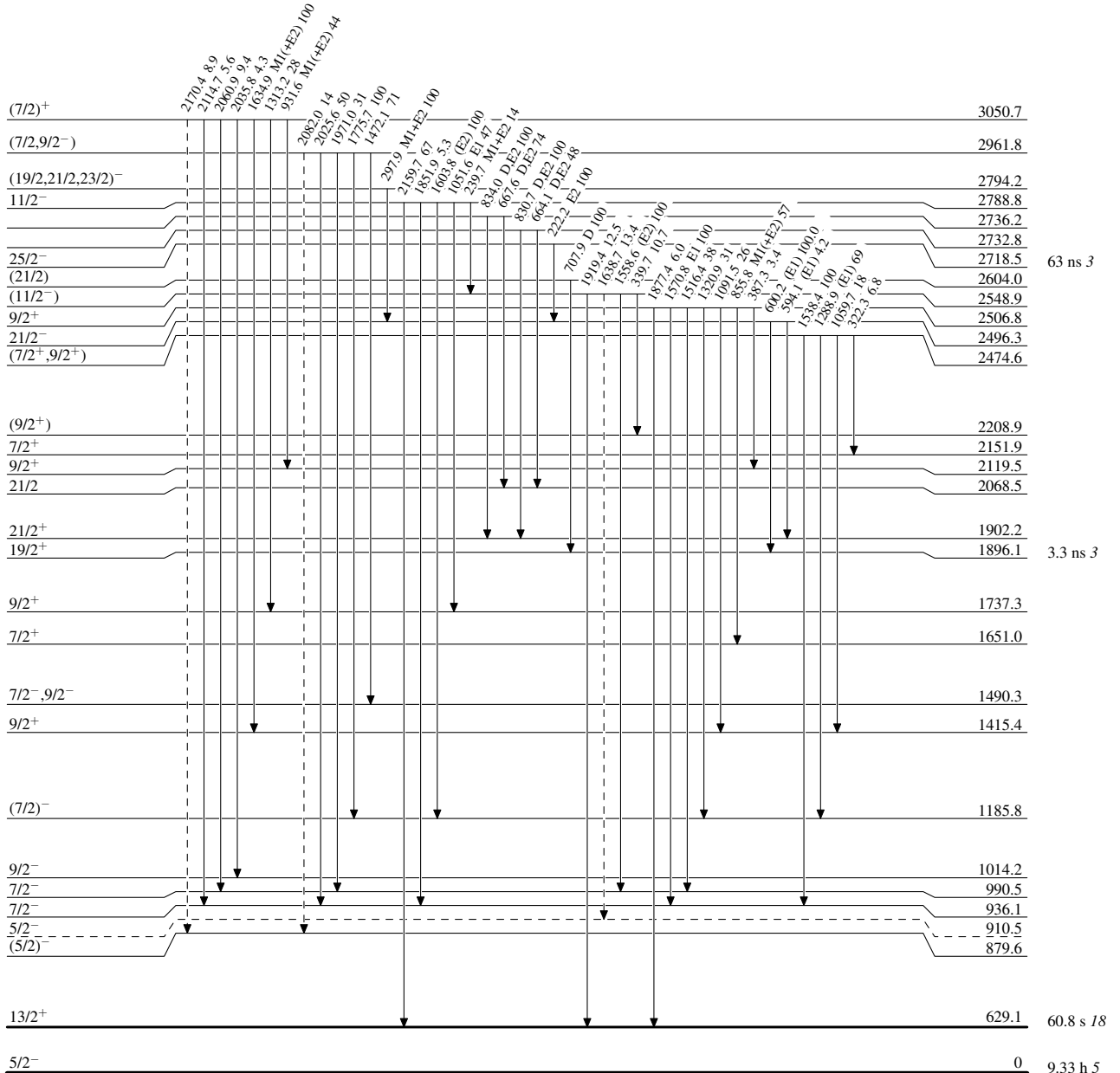
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



²⁰¹Pb₈₂⁻²⁴

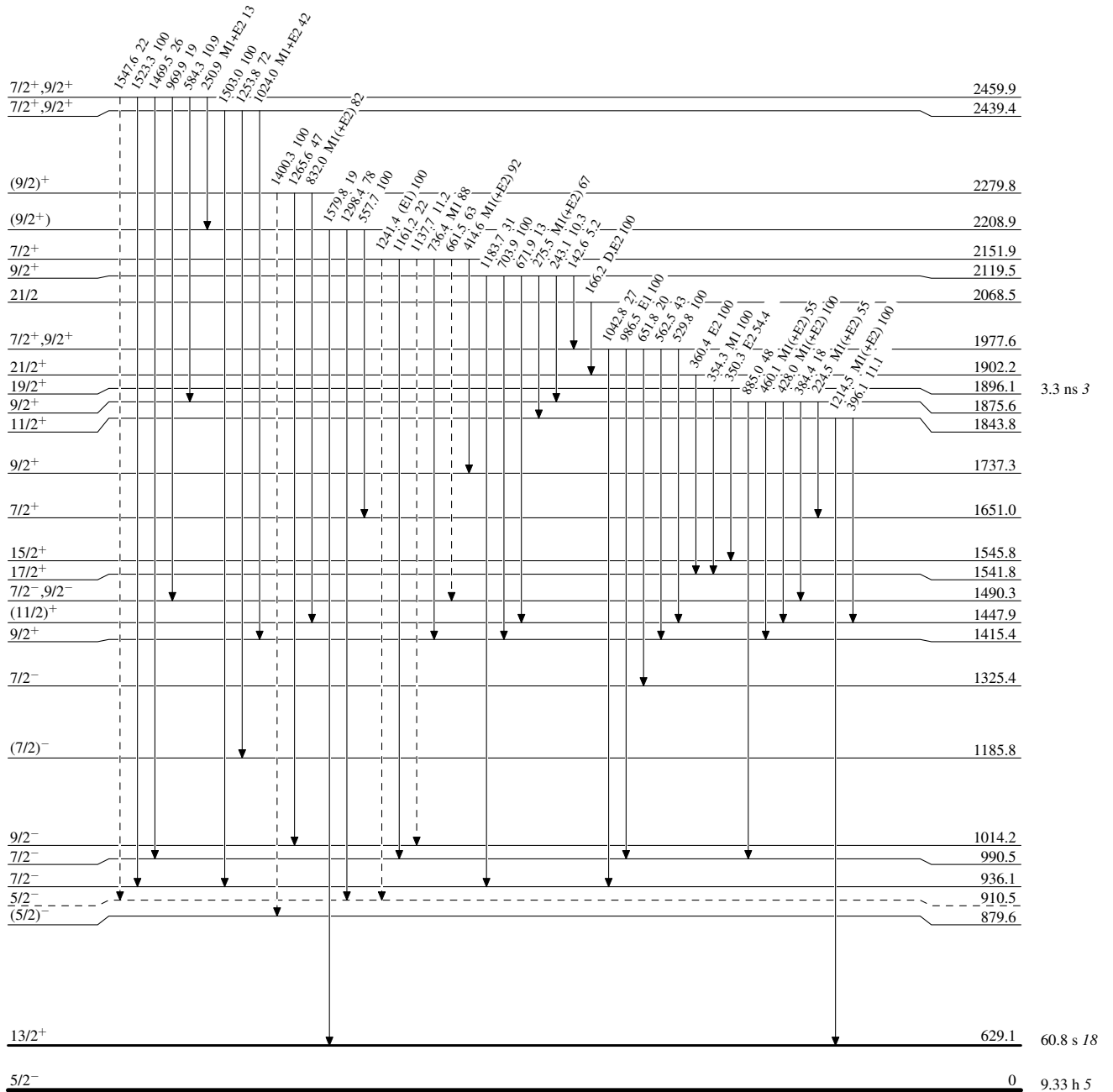
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



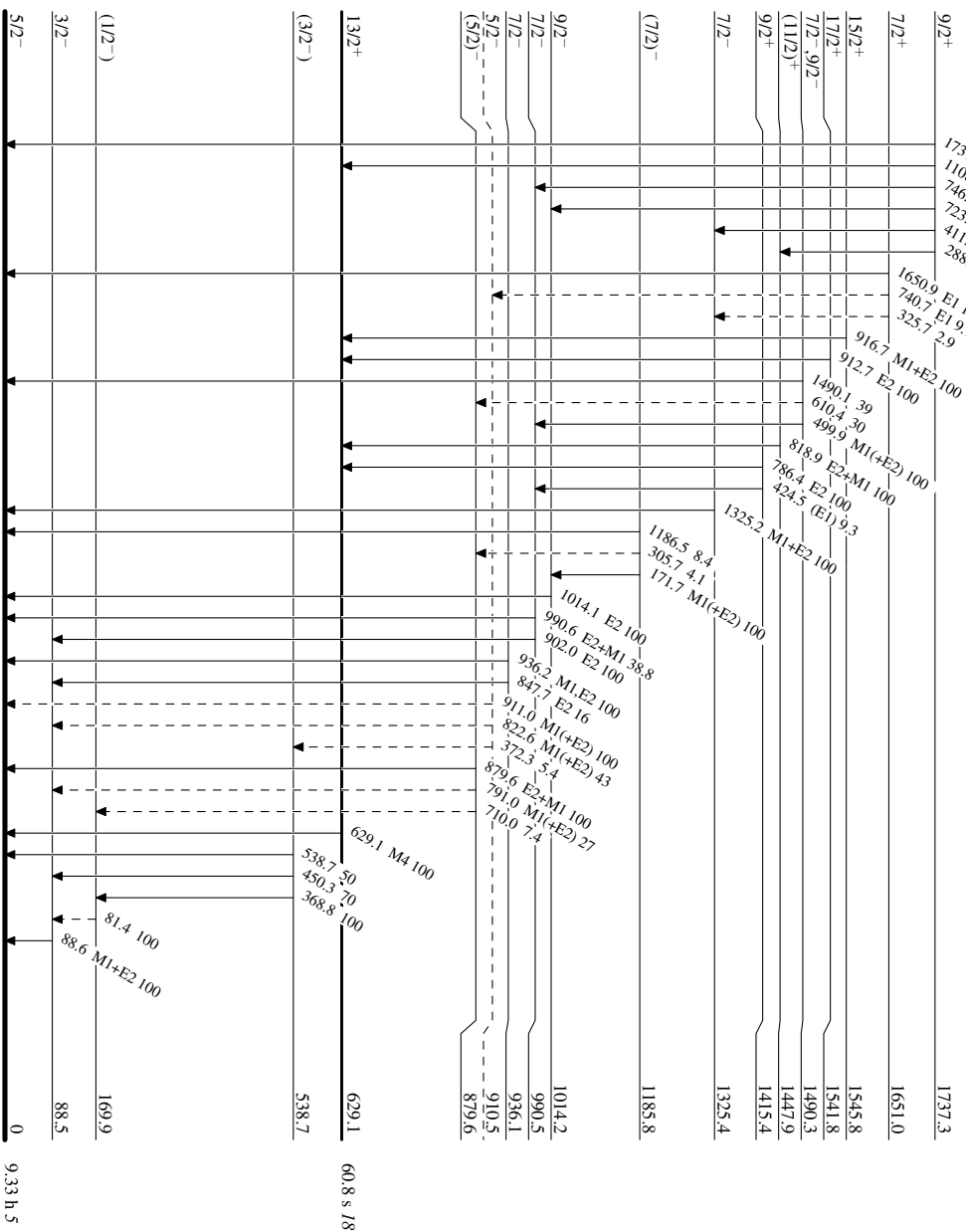
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

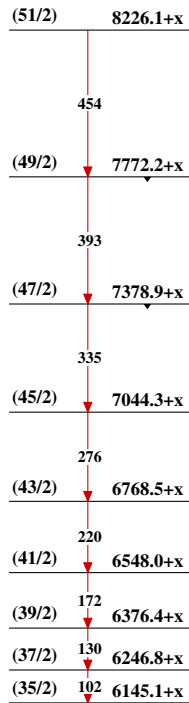
-----▶ γ Decay (Uncertain)



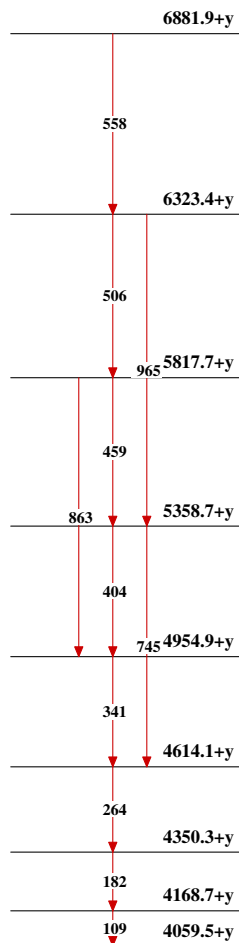
²⁰¹Pb
⁸²Pb₁₁₉

Adopted Levels, GammasBand(A): Configuration= ν

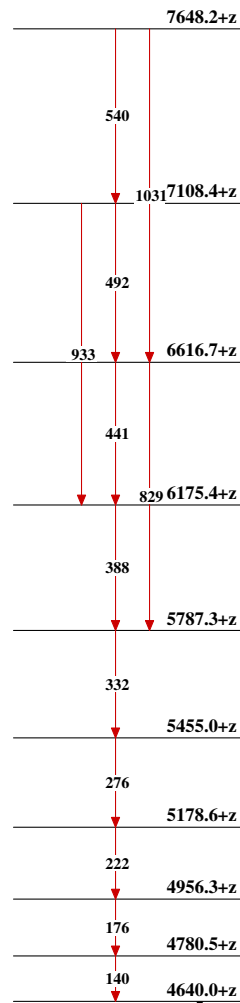
$$[p_{3/2}^{-1}, (i_{13/2}^{-1})_{12+}^{-1}] \otimes \pi (h_{9/2}^{+1}, i_{13/2}^{+1})_{11-}$$

Band(B): Configuration= ν

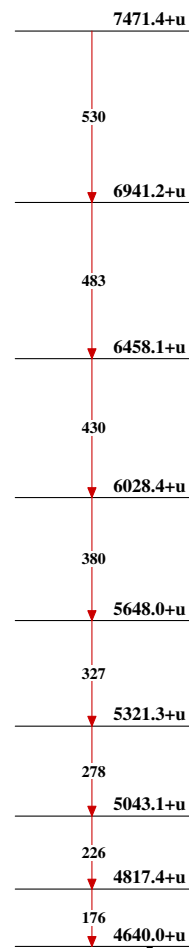
$$(i_{13/2}^{-1}) \otimes \pi (h_{9/2}^{+1}, i_{13/2}^{+1})_{11-}$$



Band(C): Band 3 in 1995Ba70



Band(D): Band 4 in 1995Ba70



Band(E): Band 5 in 1995Ba70

