

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 192,1 (2023)	1-Aug-2023

$Q(\beta^-) = -5880$ 25; $S(n) = 9090$ 12; $S(p) = 5480$ 30; $Q(\alpha) = 3150$ 10 [2021Wa16](#)

 ^{200}Pb LevelsCross Reference (XREF) Flags

A	^{204}Po α decay	E	$^{200}\text{Hg}(\alpha, 4n\gamma)$
B	^{200}Bi ε decay (36.4 min)	F	$^{203}\text{Tl}(p, 4n\gamma)$
C	^{200}Bi ε decay (31 min)	G	$^{209}\text{Bi}(\pi^-, 9n\gamma)$
D	$^{198}\text{Hg}(\alpha, 2n\gamma)$	H	(HI, xn γ)

E(level) [†]	J $\pi^{\ddagger}$	T _{1/2}	XREF	Comments
0.0	0 ⁺	21.5 h 4	ABCDEF G H	% ε =100 T _{1/2} : From 1955Be12 ; Others: 18 h 3 (1950Ne77), 20 h 2 (1959Jo21) and 12.6 h 14 (1961Be25).
1026.61 14	2 ⁺	0.33 ns 2	BCDEF G H	J π : 1026.5 γ E2 to 0 ⁺ .
1488.93 19	4 ⁺		BCDEF G H	J π : 462.3 γ E2 to 2 ⁺ . T _{1/2} : From $\gamma\gamma(t)$ in ^{200}Bi ε decay (36.4 min) (1972Al44).
1625.5 9	0 ⁺		C	J π : 1625.5 γ E0 to 0 ⁺ .
1739.35 14	1,2 ⁺		C	J π : 712.7 γ to 2 ⁺ ; 1739.5 γ to 0 ⁺ .
1762.4 3	(5) ⁺		BC	J π : 273.4 γ M1 to 4 ⁺ ; 788.6 γ from (5) ⁻ ; non observation of γ to the 2 ⁺ level at 1026.6 keV would argue against J π =3 ⁺ and 4 ⁺ .
1836.9 3	(3)		H	J π : 348.1 γ (D) to 4 ⁺ , 810.2 γ (D) to 2 ⁺ ; non observation of γ to 0 ⁺ would argue against J π =2 ⁺ .
1867.0 9	0 ⁺	1.35 ns 6	C	J π : 1867.0 γ E0 to 0 ⁺ .
1908.68 23	(5) ⁻		BCDEF G H	J π : 419.77 γ E1 to 4 ⁺ ; strong population in ^{200}Bi ε decay (36.4 min) (J π =7 ⁺) requires J $\geq$ 5. T _{1/2} : Weighted average of 1.32 ns 7 (1972Al44) in ^{200}Bi ε decay (36.4 min) and 1.40 ns 9 (1988Pa12) and 1.3 ns 1 (1989Su12) in (HI, xn γ). A mixture of configuration= $\nu(f_{5/2}^{-1}, i_{13/2}^{-1})$ and configuration= $\nu(p_{3/2}^{-1}, i_{13/2}^{-1})$.
2153.82 25	(7) ⁻	45.2 ns 7	BCDEF G H	$\mu = -0.21$ 10 (1985St16 , 2020StZV); Q=0.32 2 (1979MaYQ , 2021StZZ) J π : 245.2 γ E2 to (5) ⁻ . T _{1/2} : Weighted average of 47.6 ns 25 (1972Kr08) and 44 ns 2 (1973Pa04) in ^{200}Bi ε decay (36.4 min), 43 ns 3 (1974Lu03), 40 ns 7 (1978Mc03) and 42 ns 4 (1985St16) in $^{198}\text{Hg}(\alpha, 2n\gamma)$, 46 ns 1 (1987Fa15) in $^{200}\text{Hg}(\alpha, 4n\gamma)$ and 44 ns 2 (1989Su12 , 1988Pa12) in (HI, xn γ); Other: 50 ns 10 (1972Is01) in $^{203}\text{Tl}(p, 4n\gamma)$. μ : From g=-0.030 15 in $^{198}\text{Hg}(\alpha, 2n\gamma)$ (1985St16) using time-dependent perturbed angular distribution technique. Q: From $^{198}\text{Hg}(\alpha, 2n\gamma)$ (1979MaYQ) using time-dependent perturbed angular distribution technique. A mixture of configuration= $\nu(f_{5/2}^{-1}, i_{13/2}^{-1})$, configuration= $\nu(p_{3/2}^{-1}, i_{13/2}^{-1})$ and configuration= $\nu(p_{1/2}^{-1}, i_{13/2}^{-1})$.
2183.9 8	(9) ⁻	454 ns 9	B DEF G H	$\mu = -0.257$ 10 (1974Lu03 , 2020StZV); Q=0.40 2 (1979MaYQ , 2021StZZ) J π : 29.5 γ to (7) ⁻ ; μ ; analogy to similar structures in ^{198}Pb , ^{202}Pb and ^{204}Pb . T _{1/2} : Weighted average of 480 ns 30 (1973Pa04) in ^{200}Bi ε decay (36.4 min), 480 ns 20 (1974Lu03) and 480 ns 60 (1978Mc03) and 445 ns 15 (1985St16) in $^{198}\text{Hg}(\alpha, 2n\gamma)$, 424 ns 10 (1987Fa15) in $^{200}\text{Hg}(\alpha, 4n\gamma)$, and 480 ns 20 (1988Pa12), 480 ns 30 (1989Su12) and 476 ns 12 (2018La03) in (HI, xn γ); Others: 540 ns 30 (1972Is01) in $^{203}\text{Tl}(p, 4n\gamma)$ and $\approx$ 500 ns (1973Dj01) in

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Adopted Levels, Gammas (continued)

^{200}Pb Levels (continued)				
E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
				$^{198}\text{Hg}(\alpha, 2n\gamma)$. μ : From $g = -0.0285$ <i>11</i> in $^{198}\text{Hg}(\alpha, 2n\gamma)$ (1974Lu03) using the time-dependent perturbed angular distribution technique. Others: $\mu = -0.25$ <i>4</i> in $^{198}\text{Hg}(\alpha, 2n\gamma)$ (1985St16) and -0.27 <i>3</i> in (HI,xn γ) (1975Yo04). Q : From $^{198}\text{Hg}(\alpha, 2n\gamma)$ (1979MaYQ) using time-dependent perturbed angular distribution technique. Configuration= $\nu(f_{5/2}^{-1}, i_{13/2}^{-1})$. Additional information 1.
2183.9+x ^a			H	
2257.0 <i>3</i>	(6) ⁻		B	J ^π : 103.3 γ M1 to 7 ⁻ ; 348.3 γ M1+E2 to (5) ⁻ .
2268.2 <i>3</i>	(7) ⁻		B E	J ^π : 83.8 γ E2 to (9) ⁻ ; 114.4 γ M1 to (7) ⁻ .
2354.9 <i>3</i>	(6,7) ⁻		B	J ^π : 98.1 γ M1 to (6) ⁻ ; 201.1 γ M1 (7) ⁻ .
2494.0+x ^a <i>4</i>			H	
2551.4 <i>3</i>	(5,6) ⁻		B	J ^π : 294.43 γ M1 to (6) ⁻ ; 788.6 γ to (5) ⁺ .
2699.4 <i>3</i>	(6,7,8) ⁻		B	J ^π : 545.5 M1 to (7) ⁻ .
2960.9 <i>8</i>	(10) ⁺		DE GH	J ^π : 777.0 γ E1 to (9) ⁻ , 45.4 γ from (12) ⁺ .
3002.8 <i>4</i>	(6,7,8) ⁻		B	J ^π : 648.0 γ M1 to (6,7) ⁻ .
3006.3 <i>9</i>	(12) ⁺	198 ns <i>3</i>	DE H	$\mu = -1.839$ <i>6</i> ; $Q = 0.79$ <i>3</i> (1979Ma37, 2021StZZ). J ^π : μ ; analogy to similar structures in ^{198}Pb , ^{202}Pb and ^{204}Pb . T _{1/2} : Weighted average of 194 ns <i>6</i> (1979Ma37) in $^{198}\text{Hg}(\alpha, 2n\gamma)$, 202 ns <i>5</i> (1987Fa15) in $^{200}\text{Hg}(\alpha, 4n\gamma)$, and 199 ns <i>5</i> (1989Su12) and 195 ns <i>8</i> (2018La03) in (HI,xn γ); Others: 180 ns <i>30</i> (1978Mc03) in $^{198}\text{Hg}(\alpha, 2n\gamma)$, 152 ns <i>30</i> (1988Pa12), 160 ns <i>30</i> (1973Pa03) and 158 ns <i>30</i> (1975Yo04) in (HI,xn γ). μ : Weighted average of -1.849 <i>12</i> (1988Ro08), -1.836 <i>7</i> (1987Fa15) and -1.81 <i>2</i> (1983St15) using time-dependent perturbed angular distribution technique. Q : Using time-dependent perturbed angular distribution technique, normalized to $Q = 0.51$ <i>2</i> in ^{206}Pb . Configuration= $\nu(i_{13/2}^{-2})$.
3020.2+x ^a <i>4</i>			H	
3181.8 <i>9</i>	(11) ⁻		E H	J ^π : 997.9 γ E2 to (9) ⁻ .
3192.0 <i>5</i>			B	
3396.0 <i>11</i>	(12)		E H	J ^π : 214.2 γ D to (11) ⁻ .
3483.2 <i>4</i>	(6,7) ⁻		B	J ^π : 480.4 γ M1 to (6,7,8) ⁻ ; 931.7 γ to (5) ⁻ .
3550.6+x ^a <i>6</i>			H	
3830.0 <i>10</i>	(13) ⁺		E	J ^π : 823.7 γ (M1) to (12) ⁺ .
3867.9 <i>10</i>	(14) ⁺		E H	J ^π : 861.6 γ E2 to (12) ⁺ .
3873.5 <i>12</i>	(13) ⁺		E	J ^π : 867.2 γ M1+E2 to (12) ⁺ .
3885.8+x ^a <i>6</i>			H	
4068.1 <i>9</i>	(14) ⁺		E	J ^π : 1061.8 γ E2 to (12) ⁺ .
4146.0 <i>11</i>	(16) ⁺	3.1 ns <i>3</i>	E H	J ^π : 278.1 γ E2 to (14) ⁺ . T _{1/2} : From 1989Su12 in (HI,xn γ). Other: 5 ns <i>1</i> (1987Fa15) in $^{200}\text{Hg}(\alpha, 4n\gamma)$. Configuration= $\nu(i_{13/2}^{-2}) \otimes 4^{+}$. J ^π : 386.6 γ D to (14) ⁺ .
4254.5 <i>12</i>	(15)		E	J ^π : 196.7 γ M1 to (16) ⁺ ; relative population of this level in (HI,xn γ) and $^{200}\text{Hg}(\alpha, 4n\gamma)$.
4342.9 <i>11</i>	(16) ⁺		E H	
4342.9+y [@]			H	Additional information 2.
4443.5+y [@] <i>5</i>			H	
4566.8+y [@] <i>7</i>			H	
4727.1+y [@] <i>9</i>			H	
4935.7+y [@] <i>10</i>			H	

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Adopted Levels, Gammas (continued)

^{200}Pb Levels (continued)					
E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments	
5008.6 11	(17 ⁻)		E H	J ^π : 665.6γ and 862.7γ E1 to (16 ⁺); relative population of this level in (HI,xnγ) and $^{200}\text{Hg}(\alpha,4n\gamma)$. Configuration= $\nu(f_{5/2}^{-1}, i_{13/2}^{-3})$.	
5076.3 14	(19 ⁻)	72.4 ns 26	E H	$\mu=-1.79$ 13 (1987Fa15,2020StZV) J ^π : 67.7γ E2 to (17 ⁻); μ . T _{1/2} : Weighted average of 67 ns 5 (1987Fa15) in $^{200}\text{Hg}(\alpha,4n\gamma)$, and 87 ns 18 (2018La03), 73 ns 4 (1989Su12), 77 ns 5 (1988Pa12) and 60 ns 15 (1973Pa03) in (HI,xnγ). Configuration= $\nu(f_{5/2}^{-1}, i_{13/2}^{-3})$. J ^π : 139.9γ D to (17 ⁻).	
5148.5 12	(18)		E		
5198.2+y [@] 12			H		
5437.0 17			E		
5517.7+y [@] 13			H		
5753.9 17	(20 ⁻)		E	J ^π : 677.6γ (M1) to (19 ⁻).	
5801.9 14	(21 ⁻)		E H	J ^π : 725.4γ E2 to (19 ⁻).	
5892.4+y [@] 14			H		
6076.1 15			H		
6161.6 15			H		
6161.6+z [#]			H	Additional information 3.	
6161.6+u ^{&}			H	Additional information 4.	
6279.0 14			H		
6321.8+y [@] 15			H		
6374.1+z [#] 5			H		
6399.1+u ^{&} 5			H		
6614.4+z [#] 7			H		
6680.4+u ^{&} 7			H		
6800.5 14			H		
6802.4+y [@] 15			H		
6897.7+z [#] 9			H		
6948.8 15	(25 ⁻)	58 ns 4	H	J ^π : From 1988Pa12 in (HI,xnγ), based on systematics and shell model. T _{1/2} : From 1988Pa12 in (HI,xnγ). Configuration= $\nu(f_{5/2}^{-1}, i_{13/2}^{-5})$.	
7015.0+u ^{&} 9			H		
7227.3+z [#] 10			H		
7335.4+y [@] 16			H		
7396.4+u ^{&} 10			H		
7607.4+z [#] 12			H		
7819.9+u ^{&} 12			H		
7917.5+y [@] 17			H		
8046.2+z [#] 13			H		
8171.0 16			H		
8437.4 16			H		
8549.8+y [@] 17			H		
8631.0 17			H		

[†] From a least-squares fit to Eγ.[‡] From deduced γ ray transition multipolarities, using α(K)exp, α(L)exp and subshell ratios in ^{200}Bi ε decay (36.4 min), $^{198}\text{Hg}(\alpha,2n\gamma)$, $^{203}\text{Tl}(p,4n\gamma)$ and (HI,xnγ); γ(θ) in $^{200}\text{Hg}(\alpha,4n\gamma)$ and DCO in (HI,xnγ).

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Adopted Levels, Gammas (continued)

 ^{200}Pb Levels (continued)

Band(A): Band 2 in [1994Ba43](#). Oblate deformed band.

@ Band(B): Band 1 in [1994Ba43](#). Oblate deformed band.

& Band(C): Band 3 in [1994Ba43](#). Oblate deformed band.

^a Band(D): Group 1 in [1994Ba43](#).

Adopted Levels, Gammas (continued)

E _i (level)	J ^π _i	γ(²⁰⁰ Pb)		E _f	J ^π _f	Mult. [†]	δ	α ^a	Comments
		E _γ [†]	I _γ [†]						
1026.61	2 ⁺	1026.49 17	100	0.0	0 ⁺	E2		0.00633 9	α(K)=0.00505 7; α(L)=0.000973 14; α(M)=0.0002313 32 α(N)=5.86×10 ⁻⁵ 8; α(O)=1.146×10 ⁻⁵ 16; α(P)=1.111×10 ⁻⁶ 16 Mult.: α(K)exp=0.0051 3 and K/L(exp)=5.0 4 (1970Ha14) and α(L)exp=0.00095 27 (1972Kr08) in ²⁰⁰ Bi ε decay (36.4 min); α(K)exp=0.0057 10 in ²⁰³ Tl(p,4nγ); α(K)exp=0.0042 9 in ¹⁹⁸ Hg(α,2nγ); γ(θ) in ²⁰⁰ Hg(α,4nγ); α(K)exp=0.0032 15 in (HI,xnγ).
1488.93	4 ⁺	462.34 13	100	1026.61	2 ⁺	E2		0.0356 5	α(K)=0.02454 34; α(L)=0.00831 12; α(M)=0.002076 29 α(N)=0.000526 7; α(O)=9.89×10 ⁻⁵ 14; α(P)=7.46×10 ⁻⁶ 10 B(E2)(W.u.)=1.13 7 Mult.: α(K)exp=0.0238 16 and K/L(exp)=2.94 23 (1970Ha14), and α(K)exp=0.0266 13 (1973Pa04); α(K)exp=0.028 6 (1972Kr08) in ²⁰⁰ Bi ε decay (36.4 min); α(K)exp=0.0247 25 and α(L)exp=0.0093 14 in ²⁰³ Tl(p,4nγ); α(K)exp=0.025 3 in ¹⁹⁸ Hg(α,2nγ); γ(θ) in ²⁰⁰ Hg(α,4nγ); α(K)exp=0.034 5 in (HI,xnγ).
1625.5	0 ⁺	1625.5 9		0.0	0 ⁺	E0			E _γ ,Mult.: From ce in ²⁰⁰ Bi ε decay (31 min) (1987Va09).
1739.35	1,2 ⁺	712.70 10	41.9 23	1026.61	2 ⁺				E _γ ,I _γ : From ²⁰⁰ Bi ε decay (31 min) (1978LiZM).
		1739.5 2	100 5	0.0	0 ⁺				E _γ ,I _γ : From ²⁰⁰ Bi ε decay (31 min) (1978LiZM).
1762.4	(5) ⁺	273.39 20	100	1488.93	4 ⁺	M1+E2	0.44 33	0.49 8	α(K)=0.39 8; α(L)=0.073 5; α(M)=0.0174 9 α(N)=0.00441 23; α(O)=0.00087 6; α(P)=8.8×10 ⁻⁵ 13 Mult.: α(K)exp=0.39 8 and K/L(exp)=4.5 13 (1970Ha14); α(K)exp=0.6 3 (1973Pa04) in ²⁰⁰ Bi ε decay (36.4 min). δ: From α(K)exp in ²⁰⁰ Bi ε decay (36.4 min) (1970Ha14). E _γ ,Mult.: From 2014ChZW in (HI,xnγ). ΔE _γ estimated by the evaluator.
1836.9	(3)	348.1 3		1488.93	4 ⁺	(D)			E _γ ,Mult.: From 2014ChZW in (HI,xnγ). ΔE _γ estimated by the evaluator.
		810.2 3		1026.61	2 ⁺	(D)			E _γ ,Mult.: From 2014ChZW in (HI,xnγ). ΔE _γ estimated by the evaluator.
1867.0	0 ⁺	1867.0 9		0.0	0 ⁺	E0			E _γ ,Mult.: From ce in ²⁰⁰ Bi ε decay (31 min) (1987Va09).
1908.68	(5) ⁻	419.77 13	100	1488.93	4 ⁺	E1		0.01388 19	α(K)=0.01144 16; α(L)=0.001869 26; α(M)=0.000435 6 α(N)=0.0001098 15; α(O)=2.148×10 ⁻⁵ 30; α(P)=2.070×10 ⁻⁶ 29 B(E1)(W.u.)=1.95×10 ⁻⁶ 9 Mult.: α(K)exp<0.015; α(L)exp<0.0022 (1970Ha14); α(K)exp=0.013 3 (1973Pa04) in ²⁰⁰ Bi ε decay (36.4 min); α(K)exp=0.023 4 in (HI,xnγ); α(K)exp=0.012 2 in ¹⁹⁸ Hg(α,2nγ); γ(θ) in ²⁰⁰ Hg(α,4nγ).
2153.82	(7) ⁻	245.15 13	100	1908.68	(5) ⁻	E2		0.2162 30	α(K)=0.1046 15; α(L)=0.0835 12; α(M)=0.02164 31

Adopted Levels, Gammas (continued)

$\gamma(^{200}\text{Pb})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	δ	α^a	Comments
									$\alpha(\text{N})=0.00547\ 8$; $\alpha(\text{O})=0.000996\ 14$; $\alpha(\text{P})=5.51\times 10^{-5}\ 8$ B(E2)(W.u.)=0.167 3 Mult.: $\alpha(\text{K})\text{exp}=0.108\ 8$ and $\text{K/L}(\text{exp})=1.27\ 6$ (1970Ha14); $\text{K/L}=1.28\ 15$ (1973Pa04); $\alpha(\text{K})\text{exp}=0.12\ 2$ (1972Kr08) in ^{200}Bi ε decay (36.4 min); $\alpha(\text{K})\text{exp}=0.11\ 1$, $\alpha(\text{L}1)\text{exp}+\alpha(\text{L}2)\text{exp}=0.077\ 10$ and $\alpha(\text{L}3)\text{exp}=0.030\ 5$ in (HI,xn γ); $\alpha(\text{K})\text{exp}=0.107\ 14$ in $^{198}\text{Hg}(\alpha,2n\gamma)$; $\gamma(\theta)$ in $^{200}\text{Hg}(\alpha,4n\gamma)$.
2183.9	(9 ⁻)	29.5 [‡] 10	100 [‡]	2153.82	(7) ⁻	[E2]		2.1×10 ³ 4	$\alpha(\text{L})=1.60\times 10^3\ 30$; $\alpha(\text{M})=4.2\times 10^2\ 8$ $\alpha(\text{N})=105\ 19$; $\alpha(\text{O})=18.5\ 34$; $\alpha(\text{P})=0.60\ 11$ B(E2)(W.u.)=0.38 10 E_γ : From ce(M) in (HI,xn γ) (1988Pa12). $\alpha(\text{K})=6.95\ 10$; $\alpha(\text{L})=1.212\ 18$; $\alpha(\text{M})=0.284\ 4$ $\alpha(\text{N})=0.0723\ 11$; $\alpha(\text{O})=0.01440\ 21$; $\alpha(\text{P})=0.001538\ 23$ Mult.: $\alpha(\text{L}1)\text{exp}\approx 1.9$ (1973Pa04).
2257.0	(6) ⁻	103.25 17	52	2153.82	(7) ⁻	M1		8.54 13	$\alpha(\text{K})=0.153\ 25$; $\alpha(\text{L})=0.0320\ 24$; $\alpha(\text{M})=0.0077\ 5$ $\alpha(\text{N})=0.00195\ 13$; $\alpha(\text{O})=0.000380\ 28$; $\alpha(\text{P})=3.6\times 10^{-5}\ 4$ Mult., δ : $\alpha(\text{K})\text{exp}=0.153\ 24$ (1970Ha14). $\alpha(\text{L})=9.94\ 14$; $\alpha(\text{M})=2.63\ 4$
		348.33 17	100	1908.68	(5) ⁻	M1+E2	0.86 +26-21	0.195 28	$\alpha(\text{N})=0.661\ 9$; $\alpha(\text{O})=0.1176\ 16$; $\alpha(\text{P})=0.00442\ 6$ E_γ : From ce(L) in ^{200}Bi ε decay (36.4 min) (1973Pa04). Mult.: $(\alpha(\text{L}1)\text{exp}+\alpha(\text{L}2)\text{exp})/\alpha(\text{L}3)\text{exp}=1.2\ 3$ in ^{200}Bi ε decay (36.4 min) (1973Pa04).
2268.2	(7) ⁻	83.8	35 18	2183.9	(9 ⁻)	E2		13.35 19	$\alpha(\text{K})=5.19\ 8$; $\alpha(\text{L})=0.902\ 13$; $\alpha(\text{M})=0.2115\ 31$ $\alpha(\text{N})=0.0538\ 8$; $\alpha(\text{O})=0.01072\ 16$; $\alpha(\text{P})=0.001144\ 17$ Mult.: $\alpha(\text{K})\text{exp}=7.7\ 3$ and $\text{K/L}(\text{exp})=5.0\ 5$ (1973Pa04); $\text{A}_2=0.19\ 9$ and $\text{A}_4=0.06\ 13$ in $^{200}\text{Hg}(\alpha,4n\gamma)$ (1987Fa15) consistent with J to J transition.
		114.40 16	100	2153.82	(7) ⁻	M1		6.37 9	$\alpha(\text{K})=8.04\ 13$; $\alpha(\text{L})=1.405\ 23$; $\alpha(\text{M})=0.330\ 5$ $\alpha(\text{N})=0.0838\ 14$; $\alpha(\text{O})=0.01670\ 28$; $\alpha(\text{P})=0.001783\ 30$ Mult.: $\alpha(\text{L}1)\text{exp}\approx 2.2$ in ^{200}Bi ε decay (36.4 min) (1973Pa04).
2354.9	(6,7) ⁻	98.1 3	33	2257.0	(6) ⁻	M1		9.87 16	$\alpha(\text{K})=1.053\ 15$; $\alpha(\text{L})=0.1810\ 26$; $\alpha(\text{M})=0.0424\ 6$ $\alpha(\text{N})=0.01078\ 15$; $\alpha(\text{O})=0.002149\ 31$; $\alpha(\text{P})=0.0002297\ 33$ Mult.: $\alpha(\text{K})\text{exp}=1.27\ 26$ (1970Ha14) and $\alpha(\text{K})\text{exp}=1.3\ 5$ and $\text{K/L}>1.5$ (1973Pa04) in ^{200}Bi ε decay (36.4 min).
		201.11 17	100	2153.82	(7) ⁻	M1		1.289 18	
2494.0+x		310.1 [‡] 5	100 [‡]	2183.9+x					
2551.4	(5,6) ⁻	294.43 21	90	2257.0	(6) ⁻	M1		0.449 6	$\alpha(\text{K})=0.367\ 5$; $\alpha(\text{L})=0.0627\ 9$; $\alpha(\text{M})=0.01468\ 21$ $\alpha(\text{N})=0.00373\ 5$; $\alpha(\text{O})=0.000744\ 11$; $\alpha(\text{P})=7.95\times 10^{-5}\ 11$ Mult.: $\alpha(\text{K})\text{exp}=0.42\ 12$ $\text{K/L}(\text{exp})=5.9\ 18$ (1970Ha14); $\alpha(\text{K})\text{exp}=0.35\ 10$ (1973Pa04) in ^{200}Bi ε decay (36.4 min).

Adopted Levels, Gammas (continued)

$\gamma(^{200}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	α^a	Comments
2551.4	(5,6) ⁻	642.7 8 788.6 7	80 100	1908.68 1762.4	(5) ⁻ (5) ⁺			
2699.4	(6,7,8) ⁻	344.6 5 545.50 17	11 100	2354.9 2153.82	(6,7) ⁻ (7) ⁻	M1	0.0858 12	$\alpha(\text{K})=0.0703$ 10; $\alpha(\text{L})=0.01182$ 17; $\alpha(\text{M})=0.00276$ 4 $\alpha(\text{N})=0.000702$ 10; $\alpha(\text{O})=0.0001400$ 20; $\alpha(\text{P})=1.500\times 10^{-5}$ 21 Mult.: $\alpha(\text{K})_{\text{exp}}<0.102$; $\alpha(\text{L})_{\text{exp}}=0.015$ 3 (1970Ha14) in ²⁰⁰ Bi ε decay (36.4 min).
2960.9	(10 ⁺)	777.0 [‡] 2	100 [‡]	2183.9	(9 ⁻)	E1	0.00399 6	$\alpha(\text{K})=0.00332$ 5; $\alpha(\text{L})=0.000514$ 7; $\alpha(\text{M})=0.0001188$ 17 $\alpha(\text{N})=3.00\times 10^{-5}$ 4; $\alpha(\text{O})=5.94\times 10^{-6}$ 8; $\alpha(\text{P})=6.04\times 10^{-7}$ 8 Mult.: $\alpha(\text{K})_{\text{exp}}=0.0038$ 14 in ¹⁹⁸ Hg($\alpha,2n\gamma$) (1978Mc03); $\gamma(\theta)$ in ²⁰⁰ Hg($\alpha,4n\gamma$) (1987Fa15); $\alpha(\text{K})_{\text{exp}}=0.0027$ 17 in (HI,xn γ) (1988Pa12).
3002.8	(6,7,8) ⁻	303.41 18	85	2699.4	(6,7,8) ⁻	M1	0.414 6	$\alpha(\text{K})=0.338$ 5; $\alpha(\text{L})=0.0577$ 8; $\alpha(\text{M})=0.01351$ 19 $\alpha(\text{N})=0.00343$ 5; $\alpha(\text{O})=0.000685$ 10; $\alpha(\text{P})=7.32\times 10^{-5}$ 10 Mult.: $\alpha(\text{K})_{\text{exp}}=0.33$ 7 (1970Ha14), $\alpha(\text{K})_{\text{exp}}=0.28$ 10 (1973Pa04) and $\alpha(\text{K})_{\text{exp}}=0.36$ 6 (1972Kr08) in ²⁰⁰ Bi ε decay (36.4 min).
		648.0 4	100	2354.9	(6,7) ⁻	M1	0.0546 8	$\alpha(\text{K})=0.0448$ 6; $\alpha(\text{L})=0.00749$ 11; $\alpha(\text{M})=0.001749$ 25 $\alpha(\text{N})=0.000444$ 6; $\alpha(\text{O})=8.87\times 10^{-5}$ 12; $\alpha(\text{P})=9.52\times 10^{-6}$ 13 Mult.: $\alpha(\text{K})_{\text{exp}}=0.045$ 8 (1970Ha14) in ²⁰⁰ Bi ε decay (36.4 min).
3006.3	(12 ⁺)	45.4 [‡] 4	100 [‡]	2960.9	(10 ⁺)	[E2]	257 12	$\alpha(\text{L})=191$ 9; $\alpha(\text{M})=50.3$ 23 $\alpha(\text{N})=12.7$ 6; $\alpha(\text{O})=2.24$ 10; $\alpha(\text{P})=0.0764$ 34 B(E2)(W.u.)=0.83 6 E γ : Average of 45.9 keV 7 and 45.2 keV 5, determined from γ -ce coincidence data in 1988Pa12 and 1989Su12, respectively [(HI,xn γ)].
3020.2+x		526.3 5		2494.0+x		M1(+E2) [@]	0.060 34	$\alpha(\text{K})=0.048$ 29; $\alpha(\text{L})=0.009$ 4; $\alpha(\text{M})=0.0022$ 8 $\alpha(\text{N})=5.6\times 10^{-4}$ 21; $\alpha(\text{O})=1.1\times 10^{-4}$ 4; $\alpha(\text{P})=1.1\times 10^{-5}$ 6 E γ : From (HI,xn γ).
		836.3 5		2183.9+x		E2 [@]	0.00950 13	$\alpha(\text{K})=0.00743$ 10; $\alpha(\text{L})=0.001576$ 22; $\alpha(\text{M})=0.000379$ 5 $\alpha(\text{N})=9.59\times 10^{-5}$ 14; $\alpha(\text{O})=1.862\times 10^{-5}$ 26; $\alpha(\text{P})=1.726\times 10^{-6}$ 24 E γ : From (HI,xn γ).
3181.8	(11 ⁻)	997.9 [‡] 5	100 [‡]	2183.9	(9 ⁻)	E2 ^{@&}	0.00669 9	$\alpha(\text{K})=0.00533$ 7; $\alpha(\text{L})=0.001037$ 15; $\alpha(\text{M})=0.0002470$ 35 $\alpha(\text{N})=6.26\times 10^{-5}$ 9; $\alpha(\text{O})=1.223\times 10^{-5}$ 17; $\alpha(\text{P})=1.179\times 10^{-6}$ 17
3192.0		836.9 5 935.3 7	100 93	2354.9 2257.0	(6,7) ⁻ (6) ⁻			
3396.0	(12)	214.2 [#] 5	100 [#]	3181.8	(11 ⁻)	D ^{&}		$\alpha(\text{K})=0.5$ 4; $\alpha(\text{L})=0.149$ 5; $\alpha(\text{M})=0.0369$ 12; $\alpha(\text{N}+..)=0.01125$ 23 $\alpha(\text{N})=0.0093$ 3; $\alpha(\text{O})=0.00177$ 5; $\alpha(\text{P})=0.00014$ 6
3483.2	(6,7) ⁻	480.43 24	89	3002.8	(6,7,8) ⁻	M1	0.1200 17	$\alpha(\text{K})=0.0984$ 14; $\alpha(\text{L})=0.01659$ 23; $\alpha(\text{M})=0.00388$ 5

Adopted Levels, Gammas (continued)

$\gamma(^{200}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	α^a	Comments
								$\alpha(\text{N})=0.000985$ 14; $\alpha(\text{O})=0.0001965$ 28; $\alpha(\text{P})=2.105\times 10^{-5}$ 30 Mult.: $\alpha(\text{K})_{\text{exp}}=0.100$ 15 (1970Ha14) in ²⁰⁰ Bi ε decay (36.4 min).
3483.2	(6,7) ⁻	931.7 5	100	2551.4	(5,6) ⁻			
3550.6+x		530.4 [‡] 5	100 [‡]	3020.2+x		M1(+E2) [@]	0.059 33	$\alpha(\text{K})=0.047$ 29; $\alpha(\text{L})=0.009$ 4; $\alpha(\text{M})=0.0022$ 8 $\alpha(\text{N})=5.5\times 10^{-4}$ 21; $\alpha(\text{O})=1.1\times 10^{-4}$ 4; $\alpha(\text{P})=1.1\times 10^{-5}$ 6
3830.0	(13 ⁺)	823.7 [#] 5	100 [#]	3006.3	(12 ⁺)	(M1) ^{&}	0.0293 4	$\alpha(\text{K})=0.02408$ 34; $\alpha(\text{L})=0.00399$ 6; $\alpha(\text{M})=0.000932$ 13 $\alpha(\text{N})=0.0002367$ 33; $\alpha(\text{O})=4.72\times 10^{-5}$ 7; $\alpha(\text{P})=5.08\times 10^{-6}$ 7
3867.9	(14 ⁺)	861.6 [‡] 5	100 [‡]	3006.3	(12 ⁺)	E2	0.00894 13	$\alpha(\text{K})=0.00702$ 10; $\alpha(\text{L})=0.001465$ 21; $\alpha(\text{M})=0.000352$ 5 $\alpha(\text{N})=8.91\times 10^{-5}$ 13; $\alpha(\text{O})=1.731\times 10^{-5}$ 24; $\alpha(\text{P})=1.616\times 10^{-6}$ 23 Mult.: $\alpha(\text{K})_{\text{exp}}=0.0066$ 9 (1988Pa12), DCO=1.00 14 (1994Ba43) in (HI,xn γ); $\gamma(\theta)$ in ²⁰⁰ Hg(α ,4n γ) (1987Fa15).
3873.5	(13 ⁺)	867.2 [#] 7	100 [#]	3006.3	(12 ⁺)	M1+E2 ^{&}	0.017 8	$\alpha(\text{K})=0.014$ 7; $\alpha(\text{L})=0.0025$ 10; $\alpha(\text{M})=5.8\times 10^{-4}$ 23 $\alpha(\text{N})=1.5\times 10^{-4}$ 6; $\alpha(\text{O})=2.9\times 10^{-5}$ 12; $\alpha(\text{P})=3.0\times 10^{-6}$ 14
3885.8+x		335.2 5		3550.6+x		[M1(+E2)] [@]	0.20 12	$\alpha(\text{K})=0.15$ 10; $\alpha(\text{L})=0.034$ 9; $\alpha(\text{M})=0.0083$ 19 $\alpha(\text{N})=0.0021$ 5; $\alpha(\text{O})=4.1\times 10^{-4}$ 11; $\alpha(\text{P})=3.8\times 10^{-5}$ 18 E_γ : From (HI,xn γ).
		865.6 5		3020.2+x		E2 [@]	0.00886 12	$\alpha(\text{K})=0.00696$ 10; $\alpha(\text{L})=0.001449$ 20; $\alpha(\text{M})=0.000348$ 5 $\alpha(\text{N})=8.81\times 10^{-5}$ 12; $\alpha(\text{O})=1.711\times 10^{-5}$ 24; $\alpha(\text{P})=1.600\times 10^{-6}$ 22 E_γ : From (HI,xn γ).
4068.1	(14 ⁺)	1061.8 [#] 2	100 [#]	3006.3	(12 ⁺)	E2 ^{&}	0.00593 8	$\alpha(\text{K})=0.00475$ 7; $\alpha(\text{L})=0.000901$ 13; $\alpha(\text{M})=0.0002140$ 30 $\alpha(\text{N})=5.42\times 10^{-5}$ 8; $\alpha(\text{O})=1.062\times 10^{-5}$ 15; $\alpha(\text{P})=1.035\times 10^{-6}$ 15
4146.0	(16 ⁺)	278.1 [‡] 2	100 [‡]	3867.9	(14 ⁺)	E2	0.1453 21	B(E2)(W.u.)=1.38 14 $\alpha(\text{K})=0.0777$ 11; $\alpha(\text{L})=0.0507$ 7; $\alpha(\text{M})=0.01306$ 19 $\alpha(\text{N})=0.00330$ 5; $\alpha(\text{O})=0.000605$ 9; $\alpha(\text{P})=3.56\times 10^{-5}$ 5 Mult.: $\alpha(\text{K})_{\text{exp}}=0.087$ 9, $\alpha(\text{L1})_{\text{exp}}+\alpha(\text{L2})_{\text{exp}}=0.051$ 7, $\alpha(\text{L3})_{\text{exp}}=0.018$ 4 (1988Pa12); DCO=0.95 23 (1994Ba43) in (HI,xn γ); $\gamma(\theta)$ in ²⁰⁰ Hg(α ,4n γ) (1987Fa15).
4254.5	(15)	386.6 [#] 5	100 [#]	3867.9	(14 ⁺)	D ^{&}		$\alpha(\text{K})=0.11$ 7; $\alpha(\text{L})=0.023$ 8; $\alpha(\text{M})=0.0054$ 16; $\alpha(\text{N}+..)=0.0017$ 6 $\alpha(\text{N})=0.0014$ 5; $\alpha(\text{O})=0.00027$ 9; $\alpha(\text{P})=2.5\times 10^{-5}$ 13
4342.9	(16 ⁺)	196.7 [‡] 5	100 [‡]	4146.0	(16 ⁺)	M1	1.372 22	$\alpha(\text{K})=1.120$ 18; $\alpha(\text{L})=0.1927$ 30; $\alpha(\text{M})=0.0452$ 7 $\alpha(\text{N})=0.01148$ 18; $\alpha(\text{O})=0.00229$ 4; $\alpha(\text{P})=0.000244$ 4 Mult.: From (HI,xn γ), using total α using intensity balances (1988Pa12) and K/L in 1989Su12.
4443.5+y		100.6 [‡] 5	100 [‡]	4342.9+y		(M1+E2) [@]	7.7 15	$\alpha(\text{K})=4.0$ 35; $\alpha(\text{L})=2.8$ 14; $\alpha(\text{M})=0.7$ 4 $\alpha(\text{N})=0.18$ 10; $\alpha(\text{O})=0.033$ 17; $\alpha(\text{P})=0.00181$ 16
4566.8+y		123.3 [‡] 5	100 [‡]	4443.5+y		M1(+E2) [@]	3.9 13	$\alpha(\text{K})=2.3$ 19; $\alpha(\text{L})=1.2$ 5; $\alpha(\text{M})=0.30$ 13 $\alpha(\text{N})=0.076$ 33; $\alpha(\text{O})=0.014$ 5; $\alpha(\text{P})=0.00087$ 6

Adopted Levels, Gammas (continued) $\gamma(^{200}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	α^a	Comments
4727.1+y		160.3 [‡] 5	100 [‡]	4566.8+y		M1(+E2) [@]	1.7 7	$\alpha(\text{K})=1.1$ 9; $\alpha(\text{L})=0.42$ 8; $\alpha(\text{M})=0.106$ 26 $\alpha(\text{N})=0.027$ 6; $\alpha(\text{O})=0.0050$ 10; $\alpha(\text{P})=0.00036$ 8
4935.7+y		208.6 [‡] 5	100 [‡]	4727.1+y		M1(+E2) [@]	0.8 4	$\alpha(\text{K})=0.6$ 4; $\alpha(\text{L})=0.1628$ 27; $\alpha(\text{M})=0.0403$ 21 $\alpha(\text{N})=0.0102$ 5; $\alpha(\text{O})=0.001937$ 32; $\alpha(\text{P})=1.5\times 10^{-4}$ 5
5008.6	(17 ⁻)	665.6 [‡] 3	76 [‡] 28	4342.9	(16 ⁺)	E1 ^{&}	0.00537 8	$\alpha(\text{K})=0.00446$ 6; $\alpha(\text{L})=0.000699$ 10; $\alpha(\text{M})=0.0001618$ 23 $\alpha(\text{N})=4.09\times 10^{-5}$ 6; $\alpha(\text{O})=8.07\times 10^{-6}$ 11; $\alpha(\text{P})=8.11\times 10^{-7}$ 11 Mult.: From DCO=0.66 3 (1994Ba43) and small $\alpha(\text{K})\text{exp}$ (1988Pa12) in (HI,xny).
		862.7 [‡] 3	100 [‡] 32	4146.0	(16 ⁺)	E1 ^{&}	0.00328 5	$\alpha(\text{K})=0.00273$ 4; $\alpha(\text{L})=0.000420$ 6; $\alpha(\text{M})=9.70\times 10^{-5}$ 14 $\alpha(\text{N})=2.453\times 10^{-5}$ 34; $\alpha(\text{O})=4.86\times 10^{-6}$ 7; $\alpha(\text{P})=4.97\times 10^{-7}$ 7 Mult.: From $\alpha(\text{K})\text{exp}=0.0066$ 9, doublet in (HI,xny) (1988Pa12).
5076.3	(19 ⁻)	67.7 [‡] 8	100 [‡]	5008.6	(17 ⁻)	E2	37.0 22	$\alpha(\text{L})=27.5$ 17; $\alpha(\text{M})=7.3$ 4 $\alpha(\text{N})=1.83$ 11; $\alpha(\text{O})=0.325$ 20; $\alpha(\text{P})=0.0117$ 7 B(E2)(W.u.)=2.08 19 E_γ : Weighted average of 68.5 keV 5 and 66.9 keV 5, determined from γ -ce coincidence data in 1988Pa12 and 1989Su12 , respectively (HI,xny). Mult.: From L12/L3=1.3 2 and L12(M+N+O)=1.8 5 in (HI,xny) (1988Pa12).
5148.5	(18)	139.9 [#] 5	100 [#]	5008.6	(17 ⁻)	D ^{&}		$\alpha(\text{K})=1.7$ 13; $\alpha(\text{L})=0.72$ 21; $\alpha(\text{M})=0.18$ 7; $\alpha(\text{N}+..)=0.055$ 18 $\alpha(\text{N})=0.046$ 16; $\alpha(\text{O})=0.0085$ 25; $\alpha(\text{P})=0.00056$ 9
5198.2+y		262.5 [‡] 5	100 [‡] 14	4935.7+y		M1(+E2) [@]	0.39 22	$\alpha(\text{K})=0.30$ 21; $\alpha(\text{L})=0.075$ 11; $\alpha(\text{M})=0.0183$ 19 $\alpha(\text{N})=0.0046$ 5; $\alpha(\text{O})=0.00089$ 13; $\alpha(\text{P})=7.6\times 10^{-5}$ 33
5437.0		360.7 [#] 10	100 [#]	5076.3	(19 ⁻)			
5517.7+y		319.5 [‡] 5	100 [‡]	5198.2+y		M1(+E2) [@]	0.23 13	$\alpha(\text{K})=0.17$ 12; $\alpha(\text{L})=0.040$ 10; $\alpha(\text{M})=0.0097$ 20 $\alpha(\text{N})=0.0025$ 5; $\alpha(\text{O})=4.8\times 10^{-4}$ 12; $\alpha(\text{P})=4.3\times 10^{-5}$ 21
5753.9	(20 ⁻)	677.6 [#] 10	100 [#]	5076.3	(19 ⁻)	(M1) ^{&}	0.0486 7	$\alpha(\text{K})=0.0399$ 6; $\alpha(\text{L})=0.00666$ 10; $\alpha(\text{M})=0.001555$ 23 $\alpha(\text{N})=0.000395$ 6; $\alpha(\text{O})=7.88\times 10^{-5}$ 11; $\alpha(\text{P})=8.46\times 10^{-6}$ 12
5801.9	(21 ⁻)	725.6 [‡] 4	100 [‡]	5076.3	(19 ⁻)	E2 ^{@&}	0.01273 18	$\alpha(\text{K})=0.00976$ 14; $\alpha(\text{L})=0.002255$ 32; $\alpha(\text{M})=0.000546$ 8 $\alpha(\text{N})=0.0001384$ 19; $\alpha(\text{O})=2.67\times 10^{-5}$ 4; $\alpha(\text{P})=2.382\times 10^{-6}$ 33
5892.4+y		374.7 [‡] 5	100 [‡]	5517.7+y		M1(+E2) [@]	0.15 9	$\alpha(\text{K})=0.11$ 8; $\alpha(\text{L})=0.025$ 8; $\alpha(\text{M})=0.0059$ 17 $\alpha(\text{N})=0.0015$ 4; $\alpha(\text{O})=2.9\times 10^{-4}$ 9; $\alpha(\text{P})=2.7\times 10^{-5}$ 14
6076.1		274.1 [‡] 5	100 [‡]	5801.9	(21 ⁻)	D,Q [@]		
6161.6		359.7 [‡] 5	100 [‡]	5801.9	(21 ⁻)	D [@]		
6279.0		477.1 [‡] 5	25 [‡] 17	5801.9	(21 ⁻)			
		1202.7 [‡] 5	100 [‡] 38	5076.3	(19 ⁻)			

Adopted Levels, Gammas (continued)

$\gamma(^{200}\text{Pb})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	α^a	Comments
6321.8+y		429.4 [‡] 5	100 [‡]	5892.4+y		M1(+E2) [@]	0.10 6	$\alpha(\text{K})=0.08$ 5; $\alpha(\text{L})=0.016$ 6; $\alpha(\text{M})=0.0039$ 13 $\alpha(\text{N})=1.00\times 10^{-3}$ 33; $\alpha(\text{O})=2.0\times 10^{-4}$ 7; $\alpha(\text{P})=1.9\times 10^{-5}$ 10
6374.1+z		212.5 [‡] 5	100 [‡]	6161.6+z		M1(+E2) [@]	0.7 4	$\alpha(\text{K})=0.5$ 4; $\alpha(\text{L})=0.1526$ 35; $\alpha(\text{M})=0.0377$ 15 $\alpha(\text{N})=0.0096$ 4; $\alpha(\text{O})=0.00182$ 4; $\alpha(\text{P})=1.4\times 10^{-4}$ 5
6399.1+u		237.5 [‡] 5	100 [‡]	6161.6+u				
6614.4+z		240.3 [‡] 5	100 [‡]	6374.1+z		M1(+E2) [@]	0.51 28	$\alpha(\text{K})=0.38$ 27; $\alpha(\text{L})=0.100$ 10; $\alpha(\text{M})=0.0246$ 12 $\alpha(\text{N})=0.00624$ 32; $\alpha(\text{O})=0.00119$ 11; $\alpha(\text{P})=1.0\times 10^{-4}$ 4
6680.4+u		281.3 [‡] 5	100 [‡]	6399.1+u				
6800.5		521.6 [‡] 5	28 [‡] 12	6279.0				
		638.9 [‡] 5	100 [‡] 28	6161.6		D,Q [@]		
		724.3 [‡] 4	80 [‡] 20	6076.1		D		
		998.6 [‡] 5	15 [‡] 8	5801.9	(21 ⁻)			
6802.4+y		480.6 [‡] 5	100 [‡]	6321.8+y		M1(+E2) [@]	0.08 4	$\alpha(\text{K})=0.06$ 4; $\alpha(\text{L})=0.012$ 5; $\alpha(\text{M})=0.0029$ 10 $\alpha(\text{N})=7.2\times 10^{-4}$ 26; $\alpha(\text{O})=1.4\times 10^{-4}$ 5; $\alpha(\text{P})=1.4\times 10^{-5}$ 7
6897.7+z		283.3 [#] 5	100 [#]	6614.4+z		M1(+E2) [@]	0.32 18	$\alpha(\text{K})=0.24$ 17; $\alpha(\text{L})=0.058$ 11; $\alpha(\text{M})=0.0142$ 21 $\alpha(\text{N})=0.0036$ 5; $\alpha(\text{O})=0.00069$ 13; $\alpha(\text{P})=6.1\times 10^{-5}$ 28
6948.8	(25 ⁻)	148.3 [‡] 5	100 [‡]	6800.5		E1,E2		$\alpha(\text{K})=0.322$ 5; $\alpha(\text{L})=0.712$ 15; $\alpha(\text{M})=0.188$ 4; $\alpha(\text{N}+..)=0.0562$ 12 $\alpha(\text{N})=0.0473$ 10; $\alpha(\text{O})=0.00849$ 18; $\alpha(\text{P})=0.000377$ 8 Mult.: From (HI,xn γ), where DCO=0.94 25 (1994Ba43) supports Mult=E2, but $\alpha(\text{T})_{\text{exp}}=0.141$ 22 in 1988Pa12 favors Mult=E1.
7015.0+u		334.6 [‡] 5	100 [‡]	6680.4+u				
7227.3+z		329.6 [‡] 5	100 [‡]	6897.7+z		M1(+E2) [@]	0.21 12	$\alpha(\text{K})=0.16$ 11; $\alpha(\text{L})=0.036$ 10; $\alpha(\text{M})=0.0088$ 20 $\alpha(\text{N})=0.0022$ 5; $\alpha(\text{O})=4.3\times 10^{-4}$ 11; $\alpha(\text{P})=3.9\times 10^{-5}$ 19
7335.4+y		533.0 5		6802.4+y		M1(+E2) [@]	0.058 33	$\alpha(\text{K})=0.046$ 28; $\alpha(\text{L})=0.009$ 4; $\alpha(\text{M})=0.0021$ 8 $\alpha(\text{N})=5.4\times 10^{-4}$ 21; $\alpha(\text{O})=1.1\times 10^{-4}$ 4; $\alpha(\text{P})=1.1\times 10^{-5}$ 5 E_γ : From (HI,xn γ). E_γ : From (HI,xn γ).
		1014.2 ^b 10		6321.8+y				
7396.4+u		381.4 [‡] 5	100 [‡]	7015.0+u				
7607.4+z		380.1 [‡] 5	100 [‡]	7227.3+z		M1(+E2) [@]	0.14 8	$\alpha(\text{K})=0.11$ 7; $\alpha(\text{L})=0.024$ 8; $\alpha(\text{M})=0.0057$ 16 $\alpha(\text{N})=0.0014$ 4; $\alpha(\text{O})=2.8\times 10^{-4}$ 9; $\alpha(\text{P})=2.6\times 10^{-5}$ 13
7819.9+u		423.5 [‡] 5	100 [‡]	7396.4+u				
7917.5+y		582.1 [‡] 5	100 [‡]	7335.4+y		M1(+E2) [@]	0.046 26	$\alpha(\text{K})=0.037$ 22; $\alpha(\text{L})=0.0070$ 29; $\alpha(\text{M})=0.0017$ 7 $\alpha(\text{N})=4.2\times 10^{-4}$ 17; $\alpha(\text{O})=8.3\times 10^{-5}$ 34; $\alpha(\text{P})=8\text{E}-6$ 4
8046.2+z		438.8 [‡] 5	100 [‡]	7607.4+z		M1(+E2) [@]	0.10 6	$\alpha(\text{K})=0.08$ 5; $\alpha(\text{L})=0.015$ 6; $\alpha(\text{M})=0.0037$ 12 $\alpha(\text{N})=9.4\times 10^{-4}$ 32; $\alpha(\text{O})=1.8\times 10^{-4}$ 7; $\alpha(\text{P})=1.8\times 10^{-5}$ 9

Adopted Levels, Gammas (continued)

$\gamma(^{200}\text{Pb})$ (continued)

$E_i(\text{level})$	$E_\gamma^\dagger$	$I_\gamma^\ddagger$	E_f	J_f^π	Mult. [†]	Comments
8171.0	1222.2 [‡] 5	100 [‡]	6948.8	(25 ⁻)		
8437.4	1488.6 [‡] 5	100 [‡]	6948.8	(25 ⁻)	D [@]	
8549.8+y	632.4 5		7917.5+y			E_γ : From (HI,xn γ).
	1214.3 10		7335.4+y			E_γ : From (HI,xn γ).
8631.0	193.6 [‡] 5	100 [‡]	8437.4			

[†] From ²⁰⁰Bi ε decay (36.4 min), unless otherwise stated.

[‡] From (HI,xn γ).

From ²⁰⁰Hg(α ,4n γ).

@ From DCO and the apparent band structures in (HI,xn γ) (1994Ba43).

& From $\gamma(\theta)$ and the apparent band structures in ²⁰⁰Hg(α ,4n γ) (1987Fa15).

^a Additional information 5.

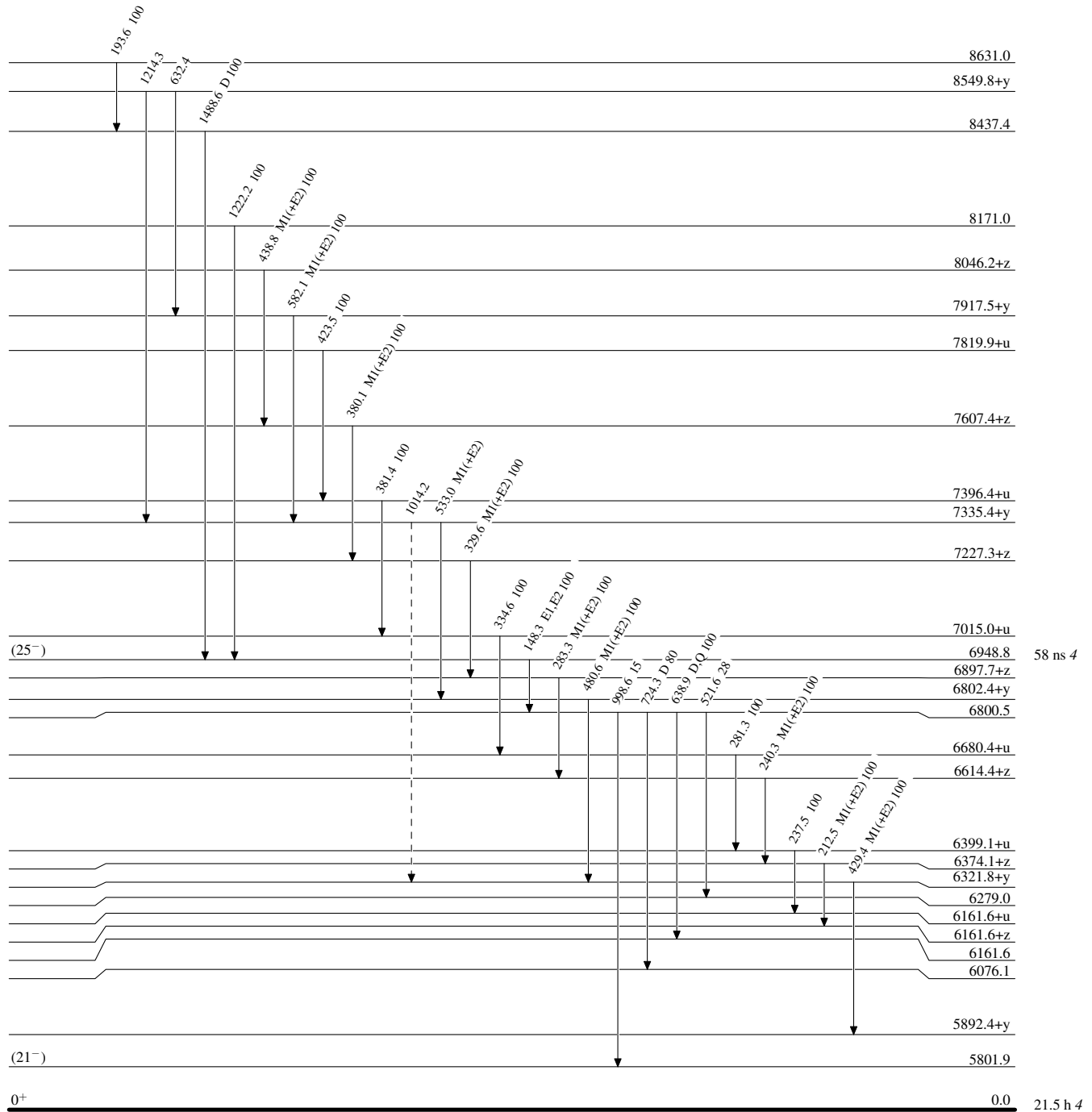
^b Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

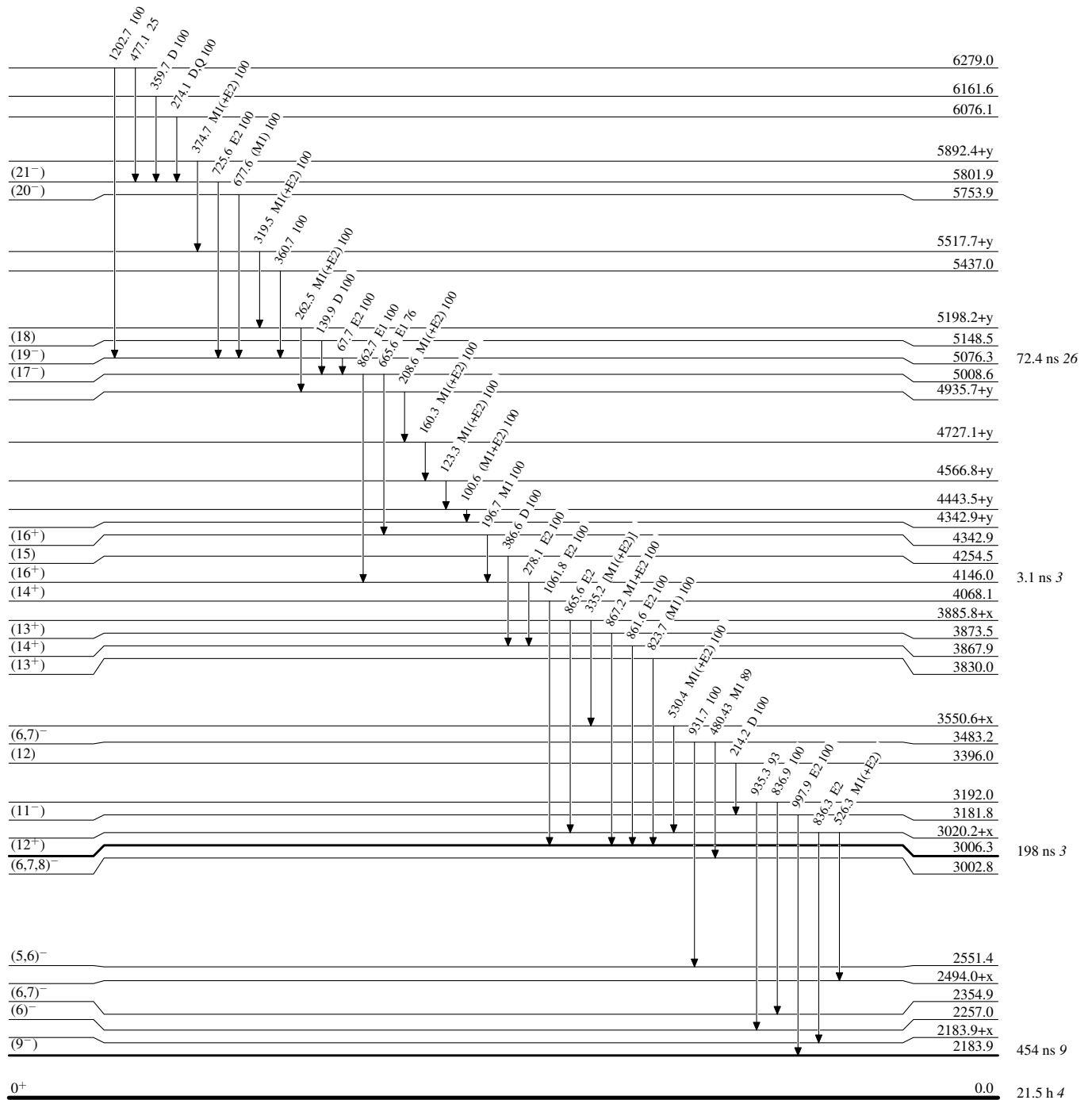
Level Scheme

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)


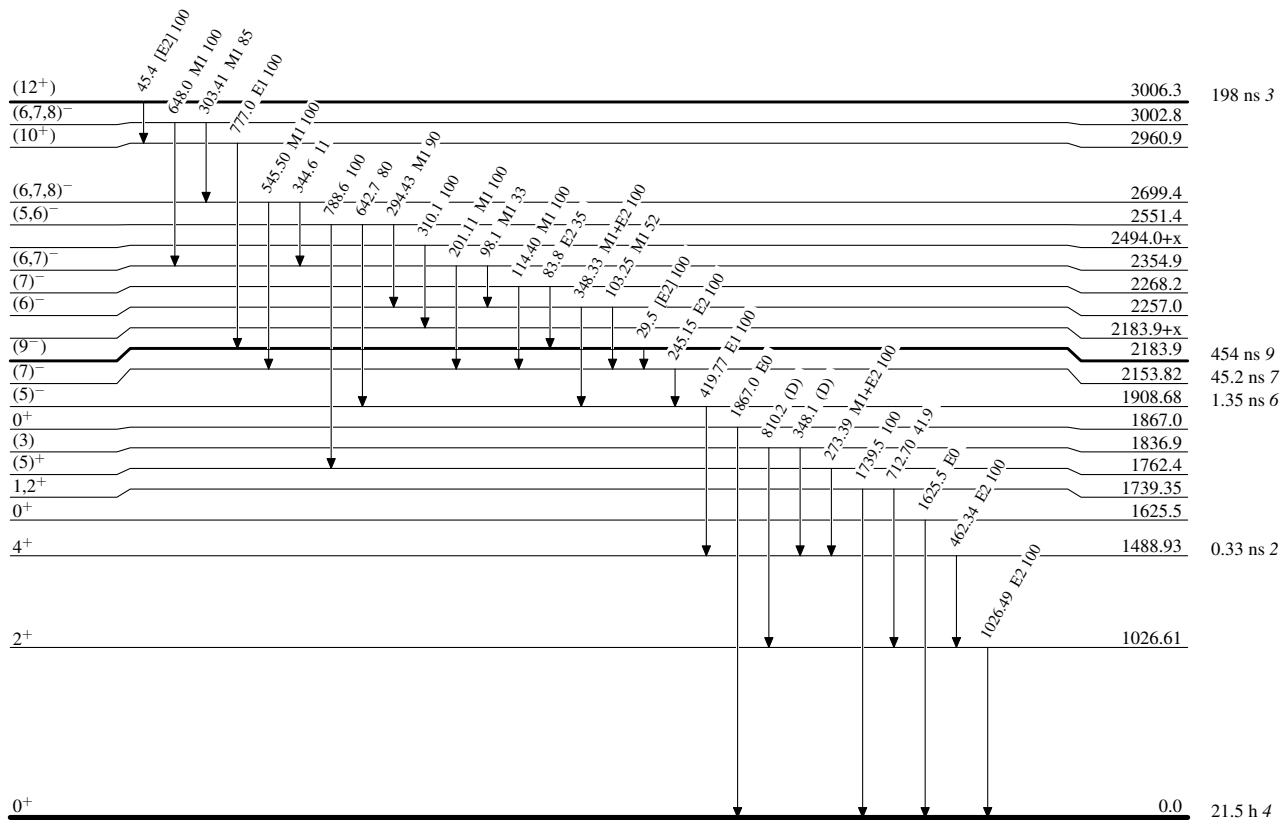
Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

 $^{200}_{82}\text{Pb}_{118}$

Adopted Levels, Gammas

