

$^{198}\text{Pt}(^{18}\text{O},5\gamma),^{205}\text{Tl}(^{11}\text{B},5\gamma)$ **1993Da10,1981Po08**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, Y. J. Chen, S. Enkhbold, G. Khalil, B. Yang		NDS 114, 661 (2013)	28-Feb-2013

Additional information 1.

 ^{211}Rn Levels**1993Da10.**

Target: Enriched ^{198}Pt . Projectile: ^{18}O , E=96 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ coin; $\gamma(\theta)$ at $\theta=\pm 48^\circ$, $\pm 97^\circ$, and $\pm 145^\circ$; $\gamma(t)$; conversion electrons. Deduced γ -ray conversion coefficients, angular distribution coefficients (A_2), multipolarities; levels J^π , and $T_{1/2}$. Detectors: Compton-suppressed array of γ -ray germanium detectors (CAESAR), and a superconducting electron spectrometer. Others: [1990Dr12](#), [1990Dr07](#), [1985Da14](#), [1985Po13](#), [1981Dr10](#), [1981Po08](#).

1981Po08.

Target: 96.4% enriched ^{205}Tl . Projectile: ^{11}B , E≈70 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ coin, $\gamma\gamma(t)$, $n\gamma(t)$, $n\gamma(\theta)$, $\gamma(\theta)$, conversion electrons. Deduced γ -ray conversion coefficients, angular distribution coefficients (A_2), multipolarities, levels J^π and $T_{1/2}$. Detectors: Two germanium detectors for γ rays, and an NE213 liquid scintillator detector for neutrons.

Other reactions: $^{204}\text{Hg}(^{12}\text{C},5\gamma)$ ([1985Po06](#));

J^π assignments are based on γ -ray multipolarities, excitation functions, angular distribution measurements, and on level half-lives. g-factor values are from $\gamma(\theta,\text{H},t)$ measurements of [1985Po06](#). The level scheme is from [1993Da10](#). Shell model configurations (given here under comments) are mostly from [1993Da10](#) and [1981Po08](#). These assignments are based on shell-model calculations and comparisons with similar levels and de-exciting transitions in the core nuclides ^{210}Rn and ^{212}Rn . Others: [1993Da10](#), [1985Po06](#).

Other reactions: $^{204}\text{Hg}(^{12}\text{C},5\gamma)$ ([1985Po06](#)). $^{198}\text{Pt}(^{18}\text{O},5\gamma)$, E=96 MeV ([2004Km01](#); 201-ns isomer observed through 1062-687 cascade).

E(level) ^{†‡}	J^π	$T_{1/2}$ [#]	Comments
0.0	$1/2^-$		Configuration=(($\pi h_{9/2}$) ₀₊ ⁺⁴ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10).
539.9 2	$5/2^-$	≤ 4 @ ns	Configuration=(($\pi h_{9/2}$) ₀₊ ⁺⁴ ($\nu f_{5/2}$) ⁻¹) (1981Po08,1993Da10).
1458.1 2	$9/2^-$		Configuration=(($\pi h_{9/2}$) ₀₊ ⁺⁴ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10).
1577.7 2	$13/2^-$		Configuration=(($\pi h_{9/2}$) ₆₊ ⁺⁴ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10).
1577.7+x	$(17/2^-)$	596 @ ns 28	Additional information 2. E(level): x ≤ 50 keV, based on the nonobservation of photons of mult=E2. J^π : Assigned as definite in 1993Da10 γ -ray transition (1981Po08). g-factor=+0.912 9 $\gamma(\theta,\text{H},t)$ (1985Po06). Configuration=(($\pi h_{9/2}$) ₈₊ ⁺⁴ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10). E(level): or 1993.2+x, if 415.4-120.8 cascade is reversed (1993Da10). Configuration=(($\pi h_{9/2}$) ₈₊ ⁺⁴ ($\nu p_{1/2}$) ⁻¹) (?) (1993Da10). Configuration=(($\pi h_{9/2}$) ₈₊ ⁺⁴ ($\nu f_{5/2}$) ⁻¹) (1981Po08,1993Da10). Configuration=(($\pi h_{9/2}$) ₈₊ ⁺³ ($\pi i_{13/2}$) ₁₁₋ ⁺¹ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₂₊ ⁺⁴ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10). Configuration=(($\pi h_{9/2}$) ₁₂₊ ⁺³ ($\pi i_{13/2}$) ₁₁₋ ⁺¹ ($\nu f_{5/2}$) ⁻¹) (1993Da10). Configuration=π($h_{9/2}^3 f_{7/2}$) ₁₂₊ $\nu p_{1/2}^{-1}$ + π($h_{9/2}^4$) ₁₂₊ $\nu p_{1/2}^{-1}$ (1993Da10). Configuration=(($\pi h_{9/2}$) ⁺³ ($\pi f_{7/2}$) ₁₄₊ ⁺¹ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10). Configuration=(($\pi h_{9/2}$) ⁺³ ($\pi i_{13/2}$) ₁₁₋ ⁺¹ ($\nu f_{5/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ⁺³ ($\pi i_{13/2}$) ₁₅₋ ⁺¹ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10). Configuration=(($\pi h_{9/2}$) ⁺³ ($\pi i_{13/2}$) ₁₇₋ ⁺¹ ($\nu p_{1/2}$) ⁻¹) (1981Po08,1993Da10). E(level): or 4058.8+x if 132.7-415.1 γ -ray cascade is reversed.
1698.7+x? 2	$(15/2^-)$		Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{5/2}$) ⁻¹) (?) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{7/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{7/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{7/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{7/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{7/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu p_{1/2}$) ⁻¹) (1993Da10). Configuration=(($\pi h_{9/2}$) ₁₀₋ ⁺³ ($\nu f_{7/2}$) ⁻¹) (1993Da10). 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$^{198}\text{Pt}(^{18}\text{O},5\gamma),^{205}\text{Tl}(^{11}\text{B},5\gamma)$ 1993Da10,1981Po08 (continued) **^{211}Rn Levels (continued)**

E(level) ^{†‡}	J ^π	T _{1/2} [#]	Comments
4509.7+x 3	(37/2 ⁺)		Configuration=((π h _{9/2}) ⁺³ (π i _{13/2}) ₁₆₋ ⁺¹ (ν f _{5/2}) ⁻¹) (1993Da10).
4550.4+x 3			Configuration=((π h _{9/2}) ⁺³ (π i _{13/2}) ₁₇₋ ⁺¹ (ν f _{5/2}) ⁻¹) (1993Da10).
4920.6+x 3	(39/2 ⁺)		Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₁₇₋ ⁺¹ (ν f _{7/2}) ₁₈₋ ⁺¹ (ν f _{5/2}) ⁻¹) (?) (1993Da10).
4960.9+x 3	(37/2)		Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ⁺¹ (π f _{7/2}) ₁₇₋ ⁺¹ (ν f _{5/2}) ⁻¹) (1993Da10).
5160.0+x 4	(41/2)		Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ⁺¹ (ν p _{1/2}) ₁₈₋ ⁻¹ (ν f _{5/2}) ⁻¹) (1993Da10).
5239.8+x 3	(39/2 ⁻)	≤7@ ns	Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₁₉₊ ⁺² (ν p _{1/2}) ⁻¹) (1993Da10).
5245.8+x 3	(41/2 ⁻)	3.5 ns 14	Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₂₀₊ ⁺² (ν p _{1/2}) ⁻¹) (1993Da10).
5245.8+y	(43/2 ⁻)	14@ ns 2	Additional information 3. Configuration=((π h _{9/2}) ⁺³ (π i _{13/2}) ₁₇₋ ⁺¹ (ν g _{9/2}) ⁺¹ (ν p _{1/2}) ₀₊ ⁻²) (1993Da10). T _{1/2} : from 1985Po06 . g-factor=+0.74 2, γ(θ,H,t) (1985Po06). Configuration=((π h _{9/2}) ⁺³ (π i _{13/2}) ₁₇₋ ⁺¹ (ν i _{11/2}) ⁺¹ (ν p _{1/2}) ₀₊ ⁻²) (1993Da10). Configuration=π(h _{9/2} ³ i _{13/2}) ₁₇₋ ν(j _{15/2} (p _{1/2}) ₀₊ ⁻²) (?) (1993Da10). g-factor=+0.766 8, γ(θ,H,t) (1985Po06).
5733.7+y 2	(45/2 ⁻)		Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₂₀₊ ⁺² (ν i _{11/2}) ⁺¹ (ν p _{1/2}) ₀₊ ⁻²) (1993Da10).
6100.3+y 2	(49/2 ⁺)	28.4 ns 14	Configuration=π(h _{9/2} ³ i _{13/2}) ₁₇₋ ν(j _{15/2} (p _{1/2}) ₀₊ ⁻²) + π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(g _{9/2} (p _{1/2}) ₀₊ ⁻²) (1993Da10). g-factor=+0.74 2, γ(θ,H,t) (1985Po06).
6577.9+y 2	(49/2 ⁻)		Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₂₀₊ ⁺² (ν i _{11/2}) ⁺¹ (ν p _{1/2}) ₀₊ ⁻²) (1993Da10).
6713.8+y 2	(51/2 ⁺)		Configuration=π(h _{9/2} ² i _{13/2}) ₁₈₋ ν(j _{15/2} (p _{1/2}) ₀₊ ⁻²) (?) (1993Da10).
7003.7+y 2	(51/2 ⁺)		Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₂₀₊ ⁺² (ν j _{15/2}) ⁺¹ (ν p _{1/2}) ₀₊ ⁻²) (1993Da10).
7398.8+y 2	(55/2 ⁻)	1.5 ns 4	Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(i _{11/2} f _{5/2} ⁻¹ p _{1/2}) or configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(g _{9/2} f _{5/2} ⁻²) (?) (1993Da10).
7593.8+y 3	(53/2 ⁺)		Configuration=π(h _{9/2} ³ i _{13/2}) ₁₇₋ ν(g _{9/2} i _{11/2} f _{5/2} ⁻¹ p _{1/2}) (1993Da10).
7630.2+y 3			Configuration=((π h _{9/2}) ⁺² (π i _{13/2}) ₂₀₊ ⁺² (ν i _{11/2}) ⁺¹ (ν p _{1/2}) ₀₊ ⁻²) (1993Da10).
8162.1+y 4			Configuration=π(h _{9/2} ³ i _{13/2}) ₁₈₋ ν(j _{15/2} f _{5/2} ⁻¹ p _{1/2}) ₀₊) (1993Da10).
8167.4+y 3	(57/2 ⁺)	2.3 ns 2	Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} f _{5/2} ⁻¹ p _{1/2}) ₀₊ or configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} f _{5/2} ⁻²) (?) (1993Da10).
8304.2+y 3	(57/2 ⁻)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} (p _{1/2}) ₀₊ ⁻²) (?) (1993Da10).
8328.2+y 2	(53/2 ⁻)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} (p _{1/2}) ₀₊ ⁻²) or configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} f _{5/2} ⁻¹ p _{1/2}) ₀₊ (?) (1993Da10).
8611.1+y 4			Q=1.60 22 (1985Da14)
8757.9+y 4			Configuration=π(h _{9/2} ³ i _{13/2}) ₁₇₋ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) + π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(g _{9/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) (1993Da10). g-factor=+0.626 7, γ(θ,H,t) (1985Po06).
8854.4+y 4	(63/2 ⁻)	201 ns 4	T _{1/2} : from 1985Po06 . Other: 263 ns 14 (1981Dr10).
8925.7+y 4			Configuration=π(h _{9/2} ³ i _{13/2}) ₁₇₋ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) + π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(g _{9/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) (1993Da10). E(level): 9149.2+y given by authors (1993Da10).
9915.3+y 4	(69/2 ⁺)	9.0 ns 7	Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) (1993Da10). T _{1/2} : From 1990Drf2 , 1990Dr07 .
9918.0+y 4	(65/2 ⁺)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) (1993Da10).
10814.2+y 5	(69/2 ⁺)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) (1993Da10).
11034.4+y 5	(71/2)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) or ν(j _{15/2} f _{5/2} ⁻¹ p _{1/2}) ₀₊ ⁻² or ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ p _{1/2}) ₀₊ ⁻² or ν(j _{15/2} i _{11/2} f _{5/2} ⁻² p _{1/2}) ₀₊ ⁻² (1993Da10).
11081.7+y 5	(71/2)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) or ν(j _{15/2} f _{5/2} ⁻¹ p _{1/2}) ₀₊ ⁻² or ν(j _{15/2} i _{11/2} f _{5/2} ⁻² p _{1/2}) ₀₊ ⁻² (1993Da10).
11231.9+y 5	(73/2)		Configuration=π(h _{9/2} ² i _{13/2}) ₂₀₊ ν(j _{15/2} i _{11/2} f _{5/2} ⁻¹ (p _{1/2}) ₀₊ ⁻²) (1993Da10).

[†] Additional information 4.[‡] Deduced by evaluator from a least-squares fit to γ-ray energies using an uncertainty of 0.2 keV (given by authors) for all the γ

Continued on next page (footnotes at end of table)

 $^{198}\text{Pt}(^{18}\text{O},5\text{n}\gamma),^{205}\text{Tl}(^{11}\text{B},5\text{n}\gamma)$ **1993Da10,1981Po08 (continued)**

 ^{211}Rn Levels (continued)

rays.

[#] From 1985Po13, unless otherwise specified.

[@] From 1981Po08.

$^{198}\text{Pt}(^{18}\text{O},5\text{n}\gamma),^{205}\text{Tl}(^{11}\text{B},5\text{n}\gamma)$ **1993Da10,1981Po08 (continued)**

$\gamma(^{211}\text{Rn})$

Others: [1990Dr12](#), [1985Po13](#), [1981Dr10](#), [1981Po08](#).

γ -ray intensities from $^{205}\text{Tl}(^{11}\text{B},5\text{n}\gamma)$ E=72 MeV ([1981Po08](#))

E γ	I γ	E γ	I γ
81.7 2	5.3 10	569.9 1	62 3
119.6 1	21.9 12	583.6 2	8.7 12
325.1 2	\approx 11	584.2 1	65 3
411.0 2	8.7 10	601.0 1	47.8 24
466.6 2	6.0 7	730.2 1	7.5 7
502.9 1	8.7 10	854.1 1	16.3 12
511.5 1	\approx 48	918.3 1	100 5
536.1 2	14.7 14	1298.6 2	5.8 10
539.9 1	100 5	1319.9 2	11.5 12

4

E γ^a	I γ^a	E i (level)	J $^\pi_i$	E f	J $^\pi_f$	Mult. a	α^\dagger	Comments
(y)		5245.8+y	(43/2 $^-$)	5245.8+x	(41/2 $^-$)			
(6.0)		5245.8+x	(41/2 $^-$)	5239.8+x	(39/2 $^-$)			
(27.0)		3243.2+x	(29/2 $^-$)	3216.3+x	(25/2 $^-$)	[E2]	4.56×10^3	
(33.0)		2147.5+x	(21/2 $^-$)	2114.2+x	(19/2 $^-$)			
(52.0)		3925.9+x	(35/2 $^+$)	3873.8+x				
81.7	55 8	3925.9+x	(35/2 $^+$)	3844.2+x	(31/2 $^+$)	E2	20.9 4	B(E2)(W.u.)=2.4 5 Mult.: From RUL and $\alpha(\text{exp})>10.5$ 17, deduced from γ -ray transition intensity balance (1981Po08). $\alpha(\text{exp})=11.4$ 17, deduced by evaluator from γ -ray transition intensity balance using γ -ray data from 1993Da10 .
(92.0)		4509.7+x	(37/2 $^+$)	4417.7+x	(37/2 $^+$)			
^x 113.9 @	1.0 2	3243.2+x	(29/2 $^-$)	3127.1+x	(25/2 $^+$)	(M2)	60.2	Mult.: Branching deduced from intensity balance and nonobservation of a γ ray suggests mult=M2 or E3, the latter seems unlikely from systematics of E3 transition strengths in this region (1993Da10). However, the B(M2)(W.u.) of 4.1 12 exceeds RUL of 1.00 by 2 to 3 sigma.
(116.0)								
119.6	235 11	1577.7	13/2 $^-$	1458.1	9/2 $^-$	E2	3.88	Mult.: A ₂ =-0.04 3 (1993Da10). $\alpha(\text{exp})=3.2$ 2 deduced by evaluator from γ -ray transition intensity balance. $\alpha(\text{exp})=4.3$ 4 (1981Po08).
120.8 [‡]	1.5 [#] 5	1698.7+x?	(15/2 $^-$)	1577.7+x	(17/2 $^-$)			
132.7	7 [#] 2	4473.8+x	(37/2 $^+$)	4341.0+x?				A ₂ =+0.020 19 (1993Da10).
132.8	1.4 [#] 6	4550.4+x		4417.7+x	(37/2 $^+$)			
136.1	15 [#] 5	6713.8+y	(51/2 $^+$)	6577.9+y	(49/2 $^-$)	E1	0.220	Mult.: A ₂ =-0.20 9, $\alpha(\text{exp})=0.5$ 3 (1993Da10).

$^{198}\text{Pt}(^{18}\text{O},5\text{n}\gamma),^{205}\text{Tl}(^{11}\text{B},5\text{n}\gamma)$ **1993Da10,1981Po08 (continued)**

$\gamma(^{211}\text{Rn})$ (continued)									
E_γ^a	I_γ^a	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^a	δ	α^\dagger	Comments
146.8 [‡]	5# 1	8757.9+y		8611.1+y		E1		0.183	Mult.: $A_2=-0.22$ 12, $\alpha(\text{exp})=0.2$ 5 (or 1.1 6) (1993Da10).
150.2 [‡]	1.4# 3	11231.9+y	(73/2)	11081.7+y	(71/2)				
^x 169.8 [@]	1.2 3								
220.2	1.3# 4	11034.4+y	(71/2)	10814.2+y	(69/2 ⁺)				Mult.: $A_2=-0.22$ 6 (1993Da10).
239.4 [‡]	13 1	5160.0+x	(41/2)	4920.6+x	(39/2 ⁺)	D			Mult.: $A_2=-0.19$ 6 (1993Da10).
278.9	10# 2	5239.8+x	(39/2 ⁻)	4960.9+x	(37/2)	D			Mult.: $A_2=-0.35$ 11 (1993Da10).
282.9 [‡]	5# 2	8611.1+y		8328.2+y	(53/2 ⁻)	D			Mult.: $A_2=+0.16$ 12, $\alpha(\text{K})\text{exp}=0.55$ 8 (1993Da10).
292.6	8# 1	9147.3+y	(63/2 ⁻)	8854.4+y	(63/2 ⁻)	(M1)		0.640	Mult.: $A_2=-0.41$ 23, $\alpha(\text{K})\text{exp}=0.8$ 1 (1993Da10).
308.9	7# 2	3426.2+x	(27/2 ⁺)	3117.3+x	(25/2 ⁺)	M1		0.551	B(E1)(W.u.)=7.E-7 3
325.2	220 20	5245.8+x	(41/2 ⁻)	4920.6+x	(39/2 ⁺)	E1		0.0277	Mult.: $A_2=+0.10$ 2 (1993Da10). $A_2=-0.02$ 1, $A_4=-0.02$ 2. $\alpha(\text{K})\text{exp}\leq 0.023$ (1981Po08).
^x 339.9 [@]	2.7 6								
366.3	27 3	6100.3+y	(49/2 ⁺)	5733.7+y	(45/2 ⁻)	M2		1.121	B(M2)(W.u.)=0.25 3 Mult.: $A_2=+0.30$ 9; $\alpha(\text{K})\text{exp}=1.0$ 1, $\alpha(\text{L})\text{exp}=0.24$ 2, $\alpha(\text{M})\text{exp}=0.08$ 1 (1993Da10).
410.7	20# 4	4960.9+x	(37/2)	4550.4+x					
411.1	2 1.4×10 ² 4	4920.6+x	(39/2 ⁺)	4509.7+x	(37/2 ⁺)	M1		0.254	Mult.: $A_2=-0.07$ 5 (1993Da10). $A_2=-0.26$ 2, $A_4=-0.03$ 3. $\alpha(\text{K})\text{exp}=0.27$ 3 (1981Po08).
415.1	23# 5	4341.0+x?		3925.9+x	(35/2 ⁺)				
415.4 [‡]	6# 3	2114.2+x	(19/2 ⁻)	1698.7+x?	(15/2 ⁻)				
418.0	18 3	3844.2+x	(31/2 ⁺)	3426.2+x	(27/2 ⁺)	[E2]		0.0548	B(E2)(W.u.)>0.0076
^x 430.0 [@]	3.6 4								
467.0	31 2	3117.3+x	(25/2 ⁺)	2650.2+x	(23/2 ⁺)	M1		0.180 3	$\alpha(\text{K})=0.1460$ 21; $\alpha(\text{L})=0.0259$ 4; $\alpha(\text{M})=0.00613$ 9; $\alpha(\text{N}+..)=0.00200$ 3 $\alpha(\text{N})=0.001596$ 23; $\alpha(\text{O})=0.000349$ 5; $\alpha(\text{P})=5.11\times 10^{-5}$ 8 Mult.: $A_2=-0.33$ 7 (1993Da10). $A_2=-0.79$ 4, $A_4=+0.09$ 6. $\alpha(\text{K})\text{exp}=0.17$ 2 (1981Po08).
478.0	30 2	6577.9+y	(49/2 ⁻)	6100.3+y	(49/2 ⁺)	(D+Q)			Mult.: $A_2=+0.40$ 12 (1993Da10).
487.8	58 5	5733.7+y	(45/2 ⁻)	5245.8+y	(43/2 ⁻)	M1		0.1602	Mult.: $A_2=-0.33$ 6, $\alpha(\text{K})\text{exp}=0.20$ 1 (1993Da10).
492.0	8# 2	4417.7+x	(37/2 ⁺)	3925.9+x	(35/2 ⁺)	[M1]		0.1566	
502.7	47 3	2650.2+x	(23/2 ⁺)	2147.5+x	(21/2 ⁻)	E1		0.01089	B(E1)(W.u.)=2.15×10 ⁻⁷ 22 Mult.: $A_2=-0.03$ 7, $\alpha(\text{K})\text{exp}<0.04$ (1993Da10). $A_2=-0.15$ 4, $A_4=0.00$ 5. $\alpha(\text{K})\text{exp}\leq 0.023$ (1981Po08).
511.5	700 10	3243.2+x	(29/2 ⁻)	2731.7+x	(25/2 ⁻)	E2		0.0333	B(E2)(W.u.)=0.078 18 Mult.: $A_2=+0.16$ 2 (1993Da10). $A_2=+0.13$ 1, $A_4=+0.01$ 2. $\alpha(\text{K})\text{exp}=0.024$ 3 (1981Po08).
531.6	5 1	8162.1+y		7630.2+y					
536.3	158 4	2114.2+x	(19/2 ⁻)	1577.7+x	(17/2 ⁻)	(M1+E2)	2.46 15	0.0433 17	Mult.: $A_2=-0.10$ 2, $A_4=+0.21$ 3 (1981Po08). $A_2=+0.02$

$^{198}\text{Pt}(\text{O},\text{5n}\gamma), ^{205}\text{Tl}(\text{B},\text{5n}\gamma)$ **1993Da10,1981Po08 (continued)**

$\gamma(^{211}\text{Rn})$ (continued)								
E_γ^a	I_γ^a	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^a	α^\dagger	Comments
537.1	11 3	8167.4+y	(57/2 ⁺)	7630.2+y				$5, \alpha(\text{K})\exp=0.032$ 4 (1993Da10). δ : deduced by evaluators from BrIccMixing.
539.9	1000	539.9	5/2 ⁻	0.0	1/2 ⁻	E2	0.0294	B(E2)(W.u.)>0.040
548.0	47 10	4473.8+x	(37/2 ⁺)	3925.9+x	(35/2 ⁺)	M1	0.1175	Mult.: $A_2=+0.15$ 2 (1993Da10). $A_2=+0.09$ 1, $A_4=-0.02$ 1. $\alpha(\text{K})\exp=0.024$ 3 (1981Po08).
569.9	709 9	2147.5+x	(21/2 ⁻)	1577.7+x	(17/2 ⁻)	E2	0.0260	B(E2)(W.u.)>0.031
								Mult.: $A_2=0.14$ 2 (1993Da10). $A_2=0.28$ 1, $A_4=-0.07$ 1. $\alpha(\text{K})\exp=(0.019$ 2) (1981Po08).
583.7	296# 8	4509.7+x	(37/2 ⁺)	3925.9+x	(35/2 ⁺)	(M1)&	0.0994	E_γ, I_γ : from P.M. Davidson's Masters Thesis, University of Auckland, Australia (1990). This γ ray not listed in 1993Da10 .
584.2	709 13	2731.7+x	(25/2 ⁻)	2147.5+x	(21/2 ⁻)	E2&	0.0246	B(E2)(W.u.)>0.036
								$A_2=+0.19$ 1, $A_4=-0.06$ 1 (1981Po08).
601.0	674 9	3844.2+x	(31/2 ⁺)	3243.2+x	(29/2 ⁻)	E1	0.00761	B(E1)(W.u.)> 4.2×10^{-7}
								Mult.: $A_2=-0.09$ 3 (1993Da10). $A_2=-0.11$ 1, $A_4=+0.01$ 2. $\alpha(\text{K})\exp=0.0053$ 8 (1981Po08).
613.7	73 1	6713.8+y	(51/2 ⁺)	6100.3+y	(49/2 ⁺)	M1	0.0871	Mult.: $A_2=-0.90$ 6; $\alpha(\text{K})\exp=0.11$ 2, $\alpha(\text{L})\exp=0.046$ 9 (1993Da10).
624.7	8# 2	4550.4+x		3925.9+x	(35/2 ⁺)			
630.6#	38 2	3873.8+x		3243.2+x	(29/2 ⁻)			$A_2=+0.38$ 18 (1993Da10).
685.2	40 2	7398.8+y	(55/2 ⁻)	6713.8+y	(51/2 ⁺)	M2	0.1672	B(M2)(W.u.)=0.59 16
								Mult.: $A_2=+0.28$ 13; $\alpha(\text{K})\exp=0.19$ 4, $\alpha(\text{L})\exp=0.07$ 1 (1993Da10).
687.0	128 4	8854.4+y	(63/2 ⁻)	8167.4+y	(57/2 ⁺)	E3	0.0488	B(E3)(W.u.)=30.2 6
								Mult.: $A_2=+0.10$ 4 (1993Da10).
730.0	120 2	5239.8+x	(39/2 ⁻)	4509.7+x	(37/2 ⁺)	E1	0.00524	B(E1)(W.u.)> 6.4×10^{-8}
								Mult.: $A_2=-0.10$ 4 (1993Da10). $A_2=-0.13$ 3, $A_4=+0.05$ 4. $\alpha(\text{K})\exp<0.005$ (1981Po08).
x732.2@	2.3 5							
758.3	10 2	8925.7+y		8167.4+y	(57/2 ⁺)			
768.7	160 3	8167.4+y	(57/2 ⁺)	7398.8+y	(55/2 ⁻)	(E1)	0.00476	B(E1)(W.u.)= 1.70×10^{-7} 16
								Mult.: $A_2=-0.10$ 3 (1993Da10).
772.1	11 4	5245.8+x	(41/2 ⁻)	4473.8+x	(37/2 ⁺)	[M2]	0.1190	B(M2)(W.u.)=0.020 11
								E_γ : $E_\gamma=772.1$ keV (Table 1), $E_\gamma=772.1$ keV (level scheme) (1993Da10).
773.1	7 4	9627.5+y		8854.4+y	(63/2 ⁻)			
776.1	11 1	3426.2+x	(27/2 ⁺)	2650.2+x	(23/2 ⁺)	(E2)	0.01342	Mult.: $A_2=+0.12$ 14, $\alpha(\text{K})\exp<0.01$ (1993Da10).
854.3 2	442 7	6100.3+y	(49/2 ⁺)	5245.8+y	(43/2 ⁻)	E3	0.0280	B(E3)(W.u.)=42.1 24
								Mult.: $A_2=+0.21$ 3 (1993Da10). $A_2=+0.40$ 2, $A_4=-0.03$ 2. $\alpha(\text{K})\exp=0.0198$ 18, $\alpha(\text{L})\exp=0.0059$ 13 (1981Po08).
880.0 2	22 2	7593.8+y	(53/2 ⁺)	6713.8+y	(51/2 ⁺)	M1	0.0338	Mult.: $A_2=-0.28$ 13, $\alpha(\text{K})\exp=0.028$ 3 (1993Da10).
896.2	6.1# 8	10814.2+y	(69/2 ⁺)	9918.0+y	(65/2 ⁺)	(E2)	0.01006	Mult.: $\alpha(\text{K})\exp=0.012$ 3 (1993Da10). The $\alpha(\text{K})\exp$ is also consistent with M1+E2, $\delta=1.8$ 4.
903.7	54 3	7003.7+y	(51/2 ⁺)	6100.3+y	(49/2 ⁺)	M1	0.0316	Mult.: $A_2=-0.44$ 7; $\alpha(\text{K})\exp=0.044$ 4, $\alpha(\text{L})\exp=0.008$ 1 (1993Da10).

$^{198}\text{Pt}(^{18}\text{O},5\gamma), ^{205}\text{Tl}(^{11}\text{B},5\gamma)$ 1993Da10,1981Po08 (continued)

$\gamma(^{211}\text{Rn})$ (continued)									
E_γ^a	I_γ^a	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^a	δ	α^\dagger	Comments
905.4	35 4	8304.2+y	(57/2 ⁻)	7398.8+y	(55/2 ⁻)	M1		0.0314	Mult.: $A_2=-0.97$ 10, $\alpha(K)\exp=0.033$ 5 (1993Da10).
916.3	32 3	7630.2+y		6713.8+y	(51/2 ⁺)				
^x 916.5 @	3.6 8								
918.3	979 7	1458.1	9/2 ⁻	539.9	5/2 ⁻	E2		0.00959	Mult.: $A_2=+0.10$ 2 (1993Da10). $A_2=+0.10$ 1, $A_4=-0.03$ 1. $\alpha(K)\exp=0.0071$ 3, $\alpha(L)\exp=0.0016$ 3 (1981Po08).
929.4	25 1	8328.2+y	(53/2 ⁻)	7398.8+y	(55/2 ⁻)	M1		0.0294	Mult.: $A_2=-0.77$ 7, $\alpha(K)\exp=0.032$ 5 (1993Da10).
^x 952.2 @	4 1								
979.5	30 1	3127.1+x	(25/2 ⁺)	2147.5+x	(21/2 ⁻)				
994.7	33 1	4920.6+x	(39/2 ⁺)	3925.9+x	(35/2 ⁺)	(E2)		0.00821	Mult.: $A_2=-0.14$ 9, $\alpha(K)\exp=0.0082$ 6 (1993Da10).
1034.9	10 1	4960.9+x	(37/2)	3925.9+x	(35/2 ⁺)	(D)			Mult.: $A_2=-0.32$ 22 (1993Da10).
1060.9	31 1	9915.3+y	(69/2 ⁺)	8854.4+y	(63/2 ⁻)	E3		0.01691	B(E3)(W.u.)=33 3 Mult.: $A_2=+0.45$ 9; $\alpha(K)\exp=0.0131$ 7, $\alpha(L)\exp=0.0033$ 3, $\alpha(M)\exp=0.0011$ 2 (1993Da10).
1063.6	14 1	9918.0+y	(65/2 ⁺)	8854.4+y	(63/2 ⁻)	E1(+M2)	0.23 1	0.00498 21	Mult.: $A_2=-0.37$ 18, $\alpha(K)\exp=0.004$ 2 (1993Da10). Originally proposed (1993Da10) as pure E1, but both A_2 and $\varepsilon K(\exp)$ are consistent with a small M2 admixture.
1068.9 [†]	38 1	3216.3+x	(25/2 ⁻)	2147.5+x	(21/2 ⁻)	E2		0.00715	Mult.: $A_2=+0.23$ 8, $\alpha(K)\exp=0.0063$ 14 (1993Da10).
1072.6	1.4 # 5	2650.2+x	(23/2 ⁺)	1577.7+x	(17/2 ⁻)	[E3]		0.01650	B(E3)(W.u.)=1.2 5
^x 1156.0 @	3.4 6								
1166.4 [‡]	6 # 4	11081.7+y	(71/2)	9915.3+y	(69/2 ⁺)				B(E3)(W.u.)=40 11
1298.6	215 2	7398.8+y	(55/2 ⁻)	6100.3+y	(49/2 ⁺)	E3		0.01086	Mult.: $A_2=+0.27$ 3 (1993Da10). $A_2=+0.40$ 4, $A_4=-0.04$ 6. $\alpha(K)\exp=0.0099$ 12 (1981Po08).
1319.9	255 2	5245.8+x	(41/2 ⁻)	3925.9+x	(35/2 ⁺)	E3		0.01049	B(E3)(W.u.)=10 4 Mult.: $A_2=+0.23$ 3 (1993Da10). $A_2=+0.48$ 2, $A_4=-0.02$ 4. $\alpha(K)\exp=0.0070$ 11 (1981Po08).
1324.6	13 2	8328.2+y	(53/2 ⁻)	7003.7+y	(51/2 ⁺)	(D)			Mult.: $A_2=-0.58$ 15, $\alpha(K)\exp<0.06$ (1993Da10).

[†] Additional information 5.[‡] Placement in the level scheme is uncertain.

From coincidence measurement.

@ γ ray de-excites a level above the 8854.7+y (290 ns) level. $I\gamma$ is from coincidence measurement.& $\alpha(K)\exp=0.029$ 3 and $\alpha(L)\exp=0.0071$ 12 measured for the 583.7 γ + 584.2 γ doublet is consistent with 583.7 γ (M1) and 584.2 γ (E2) (1981Po08).^a From $^{198}\text{Pt}(^{18}\text{O},5\gamma)$ (1993Da10), unless otherwise specified.^x γ ray not placed in level scheme.

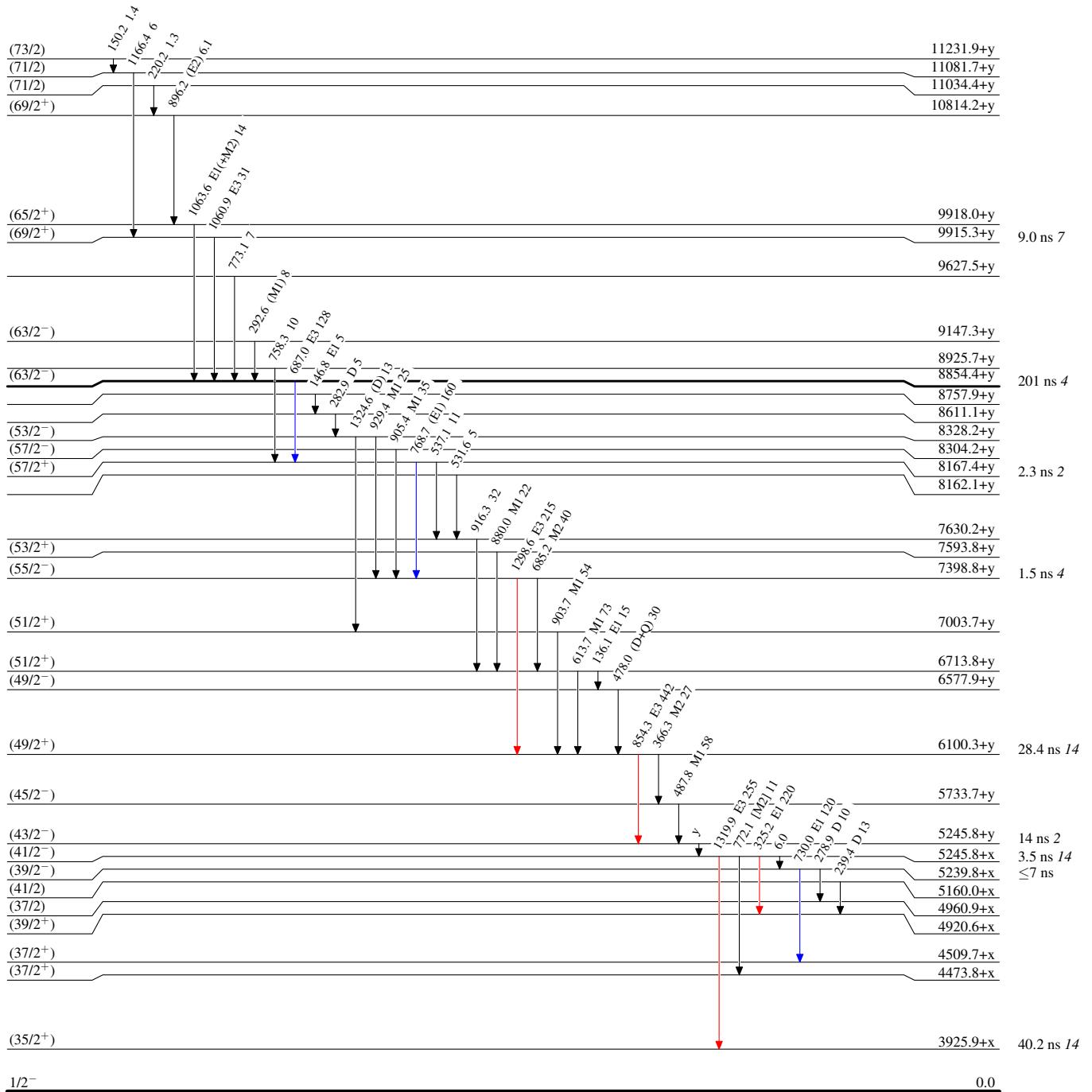
$^{198}\text{Pt}(^{18}\text{O},5\gamma), ^{205}\text{Tl}(^{11}\text{B},5\gamma)$ 1993Da10, 1981Po08

Legend

Level Scheme

Intensities: Relative I_γ

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



$^{198}\text{Pt}(^{18}\text{O}, 5n\gamma), ^{205}\text{Tl}(^{11}\text{B}, 5n\gamma)$ 1993Da10, 1981Po08

Level Scheme (continued)

Intensities: Relative I_y

Legend

