

$$^{196}_{84}\text{Po}$$

E^*	J^π	$T_{1/2}$ or
[keV]		Γ_{cm}
0.0	0^+	$5.8(2) \text{ s}$
463.1(1)	2^+	
558(7)	0^+	
859.1(1)	2^+	$<12 \text{ ns}$
890.97(12)	4^+	
1387.72(13)	4^+	
1390.08(15)	6^+	
1801.99(15)	5^-	
1940.30(19)	8^+	
1974.22(23)	8^+	
2039.27(17)	7^-	
2237		
2292.72(20)	9^-	
2304.4(9)		
2492	11^-	$850(90) \text{ ns}$
2591.36(24)	10^+	
2650.6(9)		
2778.51(22)	$\langle 10^+ \rangle$	
2979.0(3)	$11^{\langle - \rangle}$	
3083.6(13)		
3343.8(3)	$\langle 12^+ \rangle$	
3609.6(17)		
3646.7(4)	$13^{\langle - \rangle}$	

Data for this isotope are considered in vol. LB I/18C.

$${}_{84}^{196}\text{Po}$$
[illegible]

Energy levels and branching ratios [98Zh05]. Part 3

¹⁹⁶₈₄Po

<i>E</i> [*] [keV]	<i>J</i> ^π	Branching ratios in percentage										
		<i>E</i> _f [*] : <i>J</i> _f ^π :	1940 8 ⁺	1974.22 8 ⁺	2039.27 7 [−]	2292.72 9 [−]	2304.4	2591.36 10 ⁺	2650.6	2778.51 ⟨10 ⁺ ⟩	2979.0 11 ^{⟨−} ⟩	3083.6
2237					100							
2292.72(20)	9 [−]				100							
2304.4(9)					100							
2492	11 [−]		100									
2591.36(24)	10 ⁺	x	x									
2650.6(9)						x	x					
2778.51(22)	⟨10 ⁺ ⟩				100							
2979.0(3)	11 ^{⟨−} ⟩							100				
3083.6(13)									100			
3343.8(3)	⟨12 ⁺ ⟩									100		
3609.6(17)												100
3646.7(4)	13 ^{⟨−} ⟩										100	

Energy levels [95Zh27, 05Hu03].

¹⁹⁷₈₄Po

<i>E</i> [*] [keV]	2 <i>J</i> ^π	<i>T</i> _{1/2} or <i>Γ</i> _{cm}	Ref.
0.0	⟨3 [−] ⟩	84(16) s	05Hu03
130*	⟨5 [−] ⟩		
204*	⟨13 ⁺ ⟩	32(2) s	05Hu03
687.5(10)	⟨17 ⁺ ⟩		97Fo06
1147(2)	⟨21 ⁺ ⟩		97Fo06
1686(2)	⟨25 ⁺ ⟩		97Fo06

Additional data on this isotope can be found in [02Ju12].
* Value *E*^{*} is derived from systemetics; *T*_{1/2} are given in Supplement.

Energy levels and branching ratios [02Zh04, 94La35, 97Cl03, 96Mc01].

¹⁹⁸₈₄Po

<i>E</i> [*] [keV]	<i>J</i> ^π	<i>T</i> _{1/2} or <i>Γ</i> _{cm}	Ref.
0.0	0 ⁺	1.77(3) m	
604.94(10)	2 ⁺		94La35
0+Y	<i>J</i> ≈⟨6⟩		
816.0(10)	0 ⁺	<0.4 ns	
175.9+Y	<i>J</i> +2		
1039.13(14)	2 ⁺		94La35
396.3+Y	<i>J</i> +4		

(continued)

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E^*	J^π	$T_{1/2}$ or Γ_{cm}	Ref.
[keV]			
1158.39(13)	4^+		94La35
660.9+Y	$J+6$		
1483.35(16)	4^+		94La35
968.2+Y	$J+8$		
1717.56(16)	6^+		94La35
1808.41(15)	5^-		
1853.63(18)	8^+	29(2) n	94La35
1874.95(18)	$\langle 6^+ \rangle$		94La35
1317.4+Y	$J+10$		
2114.32(17)	7^-		94La35
2287.59(24)	8^-		94La35
2324.73(18)	9^-		94La35
2344.6(3)	$\langle 8^+ \rangle$		94La35
1707.9+Y	$J+12$		
2565.92(20)	11^-	200(20) ns	94La35
2620.49(21)	$\langle 8^+ \rangle$		94La35
2641.33(22)	9^-		94La35
2691.86(20)	10^+		94La35
2691.86+X	12^+	0.75(5) μs	94La35
2813.1(3)	10^-		
2137.4+Y	$J+14$		
2900.43(20)	11^-		
2963.8(4)			94La35
3010.2(4)	$\langle 10^+ \rangle$		94La35
3149.81+X			
3174.5(3)	$\langle 11^- \rangle$		94La35
3241.55+X	14^+		94La35
3308.6(4)	12^-		
2605.3+Y	$J+16$		
3444.5+X			94La35
3465.3(3)	13^-		
3579.45+X			94La35
3646.1(3)	$\langle 13^- \rangle$		94La35
3783.14+X	16^+		
3801.9(4)			
3111.2+Y	$J+18$		
3868.4(4)	14^-		
3984.95+X			
4010.81+X	16^+		94La35
4052.2(5)			94La35
4086.4(4)	$\langle 15^- \rangle$		94La35
4322.1(5)	$\langle 16^- \rangle$		94La35
3653.8+Y	$J+20$		
4391.99+X	17		94La35
4407.84+X	18^+		

(continued)

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E^*	J^π	$T_{1/2}$ or	Ref.
[keV]		Γ_{cm}	
4521.0(4)			94La35
4596.0(5)			94La35
4662.3+X			94La35
5113.3+X			94La35

Additional data on this isotope can be found in [95Bi17, 95Be31, 94Ci0A, 91Al15, 90Ma14].

X is the unknown spacing between the 12^+ and 10^+ levels.

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [02Zh04, 94La35, 97Cl03, 96Mc01]. Part 2

¹⁹⁸Po
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E^*	J^π	Branching ratios in percentage									
		E_f^* : 0.0	604.94	0+Y	175.9+Y	1039.13	396.3+Y	1158.39	660.9+Y	1483.35	968.2+Y
[keV]		J_f^π : 0^+	2^+	$J \approx \langle 6 \rangle$	$J+2$	2^+	$J+4$	4^+	$J+6$	4^+	$J+8$
604.94(10)	2^+	100									
816.0(10)	0^+	x									
175.9+Y	$J+2$			100							
1039.13(14)	2^+	32(15)	68(15)								
396.3+Y	$J+4$				100						
1158.39(13)	4^+		100								
660.9+Y	$J+6$						100				
1483.35(16)	4^+					51(9)		49(12)			
968.2+Y	$J+8$								100		
1717.56(16)	6^+							100			
1808.41(15)	5^-							83(4)		17(4)	
1874.95(18)	$\langle 6^+ \rangle$							100		<14.3	
1317.4+Y	$J+10$										100

Energy levels and branching ratios [02Zh04, 94La35, 97Cl03, 96Mc01]. Part 3

¹⁹⁸Po
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E^*	J^π	Branching ratios in percentage									
		E_f^* : 1717.56	1808.41	1853.63	1874.95	1317+Y	2114.32	2287.59	2324.73	2344.6	1708+Y
[keV]		J_f^π : 6^+	5^-	8^+	$\langle 6^+ \rangle$	$J+10$	7^-	8^-	9^-	$\langle 8^+ \rangle$	$J+12$
1853.63(18)	8^+	100									
2114.32(17)	7^-	15(7)	67(4)		19(4)						
2287.59(24)	8^-						100				
2324.73(18)	9^-			55(3)			45(3)				
2344.6(3)	$\langle 8^+ \rangle$	100									
1707.9+Y	$J+12$					100					
2565.92(20)	11^-			93(4)					7.0(10)		

(continued)

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E^* [keV]	J^π	Branching ratios in percentage									
		E_f^* : 1717.56 J_f^π : 6^+	1808.41 5^-	1853.63 8^+	1874.95 $\langle 6^+ \rangle$	1317+Y $J+10$	2114.32 7^-	2287.59 8^-	2324.73 9^-	2344.6 $\langle 8^+ \rangle$	1708+Y $J+12$
2620.49(21)	$\langle 8^+ \rangle$	69(8)		31(8)							
2641.33(22)	9^-						100		<36		
2691.86(20)	10^+			11(2)					37(4)		
2813.1(3)	10^-							66(9)	34(9)		
2137.4+Y	$J+14$										100
2900.43(20)	11^-								100		
2963.8(4)										100	
3010.2(4)	$\langle 10^+ \rangle$									100	

Energy levels and branching ratios [02Zh04, 94La35, 97Cl03, 96Mc01]. Part 4

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E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : 2565.92 J_f^π : 11^-	2641.33 9^-	2692+X 12^+	2813.1 10^-	2137+Y $J+14$	2900.43 11^-	3150+X	3174.5 $\langle 11^- \rangle$	3242+X 14^+	3308.6 12^-	2605+Y $J+16$
2691.86(20)	10^+	52(7)										
3149.81+X				100								
3174.5(3)	$\langle 11^- \rangle$		100									
3241.55+X	14^+			100								
3308.6(4)	12^-				100							
2605.3+Y	$J+16$					100						
3444.5+X				100								
3465.3(3)	13^-						100					
3579.45+X								x		100		
3646.1(3)	$\langle 13^- \rangle$						58(23)		42(16)			
3783.14+X	16^+									100		
3111.2+Y	$J+18$											100
3868.4(4)	14^-										100	
3984.95+X										100		
4010.81+X	16^+									68(7)		

Energy levels and branching ratios [02Zh04, 94La35, 97Cl03, 96Mc01]. Part 5

 $^{198}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage											
[keV]		E_f^* : 3465.3	3580+X	3646.1	3783+X	3111+Y	3868.4	4011+X	4086.4	4322.1	4392+X	4408+X	
		J_f^π : 13^-		$\langle 13^- \rangle$	16^+	$J+18$	14^-	16^+	$\langle 15^- \rangle$	$\langle 16^- \rangle$	17	18^+	
3801.9(4)		100											
4010.81+X	16^+		22.7(46)		9.1(23)								
4052.2(5)				100									
4086.4(4)	$\langle 15^- \rangle$	100											

(continued)

¹⁹⁸Po₈₄

<i>E</i> [*]	<i>J</i> ^π	Branching ratios in percentage										
[keV]		<i>E</i> _f [*] : 3465.3	3580+X	3646.1	3783+X	3111+Y	3868.4	4011+X	4086.4	4322.1	4392+X	4408+X
		<i>J</i> _f ^π : 13 [−]		⟨13 [−] ⟩	16 ⁺	<i>J</i> +18	14 [−]	16 ⁺	⟨15 [−] ⟩	⟨16 [−] ⟩	17	18 ⁺
4322.1(5)	⟨16 [−] ⟩						100					
3653.8+Y	<i>J</i> +20					100						
4391.99+X	17				27.3(60)			73(9)				
4407.84+X	18 ⁺				100							
4521.0(4)									100			
4596.0(5)										100		
4662.3+X											100	
5113.3+X												100

Energy levels and branching ratios [94Ar13].

¹⁹⁹Po₈₄

<i>E</i> [*]	<i>2J</i> ^π	<i>T</i> _{1/2} or	Ref.
[keV]		<i>Γ</i> _{cm}	
0	⟨3 [−] ⟩	4.58(52) m	
72	5 [−]		
310	13 ⁺	4.17(4) m	
910	⟨17 ⁺ ⟩		
1025	[15 ⁺]		94La35
1472	⟨21 ⁺ ⟩		94La35
1602	[19 ⁺]		94La35
1728			94La35
1871	⟨25 ⁺ ⟩		94La35
1892	[21 ⁺]		94La35
2104	⟨25 ⁺ ⟩		94La35
2177	[23 ⁺]		94La35
2271	⟨27⟩		94La35
2298			94La35
2354			94La35
2700			94La35
2721	[29 ⁺]		94La35
2762	[29 ⁺]		94La35
2978	[31 ⁺]		94La35
3008	[31 ⁺]		94La35
3145	[33 ⁺]		94La35
3409			94La35
3557	[35 ⁺]		94La35
3647			94La35
3685			94La35
3931			94La35

Additional data on this isotope can be found in [97Cl03, 94La35].

Energy levels and branching ratios [94Ar13]. Part 2

 $^{199}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage						
		$E^*_f:$ $2J^\pi_f:$	0 $\langle 3^- \rangle$	72 5^-	310 13^+	910 $\langle 17^+ \rangle$	1472 $\langle 21^+ \rangle$	1871 $\langle 25^+ \rangle$
72	5^-		100					
310	13^+			100				
910	$\langle 17^+ \rangle$				100			
1472	$\langle 21^+ \rangle$					100		
1871	$\langle 25^+ \rangle$						100	
2271	$\langle 27 \rangle$							100
2354								100

Energy levels and branching ratios [95Sc23].

 $^{200}_{84}\text{Po}$

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Ref.
0	0^+	10.9(11) m	
665.90(10)	2^+		
1136.5	0^+		98Bi06
1277.00(15)	4^+		
1392.3			98Bi06
1652.0			98Bi06
1761.48(17)	6^+		
1773.1	$\langle 3^+ - 5^+ \rangle$		98Bi06
1773.69(21)	8^+	61(3) ns	
1776.2			98Bi06
1791.4			98Bi06
1811.52(17)	5^-	<10 ns	
1842.00(25)	$\langle 3, 4 \rangle^+$		
1850.5			98Bi06
1883.1	$\langle 3^+ - 5^+ \rangle$		98Bi06
2085.5	$\langle 2^+, 6^+ \rangle$		98Bi06
2135.45(18)	7^-	<10 ns	
2220.4	$\langle 4^- - 6^- \rangle$		98Bi06
2236.1(11)	$\langle 8^- \rangle$		
2261.44(22)	9^-	<2 n	
2329.6			98Bi06
2338.1	$\langle 7^+ - 9^+ \rangle$		98Bi06
2360.4			98Bi06
2414.3	$\langle 5^- \rangle$		98Bi06
2461.5	$\langle 5^+ - 7^+ \rangle$		98Bi06
2461.9	$\langle 4^- - 6^- \rangle$		98Bi06
2596.22(23)	11^-	105(8) n	
2681.7(5)			
2716.0(4)	$X^{(+)}$		

${}^{200}_{84}\text{Po}$

Additional data on this isotope can be found in [98Bi06, 95Bi17, 94Ci0A, 90Ma14].

 ${}_{84}^{200}\text{Po}$ [illegible]

$^{200}_{84}\text{Po}$ [illegible]
$${}_{84}^{201}\text{Po}$$

E^*	$2J^\pi$	$T_{1/2}$ or
[keV]		Γ_{cm}
0	3^-	15.3(2) m
7(3)	5^-	
142(3)	$\langle 1^- \rangle$	
424(3)	13^+	8.9(2) m
577		
1038(4)	$\langle 17^+ \rangle$	
1595(4)	$\langle 21^+ \rangle$	
1913(4)	$\langle 25^+ \rangle$	
2103(4)	≥ 21	
2135(4)	≥ 25	
2241(4)	≥ 21	
2333(4)	$\langle 27 \rangle$	
2349(4)	≥ 19	
2356(4)	$\langle 27^+ \rangle$	
2465(4)	≥ 21	
2571(4)	$\langle 27^+ \rangle$	
2629(4)	$\langle 29^+ \rangle$	
2771(4)	≥ 21	
2980(4)	≥ 27	
3041(4)	≥ 25	
3198(4)	$\langle 29^+ \rangle$	
3211(4)	$\langle 31^+ \rangle$	

(continued)

 $^{201}_{84}\text{Po}$

E^*	$2J^\pi$	$T_{1/2}$ or
[keV]		Γ_{cm}
3334(4)	≥ 25	
3711(4)	$\langle 35^+ \rangle$	

Additional data on this isotope can be found in [95Ba70].

Energy levels and branching ratios [94Ra12]. Part 2

 $^{201}_{84}\text{Po}$

E^*	$2J^\pi$	Branching ratios in percentage												
		$E_{\text{f}}^*:$	0	7	424	1038	1595	1913	2103	2135	2356	2571	2980	3211
[keV]		$2J_{\text{f}}^\pi:$	3^-	5^-	13^+	$\langle 17^+ \rangle$	$\langle 21^+ \rangle$	$\langle 25^+ \rangle$	≥ 21	≥ 25	$\langle 27^+ \rangle$	$\langle 27^+ \rangle$	≥ 27	$\langle 31^+ \rangle$
7(3)	5^-		100											
424(3)	13^+			100										
577				100										
1038(4)	$\langle 17^+ \rangle$				100									
1595(4)	$\langle 21^+ \rangle$					100								
1913(4)	$\langle 25^+ \rangle$						100							
2103(4)	≥ 21							100						
2135(4)	≥ 25							100						
2241(4)	≥ 21								100					
2333(4)	$\langle 27 \rangle$							100						
2349(4)	≥ 19						100							
2356(4)	$\langle 27^+ \rangle$							100						
2465(4)	≥ 21							100						
2571(4)	$\langle 27^+ \rangle$							100						
2629(4)	$\langle 29^+ \rangle$										100			
2771(4)	≥ 21							100						
2980(4)	≥ 27											100		
3041(4)	≥ 25									100				
3198(4)	$\langle 29^+ \rangle$											100		
3211(4)	$\langle 31^+ \rangle$											100		
3334(4)	≥ 25												100	
3711(4)	$\langle 35^+ \rangle$													100

Energy levels and branching ratios [97Sc07].

 $^{202}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or	Ref.
[keV]		Γ_{cm}	
0	0^+	44.7(5) m	
677.30(20)	2^+		

(continued)

 $^{202}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or Γ_{cm}	Ref.
[keV]			
1248.9(3)	4^+		
1302.5	2^+		98Bi06
1585.2			98Bi06
1667.4	4^+		98Bi06
1689.5			98Bi06
1692.1(4)	6^+		
1714.1(6)	8^+	85(15) ns	
1757.9	0^+		
1774.3			
1775.3			
1866.1	5^-		
2102.8			
2127.5	$\langle 6^+ \rangle$		98Bi06
2194.3+x	$\langle 7^- - 9^- \rangle$		98Bi06
2217.8+x	9^-		98Bi06
2230.8	$\langle 7^- \rangle$		98Bi06
2240.7(6)	9^-	≈ 1.5 ns	
2254.0	$\langle 2^+ - 6^+ \rangle$		98Bi06
2282.6	$\langle 5^- \rangle$		98Bi06
2294.7+x	$\langle 7^+ - 9^+ \rangle$		98Bi06
2345.8	$\langle 3^- - 7^- \rangle$		98Bi06
2485.1	$\langle 4^- - 6^- \rangle$		98Bi06
2577.6	$\langle 4^+ - 8^+ \rangle$		98Bi06
2626.7(7)	11^-	> 200 ns	
2830.7+x			98Bi06
2839.6			98Bi06
2920.1(7)	11^-		
3063.1(7)	12^+	19(4) ns	
3457.8(8)	13^-		
3596.1(10)	$\langle 15^- \rangle$	11(3) ns	
3638.6(8)	14^+		
4093.8(10)	16^+		
4631.8(14)	$\langle 18^+ \rangle$		
4635.3(11)	18^+		
4761.4(11)	18^+		
4845.5(15)	$\langle 20^+ \rangle$		
4946.1(12)	$\langle 19^+ \rangle$		
5211.3(16)	$\langle 22^+ \rangle$		
5232.2(15)	$\langle 20^+ \rangle$		
5315.9(16)	$\langle 21^+ \rangle$		
5551.5(16)			

Additional data on this isotope can be found in [98Bi06, 95Bi17, 95Ba70, 90Fa03].

Energy levels and branching ratios [97Sc07]. Part 2

 $^{202}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage							
		$E_f^*:$ $J_f^\pi:$	0 0 ⁺	677.30 2 ⁺	1248.9 4 ⁺	1692.1 6 ⁺	1714.1 8 ⁺	2240.7 9 ⁻	2626.7 11 ⁻
677.30(20)	2 ⁺		100						
1248.9(3)	4 ⁺			100					
1692.1(4)	6 ⁺				100				
1714.1(6)	8 ⁺					100			
2240.7(6)	9 ⁻						100		
2626.7(7)	11 ⁻						67(7)	33(7)	
2920.1(7)	11 ⁻							100	
3063.1(7)	12 ⁺								56(11)

Energy levels and branching ratios [97Sc07]. Part 3

 $^{202}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage								
[keV]		$E_f^*:$ $J_f^\pi:$	2920.1 11 [−]	3063.1 12 ⁺	3457.8 13 [−]	3638.6 14 ⁺	4093.8 16 ⁺	4631.8 ⟨18 ⁺ ⟩	4635.3 18 ⁺	4845.5 ⟨20 ⁺ ⟩
3063.1(7)	12 ⁺		44(17)							
3457.8(8)	13 [−]		100							
3596.1(10)	⟨15 [−] ⟩				100					
3638.6(8)	14 ⁺			88	≈12					
4093.8(10)	16 ⁺					100				
4631.8(14)	⟨18 ⁺ ⟩						100			
4635.3(11)	18 ⁺						100			
4761.4(11)	18 ⁺						100			
4845.5(15)	⟨20 ⁺ ⟩							100		
4946.1(12)	⟨19 ⁺ ⟩								100	
5211.3(16)	⟨22 ⁺ ⟩									100
5232.2(15)	⟨20 ⁺ ⟩							100		
5315.9(16)	⟨21 ⁺ ⟩									100
5551.5(16)										100

Energy levels and branching ratios [93Ra11, 05Ko0A].

 $^{203}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	Ref.
0	5 ⁻	36.7(5) m	
62.53(11)	3 ⁻		
134(4)	⟨1 ⁻ ⟩		
531.85(12)	⟨5 ⁻ ⟩		
639.36(12)	7 ⁻		05Ko0A

(continued)

 $^{203}_{84}\text{Po}$

E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	Ref.
[keV]			
641.68(17)	13^+	45(2) s	
686.46(16)	$\langle 5 \rangle^-$		
719.06(13)	$\langle 7 \rangle^-$		
803.20(20)	9^-		
1029.31(17)	$\langle 7, 9 \rangle^-$		05Ko0A
1056.28(16)	$\langle 7, 9 \rangle^-$		05Ko0A
1112.78(16)	$\langle 5, 7 \rangle^-$		05Ko0A
1129.37(18)	9^+		05Ko0A
1153.64(13)	$\langle 5, 7 \rangle^-$		05Ko0A
1174.88(16)	$\langle 7, 9 \rangle^-$		05Ko0A
1255.0(11)	17^+		
1280.47(24)	$\langle 9, 11 \rangle^+$		05Ko0A
1369.16(24)	$\langle 5-9 \rangle^-$		05Ko0A
1379.75(22)	$\langle 9-13 \rangle^+$		05Ko0A
1428.6(4)			
1526.7(3)	$\langle 7-11 \rangle^+$	>200 ns	05Ko0A
1527.85(23)			
1542.8(4)			
1624.48(21)	$\langle 9, 11 \rangle^+$		05Ko0A
1671.42(23)	$\langle 11, 13 \rangle^+$		05Ko0A
1698.3(3)	$\langle 7^+-15^+ \rangle$		05Ko0A
1721.0(15)	21^+		
1766.56(24)			
1863.8(3)			
1976.0(3)	$\langle 13-17 \rangle^+$		05Ko0A
2010.4(4)	$\langle 7^+-15^+ \rangle$		05Ko0A
2043.4(3)	$\langle 7^+-15^+ \rangle$		05Ko0A
2056.7(15)	25^+		
2079.0(15)	$\langle 21 \rangle^+$		
2158.5(6)		12(2) ns 7(2) ns	05Ko0A
2187.2(3)			
2276.1(16)			
2406.3(15)	25^+		
2488.2(15)	23^+		
2502.5(15)	23^+		
2525.8(16)	27^+		
2530.7(3)			
2792.4(17)	25^-		
2824.5(16)	29^-		
2870.4(15)	29^+		
3017.2(16)	$\langle 29^+ \rangle$		
3070.0(16)	$29^{(+)}$		05Ko0A
3111.4(16)			
3235.6(16)	31^+		
3240.9(16)	$\langle 33 \rangle^+$		

(continued)

 $^{203}_{84}\text{Po}$

E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	Ref.
[keV]			
3381.5(17)			
3430.4(15)	29^-		
3717.0(16)			05Ko0A
3881.4(16)	$\langle 31 \rangle^-$		05Ko0A
4358.3(17)	$\langle 35^- \rangle$		

9 nucleon configurations were considered in [05Ko0A].

Energy levels and branching ratios [93Ra11, 05Ko0A]. Part 2

 $^{203}_{84}\text{Po}$

E^*	$2J^\pi$	Branching ratios in percentage							
		E_f^* : $2J_f^\pi$:	0 5^-	62.5 $\langle 3 \rangle^-$	531.9 $\langle 5 \rangle^-$	639.4 $\langle 7 \rangle^-$	641.5 13^+	719.0 $\langle 7 \rangle^-$	1056.3 $\langle 11 \rangle^-$
[keV]									
62.53(11)	3^-		100						
531.85(12)	$\langle 5 \rangle^-$		87(3)	13(1)					
639.36(12)	7^-		91	8.9(2)					
641.68(17)	13^+		100						
686.46(16)	$\langle 5 \rangle^-$		38(1)	62(2)					
719.06(13)	$\langle 7 \rangle^-$		34(1)	66(1)					
803.20(20)	9^-		100						
1029.31(17)	$\langle 7,9 \rangle^-$				52(2)	47.9(6)			
1056.28(16)	$\langle 7,9 \rangle^-$		3.7(8)			96(3)			
1112.78(16)	$\langle 5,7 \rangle^-$				$\langle 100 \rangle$				
1129.37(18)	9^+						79(7)	21(1)	
1153.64(13)	$\langle 5,7 \rangle^-$		32(3)		43(2)			25(2)	
1174.88(16)	$\langle 7,9 \rangle^-$		33(2)			67(3)			
1255.0(11)	17^+						100		
1280.47(24)	$\langle 9,11 \rangle^+$						70(23)		
1369.16(24)	$\langle 5-9 \rangle^-$							100	
1379.75(22)	$\langle 9-13 \rangle^+$						100		
1428.6(4)				100					
1527.85(23)					100				
1542.8(4)									$\langle 100 \rangle$
1624.48(21)	$\langle 9,11 \rangle^+$						69(3)		
1671.42(23)	$\langle 11,13 \rangle^+$						77(2)		
1766.56(24)								$\langle 100 \rangle$	

Energy levels and branching ratios [93Ra11, 05Ko0A]. Part 3

²⁰³Po
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E^*	$2J^\pi$	Branching ratios in percentage										
[keV]		E_f^* : $2J_f^\pi$:	1129.2 $\langle 9 \rangle^+$	1254.8 17^+	1280.3	1379.6 $\langle 9-17 \rangle^+$	1720.9 21^+	1975.8 X^+	2056.9 25^+	2078.8 21^+	2406.3 25^+	2488.1 23^+
1280.47(24)	$\langle 9,11 \rangle^+$		30(7)									
1379.75(22)	$\langle 9-13 \rangle^+$				x							
1526.7(3)	$\langle 7-11 \rangle^+$		100									
1624.48(21)	$\langle 9,11 \rangle^+$		31(1)									
1671.42(23)	$\langle 11,13 \rangle^+$					23(2)						
1698.3(3)	$\langle 7^+-15^+ \rangle$					100						
1721.0(15)	21^+			100								
1863.8(3)						100						
1976.0(3)	$\langle 13-17 \rangle^+$					100						
2010.4(4)	$\langle 7^+-15^+ \rangle$					$\langle 100 \rangle$						
2043.4(3)	$\langle 7^+-15^+ \rangle$					100						
2056.7(15)	25^+						100					
2079.0(15)	$\langle 21^+ \rangle$						100					
2158.5(6)								100				
2187.2(3)						100						
2276.1(16)									100			
2406.3(15)	25^+						52		48			
2488.2(15)	23^+						79			21		
2502.5(15)	23^+						100					
2525.8(16)	27^+								100			
2530.7(3)						100						
2792.4(17)	25^-										28	45
2870.4(15)	29^+								100			
3017.2(16)	$\langle 29^+ \rangle$								100			

Energy levels and branching ratios [93Ra11, 05Ko0A]. Part 4

²⁰³Po
84

E^* [keV]	$2J^\pi$	Branching ratios in percentage							
		E_f^* : $2J_f^\pi$:	2502.4 23^+	2526.0 27^+	2792.2 25^-	2870.6 29^+	3240.9 $\langle 33^+ \rangle$	3430.3 29^-	3881.3 $\langle 31^- \rangle$
2792.4(17)	25^-		27						
2824.5(16)	29^-			100.0					
3070.0(16)	$29^{\langle + \rangle}$			100					
3111.4(16)				100					
3235.6(16)	31^+					100			
3240.9(16)	$\langle 33 \rangle^+$					100			
3381.5(17)							x		
3430.4(15)	29^-				100				
3881.4(16)	$\langle 31 \rangle^-$							100	
4358.3(17)	$\langle 35^- \rangle$								100

Energy levels and branching ratios [94Sc24, 90Fa03].

 $^{204}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or Γ_{cm}
[keV]		
0	0^+	3.53(2) h
684.342(10)	2^+	
1200.660(14)	4^+	
1255.23(16)	2^+	
1552.174(22)	4^+	
1626.914(17)	6^+	
1634.41(13)	$\langle 3^+ \rangle$	
1639.03(4)	8^+	158(2) ns
1650.87(8)	$\langle 6^-, 7^- \rangle$	
1715.84(20)		
1728.58(6)	$\langle 4^+ \rangle$	
1962.147(25)	6^+	
2041.698(20)	5^-	
2100.26(20)		
2227.34(4)	9^-	15.6(5) ns
2248.16(4)	8^+	
2289.70(4)	7^-	
2303.14(4)	6^-	
2323.64(8)		
2376.37(15)	$\langle 7^+ \rangle$	
2471.57(5)	$\langle 6^+, 7^+, 8^+ \rangle$	
2527.3(2)	10^+	
2539.15(20)	9^+	
2547.55(6)	$\langle 6^+, 7, 8^+ \rangle$	
2553.2(2)		
2587.3(2)		
2620.4(3)	11^-	3.6(2) ns
2727.9(2)	$7^+, 8^+$	
2788.9(3)	$\langle 10^+ \rangle$	
2827.6(5)	10^-	
2895.3(6)	$\langle 11^+ \rangle$	
2899.9(1)		
2905.1(1)	11^-	
2946.3(4)	10^-	
3083.6(6)	11^+	
3125.4(6)	12^+	
3133.5(6)	11^+	
3217.3(4)		
3227.4(2)	12^-	
3387(1)		
3387.2(7)	13^-	9(3) ns
3439.9(2)	13^-	
3458.9(8)	12^-	
3528.2(3)	13^-	
3564.7(4)	15^-	12(1) ns

(continued)

 $^{204}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or Γ_{cm}
[keV]		
3576(1)		
3649(2)		
3723.1(9)		
3767.3(9)	13^-	
3898.5(9)	14^-	
3975.3(6)	15^-	
4096(2)		
4137.2(9)		
4169.3(5)	$\langle 16^- \rangle$	
4174.8(7)	15^-	
4187(1)		
4202.8(8)	15^-	
4212.1(8)	$\langle 14^+ \rangle$	
4313.4(6)	16^-	
4358(1)	$\langle 16^- \rangle$	
4362.1(9)	13^-	
4383.9(5)	$\langle 17^- \rangle$	
4437.5(9)	$\langle 16^+ \rangle$	
4471.0(9)	17^-	
4532.3(9)		
4616.1(7)	$\langle 18^- \rangle$	
4819(1)		
4978(1)		
5155(1)		
5295(1)	$\langle 19^- \rangle$	
5911(2)	$\langle 20 \rangle$	

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [94Sc24, 90Fa03]. Part 2

 $^{204}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		$E^*_\text{f}:$ $J^\pi_\text{f}:$	0 0 ⁺	684.3 2 ⁺	1200.7 4 ⁺	1255.2 2 ⁺	1552.2 4 ⁺	1626.9 6 ⁺	1639.0 8 ⁺	1650.9 ⟨6 [−] ,7 [−] ⟩	1962.2 6 ⁺	2041.7 5 [−]

684.342(10)	2 ⁺	100										
1200.660(14)	4 ⁺		100									
1255.23(16)	2 ⁺		100									
1552.174(22)	4 ⁺		39(3)	61(4)								
1626.914(17)	6 ⁺			100		≈0.1						
1634.41(13)	⟨3 ⁺ ⟩		48(9)	33(9)	20(7)							
1639.03(4)	8 ⁺							100				
1650.87(8)	⟨6 [−] ,7 [−] ⟩							100				
1715.84(20)			100									

(continued)

²⁰⁴Po
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E^*	J^π	Branching ratios in percentage										
[keV]		E_f^* : J_f^π :	0 0 ⁺	684.3 2 ⁺	1200.7 4 ⁺	1255.2 2 ⁺	1552.2 4 ⁺	1626.9 6 ⁺	1639.0 8 ⁺	1650.9 ⟨6 ⁻ ,7 ⁻ ⟩	1962.2 6 ⁺	2041.7 5 ⁻
1728.58(6)	⟨4⟩ ⁺			44(6)	56(7)							
1962.147(25)	6 ⁺				x			100				
2041.698(20)	5 ⁻				69(3)		23(1)	8(1)				
2100.26(20)					100							
2227.34(4)	9 ⁻								100			
2248.16(4)	8 ⁺							2.2(5)	98(3)			
2289.70(4)	7 ⁻							22(2)	26(2)		52(4)	
2303.14(4)	6 ⁻											100
2323.64(8)								100		≤30		
2376.37(15)	⟨7⟩ ⁺							100				
2471.57(5)	⟨6 ⁺ ,7 ⁺ ,8 ⁺ ⟩							77(6)				
2527.3(2)	10 ⁺								100			
2539.15(20)	9 ⁺								100			
2547.55(6)	⟨6 ⁺ ,7,8 ⁺ ⟩							32(6)	68(7)			
2553.2(2)								100				
2788.9(3)	⟨10⟩ ⁺								24(5)			
2899.9(1)												74(10)

Energy levels and branching ratios [94Sc24, 90Fa03]. Part 3

²⁰⁴Po
84

E^*	J^π	Branching ratios in percentage										
[keV]		E_f^* : J_f^π :	2227.3 9 ⁻	2248.2 8 ⁺	2303.1 6 ⁻	2527.3 10 ⁺	2539.1 9 ⁺	2620.4 11 ⁻	2788.9 ⟨10⟩ ⁺	2905.0 11 ⁻	2946.3 10 ⁻	3083.6 11 ⁺
2471.57(5)	⟨6 ⁺ ,7 ⁺ ,8 ⁺ ⟩			≈23								
2587.3(2)		100										
2620.4(3)	11 ⁻				100							
2727.9(2)	7 ⁺ ,8 ⁺			100								
2788.9(3)	⟨10⟩ ⁺					76(8)						
2827.6(5)	10 ⁻	100										
2895.3(6)	⟨11 ⁺ ⟩								100			
2899.9(1)		≤15			26(6)							
2905.1(1)	11 ⁻	100										
2946.3(4)	10 ⁻	100										
3083.6(6)	11 ⁺								100			
3125.4(6)	12 ⁺				100							
3133.5(6)	11 ⁺								100			
3217.3(4)								100				
3227.4(2)	12 ⁻									68(7)	32(6)	
3387(1)									100			
3439.9(2)	13 ⁻									87(12)		
3458.9(8)	12 ⁻							100				
3528.2(3)	13 ⁻							24(6)		76(9)		

(continued)

 $^{204}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage									
	E_f^* :	2227.3	2248.2	2303.1	2527.3	2539.1	2620.4	2788.9	2905.0	2946.3	3083.6
[keV]	J_f^π :	9 [−]	8 ⁺	6 [−]	10 ⁺	9 ⁺	11 [−]	⟨10⟩ ⁺	11 [−]	10 [−]	11 ⁺
3576(1)								100			
4187(1)											100

Energy levels and branching ratios [94Sc24, 90Fa03]. Part 4

 $^{204}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		E^*_f : J^π_f :	3125.4 12 ⁺	3227.4 12 ⁻	3386.9	3387.2 13 ⁻	3439.9 13 ⁻	3458.9 12 ⁻	3528.2 13 ⁻	3564.7 15 ⁻	3648.9	3723.1
3387.2(7)	13 ⁻		100									
3439.9(2)	13 ⁻			13(2)								
3564.7(4)	15 ⁻						100					
3649(2)					100							
3723.1(9)						100						
3767.3(9)	13 ⁻							100				
3898.5(9)	14 ⁻							100				
3975.3(6)	15 ⁻								100			
4096(2)											100	
4137.2(9)								100				
4169.3(5)	$\langle 16^- \rangle$									100		
4174.8(7)	15 ⁻					100						
4202.8(8)	15 ⁻					100						
4212.1(8)	$\langle 14^+ \rangle$					100						
4313.4(6)	16 ⁻									100		
4362.1(9)	13 ⁻							100				
4383.9(5)	$\langle 17^- \rangle$									100		
4532.3(9)												100

Energy levels and branching ratios [94Sc24, 90Fa03]. Part 5

 $^{204}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage								
		E_f^* : J_f^π :	3898.5 14 ⁻	4174.8 15 ⁻	4212.1 $\langle 14^+ \rangle$	4383.9 $\langle 17^- \rangle$	4471.0 17 ⁻	4532.3	4819.3	5295.0 $\langle 19^- \rangle$
4358(1)	$\langle 16^- \rangle$		100							
4437.5(9)	$\langle 16^+ \rangle$				100					
4471.0(9)	17 ⁻			100						
4616.1(7)	$\langle 18^- \rangle$					100				
4819(1)								100		
4978(1)									100	
5155(1)							100			

(continued)

²⁰⁴Po₈₄

E^*	J^π	Branching ratios in percentage							
[keV]		E_f^* : J_f^π :	3898.5 14 ⁻	4174.8 15 ⁻	4212.1 $\langle 14^+ \rangle$	4383.9 $\langle 17^- \rangle$	4471.0 17 ⁻	4532.3	5295.0 $\langle 19^- \rangle$
5295(1)	$\langle 19^- \rangle$						100		
5911(2)	$\langle 20 \rangle$								100

Energy levels and branching ratios [04Ko28, 93Ra10, 03He06].

²⁰⁵Po₈₄

E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
[keV]		
0	5 ⁻	1.74(8) h
143.166(17)	1 ⁻	0.31(6) μ s
154.195(12)	3 ⁻	
384.34(6)	$\langle 3 \rangle^-$	
669.43(4)	$\langle 9 \rangle^-$	
719.28(4)	9 ⁻	
783.00(5)	7 ⁻	
799.02(15)	5 ⁻	
806.45(8)	$\langle 5 \rangle^-$	
872.10(7)	7 ⁻	
880.30(4)	13 ⁺	645(20) μ s
902.26(10)	$\langle 3-7 \rangle^-$	
1030.38(4)	11 ⁻	
1167.81(7)	7 ⁻	
1394.94(9)	$\langle 9, 11 \rangle^-$	
1400.80(5)	9 ⁺	
1426.05(7)	9 ⁻	
1461.20(21)	19 ⁻	58(1) ms
1477.38(21)		
1516.61(21)	17 ⁺	
1539.93(7)	9 ⁺	
1553.16(6)	$\langle 11 \rangle^+$	
1633.30(9)	$\langle 5^+ \rangle$	
1651.32(13)	$\langle 7 \rangle^-$	
1761.30(19)	$\langle 7^-, 9^- \rangle$	
1856.20(11)	11 ⁺	
1890.5(3)	21 ⁺	
1908.4(4)		
1912.00(9)	$\langle 11^- \rangle$	
1954.05(10)		
2149.35(15)	$\langle 7 \rangle^+$	
2187.88(9)	$\langle 11 \rangle^+$	
2224.7(4)	25 ⁺	2.0(7) ns
2355.55(6)	$\langle 9 \rangle^+$	

(continued)

²⁰⁵Po
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E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
[keV]		
2483.49(7)	$\langle 7-11 \rangle^+$	115(10) ns
2712.3(4)	27^+	
2799.20(15)	$\langle 9 \rangle^+$	
2826.9(4)	27^+	
2930.82(19)	$\langle 9^+ \rangle$	
2980.7(4)	29^+	
3033.0(5)	$\langle 7,9 \rangle$	
3046.72(20)	$\langle 7^+ \rangle$	
3052.2(4)	$\langle 7^+ \rangle$	
3087.2(4)	29^-	
3160.7(5)	29^+	
3170.9(4)	$\langle 7^+ \rangle$	
3206.4(5)	31^+	
3298.5(4)	29^+	
3368.1(5)	31^+	
3508.9(5)	31^-	
3868.8(5)	33^-	
4093.3(5)	33^-	
4136.8(5)	35^+	
4453.9(6)	$\langle 37^- \rangle$	
4628.8(6)	37^+	

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [04Ko28, 93Ra10, 03He06]. Part 2

²⁰⁵Po
84

E^*	$2J^\pi$	Branching ratios in percentage							
		E_f^* :	0	154.2	384.3	669.4	719.3	783.0	799.0
[keV]		$2J_f^\pi$:	5^-	3^-	$\langle 3 \rangle^-$	$\langle 9 \rangle^-$	9^-	7^-	5^-
143.166(17)	1^-		100						
154.195(12)	3^-		100						
384.34(6)	$\langle 3 \rangle^-$		80(4)	20.3(18)					
669.43(4)	$\langle 9 \rangle^-$		100						
719.28(4)	9^-		100						
783.00(5)	7^-		25.8(12)	74(5)		≈ 0.4			
799.02(15)	5^-			52(4)	48(6)				
806.45(8)	$\langle 5 \rangle^-$		53(4)	47(12)					
872.10(7)	7^-		78(12)		13.7(7)	8.2(10)			
880.30(4)	13^+						100		
902.26(10)	$\langle 3-7 \rangle^-$		60(3)	40(5)					
1030.38(4)	11^-					22(2)	78(4)		
1167.81(7)	7^-		10.1(11)				81(4)	x	8.8(11)
1394.94(9)	$\langle 9,11 \rangle^-$					42(2)			

(continued)

²⁰⁵Po
84

E^* [keV]	$2J^\pi$	Branching ratios in percentage							
		$E_f^*:$ $2J_f^\pi:$	0 5 ⁻	154.2 3 ⁻	384.3 $\langle 3 \rangle^-$	669.4 $\langle 9 \rangle^-$	719.3 9 ⁻	783.0 7 ⁻	799.0 5 ⁻
1400.80(5)	9 ⁺							30(1)	
1426.05(7)	9 ⁻					38(2)			
1633.30(9)	$\langle 5^+ \rangle$		30(2)	52(4)					
1651.32(13)	$\langle 7^- \rangle$		36(3)	11(1)			13(2)		
1761.30(19)	$\langle 7^-, 9^- \rangle$		39(2)			25(3)			
1908.4(4)				40(6)					
1912.00(9)	$\langle 11^- \rangle$					11.1(15)	4.8(9)		
1954.05(10)								100	
2355.55(6)	$\langle 9 \rangle^+$					5.9(5)	4(1)		
2799.20(15)	$\langle 9 \rangle^+$							5(1)	
2930.82(19)	$\langle 9^+ \rangle$							8(2)	
3033.0(5)	$\langle 7, 9 \rangle$		28(4)			26(5)			
3046.72(20)	$\langle 7^+ \rangle$		≈ 7						
3052.2(4)	$\langle 7^+ \rangle$		≈ 7					≈ 14	
3170.9(4)	$\langle 7^+ \rangle$		≈ 6						

Energy levels and branching ratios [04Ko28, 93Ra10, 03He06]. Part 3

²⁰⁵Po
84

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E_f^*:$ $2J_f^\pi:$	806.4 $\langle 5 \rangle^-$	872.1 7 ⁻	880.3 13 ⁺	902.3 $\langle 3-7 \rangle^-$	1030.4 11 ⁻	1167.8 7 ⁻	1394.9 $\langle 9, 11 \rangle^-$	1400.8 9 ⁺	1426.0 9 ⁻	1516.6 17 ⁺
1394.94(9)	$\langle 9, 11 \rangle^-$						58(4)					
1400.80(5)	9 ⁺			10(1)	60(2)							
1426.05(7)	9 ⁻			36(3)			26(3)					
1461.20(21)	19 ⁻				100							
1477.38(21)							100					
1516.61(21)	17 ⁺				100							
1539.93(7)	9 ⁺				100							
1553.16(6)	$\langle 11 \rangle^+$				96(5)					4.4(6)		
1633.30(9)	$\langle 5^+ \rangle$			9(2)						9(3)		
1651.32(13)	$\langle 7^- \rangle$		26(2)					15(2)				
1761.30(19)	$\langle 7^-, 9^- \rangle$					36(8)						
1856.20(11)	11 ⁺				58(2)					31(2)		
1890.5(3)	21 ⁺											100
1908.4(4)			60(10)									
1912.00(9)	$\langle 11^- \rangle$				73(7)			10.6(9)				
2149.35(15)	$\langle 7 \rangle^+$		10(1)									
2187.88(9)	$\langle 11 \rangle^+$				68(4)				32(3)			
2355.55(6)	$\langle 9 \rangle^+$				21(1)		32(4)	3.5(2)	8(1)	5(1)	14(1)	
2483.49(7)	$\langle 7-11 \rangle^+$									78(5)		
2799.20(15)	$\langle 9 \rangle^+$			6(1)			17(1)			20(1)	7(1)	
2930.82(19)	$\langle 9^+ \rangle$				56(3)	6(1)				15(1)		

(continued)

 $^{205}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E_f^*:$ $2J_f^\pi:$	806.4 $\langle 5 \rangle^-$	872.1 7^-	880.3 13^+	902.3 $\langle 3-7 \rangle^-$	1030.4 11^-	1167.8 7^-	1394.9 $\langle 9,11 \rangle^-$	1400.8 9^+	1426.0 9^-	1516.6 17^+
3033.0(5)	$\langle 7,9 \rangle$			45(5)								
3052.2(4)	$\langle 7^+ \rangle$			13(2)								
3170.9(4)	$\langle 7^+ \rangle$						9(2)		13(1)			

Energy levels and branching ratios [04Ko28, 93Ra10, 03He06]. Part 4

 $^{205}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E_f^*:$ $2J_f^\pi:$	1539.9 9^+	1553.2 $\langle 11 \rangle^+$	1633.3 $\langle 5^+ \rangle$	1761.3 $\langle 7^-, 9^- \rangle$	1890.5 21^+	1908.4	2149.3 $\langle 7 \rangle^+$	2224.7 25^+	2355.5 $\langle 9 \rangle^+$	2483.5
1856.20(11)	11^+		12(1)									
2149.35(15)	$\langle 7 \rangle^+$				90(6)							
2224.7(4)	25^+						100					
2355.55(6)	$\langle 9 \rangle^+$			6(1)								
2483.49(7)	$\langle 7-11 \rangle^+$										22(2)	
2712.3(4)	27^+									100		
2799.20(15)	$\langle 9 \rangle^+$			19(1)				8(1)	17(2)			
2826.9(4)	27^+									100		
2930.82(19)	$\langle 9^+ \rangle$			15(2)								
2980.7(4)	29^+									100		
3046.72(20)	$\langle 7^+ \rangle$				47(4)						46(6)	
3052.2(4)	$\langle 7^+ \rangle$											65(11)
3170.9(4)	$\langle 7^+ \rangle$				46(2)	11(2)		16(2)				
3298.5(4)	29^+									51(6)		

Energy levels and branching ratios [04Ko28, 93Ra10, 03He06]. Part 5

 $^{205}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage									
		$E_f^*:$ $2J_f^\pi:$	2712.3 27^+	2826.9 27^+	2980.7 29^+	3087.2 29^-	3298.5 29^+	3508.9 31^-	3868.8 33^-	4093.3 33^-	4136.8 35^+
2826.9(4)	27^+	x									
3087.2(4)	29^-	49(4)		37(4)	15(1)						
3160.7(5)	29^+	100									
3206.4(5)	31^+				100						
3298.5(4)	29^+			49(6)							
3368.1(5)	31^+				100						
3508.9(5)	31^-						100				
3868.8(5)	33^-					100					
4093.3(5)	33^-							100			
4136.8(5)	35^+								100		

(continued)

 $^{205}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage									
		E^*_f : $2J^\pi_f$:	2712.3 27^+	2826.9 27^+	2980.7 29^+	3087.2 29^-	3298.5 29^+	3508.9 31^-	3868.8 33^-	4093.3 33^-	4136.8 35^+
4453.9(6)	$\langle 37^- \rangle$									100	
4628.8(6)	37^+										100

Energy levels and branching ratios [99Br39, 90Ba31].

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	σ (τ, n) $\mu\text{b/sr}$	$T_{1/2}$ or Γ_{cm}	Ref.
0.0	0^+	85(11)	8.8(1) d	79An07
700.66(3)	2^+			
1162.2	$\langle 2 \rangle^+$			
1177.78(4)	$\langle 4 \rangle^+$			
1434.34(5)	$\langle 4 \rangle^+$			
1546.3	$\langle 4^+ \rangle$			
1564.59(14)	$\langle 4 \rangle^+$			
1573.35(5)	$\langle 6 \rangle^+$			
1585.85(11)	$\langle 8^+ \rangle$		222(10) ns	
1915.85(7)	$\langle 4, 5 \rangle^+$			
2100.76(8)	$\langle 5^+ \rangle$			
2138.93(7)	$\langle 4^{++} 6^+ \rangle$			
2200.44(13)	$\langle 8^+ \rangle$			
2262.22(14)	$\langle 9^- \rangle$		1.05(6) μs	
2302.60(6)	$\langle 5^- \rangle$			
2418.87(14)	$\langle 10^+ \rangle$			
2423.12(20)	$\langle 9^+ \rangle$			
2432.40(25)				
2500.58(8)				
2581.56(8)	$\langle 4^- - 6^- \rangle$			
2613.09(19)	$\langle 10^+ \rangle$			
2656.48(15)	$\langle 11^- \rangle$		0.5(1) ns	
2781.00(21)	$\langle 11^+ \rangle$			
2901.93(23)	12^+			
2917.01(7)	$\langle 4^- - 6^- \rangle$			
3068.11(16)	$\langle 11^- \rangle$			
3210.46(23)	$\langle 12^+ \rangle$			
3361.94(7)	$X \langle - \rangle$			
3396.49(11)				
3463.09(16)	$\langle 13^- \rangle$			
3485.85(24)	$\langle 12^- \rangle$			
3549.10(18)	$\langle 14^- \rangle$			
3558.3(3)	$\langle 12^- \rangle$			
3567.4	$\langle 15^- \rangle$			

(continued)

 $^{206}_{84}\text{Po}$

E^*	J^π	σ (τ, n)	$T_{1/2}$ or	Ref.
[keV]		$\mu\text{b/sr}$	Γ_{cm}	
3595.44(8)	$X\langle - \rangle$			
3704.42(24)				
3872.15(9)				
3951.90(25)	$\langle 13^- \rangle$			
4038.83(8)				
4163.2	$\langle 16^- \rangle$			
4230.6(3)				
4410.02(9)				
4419.63(11)				
4483.67(24)				
4494.5(5)				
4569.28(23)	$\langle 14^+ \rangle$			
4613.23(22)	$\langle 15^+ \rangle$			
4632.9	$\langle 17^- \rangle$			
4652.2(3)	$\langle 16^+ \rangle$			
4685.9(3)	$\langle 17^+ \rangle$			
4697.77(16)				
4711.9(3)	$\langle 16^+ \rangle$			
4744.3	$\langle 17^- \rangle$			
4832.2(3)	$\langle 18^+ \rangle$			
5168.9(4)	$\langle 17^+ \rangle$			
5212.8(3)	$\langle 19^+ \rangle$			
5334.6(3)	$\langle 18^+ \rangle$			
5377.7	$\langle 18^- \rangle$			
5486.5(5)				
5514.1(4)	$\langle 19^+ \rangle$			
5874.6(4)	$\langle 20 \rangle$			
5935.4(3)	$\langle 19^- \rangle$			
6009.9(4)	$\langle 20 \rangle$			
6019.9(4)				
6050.8(4)				
6118.6(4)	$\langle 20^- \rangle$			
6288.5(4)	$\langle 21^- \rangle$			
6343.7(5)				
6477.9(5)				
6522.1(5)	$\langle 21 \rangle$			
6699.6(4)	$\langle 21 \rangle$			
6756.2(4)	$\langle 22^- \rangle$			
6873.0(4)	$\langle 21 \rangle$			
6958.5(4)	$\langle 22 \rangle$			
6982.8(5)				
7121.4(5)				
7137.3(5)				
7158.7(5)	$\langle 23 \rangle$			
7196.9(5)	$\langle 23 \rangle$			

(continued)

 $^{206}_{84}\text{Po}$

E^*	J^π	σ (τ, n)	$T_{1/2}$ or	Ref.
[keV]		$\mu\text{b/sr}$	Γ_{cm}	
7267.7(4)	$\langle 24 \rangle$			
7282.0(5)				
7412.7(5)				
7473.8(5)				
7502.5(5)				
7593.8(5)				
7823.3(5)				
8044.2(6)				
8201.3(6)				
8218.5(6)				
8259.2(6)				
8265.1(6)				
8348.9(6)				
8381.9(6)				
8431.1(5)				
8627.7(6)				
8643.5(6)			1.0(3) ns	
8898.3(7)				
8994.3(6)				
9724.8(7)				

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [99Br39, 90Ba31]. Part 2

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage						
[keV]		$E_{\text{f}}^*:$ $J_{\text{f}}^\pi:$	0.0 0^+	700.7 2^+	1162 $\langle 2 \rangle^+$	1178 $\langle 4 \rangle^+$	1434 $\langle 4 \rangle^+$	1573 $\langle 6 \rangle^+$
700.66(3)	2^+		100					
1162.2	$\langle 2 \rangle^+$		50(10)	50(10)				
1177.78(4)	$\langle 4 \rangle^+$			100				
1434.34(5)	$\langle 4 \rangle^+$			70(5)		30(3)		
1546.3	$\langle 4^+ \rangle$				100			
1564.59(14)	$\langle 4 \rangle^+$			54(9)		46(46)		
1573.35(5)	$\langle 6 \rangle^+$					100		
1585.85(11)	$\langle 8^+ \rangle$							100
1915.85(7)	$\langle 4, 5 \rangle^+$					44(4)		56(7)
2100.76(8)	$\langle 5^+ \rangle$					65(7)		35(3)
2138.93(7)	$\langle 4^{++} 6^+ \rangle$					13(1)	56(6)	31(3)
2200.44(13)	$\langle 8^+ \rangle$							3.2(9)
2302.60(6)	$\langle 5^- \rangle$					11(1)	44(4)	5.6(6)
2500.58(8)								30(3)
2581.56(8)	$\langle 4^- - 6^- \rangle$							40(4)

(continued)

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage						
		E^*_f : J^π_f :	0.0 0^+	700.7 2^+	1162 $\langle 2 \rangle^+$	1178 $\langle 4 \rangle^+$	1434 $\langle 4 \rangle^+$	1573 $\langle 6 \rangle^+$
3396.49(11)						30(6)		
3872.15(9)								26(4)

Energy levels and branching ratios [99Br39, 90Ba31]. Part 3

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E^*_f : J^π_f :	1586 $\langle 8^+ \rangle$	1916 $\langle 4,5 \rangle^+$	2101 $\langle 5^+ \rangle$	2139	2200 $\langle 8^+ \rangle$	2262 $\langle 9^- \rangle$	2303 $\langle 5^- \rangle$	2419 $\langle 10^+ \rangle$	2423 $\langle 9^+ \rangle$	2432
2200.44(13)	$\langle 8^+ \rangle$		97(2)									
2262.22(14)	$\langle 9^- \rangle$		15.0(9)				85(37)					
2302.60(6)	$\langle 5^- \rangle$			9(9)	31(4)							
2418.87(14)	$\langle 10^+ \rangle$		100									
2423.12(20)	$\langle 9^+ \rangle$		100									
2432.40(25)								100				
2500.58(8)					21(3)				48(6)			
2581.56(8)	$\langle 4^- - 6^- \rangle$								60(7)			
2613.09(19)	$\langle 10^+ \rangle$		68(5)								32(4)	
2656.48(15)	$\langle 11^- \rangle$									93(2)		6.5(10)
2781.00(21)	$\langle 11^+ \rangle$									45(5)		
2917.01(7)	$\langle 4^- - 6^- \rangle$								83(8)			
3068.11(16)	$\langle 11^- \rangle$							100				
3361.94(7)	$X^{\langle - \rangle}$			21(2)					57(6)			
3396.49(11)						70(6)						
3595.44(8)	$X^{\langle - \rangle}$								9(1)			
3704.42(24)										27(7)		
4038.83(8)					48(4)	18(4)			33(4)			
4410.02(9)						9(3)						
4419.63(11)					19(4)							
4697.77(16)						44(11)						

Energy levels and branching ratios [99Br39, 90Ba31]. Part 4

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E^*_f : J^π_f :	2501	2582	2613 $\langle 10^+ \rangle$	2656 $\langle 11^- \rangle$	2781 $\langle 11^+ \rangle$	2902 12^+	2917	3068 $\langle 11^- \rangle$	3210 $\langle 12^+ \rangle$	3362 $X^{\langle - \rangle}$
2781.00(21)	$\langle 11^+ \rangle$				55(5)							
2901.93(23)	12^+						100					
2917.01(7)	$\langle 4^- - 6^- \rangle$		17.1(13)									
3210.46(23)	$\langle 12^+ \rangle$						100					

(continued)

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		$E_f^*:$ $J_f^\pi:$	2501	2582	2613 $\langle 10^+ \rangle$	2656 $\langle 11^- \rangle$	2781 $\langle 11^+ \rangle$	2902 12^+	2917	3068 $\langle 11^- \rangle$	3210 $\langle 12^+ \rangle$	3362 $X^{(-)}$
3361.94(7)	$X^{(-)}$								21(2)			
3463.09(16)	$\langle 13^- \rangle$				18(3)			1.8(5)		78(3)	2.4(3)	
3485.85(24)	$\langle 12^- \rangle$				100							
3558.3(3)	$\langle 12^- \rangle$				100							
3595.44(8)	$X^{(-)}$		9(1)	39(4)								42(4)
3704.42(24)					73(7)							
3872.15(9)				24(4)					50(6)			
4410.02(9)			18(3)						6(3)			68(6)
4483.67(24)						28(3)	28(3)				44(6)	
4569.28(23)	$\langle 14^+ \rangle$						20(2)				30(3)	
4697.77(16)				56(11)								

Energy levels and branching ratios [99Br39, 90Ba31]. Part 5

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		E^*_f : J^π_f :	3463 $\langle 13^- \rangle$	3486 $\langle 12^- \rangle$	3549 $\langle 14^- \rangle$	3558 $\langle 12^- \rangle$	3567 $\langle 15^- \rangle$	3595 $X^{(-)}$	3704	3952 $\langle 13^- \rangle$	4039	4163 $\langle 16^- \rangle$
3549.10(18)	$\langle 14^- \rangle$		96(3)	4(3)								
3567.4	$\langle 15^- \rangle$				100							
3951.90(25)	$\langle 13^- \rangle$			100								
4163.2	$\langle 16^- \rangle$						100					
4230.6(3)									100			
4419.63(11)								50(4)			31(4)	
4494.5(5)						100						
4569.28(23)	$\langle 14^+ \rangle$									38(8)		
4613.23(22)	$\langle 15^+ \rangle$				64(5)		10(2)			26(5)		
4632.9	$\langle 17^- \rangle$						34(4)					66(7)
4652.2(3)	$\langle 16^+ \rangle$						96(13)					
4685.9(3)	$\langle 17^+ \rangle$											90(20)
4711.9(3)	$\langle 16^+ \rangle$						88(6)					
4744.3	$\langle 17^- \rangle$											100
5377.7	$\langle 18^- \rangle$											6(2)

Energy levels and branching ratios [99Br39, 90Ba31]. Part 6

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		E_f^* : J_f^π :	4231	4484	4569 $\langle 14^+ \rangle$	4613 $\langle 15^+ \rangle$	4633 $\langle 17^- \rangle$	4652 $\langle 16^+ \rangle$	4686 $\langle 17^+ \rangle$	4712 $\langle 16^+ \rangle$	4744 $\langle 17^- \rangle$	4832 $\langle 18^+ \rangle$
4569.28(23)	$\langle 14^+ \rangle$			12(6)								
4613.23(22)	$\langle 15^+ \rangle$				0.8(2)							
4652.2(3)	$\langle 16^+ \rangle$					3.8(9)						
4685.9(3)	$\langle 17^+ \rangle$							10.0(20)				
4711.9(3)	$\langle 16^+ \rangle$		12(3)									
4832.2(3)	$\langle 18^+ \rangle$								100			
5168.9(4)	$\langle 17^+ \rangle$									100		
5212.8(3)	$\langle 19^+ \rangle$											100
5334.6(3)	$\langle 18^+ \rangle$									44(18)		
5377.7	$\langle 18^- \rangle$						75(5)				19(2)	
5514.1(4)	$\langle 19^+ \rangle$											68(17)
5935.4(3)	$\langle 19^- \rangle$						3.3(8)				3.3(8)	11(1)

Energy levels and branching ratios [99Br39, 90Ba31]. Part 7

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		$E_f^*:$ $J_f^\pi:$	5169 $\langle 17^+ \rangle$	5213 $\langle 19^+ \rangle$	5335 $\langle 18^+ \rangle$	5378 $\langle 18^- \rangle$	5514 $\langle 19^+ \rangle$	5875 $\langle 20 \rangle$	5935 $\langle 19^- \rangle$	6010 $\langle 20 \rangle$	6020	6051
5334.6(3)	$\langle 18^+ \rangle$		56(5)									
5486.5(5)			100									
5514.1(4)	$\langle 19^+ \rangle$				32(3)							
5874.6(4)	$\langle 20 \rangle$			100								
5935.4(3)	$\langle 19^- \rangle$			21(4)	16(4)	46(2)						
6009.9(4)	$\langle 20 \rangle$						100					
6019.9(4)				100								
6050.8(4)									100			
6118.6(4)	$\langle 20^- \rangle$								100			
6343.7(5)												100
6477.9(5)										100		
6522.1(5)	$\langle 21 \rangle$							100				
6699.6(4)	$\langle 21 \rangle$										19(3)	

Energy levels and branching ratios [99Br39, 90Ba31]. Part 8

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		E_f^* :	6119	6289	6344	6478	6522	67000	6756	6873	6958	6983
		J_f^π :	$\langle 20^- \rangle$	$\langle 21^- \rangle$			$\langle 21 \rangle$	$\langle 21 \rangle$	$\langle 22^- \rangle$	$\langle 21 \rangle$	$\langle 22 \rangle$	
6288.5(4)	$\langle 21^- \rangle$		100									
6699.6(4)	$\langle 21 \rangle$		81(15)									

(continued)

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		$E_f^*:$ $J_f^\pi:$	6119 $\langle 20^- \rangle$	6289 $\langle 21^- \rangle$	6344	6478	6522 $\langle 21 \rangle$	67000 $\langle 21 \rangle$	6756 $\langle 22^- \rangle$	6873 $\langle 21 \rangle$	6958 $\langle 22 \rangle$	6983
6756.2(4)	$\langle 22^- \rangle$			100								
6873.0(4)	$\langle 21 \rangle$		100									
6958.5(4)	$\langle 22 \rangle$			67(17)						33(17)		
6982.8(5)						100						
7121.4(5)								100				
7137.3(5)					100							
7158.7(5)	$\langle 23 \rangle$								34(13)		66(5)	
7196.9(5)	$\langle 23 \rangle$								100			
7267.7(4)				29(4)				71(36)				
7282.0(5)							100					
7412.7(5)				100								
8218.5(6)												100

Energy levels and branching ratios [99Br39, 90Ba31]. Part 9

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		$E_f^*:$ $J_f^\pi:$	7137	7159 $\langle 23 \rangle$	7197 $\langle 23 \rangle$	7282	7413	7474	7502 $\langle 24 \rangle$	7594	7823	8201
7473.8(5)			100									
7502.5(5)	$\langle 24 \rangle$			100								
7593.8(5)					100							
7823.3(5)					100							
8044.2(6)									100			
8201.3(6)						100						
8259.2(6)						100						
8265.1(6)						100						
8348.9(6)							100					
8381.9(6)												37(11)
8431.1(5)								27(8)	38(12)	12(8)	23(4)	

Energy levels and branching ratios [99Br39, 90Ba31]. Part 10

 $^{206}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage								
		$E_f^*:$ $J_f^\pi:$	8218	8265	8382	8431	8628	8643	8994	
8381.9(6)			53(11)	11(5)						
8627.7(6)					100					
8643.5(6)						100				
8898.3(7)							100			

(continued)

 $^{206}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage						
[keV]	$E_f^*:$ $J_f^\pi:$	8218	8265	8382	8431	8628	8643	8994
8994.3(6)							100	
9724.8(7)								100

Energy levels and branching ratios [93Ma73].

 $^{207}_{84}\text{Po}$

E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
[keV]		
0	5^-	5.80(2) h
68.573(14)	1^-	205(10) ns
236.480(13)	3^-	
392.991(18)	3^-	
588.308(15)	7^-	
685.792(19)	5^-	
814.419(16)	9^-	
907.060(17)	7^-	
1115.073(16)	13^+	49(4) μs
1171.582(17)	$9^-, 7^-$	
1225.604(16)	$7^-, 9^-$	
1274.00(2)	13^-	
1281.65(6)	$7^-, 9^-, 11^-$	
1331.53(8)		
1383.15(6)	19^-	2.79(8) s
1511.23(8)	7^-	
1548.20(3)	$\langle 7^- \rangle$	
1564.3(5)	$\langle 21 \rangle^-$	
1582.197(17)	9^+	
1676.54(5)	$5^+, 7$	
1691.3(5)	$\langle 17 \rangle^+$	
1762.81(6)		
1773.462(18)	11^+	
1781.76(4)	$\langle 7^-, 9^- \rangle$	
1908.8(3)		
2016.42(4)		
2099.02(5)	$3^-, 5^-, 7^-$	
2230.256(19)	9^+	
2294.13(3)	$\langle 9 \rangle^+$	
2303.293(19)	9^+	
2313.5(5)	$\langle 21 \rangle^+$	
2379.6(4)	$\langle 25 \rangle^+$	43.0(3) ns
2393.47(6)		
2414.14(5)	$\langle 9^+, 11^- \rangle$	

(continued)

²⁰⁷Po
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E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
[keV]		
2454.63(4)	$\langle 9^+, 11^- \rangle$	
2583.02(11)	$\langle 5^- \rangle$	
2641.36(5)		
2827.69(4)	$9^+, 11^+$	
2845.89(4)	$9^{\langle + \rangle}, 11^{\langle + \rangle}$	
2860.42(6)	$11, 9^+$	
2870.99(11)		
2879.4(5)	$\langle 27 \rangle^+$	
2887.93(6)	$9, 11$	
2958.08(4)	$\langle 7^- \rangle$	
2961.95(10)		
2963.6(5)	$\langle 27 \rangle^+$	
3036.96(11)	$\langle 5 \rangle$	
3080.11(9)		
3095.91(12)	$\langle 7^+, 9^+ \rangle$	
3137.0(5)	$\langle 29 \rangle^+$	
3179.31(8)	$\langle 9 \rangle$	
3245.69(8)	$\langle 5, 7 \rangle$	
3272.58(7)	$\langle 7, 9 \rangle$	
3300.89(6)	$\langle 7, 9 \rangle$	
3380.46(10)		
3381.2(5)	$\langle 31 \rangle^+$	
3442.56(14)		
3449.90(8)		
3457.86(7)	$\langle 9 \rangle$	
3598.9(5)	$\langle 29 \rangle^-$	
3602.4(5)	$\langle 31^- \rangle$	
3800.8(6)	$\langle 33 \rangle^-$	
3919.5(6)		
4346.3(6)	$\langle 35 \rangle^-$	

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [93Ma73]. Part 2

²⁰⁷Po
84

E^*	$2J^\pi$	Branching ratios in percentage										
		E_f^* :	0	68.6	236.5	393.0	588.3	685.8	814.4	907.1	1115	1172
[keV]		$2J_f^\pi$:	5^-	1^-	3^-	3^-	7^-	5^-	9^-	7^-	13^+	$9^-, 7^-$
68.573(14)	1^-		100									
236.480(13)	3^-		49(3)	51(3)								
392.991(18)	3^-		48(4)	47(3)	5(1)							
588.308(15)	7^-		100									
685.792(19)	5^-		46	41(2)	4.9(4)	8(1)	x					

(continued)

²⁰⁷Po
₈₄

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	0 5 ⁻	68.6 1 ⁻	236.5 3 ⁻	393.0 3 ⁻	588.3 7 ⁻	685.8 5 ⁻	814.4 9 ⁻	907.1 7 ⁻	1115 13 ⁺	1172 9 ⁻ , 7 ⁻
814.419(16)	9 ⁻		100					<0.1				
907.060(17)	7 ⁻		56(3)		31(3)	3.0(4)		10.0(6)				
1115.073(16)	13 ⁺		0.018(syst)						100			
1171.582(17)	9 ⁻ , 7 ⁻		20(1)		≈1.4		35(2)		43(3)			
1225.604(16)	7 ⁻ , 9 ⁻		28(2)				59(5)		13.9(9)			
1274.00(2)	13 ⁻								100			
1281.65(6)	7 ⁻ , 9 ⁻ , 11 ⁻						100					
1331.53(8)			52(8)		48(7)							
1383.15(6)	19 ⁻										100	
1511.23(8)	7 ⁻		33(2)		9(1)	25(3)				22(5)		11(1)
1548.20(3)	⟨7 ⁻ ⟩		56(3)				10(1)	34(2)				
1582.197(17)	9 ⁺						13(6)		3.0(2)	41(3)	43(3)	
1676.54(5)	5 ⁺ , 7		81(5)						19.0(13)			
1691.3(5)	⟨17 ⁺ ⟩										100	
1762.81(6)					<20		41(3)		59(5)			
1773.462(18)	11 ⁺										92(10)	
1781.76(4)	⟨7 ⁻ , 9 ⁻ ⟩		47(3)				42(3)					
1908.8(3)							64(32)			≈36	x	
2016.42(4)			100									
2099.02(5)	3 ⁻ , 5 ⁻ , 7 ⁻		7(2)				29(2)	56(3)				
2230.256(19)	9 ⁺				0.7(2)		8			1.6(2)	38(2)	
2294.13(3)	⟨9 ⁺ ⟩		6(1)								≈19	
2303.293(19)	9 ⁺		0.32(5)						1.6(2)	7.6(4)	9	2.5(2)
2393.47(6)			17(2)				83(6)					
2414.14(5)	⟨9 ⁺ , 11 ⁻ ⟩						8(1)			27(2)	8(2)	33(3)
2454.63(4)	⟨9 ⁺ , 11 ⁻ ⟩										19(2)	81(5)
2583.02(11)	⟨5 ⁻ ⟩		3.8(4)	7(2)				8(2)	9(2)			
2641.36(5)				23(4)			77(9)					
2827.69(4)	9 ⁺ , 11 ⁺										39(2)	
2845.89(4)	9 ⁽⁺⁾ , 11 ⁽⁺⁾										87(5)	
2860.42(6)	11, 9 ⁺								11(2)		56(3)	
2870.99(11)									22(4)			
2887.93(6)	9, 11		1.9(5)								28(2)	39(2)
2958.08(4)	⟨7 ⁻ ⟩				1.4(3)			6(1)				31(2)
2961.95(10)			14(2)				21(3)					
3036.96(11)	⟨5⟩			4.7(9)	≈9							
3080.11(9)			2(1)									18(3)
3095.91(12)	⟨7 ⁺ , 9 ⁺ ⟩		6(2)							28(4)		
3179.31(8)	⟨9⟩		3(1)				18(2)				17(2)	
3245.69(8)	⟨5, 7⟩				8(2)							
3272.58(7)	⟨7, 9⟩	3					19(2)		25(2)	10(1)		
3300.89(6)	⟨7, 9⟩						48(3)		5.7(6)			
3380.46(10)							6(2)		53(5)	17(2)		
3442.56(14)							26(4)			37(4)		

(continued)

 $^{207}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E^*_f : $2J^\pi_f$:	0 5 ⁻	68.6 1 ⁻	236.5 3 ⁻	393.0 3 ⁻	588.3 7 ⁻	685.8 5 ⁻	814.4 9 ⁻	907.1 7 ⁻	1115 13 ⁺	1172 9 ⁻ , 7 ⁻
3449.90(8)							6(1)					
3457.86(7)	(9)		1					6.1(8)			47(3)	

Energy levels and branching ratios [93Ma73]. Part 3

 $^{207}_{84}\text{Po}$

E^*	$2J^\pi$	Branching ratios in percentage										
[keV]		E^*_f : $2J^\pi_f$:	1226 7 ⁻ ,9 ⁻	1274 13 ⁻	1282	1331	1383 19 ⁻	1511 7 ⁻	1548 ⟨7 ⁻ ⟩	1564 ⟨21⟩ ⁻	1582 9 ⁺	1676 5 ⁺ ,7
1383.15(6)	19 ⁻			x								
1564.3(5)	⟨21⟩ ⁻						100					
1773.462(18)	11 ⁺										7.6(5)	
1781.76(4)	⟨7 ⁻ ,9 ⁻ ⟩								11(2)			
2230.256(19)	9 ⁺		1.9(3)								34(2)	0.9(2)
2303.293(19)	9 ⁺		11(1)		4.7(3)				2.6(2)		32(3)	10(1)
2313.5(5)	⟨21⟩ ⁺									9.4(11)		
2827.69(4)	9 ⁺ ,11 ⁺										18(2)	
2845.89(4)	9 ⁽⁺⁾ ,11 ⁽⁺⁾							≈1.0			12.5(10)	
2860.42(6)	11,9 ⁺										12(2)	
2870.99(11)					23(2)							
2887.93(6)	9,11					12(1)					11(3)	
2958.08(4)	⟨7 ⁻ ⟩			4					41(2)			
2961.95(10)			35(14)					30(7)				
3036.96(11)	⟨5⟩		50(11)								7(2)	
3080.11(9)			68(5)									
3179.31(8)	⟨9⟩								9(1)			
3245.69(8)	⟨5,7⟩								9(1)			
3300.89(6)	⟨7,9⟩		19(2)	7							7(1)	
3449.90(8)											8(2)	
3457.86(7)	⟨9⟩										21(1)	

Energy levels and branching ratios [93Ma73]. Part 4

 $^{207}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E^*_f : $2J^\pi_f$:	1691 <17> ⁺	1763	1773 11 ⁺	1782 <7 ⁻ , 9 ⁻ >	1908	2016	2099	2230 9 ⁺	2294 <9> ⁺	2303 9 ⁺
2099.02(5)	3 ⁻ , 5 ⁻ , 7 ⁻			7.7(7)								
2230.256(19)	9 ⁺				14(1)			0.8(2)				
2294.13(3)	<9> ⁺				75(5)							
2303.293(19)	9 ⁺				18(1)							

(continued)

 $^{207}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E_f^*:$ $2J_f^\pi:$	1691 $\langle 17 \rangle^+$	1763	1773 11^+	1782 $\langle 7^-, 9^- \rangle$	1908	2016	2099	2230 9^+	2294 $\langle 9 \rangle^+$	2303 9^+
2313.5(5)	$\langle 21 \rangle^+$		91(5)									
2414.14(5)	$\langle 9^+, 11^- \rangle$				23(8)							
2583.02(11)	$\langle 5^- \rangle$			72(9)								
2827.69(4)	$9^+, 11^+$				32(2)							
2860.42(6)	$11, 9^+$				22(3)							
2870.99(11)									55(4)	<49		
2887.93(6)	9, 11								9(1)			
3036.96(11)	$\langle 5 \rangle$						28(9)					
3095.91(12)	$\langle 7^+, 9^+ \rangle$									51(6)		
3245.69(8)	$\langle 5, 7 \rangle$									41(5)		
3272.58(7)	$\langle 7, 9 \rangle$									43(4)		
3380.46(10)						24(3)						
3442.56(14)												37(11)
3449.90(8)									46(5)			
3457.86(7)	$\langle 9 \rangle$								≤ 4.3		6(1)	10(1)

Energy levels and branching ratios [93Ma73]. Part 5

 $^{207}_{84}\text{Po}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E_f^*:$ $2J_f^\pi:$	2313 $\langle 21 \rangle^+$	2379.6 $\langle 25 \rangle^+$	2393.5	2414.1	2454.6	2641.4	2827.7 $9^+, 11^+$	2879.4 $\langle 27 \rangle^+$	2887.9 $9, 11$	2961.9
2379.6(4)	$\langle 25 \rangle^+$		100									
2827.69(4)	$9^+, 11^+$						12(1)					
2879.4(5)	$\langle 27 \rangle^+$			100								
2958.08(4)	$\langle 7^- \rangle$						18(5)					
2963.6(5)	$\langle 27 \rangle^+$			100								
3080.11(9)								≈ 11				
3095.91(12)	$\langle 7^+, 9^+ \rangle$					15(2)						
3137.0(5)	$\langle 29 \rangle^+$			40(4)						52(4)		
3179.31(8)	$\langle 9 \rangle$					53(4)						
3245.69(8)	$\langle 5, 7 \rangle$				42(4)							
3300.89(6)	$\langle 7, 9 \rangle$								6(1)			
3449.90(8)											8(2)	31(6)
3598.9(5)	$\langle 29 \rangle^-$									100		

Energy levels and branching ratios [93Ma73]. Part 6

 $^{207}_{84}\text{Po}$

E^*	$2J^\pi$	Branching ratios in percentage								
[keV]	$E_f^*:$ $2J_f^\pi:$	2963.6 $\langle 27 \rangle^+$	3037.0 $\langle 5 \rangle$	3137.0 $\langle 29 \rangle^+$	3179.3 $\langle 9 \rangle$	3381.2 $\langle 31 \rangle^+$	3598.9 $\langle 29 \rangle^-$	3602.4 $\langle 31^- \rangle$	3800.8 $\langle 33 \rangle^-$	
3137.0(5)	$\langle 29 \rangle^+$	8.1(7)								
3300.89(6)	$\langle 7,9 \rangle$		7(2)							
3381.2(5)	$\langle 31 \rangle^+$			100						
3457.86(7)	$\langle 9 \rangle$				≈ 8					
3602.4(5)	$\langle 31^- \rangle$			x			x			
3800.8(6)	$\langle 33 \rangle^-$							100		
3919.5(6)						100				
4346.3(6)	$\langle 35 \rangle^-$								100	

Energy levels and branching ratios [86Ma17, 68Tr06].

 $^{208}_{84}\text{Po}$

E^*	J^π	L	I_t	σ (τ, n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(p,t)	$rel.$	$\mu\text{b/sr}$	Γ_{cm}		$E_f^*:$ $J_f^\pi:$	0.0 0 ⁺	686.5 2 ⁺	1347 4 ⁺	1420 3 ⁺	1524 6 ⁺
0.0	0 ⁺	0	29	70(4)	2.898(2) yr	79An07						
686.53(2)	2 ⁺	0	114			73Bh01		100				
1263.0	2 ⁺	2	14			73Bh01		39(4)	61(7)			
1271.6(8)	0 ⁺				465(20) ps			x	x			
1346.57(3)	4 ⁺								100			
1420.20(6)	3 ⁺								100			
1524.18(3)	6 ⁺				4.5(3) ns					100		
1528.22(4)	$\langle 8 \rangle^+$				350(20) ns							100
1539.5	2 ⁺	2	16			73Bh01		20	80			
1583.21(4)	4 ⁺	4	20			73Bh01			89(4)	9(1)	1.4(4)	
2041.24(4)	$\langle 6,7 \rangle^+$											100
2160.09(5)	$\langle 8 \rangle^+$											
2240.5	$\langle 9 \rangle^+$											
2293.60(5)	$\langle 6 \rangle^+$									34(2)		41(2)
2335.35(4)	$\langle 7 \rangle^+$											15(2)
2369.22(4)	$\langle 7 \rangle^-$											95(5)
2414.55(6)	$\langle 7 \rangle^+$											
2507.29(5)	$\langle 5-7 \rangle^+$											90(5)
2526.39(12)	$\langle 5 \rangle^+$									55(8)		19(2)
2554.2	$\langle 10 \rangle^+$											
2555.90(4)	$\langle 7 \rangle^+$											
2574.63(4)	$\langle 6,7 \rangle^-$											
2702.7	$\langle 11 \rangle^-$				8.0(1) ns							
2799.9	$\langle 9 \rangle^-$											
2884.24(5)	5 ⁻									65(3)		35(3)
2926.68(5)	5 ⁻											4.7(5)
3112.95(13)	$\langle 7 \rangle^-$											19(3)
3144.74(10)	$\langle 6-8 \rangle^+$											13(2)

(continued)

 $^{208}_{84}\text{Po}$

E^*	J^π	L	I_t	σ (τ, n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(p,t)	<i>rel.</i>	$\mu\text{b/sr}$	Γ_{cm}		E^*_f : J^π_f :	0.0 0^+	686.5 2^+	1347 4^+	1420 3^+	1524 6^+
3201.62(6)	$\langle 6-8 \rangle^+$											
3399.5	$\langle 12 \rangle^-$											
3535.29(7)	$\langle 5,6 \rangle^+$											4.0(11)
3545.3	$\langle 13 \rangle^-$											
3553.50(7)	$\langle 6 \rangle^-$									11.4(7)		36(2)
3564.54(4)	$\langle 6 \rangle^-$											
3682.54(6)	$\langle 6 \rangle^-$									13(1)		5.2(5)
3808.03(7)	$\langle 6,7 \rangle^-$											5.5(7)
3899.8	$\langle 11-13 \rangle^-$											
4019.18(9)	X^-											61(6)
4057.1	$\langle 14 \rangle^-$											
4061.7	$\langle 15 \rangle^-$											
4160.8												
4166.68(7)	$\langle 6,7 \rangle^-$											9.3(9)
4251.44(12)	X^-											
4509.37(11)	$\langle 6-8 \rangle^+$											
4660.2	$\langle 15 \rangle^-$											
4918.0	$\langle 16 \rangle^+$											
5077.6	X^+											
5102.3												
5116.8	$\langle 17 \rangle^+$											
5406.6	X^+											
5475.1	$\langle 18 \rangle^+$											
5899.9	$\langle 19 \rangle^+$											
32460(170)	$\langle 0^+ \rangle$											
				73Bh01		Ref.						

The yield of tritons from (p,t) reaction is presented by numbers of counts taken from the figure in paper [73Bh01] (in units counts per 0.4 mm strip).

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [86Ma17, 68Tr06]. Part 2

 $^{208}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	1528.2 $\langle 8 \rangle^+$	1583.2 4^+	2041.2 $\langle 6,7 \rangle^+$	2160.1 $\langle 8 \rangle^+$	2240.5 $\langle 9 \rangle^+$	2293.6 $\langle 6 \rangle^+$	2335.3 $\langle 7 \rangle^+$	2369.2 $\langle 7 \rangle^-$	2414.6 $\langle 7 \rangle^+$	2507.3
2160.09(5)	$\langle 8 \rangle^+$		100									
2240.5	$\langle 9 \rangle^+$		100									
2293.60(5)	$\langle 6 \rangle^+$		2(1)	7(1)	16(1)							
2335.35(4)	$\langle 7 \rangle^+$		72(3)		13(1)							
2369.22(4)	$\langle 7 \rangle^-$		4.1(3)		1.4(2)							
2414.55(6)	$\langle 7 \rangle^+$		77(5)		14.1(18)	9(3)						
2507.29(5)	$\langle 5-7 \rangle^+$							7.1(12)	2.4(6)			

(continued)

 $^{208}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	1528.2 $\langle 8 \rangle^+$	1583.2 4^+	2041.2 $\langle 6,7 \rangle^+$	2160.1 $\langle 8 \rangle^+$	2240.5 $\langle 9 \rangle^+$	2293.6 $\langle 6 \rangle^+$	2335.3 $\langle 7 \rangle^+$	2369.2 $\langle 7 \rangle^-$	2414.6 $\langle 7 \rangle^+$	2507.3
2526.39(12)	$\langle 5 \rangle^+$				26(2)							
2554.2	$\langle 10 \rangle^+$		45(4)				55					
2555.90(4)	$\langle 7 \rangle^+$		91(4)			6.7(5)		2.1(5)				
2574.63(4)	$\langle 6,7 \rangle^-$									100		
2702.7	$\langle 11 \rangle^-$		29(3)									
2799.9	$\langle 9 \rangle^-$									100		
2926.68(5)	5^-			84(3)								
3112.95(13)	$\langle 7 \rangle^-$		20(6)		23(3)							10(2)
3144.74(10)	$\langle 6-8 \rangle^+$		42(5)								12(3)	33(3)
3201.62(6)	$\langle 6-8 \rangle^+$				5.6(10)					3.5(5)		91(5)
3535.29(7)	$\langle 5,6 \rangle^+$			4.0(11)								
3553.50(7)	$\langle 6 \rangle^-$		8(3)	2.2(5)				2.1(7)		2(1)	6(1)	
3564.54(4)	$\langle 6 \rangle^-$				0.96(10)			0.5(2)	16.2(12)	7.7(4)		0.59(8)
3682.54(6)	$\langle 6 \rangle^-$				5(1)							
3808.03(7)	$\langle 6,7 \rangle^-$								8.0(9)	50(2)		5.8(12)
4019.18(9)	X^-							7.2(12)				31(2)
4166.68(7)	$\langle 6,7 \rangle^-$		37(3)		15(1)			9.3(7)	2.0(3)	13.8(9)	4.0(4)	
4251.44(12)	X^-			2.9(7)		≈ 5			6.8(6)			
4509.37(11)	$\langle 6-8 \rangle^+$				22(2)			15(6)	9(3)		44(3)	

Energy levels and branching ratios [86Ma17, 68Tr06]. Part 3

 $^{208}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	2526.4 $\langle 5 \rangle^+$	2554.2 $\langle 10 \rangle^+$	2555.9 $\langle 7 \rangle^+$	2574.6 $\langle 6,7 \rangle^-$	2702.7 $\langle 11 \rangle^-$	2884.2 5^-	2926.7 5^-	3112.9 $\langle 7 \rangle^-$	3144.7	3201.6
2702.7	$\langle 11 \rangle^-$			71								
2926.68(5)	5^-		12(5)									
3112.95(13)	$\langle 7 \rangle^-$					29(3)						
3399.5	$\langle 12 \rangle^-$						100					
3535.29(7)	$\langle 5,6 \rangle^+$										14.1(19)	78(5)
3553.50(7)	$\langle 6 \rangle^-$							22(6)	10.3(7)			
3564.54(4)	$\langle 6 \rangle^-$		3.4(3)		11.7(12)	56(4)				3.1(3)		
3682.54(6)	$\langle 6 \rangle^-$				4(1)	15(1)		16(2)	41(2)			
3808.03(7)	$\langle 6,7 \rangle^-$					13(2)		18.3(12)				
4166.68(7)	$\langle 6,7 \rangle^-$							9.5(9)				
4251.44(12)	X^-								4.1(11)			3.3(4)
4509.37(11)	$\langle 6-8 \rangle^+$		11(2)									

Energy levels and branching ratios [86Ma17, 68Tr06]. Part 4

 ^{208}Po
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E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	3399.5 $\langle 12 \rangle^-$	3535.3 $\langle 5,6 \rangle^+$	3545.3 $\langle 13 \rangle^-$	3553.5 $\langle 6 \rangle^-$	4057.1 $\langle 14 \rangle^-$	4061.7 $\langle 15 \rangle^-$	4660.2 $\langle 15 \rangle^-$	4918.0 $\langle 16 \rangle^+$	5116.8 $\langle 17 \rangle^+$	5475.1 $\langle 18 \rangle^+$
3545.3	$\langle 13 \rangle^-$		100									
3899.8	$\langle 11-13 \rangle^-$		100									
4057.1	$\langle 14 \rangle^-$				100							
4061.7	$\langle 15 \rangle^-$				100							
4160.8		100										
4251.44(12)	X^-			6.7(11)		71(4)						
4660.2	$\langle 15 \rangle^-$						100					
4918.0	$\langle 16 \rangle^+$							82	18			
5077.6	X^+									100		
5102.3										100		
5116.8	$\langle 17 \rangle^+$									100		
5406.6	X^+									100		
5475.1	$\langle 18 \rangle^+$										100	
5899.9	$\langle 19 \rangle^+$											100

Energy levels and branching ratios [91Ma16].

 ^{209}Po
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E^* [keV]	$2J^\pi$	L	S_N	C^2S	I_t	S_N	I_d	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage					
										E_f^* : $2J_f^\pi$:	0.0 1 ⁻	545 5 ⁻	854 3 ⁻	1175 5 ⁻	1327 9 ⁻
0.0	1 ⁻	1	1.05	2.10	1560	1.00	750	102(5) yr	79Bh01						
544.95(8)	5 ⁻	3	1.05	6.31	780	0.92	300	70(20) ps	79Bh01	100					
854.32(15)	3 ⁻	1	0.81	1.24	1560	0.83	625		79Bh01	100					
1175.3(1)	5 ⁻	3	0.07	0.41	35	0.17	25		79Bh01	74(4)	26.3(11)				
1214(1)	1 ⁻ , 3 ⁻	1	0.14	0.55	177		75		79Bh01	100					
1326.8(1)	9 ⁻											99.9(26)		0.10(1)	
1408.8(1)	7 ⁻											57(2)	17(2)	26(2)	
1417.6(1)	$\langle 13 \rangle^-$							24.7(8) ns	00Po03						100
1472.5(1)	$\langle 17^- \rangle$							93(5) ns	00Po03						
1521.8(1)	11 ⁻							70(20) ps							90(5)
1715.6(1)	9 ⁻											86(3)			13.7(8)
1761.0(1)	13 ⁺	6	0.69	9.67	71				79Bh01						
1937.6(1)	$\langle 17^- \rangle$								00Po03						
1990.9(1)	7 ⁻	3	0.07	0.55	35				79Bh01			70(4)		30(4)	
2029.7(1)	$\langle 19^- \rangle$								00Po03						
2061(10)	5 ⁻ , 7 ⁻	$\langle 3 \rangle$			6				79Bh01						
2082(10)	5 ⁻ , 7 ⁻	$\langle 3 \rangle$			12				79Bh01						
2166.8(1)	$\langle 21^- \rangle$								00Po03						
2186(10)	5 ⁻ , 7 ⁻	$\langle 3 \rangle$			18				79Bh01						
2206(10)	5 ⁻ , 7 ⁻	$\langle 3 \rangle$			12				79Bh01						
2239(10)	5 ⁻ , 7 ⁻	3	0.22	1.72					79Bh01						
2312.0(1)	9 ⁺											0.68(5)		0.09(1)	1.1(2)

(continued)

²⁰⁹Po
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E^* [keV]	$2J^\pi$	L (d,t)	S_N (d,t)	C^2S (d,t)	I_t <i>rel.</i>	S_N (p,d)	I_d <i>rel.</i>	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage					
										E_f^* : $2J_f^\pi$:	0.0 1 ⁻	545 5 ⁻	854 3 ⁻	1175 5 ⁻	1327 9 ⁻
2339(10)	5 ⁻ ,7 ⁻	3	0.09	0.75	120				79Bh01						
2363(10)	5 ⁻ ,7 ⁻	3	0.11	0.81	53				79Bh01						
2654.3(2)	$\langle 1-5 \rangle$									3.3(11)	49(3)		48(4)		
2664(10)	5 ⁻ ,7 ⁻	3	0.19	1.50	59				79Bh01						
2769.9(1)	$\langle 23^+ \rangle$							2.5(7) ns	00Po03						
2835.59(13)	$\langle 9^+, 11^- \rangle$														
2864.43(11)	11 ⁺										0.09(3)			6.0(3)	
2902.29(11)	11 ⁺										0.42(14)			67(5)	
2908.38(10)	11 ⁺										0.34(4)			44(2)	
2976.5(1)	$\langle 25^+ \rangle$								00Po03						
2978.19(10)	11 ⁺										0.27(4)			0.81(7)	
3072.60(12)	$\langle 9^+ \rangle$										0.9(3)			28(2)	
3251.57(24)															
3620.4(1)	$\langle 27^+ \rangle$								00Po03						
4168.5(1)	$\langle 29^+ \rangle$								00Po03						
4265.6(1)	$\langle 31^- \rangle$							119(4) ns	00Po03						
4354.2(1)	$\langle 31^- \rangle$								00Po03						
4531	33 ⁻								00Po03						
5356	35 ⁻								00Po03						
5504	37 ⁺								00Po03						
6233	39 ⁺								00Po03						
6303	$\langle 39^+ \rangle$								00Po03						
6464	$\langle 41^+ \rangle$								00Po03						
6739	$\langle 43^+ \rangle$								00Po03						
6808	$\langle 41^+ \rangle$								00Po03						
7159	$\langle 45^+ \rangle$								00Po03						
7248	$\langle 43^+ \rangle$								00Po03						
7693	$\langle 47^+ \rangle$								00Po03						
8391	$\langle 47^- \rangle$								00Po03						
16324(13)	$\langle 9^- \rangle$														

Additional data on this isotope can be found in [04He25, 00Po03, 00He17].

The yield of tritons I_t from (d,t) reaction and deuterons I_d from (p,d) reaction are presented by numbers taken from the figures in paper [79Bh01] (in units number of tracks per 0.2 mm strip).

$S_N = C^2S / (2J + 1)$; in order to extract S_N , the authors assume the correspondence $p_{3/2}$ for $L=1$, except $p_{1/2}$ for the ground state, $f_{7/2}$ for $L=3$ and $i_{12/2}$ for $L=6$ [91Ma16].

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [91Ma16]. Part 2

²⁰⁹Po
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E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	1409 7 ⁻	1417.6 ⟨13 ⁻ ⟩	1472.5 ⟨17 ⁻ ⟩	1521.8 11 ⁻	1715.6 9 ⁻	1761.0 13 ⁺	1990.9 7 ⁻	2029.7 ⟨19 ⁻ ⟩	2166.8 ⟨21 ⁻ ⟩	2312.0 9 ⁺
1472.5(1)	⟨17 ⁻ ⟩			100								
1521.8(1)	11 ⁻		0.47(7)	9.5(14)								
1761.0(1)	13 ⁺					100						
1937.6(1)	⟨17 ⁻ ⟩			77	23.2							
2029.7(1)	⟨19 ⁻ ⟩				100							
2166.8(1)	⟨21 ⁻ ⟩				60					40		
2312.0(1)	9 ⁺		4.91(14)			85.5(23)	0.3(3)	6.6(3)	0.85(4)			
2769.9(1)	⟨23 ⁺ ⟩				11.6						88	
2835.59(13)	⟨9 ⁺ , 11 ⁻ ⟩		12(3)					88(8)				
2864.43(11)	11 ⁺						9.5(11)	65(2)				19(3)
2902.29(11)	11 ⁺			7.0(7)				25(2)				
2908.38(10)	11 ⁺			6.7(4)			3.8(4)	34(2)				11(4)
2978.19(10)	11 ⁺					2.4(2)	37(1)	22(1)				37(1)
3072.60(12)	⟨9 ⁺ ⟩						54(3)	17(2)				
3251.57(24)						11(2)						40(8)

Energy levels and branching ratios [91Ma16]. Part 3

²⁰⁹Po
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E^* [keV]	$2J^\pi$	Branching ratios in percentage					
		E_f^* : $2J_f^\pi$:	2769.9 ⟨23 ⁺ ⟩	2835.6	2976.5 ⟨25 ⁺ ⟩	3620.4 ⟨27 ⁺ ⟩	4168.5 ⟨29 ⁺ ⟩
2976.5(1)	⟨25 ⁺ ⟩		100				
3251.57(24)				49(17)			
3620.4(1)	⟨27 ⁺ ⟩				100		
4168.5(1)	⟨29 ⁺ ⟩					100	
4265.6(1)	⟨31 ⁻ ⟩				80		20
4354.2(1)	⟨31 ⁻ ⟩				x		x

Energy levels and branching ratios [03Br13].

²¹⁰Po
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E^*	J^π	S_N	C^2S	S_N	C^2S	$\sigma(\alpha, t)$	$\sigma(\tau, d)$	$\sigma(\tau, n)$	$T_{1/2}$ or	Ref.
[keV]		(τ, d)	(τ, d)	(α, t)	(τ, t)	$\mu b/sr$	$\mu b/sr$	$\mu b/sr$	Γ_{cm}	
0.0*	0 ⁺							81(7)	138.376(2) d	79An07
1181.40(2)	2 ⁺	1.16(22)*		1.00(6)	1.0	190	7		5.9(12) ps	80Gr09
1426.70(1)	4 ⁺	1.58(28)*		1.79(7)	1.8	330	10		1.53(5) ns	80Gr09
1473.34(2)	6 ⁺	2.63(25)*		2.64(9)	2.6	498	16		42.6(10) ns	80Gr09
1556.96(3)	8 ⁺	3.42(26)*		3.40(11)	3.4	612	23		98.9(25) ns	80Gr09
2187.96(3)	8 ⁺	1.64(5)**		1.71(3)	1.7	350	120			80Gr09

(continued)

²¹⁰Po
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E^*	J^π	S_N	C^2S	S_N	C^2S	$\sigma(\alpha, t)$	$\sigma(\tau, d)$	$\sigma(\tau, n)$	$T_{1/2}$ or	Ref.
[keV]		(τ, d)	(τ, d)	(α, t)	(τ, t)	$\mu\text{b/sr}$	$\mu\text{b/sr}$	$\mu\text{b/sr}$	Γ_{cm}	
2290.10(4)	2 ⁺	0.42(2)**		0.42(1)	0.5	82	30			80Gr09
2326.00(2)	6 ⁺	1.26(4)**		1.31(3)	1.3	256	91			80Gr09
2382.55(2)	4 ⁺	$\langle 0.90 \rangle^{**}$		$\langle 0.90 \rangle$						80Gr09
2386.78(2)	3 ⁻								≈ 0.3 ps	
2393.76(6)	1 ⁺	$\langle 0.35 \rangle^{**}$		$\langle 0.31 \rangle$		602	360			80Gr09
2403.27(2)	5 ⁺	$\langle 1.10 \rangle^{**}$		$\langle 1.10 \rangle$						80Gr09
2413.77(3)	3 ⁺	$\langle 0.75 \rangle^{**}$		$\langle 0.72 \rangle$						80Gr09
2438.35(3)	7 ⁺	1.50(6)**		1.51(3)	1.5	287	incl			80Gr09
2608.56(7)	0 ⁺							99(9)		79An07
2658(10)										
2845.96(7)	$\langle 3 \rangle^-$									
2849.16(3)	11 ⁻			3.25(6)	2.3	546	15		19.6(4) ns	
2872(1)						22	7			
2910.05(2)	5 ⁻			0.31(1)	1.1	50	2			80Gr09
2999.48(3)	$\langle 9 \rangle^-$			$\langle 1.88 \rangle$						80Gr09
3016.47(3)	$\langle 7 \rangle^-$			$\langle 1.53 \rangle$						80Gr09
3023.73(4)	$\langle 2 \rangle^-$			$\langle 0.54 \rangle$						80Gr09
3026.42(2)	5 ⁻			$\langle 0.78 \rangle$		834	22			80Gr09
3075.13(3)	$\langle 4 \rangle^-$			0.78(2)	0.9	126	8			80Gr09
3094.5(1)	4 ⁺									
3111.64(2)	4 ⁻									
3125.13(3)	$\langle 6 \rangle^-$			$\langle 1.34 \rangle$		526	14			80Gr09
3138.00(4)	$\langle 8 \rangle^-$			$\langle 1.66 \rangle$						80Gr09
3182.77(3)	10 ⁻			2.11(4)	2.1	352	10			80Gr09
3218.98(4)	$\langle 6 \rangle^+$									
3428.58(2)	5 ⁻									
3477.3(3)										
3525.34(3)	6 ⁻									
3637.5(2)										
3685.39(4)	7 ⁻									
3693.9(2)										
3699.59(6)	5 ⁻									
3710.99(9)	$\langle 5 \rangle^-$									
3727.28(6)	$\langle 6 \rangle^-$									
3779.91(6)	$\langle 4, 5 \rangle^-$									
3780.19(5)	7 ⁻									
3792(1)	$\langle 2 \rangle^+$			0.35(2)	0.5	27	2			80Gr09
4025.78(5)	$\langle 7-9 \rangle^-$									
4029.1(3)	$\langle 4 \rangle^+$			0.60	0.9	46	49			80Gr09
4043.4(3)										
4105.1(3)										
4141.1(4)	$\langle 6 \rangle^+$	0.20***		0.82	1.3	52	110			80Gr09
4145.41(6)	$\langle 10 \rangle^-$									
4237(10)										
4320(1)	$\langle 3 \rangle^+$			0.86(4)	0.7	53	62			80Gr09

(continued)

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E^*	J^π	S_N	C^2S	S_N	C^2S	$\sigma(\alpha, t)$	$\sigma(\tau, d)$	$\sigma(\tau, n)$	$T_{1/2}$ or	Ref.
[keV]		(τ, d)	(τ, d)	(α, t)	(τ, t)	$\mu\text{b/sr}$	$\mu\text{b/sr}$	$\mu\text{b/sr}$	Γ_{cm}	
4324.11(3)	$\langle 11 \rangle^-$									
4329.5(4)										
4346(10)										
4371.94(3)	13^-								54(2) ns	
4382(1)	$\langle 5^+ \rangle$			1.19(5)	1.1	77	97			80Gr09
4386.9(4)										
4469.6(3)	$\langle 6^+ \rangle$	0.56(4)***	1.3	0.55(3)		35	190			80Gr09
4502.80(7)	$\langle 12^- \rangle$									
4542.1(3)	$\langle 4^+ \rangle$									
4553.6(4)	$\langle 7^+ \rangle$	0.35(7)***	0.9	1.8(1)	1.5	108	230			80Gr09
4592.5(4)	$\langle 3^+ \rangle$	$\langle 0.75 \rangle^{***}$				42	690			80Gr09
4621.5(3)	$\langle 3^+ \rangle$									
4624(1)	$\langle 5^+ \rangle$	$\langle 1.35 \rangle^{***}$								80Gr09
4637.5(3)										
4644.9(5)	$\langle 6^+ \rangle$	$\langle 0.55 \rangle^{***}$								80Gr09
4660.4(3)										
4777.28(8)	14^-									
4948.1(3)										
4971.3(1)	$11^-, 12^-$									
4974.4(5)										
4991(1)		0.34(2)****				<5	88			80Gr09
4998.2(5)										
5041(1)		0.12(1)****				<5	32			80Gr09
5057.61(4)	16^+								263(5) ns	
5186(1)		0.19(2)****				<5	49			80Gr09
5270(1)		0.65(3)****				<7	170			80Gr09
		80Gr09				80Gr09	80Gr09	79An07		Ref.

Additional data on this isotope can be found in [99Kl03, 95Om01, 93Vo02, 93Di09].

* $(\pi 1h_{9/2})^2$ configuration; $L=5$ transfer.

** $((\pi 1h_{9/2})(\pi 2f_{7/2}))$ configuration; $L=3$ transfer.

*** $((\pi 1h_{9/2})(\pi 3p_{3/2}))$ configuration; $L=1$ transfer.

**** Assumed $((\pi 1h_{9/2})(\pi 3p_{1/2}))$ configuration; $L=1$ transfer.

The levels with the $2h_{9/2}^2$, $1h_{9/2}2f_{7/2}$ and $1h_{9/2}1i_{13/2}$ configurations are considered in [95Om01].

Calculated values are given in brackets, theoretical estimates of C^2S – in Supplement.

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [03Br13]. Part 2

 $^{210}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	0.0 0 ⁺	1181 2 ⁺	1427 4 ⁺	1473 6 ⁺	1557 8 ⁺	2188.0 8 ⁺	2290.1 2 ⁺	2326.0 6 ⁺	2382.5 4 ⁺	2386.8 3 ⁻
1181.40(2)	2 ⁺		100									
1426.70(1)	4 ⁺			100								
1473.34(2)	6 ⁺				100							
1556.96(3)	8 ⁺					100						
2187.96(3)	8 ⁺						100					
2290.10(4)	2 ⁺		90(2)	10(1)								
2326.00(2)	6 ⁺				1.8(3)	95(1)	3.5(3)					
2382.55(2)	4 ⁺			6.0(8)	89(1)	5.2(4)			0.04(2)			
2386.78(2)	3 ⁻		0.9(3)	89(1)	10(1)							
2393.76(6)	1 ⁺		73(4)	27(4)								
2403.27(2)	5 ⁺				48(1)	48(1)				3.2(9)	0.05(3)	
2413.77(3)	3 ⁺			81(3)	13(2)				6.8(10)			
2438.35(3)	7 ⁺					26.7(1)	40(1)	31(2)		2.6(4)		
2608.56(7)	0 ⁺	x		100								
2845.96(7)	⟨3⟩ ⁻			72(7)								28(12)
2849.16(3)	11 ⁻						95(1)	4.65(23)				
2910.05(2)	5 ⁻				61(1)	37(1)					0.9(2)	
2999.48(3)	⟨9⟩ ⁻						24(1)	76(2)				
3016.47(3)	⟨7⟩ ⁻					65(2)	<36			23(5)		
3023.73(4)	⟨2⟩ ⁻											77(4)
3026.42(2)	5 ⁻				80(2)	≤0.6					2.72(12)	6(2)
3075.13(3)	⟨4⟩ ⁻				56(2)						8(5)	30(5)
3094.5(1)	4 ⁺			8(1)	7(3)					8(4)		
3111.64(2)	4 ⁻				9(3)						5(2)	67(7)
3125.13(3)	⟨6⟩ ⁻									35(3)		
3138.00(4)	⟨8⟩ ⁻						35(2)	35(3)				
3182.77(3)	10 ⁻						11(1)					
3218.98(4)	⟨6⟩ ⁺					39(18)		5(2)				
3428.58(2)	5 ⁻			1.3(2)	6	18(1)					6.3(8)	14(4)
3477.3(3)								100				
3525.34(3)	6 ⁻					6(1)						
3637.5(2)												100
3685.39(4)	7 ⁻					19(3)	18(2)	43(2)		20(2)		
3693.9(2)												100
3699.59(6)	5 ⁻				57(3)	18(3)			<10	14(3)		11(2)
3710.99(9)	⟨5⟩ ⁻				39(6)	37(5)						
3727.28(6)	⟨6⟩ ⁻					20(3)						
3779.91(6)	⟨4,5⟩ ⁻				42(4)	13(1)						
3780.19(5)	7 ⁻							88(4)		12(4)		
4025.78(5)	⟨7-9⟩ ⁻						21(3)	79(3)				
4029.1(3)	⟨4⟩ ⁺				100							
4043.4(3)								100				
4105.1(3)								100				
4141.1(4)	⟨6⟩ ⁺					17(6)	57(11)	17(6)				
4324.11(3)	⟨11⟩ ⁻						3.2(4)					

(continued)

 $^{210}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	0.0 0 ⁺	1181 2 ⁺	1427 4 ⁺	1473 6 ⁺	1557 8 ⁺	2188.0 8 ⁺	2290.1 2 ⁺	2326.0 6 ⁺	2382.5 4 ⁺	2386.8 3 ⁻
4329.5(4)										100		
4386.9(4)								71(7)		29(11)		
4469.6(3)	$\langle 6^+ \rangle$						77(12)	15(8)		8(6)		
4542.1(3)	$\langle 4^+ \rangle$				50(15)						20(5)	
4553.6(4)	$\langle 7^+ \rangle$						56(11)	44(11)				
4592.5(4)	$\langle 3^+ \rangle$	100										
4621.5(3)	$\langle 3^+ \rangle$								22(11)		20(7)	
4637.5(3)										14(5)	54(8)	
4644.9(5)	$\langle 6^+ \rangle$							100				
4660.4(3)										57(23)	43(14)	
4948.1(3)						67(33)						
4974.4(5)								100				
4998.2(5)								100				

Energy levels and branching ratios [03Br13]. Part 3

 $^{210}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	2393.8 1 ⁺	2403.3 5 ⁺	2413.8 3 ⁺	2438.3 7 ⁺	2849.2 11 ⁻	2910.0 5 ⁻	2999.5 $\langle 9 \rangle^-$	3026.4 5 ⁻	3111.6 4 ⁻	3125.1 $\langle 6 \rangle^-$
2608.56(7)	0 ⁺	<42										
2910.05(2)	5 ⁻			0.91(2)								
3016.47(3)	$\langle 7 \rangle^-$					12.7(11)						
3023.73(4)	$\langle 2 \rangle^-$				23(5)							
3026.42(2)	5 ⁻			3.1(10)				7.8(10)				
3075.13(3)	$\langle 4 \rangle^-$				5(2)							
3094.5(1)	4 ⁺			77(11)								
3111.64(2)	4 ⁻							19(3)				
3125.13(3)	$\langle 6 \rangle^-$			65(6)								
3138.00(4)	$\langle 8 \rangle^-$					29(5)						
3182.77(3)	10 ⁻						74(1)		14.7(19)			
3218.98(4)	$\langle 6 \rangle^+$					56(2)						
3428.58(2)	5 ⁻							8(4)		39.4(10)	8.1(6)	
3525.34(3)	6 ⁻			30(7)		21(2)		34(2)		10(2)		
3710.99(9)	$\langle 5 \rangle^-$			23(5)								
3727.28(6)	$\langle 6 \rangle^-$			8		25(3)		29(3)		8		2.0(3)
3779.91(6)	$\langle 4,5 \rangle^-$							45(6)				
4141.1(4)	$\langle 6^+ \rangle$					9(6)						
4145.41(6)	$\langle 10 \rangle^-$								10(5)			
4324.11(3)	$\langle 11 \rangle^-$							89.8(22)				
4371.94(3)	13 ⁻							99				
4502.80(7)	$\langle 12 \rangle^-$							51(6)				
4542.1(3)	$\langle 4^+ \rangle$			30(10)								

(continued)

 $^{210}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		$E_f^*:$ $J_f^\pi:$	2393.8 1 ⁺	2403.3 5 ⁺	2413.8 3 ⁺	2438.3 7 ⁺	2849.2 11 ⁻	2910.0 5 ⁻	2999.5 ⟨9⟩ ⁻	3026.4 5 ⁻	3111.6 4 ⁻	3125.1 ⟨6⟩ ⁻
4621.5(3)	⟨3 ⁺ ⟩		13(4)		44(13)							
4637.5(3)				32(16)								
4948.1(3)				33(17)								

Energy levels and branching ratios [03Br13]. Part 4

 $^{210}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage								
		E_f^* :	3182.8	3428.6	3525.3	4145.4	4324.1	4371.9	4502.8	4777.3
[keV]		J_f^π :	10 ⁻	5 ⁻	6 ⁻	$\langle 10 \rangle^-$	$\langle 11 \rangle^-$	13 ⁻	$\langle 12^- \rangle$	14 ⁻
3727.28(6)	$\langle 6 \rangle^-$			5(1)	2.6(5)					
4145.41(6)	$\langle 10 \rangle^-$		90(6)							
4324.11(3)	$\langle 11 \rangle^-$					6.9(18)				
4371.94(3)	13 ⁻						0.70(5)			
4502.80(7)	$\langle 12^- \rangle$					11(4)	38(13)			
4777.28(8)	14 ⁻							93(9)	7.0(9)	
4971.3(1)	11 ⁻ , 12 ⁻					6.5(17)		94(29)		
5057.61(4)	16 ⁺							92(3)		8.3(7)

Energy levels and branching ratios [91Ar04, 04Br45].

 $^{211}_{84}\text{Po}$

E^*	$2J^\pi$	L	S_N	I_p	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(d,p)	(d,p)	$rel.$	Γ_{cm}		$E_f^*:$ $2J_f^\pi:$	0.0 9 ⁺	687 11 ⁺	1051 5 ⁺	1065 15 ⁻	1122 7 ⁺
0.0	9 ⁺	1	0.89	364	0.516(3) s	79Bh01						
687.2(7)	11 ⁺	6	0.95	130		79Bh01		100				
1050.9(10)	5 ⁺	2	0.28	208		79Bh01		100				
1064.8(8)	15 ⁻				14.0(2) ns			96	4			
1121.8(8)	7 ⁺							100				
1160.6(7)	⟨9 ⁺ ⟩			36		79Bh01		100				
1181.4(8)	⟨13 ⁺ ⟩							99	1.4			
1385.2	⟨3 ⁺ ⟩ ⁺	2	0.08	47		79Bh01				100		
1407.2	X ⁽⁺⁾					04Br45		70				25
1409.4(7)	X ⁽⁺⁾					04Br45		72				22
1427.8(13)	⟨17 ⁺ ⟩					04Br45					100	
1427.8+X					25.0(14) ns							
1436.6	⟨5 ⁺ -9 ⁺ ⟩	⟨2⟩	0.05	26		79Bh01		71				11
1443.0(15)	3 ⁺ -7 ⁺									100		
1458.9(13)												
1462(6)	⟨25 ⁺ ⟩				25.2(6) s							

(continued)

²¹¹Po
₈₄

E^*	$2J^\pi$	L	S_N	I_p	$T_{1/2}$ or	Ref.	E_f^* : $2J_f^\pi$:	Branching ratios in percentage				
[keV]		(d,p)	(d,p)	<i>rel.</i>	Γ_{cm}		9^+	11^+	5^+	15^-	7^+	
1508.3(13)	$X^{(+)}$					04Br45					93	
1509.3	$X^{(+)}$					04Br45			100			
1517.2(13)	$X^{(+)}$					04Br45						
1541.8(17)												
1578.0(18)	$\langle 1 \rangle$				3.5 ns							
1585.1(15)	$X^{(+)}$					04Br45			100			
1612.4(15)									42		43	
1614.3	$\langle 5^+, 7^+ \rangle$					04Br45						
1615.6(17)												
1637.8(13)	$X^{(+)}$					04Br45					65	
1656.8+x						04Br45						
1696.6(17)	$X^{(+)}$					04Br45						
1716.2(13)								100				
1727.0								100				
1735.9+x						04Br45						
1739.3	$X^{(+)}$					04Br45						
1786.3(17)						04Br45						
1798.0(13)	$3^+, 5^+$	2	0.40	348		79Bh01		100				
1809.2								100				
1820.3(9)	$\langle 27^+ \rangle$					04Br45						
1852.5(17)						04Br45						
1876.7								100				
1902.8+x						04Br45						
1904.2+x						04Br45						
1914.7(17)						04Br45						
1939.1+x						04Br45						
1944.3(13)								100				
1978.3+x						04Br45						
1994.9+x						04Br45						
2023.6				73		79Bh01			100			
2028.6											100	
2034.2									100			
2076.9	$X^{(+)}$					04Br45						
2079.0									100			
2084(10)	1^+	0	0.56	166		79Bh01						
2093.7(17)						04Br45						
2094.0						04Br45						
2104.3+x						04Br45						
2112.0									76			
2135.7(9)	$\langle 31^- \rangle$				243(21) ns	04Br45						
2161(10)	$\langle 1^+ \rangle$	$\langle 0 \rangle$	0.20			79Bh01						
2186.9+x						04Br45						
2218.8(17)						04Br45						
2223.7(20)												
2277.9(15)									100			

(continued)

 $^{211}_{84}\text{Po}$

E^*	$2J^\pi$	L	S_N	I_p	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(d,p)	(d,p)	<i>rel.</i>	Γ_{cm}		$E_f^*:$ $2J_f^\pi:$	0.0 9 ⁺	687 11 ⁺	1051 5 ⁺	1065 15 ⁻	1122 7 ⁺
2297.8												
2300.0												
2315(10)				42		79Bh01						
2339.5(18)												
2353.2(17)						04Br45						
2364(10)												
2390(10)												
2414(10)												
2431.4(17)						04Br45						
2443.2+x						04Br45						
2456(10)				104		79Bh01						
2547.9												
2560(10)				78		79Bh01						
2606(10)	7 ⁺ ,9 ⁺	4	0.29	140		79Bh01						
2639(10)	7 ⁺ ,9 ⁺	4	0.12			79Bh01						
2661(10)	3 ⁺ ,5 ⁺	2	0.13	104		79Bh01						
2691(10)												
2753(10)				36		79Bh01						
2840.2(13)						04Br45						
2862(10)	7 ⁺ ,9 ⁺	4	0.32	166		79Bh01						
2866.6(12)	$\langle 33^- \rangle$					04Br45						
2910(10)	3 ⁺ ,5 ⁺	2	0.51	333		79Bh01						
2990(10)												
3003(10)												
3043(10)												
3067(10)				57		79Bh01						
3175(10)				73		79Bh01						
3252(10)		2	0.22	208		79Bh01						
3384(10)												
3436(10)				62		79Bh01						
3443.2(12)	$\langle 37^+ \rangle$				≤ 2 ns	04Br45						
3754(10)												
3869(10)				99		79Bh01						
3874(10)				47		79Bh01						
4364.7(13)	$\langle 27^- \rangle$					04Br45						
4873.3(17)	$\langle 43^+ \rangle$				2.8(7) μ s	04Br45						
4912.5(16)						04Br45						
	04Br45		79Bh01	79Bh01	04Br45	Ref.						

The yield of protons I_p from the (d,p) reaction is presented by numbers taken from the figure in paper [73Bh01] (in units number of tracks per 0.2 mm strip).

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [91Ar04, 04Br45]. Part 2

²¹¹Po
84

E^* [keV]	$2J^\pi$	Branching ratios in percentage							
		$E_f^*:$ $2J_f^\pi:$	1161 $\langle 9^+ \rangle$	1181 $\langle 13^+ \rangle$	1385 $1^+, 3^+$	1427.7 $\langle 17^+ \rangle$	1442.9	1578.0 $\langle 1 \rangle$	1614.3 1739.3
1407.2	$X^{(+)}$		5						
1409.4(7)	$X^{(+)}$		5						
1436.6	$\langle 5^+ - 9^+ \rangle$		18						
1458.9(13)				100					
1462(6)	$\langle 25^+ \rangle$					100			
1508.3(13)	$X^{(+)}$		7						
1517.2(13)	$X^{(+)}$		100						
1541.8(17)						100			
1578.0(18)	$\langle 1 \rangle$				100				
1612.4(15)							15		
1615.6(17)						100			
1637.8(13)	$X^{(+)}$		35						
1696.6(17)	$X^{(+)}$					100			
1735.9+x						100			
1739.3	$X^{(+)}$						[100]		
2076.9	$X^{(+)}$								100
2093.7(17)							[100]		
2112.0							24		
2223.7(20)								100	
2297.8							100		
2300.0					100				
2339.5(18)							100		
2547.9								100	

Energy levels and branching ratios [92Ar05, 05Br03].

²¹²Po
84

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Branching ratios in percentage							
			$E_f^*:$ $J_f^\pi:$	0.0 0^+	727.3 2^+	1132.5 4^+	1355.5 6^+	1476.4 8^+	1620.7 1^+	1752.9
0.0	0^+	0.299(2) μs								
727.330(9)	2^+			100						
1132.53(10)	4^+				100					
1249(10)										
1355.53(15)	6^+	0.76(21) ns				100				
1476.43(18)	8^+	17.1(2) ns					100			
1512.70(8)	2^+			21(2)	79(1)					
1536.83(10)					100					
1547(10)										
1578(10)										
1612(10)										
1620.738(10)	1^+			80(2)	20(1)					
1657(10)										

(continued)

 $^{212}_{84}\text{Po}$

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Branching ratios in percentage							
			E^*_f : J^π_f :	0.0 0 ⁺	727.3 2 ⁺	1132.5 4 ⁺	1355.5 6 ⁺	1476.4 8 ⁺	1620.7 1 ⁺	1752.9
1679.450(14)	2 ⁺			26(6)	74(14)					
1752.9(2)								100		
1788.1(2)							100			
1800.9(2)	0 ⁺			x	83(10)				17(7)	
1805.96(10)	2 ⁺			14(3)	86(3)					
1833.9(2)	10 ⁺	0.55(14) ns						100		
1945.83(15)						100				
1987.6(2)								100		
2017.0(2)							100			
2102.6(2)						100				
2228.7(2)							100			
2411.3(2)	$\langle 11^- \rangle$									
2471.5(2)										100
2583.3(3)										
2702.2(2)										
2771.8(4)	$\langle 13^- \rangle$									
2885.5(4)	$\langle 14^+ \rangle$									
2922(15)	$\langle 18^+ \rangle$	45.1(6) s								

Additional data on this isotope can be found in [80Sj01].

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [92Ar05, 05Br03]. Part 2

 $^{212}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage				
		E^*_f : J^π_f :	1833.9 10 ⁺	2411.3 $\langle 11^- \rangle$	2771.8 $\langle 13^- \rangle$	2885.5 $\langle 14^+ \rangle$
2411.3(2)	$\langle 11^- \rangle$		100			
2583.3(3)				100		
2702.2(2)			100			
2771.8(4)	$\langle 13^- \rangle$			100		
2885.5(4)	$\langle 14^+ \rangle$				100	
2922(15)	$\langle 18^+ \rangle$					100

Energy levels and branching ratios [92Ak01, 94Ar23].

 $^{213}_{84}\text{Po}$

E^*	$2J^\pi$	$T_{1/2}$ or	Ref.
[keV]		Γ_{cm}	
0.0	9^+	$4.2(8) \mu\text{s}$	
292.77(1)	$\langle 11^+ \rangle$		98Ar03
440.42(2)	$\langle 7^+ \rangle$		98Ar03
600.73	$[5^+]$		98Ar03
867.98	$\langle 13^+ \rangle$		98Ar03
1003.55(3)	$\langle 9^+ \rangle$		98Ar03
1045.67	$\langle 9^+, 11^+ \rangle$		98Ar03
1100.16(2)	$\langle 7-11 \rangle$		98Ar03
1119.27	$\langle 7-11 \rangle$		98Ar03
1328.2	$\langle 7-11 \rangle$		98Ar03
	98Ar03		Ref.

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [92Ak01, 94Ar23]. Part 2

 $^{213}_{84}\text{Po}$

E^*	$2J^\pi$	E_f^* :	Branching ratios in percentage		
[keV]		$2J_f^\pi$:	0.0	292.80	440.42
			9^+		
292.77(1)	$\langle 11^+ \rangle$		x		
440.42(2)	$\langle 7^+ \rangle$		100	0.043(5)	
1003.55(3)	$\langle 9^+ \rangle$		83(8)	17(2)	
1100.16(2)	$\langle 7-11 \rangle$		48(3)	46(2)	6.5(4)
1119.27	$\langle 7-11 \rangle$		90(9)	10.2(11)	

Energy levels and branching ratios [95El07].

 $^{214}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or
[keV]		Γ_{cm}
0.0	0^+	$164.3(20) \mu\text{s}$
609.316(7)	2^+	
1015.05(4)	$\langle 4^+ \rangle$	
1274.761(22)	$\langle 3 \rangle^-$	
1377.675(12)	2^+	
1415.489(19)	0^+	99(3) ps
1543.375(14)	2^+	
1661.28(3)	2^+	
1712.93(20)	$\langle 3 \rangle^+$	
1729.611(13)	2^+	

(continued)

 $^{214}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or Γ_{cm}
[keV]		
1742.98(3)	0^+	
1764.498(14)	1^+	
1847.431(14)	2^+	
1890.287(21)	2^+	
1994.63(3)	$\langle 2 \rangle^-$	
2010.81(4)	2^+	
2017.30(5)	0^+	
2088.41(12)	$1^+, 1^-, 2^+$	
2118.552(17)	1^+	
2147.78(6)	$1^{\langle - \rangle}, 2^+$	
2192.56(4)	2^+	
2204.13(9)	1^+	
2208.67(7)	$\langle 2, 3 \rangle$	
2266.39(18)	$1^{\langle - \rangle}, 2^+$	
2293.34(5)	$1^{\langle + \rangle}, 2^+$	
2348.3(9)	$1^+, 1^-, 2^+$	
2360.8(4)	$1^+, 1^-, 2^+$	
2423.19(15)	$1^+, 1^-, 2^+$	
2447.70(6)	1^-	
2482.46(4)	$\langle 2 \rangle^+$	
2505.21(15)	$1^{\langle - \rangle}, 2^+$	
2508.2(2)		
2544.9(3)		
2553.0(6)		
2562.4(7)		
2604.66(14)	$\langle 2^+ \rangle$	
2630.85(17)	$1^+, 1^-, 2^+$	
2662.29(12)	$\langle 2^+ \rangle$	
2694.60(20)	$1^{\langle - \rangle}, 2^+$	
2698.8(3)	$\langle 1^-, 2^+ \rangle$	
2699.2(2)	$1^{\langle - \rangle}, 2^+$	
2719.22(9)	$1^+, 1^-, 2^+$	
2728.59(4)	$1, 2$	
2769.9(2)	$1^+, 1^-, 2^+$	
2785.9(2)	$1^+, 1^-, 2^+$	
2794.1(6)		
2802.6(6)		
2827.0(2)	$1^+, 1^-, 2^+$	
2861.1(3)	$1^+, 1^-, 2^+$	
2869.6(2)		
2880.3(2)	$1^+, 1^-, 2^+$	
2893.6(2)	$1^+, 1^-, 2^+$	
2897.0(3)		
2919.5(3)		
2921.8(4)	$1^+, 1^-, 2^+$	

(continued)

 $^{214}_{84}\text{Po}$

E^*	J^π	$T_{1/2}$ or Γ_{cm}
[keV]		
2928.6(3)	$1^+, 1^-, 2^+$	
2934.5(3)	$1^+, 1^-, 2^+$	
2940.6(2)	$1^{\langle - \rangle}, 2^+, 2^-$	
2962.8(7)		
2967.6(6)		
2978.8(2)	$1^+, 1^-, 2^+$	
2986.2(2)	$\langle 1^- \rangle, 2^+, 2^-$	
3000.0(2)	$1^{\langle - \rangle}, 2^+$	
3003(1)		
3005.8(6)		
3014.1(3)	$1^+, 1^-, 2^+$	
3022.3(3)		
3030.3(6)		
3039.3(6)		
3053.9(2)	$1^+, 1^-, 2^+$	
3068.3(8)		
3078.7(6)		
3081.7(3)	$1^+, 1^-, 2^+$	
3094.0(4)	$1^{\langle - \rangle}, 2^+$	
3139.0(8)		
3142.6(4)	$1^+, 1^-, 2^+$	
3149.2(5)	$1^+, 1^-, 2^+$	
3160.4(6)	$1^+, 1^-, 2^+$	
3164.8(8)		
3173.3(6)		
3183.6(4)	$1^+, 1^-, 2^+$	
3262.4(8)		

Additional data on this isotope can be found in [94Mo06, 93Di09, 90Mo12].

Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [95El07]. Part 2

 $^{214}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		E_f^* : J_f^π :	0.0 0^+	609.3 2^+	1015.0 $\langle 4^+ \rangle$	1274.8 $\langle 3 \rangle^-$	1377.7 2^+	1415.5 0^+	1543.4 2^+	1661.3 2^+	1712.9 $\langle 3 \rangle^+$	1729.6 2^+
609.316(7)	2^+	x										
1015.05(4)	$\langle 4^+ \rangle$			x								
1274.761(22)	$\langle 3 \rangle^-$			x								
1377.675(12)	2^+	44.8(7)		55.2(7)								
1415.489(19)	0^+	x		100								
1543.375(14)	2^+	6.1(16)		93.1(12)	0.12(7)	0.7(4)						
1661.28(3)	2^+	78(2)		21.5(8)								

(continued)

 $^{214}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E_f^* : J_f^π :	0.0 0 ⁺	609.3 2 ⁺	1015.0 ⟨4 ⁺ ⟩	1274.8 ⟨3⟩ [−]	1377.7 2 ⁺	1415.5 0 ⁺	1543.4 2 ⁺	1661.3 2 ⁺	1712.9 ⟨3⟩ ⁺	1729.6 2 ⁺
1712.93(20)	⟨3⟩ ⁺			66(26)	34(9)							
1729.611(13)	2 ⁺		15.9(2)	82.1(11)		1.6(1)	0.4(1)					
1742.98(3)	0 ⁺			x								
1764.498(14)	1 ⁺		88(1)	9.3(1)			1.8(2)	0.7(2)	0.02(1)			
1847.431(14)	2 ⁺		25.9(4)	71.2(10)	0.34(4)	0.9(1)	1.6(1)		≤0.52			
1890.287(21)	2 ⁺		5.1(19)	91.1(13)		3.8(13)						
1994.63(3)	⟨2⟩ [−]			61(2)		30.3(9)	2.7(10)	x		6.4(16)		
2010.81(4)	2 ⁺		3.4(3)	91.5(15)			3.9(4)	1.2(2)			x	
2017.30(5)	0 ⁺		x	98(3)			1.37(24)			0.32(10)		
2088.41(12)	1 ⁺ , 1 [−] , 2 ⁺			40(4)			60(2)					
2118.552(17)	1 ⁺		27.6(7)	51.1(10)			≈1.0	11.4(3)				8.9(10)
2147.78(6)	1 ^{⟨−⟩} , 2 ⁺		3.2(5)	86(3)		4.1(12)	7(3)			<1.4		
2192.56(4)	2 ⁺		4.1(4)	83.5(18)		0.6(4)	4.6(5)		7.3(8)			
2204.13(9)	1 ⁺		88.3(7)	4.35(7)			1.9(4)	0.26(5)	0.82(16)	1.46(16)		1.92(16)
2208.67(7)	⟨2, 3⟩			82(21)		18(5)				<1.4		
2266.39(18)	1 ^{⟨−⟩} , 2 ⁺		9.2(5)	24(3)		5(2)			18(5)			35(5)
2293.34(5)	1 ^{⟨+⟩} , 2 ⁺		55(2)	38.6(11)			4.6(11)	2.1(5)				
2348.3(9)	1 ⁺ , 1 [−] , 2 ⁺		x	x								
2360.8(4)	1 ⁺ , 1 [−] , 2 ⁺		[65(8)]	[35(20)]								
2423.19(15)	1 ⁺ , 1 [−] , 2 ⁺		7.4(8)	17(2)			42(5)				x	10(5)
2447.70(6)	1 [−]		54.3(7)	12.4(7)		1.7(2)	9.5(5)	2.7(7)	2.9(7)	11(3)		
2482.46(4)	⟨2⟩ ⁺		0.12(5)	17.5(6)		36(1)	6.2(3)		1.4(5)	13(1)		10.4(8)
2505.21(15)	1 ^{⟨−⟩} , 2 ⁺		3.0(2)	83(11)		7(4)			7(3)			
2508.2(2)				50(6)			35(5)		9(5)			
2544.9(3)				78(39)			22(4)					
2553.0(6)			x	x								
2562.4(7)			x	x								
2604.66(14)	⟨2 ⁺ ⟩		0.56(7)	7(4)		15(3)	≤25			24(9)	x	
2630.85(17)	1 ⁺ , 1 [−] , 2 ⁺		3.8(10)	96(14)			x					
2662.29(12)	⟨2 ⁺ ⟩		0.24(8)	55(4)		x	8.7(8)		32(8)		4(2)	
2694.60(20)	1 ^{⟨−⟩} , 2 ⁺		11.9(8)	3.5(3)		2.0(5)	31(4)			9(2)		x
2698.8(3)	⟨1 [−] , 2 ⁺ ⟩								30(8)	16(3)		
2699.2(2)	1 ^{⟨−⟩} , 2 ⁺		5.3(6)	95(11)								
2719.22(9)	1 ⁺ , 1 [−] , 2 ⁺		0.67(8)	33(2)			8(1)	42(3)				
2728.59(4)	1, 2			1.3(4)			x			5(2)		
2769.9(2)	1 ⁺ , 1 [−] , 2 ⁺		55(4)	3.9(11)			41(20)		≤39			
2785.9(2)	1 ⁺ , 1 [−] , 2 ⁺		15(3)	9(2)								
2794.1(6)				x								
2802.6(6)				x								
2827.0(2)	1 ⁺ , 1 [−] , 2 ⁺		100									
2861.1(3)	1 ⁺ , 1 [−] , 2 ⁺		2.7(7)	39(4)					x			
2869.6(2)				64(4)		36(22)						
2880.3(2)	1 ⁺ , 1 [−] , 2 ⁺		88(4)	12(4)								
2893.6(2)	1 ⁺ , 1 [−] , 2 ⁺		26(2)	22(2)			30(4)					
2897.0(3)				x								

(continued)

 $^{214}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E^*_f : J^π_f :	0.0 0^+	609.3 2^+	1015.0 $\langle 4^+ \rangle$	1274.8 $\langle 3 \rangle^-$	1377.7 2^+	1415.5 0^+	1543.4 2^+	1661.3 2^+	1712.9 $\langle 3 \rangle^+$	1729.6 2^+
2919.5(3)				x								
2921.8(4)	$1^+, 1^-, 2^+$		61(9)	39(9)								
2928.6(3)	$1^+, 1^-, 2^+$		74(14)	26(14)								
2934.5(3)	$1^+, 1^-, 2^+$		21(5)	79(9)								
2940.6(2)	$1^{\langle - \rangle}, 2^+, 2^-$			52(4)	20(4)					28(7)		
2962.8(7)				x								
2967.6(6)				x		x						
2978.8(2)	$1^+, 1^-, 2^+$		83(3)	17(3)								
2986.2(2)	$\langle 1^- \rangle, 2^+, 2^-$			83(12)	17(8)							
3000.0(2)	$1^{\langle - \rangle}, 2^+$		85(12)	15(4)	x							
3005.8(6)				x								
3014.1(3)	$1^+, 1^-, 2^+$			0.9(2)			27(5)	13(7)	21(3)	x		38(9)
3022.3(3)				x	x	x				x		
3030.3(6)				x								
3039.3(6)				x								
3053.9(2)	$1^+, 1^-, 2^+$		60(6)	23(11)				17(9)				
3068.3(8)				x								
3078.7(6)				x								
3081.7(3)	$1^+, 1^-, 2^+$		x									
3094.0(4)	$1^{\langle - \rangle}, 2^+$		[100]				x					
3139.0(8)				x								
3142.6(4)	$1^+, 1^-, 2^+$		x									
3149.2(5)	$1^+, 1^-, 2^+$		x	x								
3160.4(6)	$1^+, 1^-, 2^+$		41(13)	59(12)								
3164.8(8)				x								
3173.3(6)				x								
3183.6(4)	$1^+, 1^-, 2^+$		x									
3262.4(8)												x

Energy levels and branching ratios [95El07]. Part 3

 $^{214}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage										
		E^*_f : J^π_f :	1743.0 0^+	1764.5 1^+	1847.4 2^+	1890.3 2^+	1994.6 $\langle 2 \rangle^-$	2010.8 2^+	2017.3 0^+	2088.4	2118.5 1^+	2147.8 $1^{\langle - \rangle}, 2^+$
1994.63(3)	$\langle 2 \rangle^-$			≤ 0.3		x						
2017.30(5)	0^+			0.14(5)								
2088.41(12)	$1^+, 1^-, 2^+$								x			
2192.56(4)	2^+			< 0.28								
2204.13(9)	1^+		0.92(16)									
2266.39(18)	$1^{\langle - \rangle}, 2^+$			9(2)								
2423.19(15)	$1^+, 1^-, 2^+$			24(10)						≤ 54		
2447.70(6)	1^-		1.6(4)	2.8(3)		1.1(2)						

(continued)

 $^{214}_{84}\text{Po}$

E^*	J^π	Branching ratios in percentage										
[keV]		E^*_f : J^π_f :	1743.0 0^+	1764.5 1^+	1847.4 2^+	1890.3 2^+	1994.6 $\langle 2 \rangle^-$	2010.8 2^+	2017.3 0^+	2088.4	2118.5 1^+	2147.8 $1^{\langle - \rangle}, 2^+$
2482.46(4)	$\langle 2 \rangle^+$				0.5(2)		2.2(7)			1.2(1)		≤ 2.7
2508.2(2)								6(2)				
2604.66(14)	$\langle 2^+ \rangle$			13(4)								
2630.85(17)	$1^+, 1^-, 2^+$			x								
2662.29(12)	$\langle 2^+ \rangle$							<1.6				
2694.60(20)	$1^{\langle - \rangle}, 2^+$	3(1)	13(5)	10(1)		6(2)		2(1)				
2698.8(3)	$\langle 1^-, 2^+ \rangle$		19(6)					13(4)				
2719.22(9)	$1^+, 1^-, 2^+$	7(2)						6(2)		≤ 7	3(1)	
2728.59(4)	1,2			68(3)		8.1(12)						
2785.9(2)	$1^+, 1^-, 2^+$			39(9)	36(12)							
2802.6(6)				x								
2861.1(3)	$1^+, 1^-, 2^+$				59(10)							
3003(1)					x							
3022.3(3)								x				
3053.9(2)	$1^+, 1^-, 2^+$				x							

Energy levels and branching ratios [95El07]. Part 4

 $^{214}_{84}\text{Po}$

E^* [keV]	J^π	Branching ratios in percentage									
		E_f^* : J_f^π :	2192.6 2^+	2204.1 1^+	2208.7 $\langle 2, 3 \rangle$	2266.4 $1^{\langle - \rangle}, 2^+$	2447.7 1^-	2508.2	2544.9	2699.2 $1^{\langle - \rangle}, 2^+$	2719.2
2266.39(18)	$1^{\langle - \rangle}, 2^+$			x							
2423.19(15)	$1^+, 1^-, 2^+$	≤ 6									
2447.70(6)	1^-	x									
2482.46(4)	$\langle 2 \rangle^+$				12(3)						
2508.2(2)				≤ 37							
2544.9(3)								x			
2604.66(14)	$\langle 2^+ \rangle$				41(9)						
2694.60(20)	$1^{\langle - \rangle}, 2^+$				8(2)		x				
2698.8(3)	$\langle 1^-, 2^+ \rangle$			23(6)							
2728.59(4)	1,2			3.2(4)	3.0(4)		12(2)				
2785.9(2)	$1^+, 1^-, 2^+$			x							
2802.6(6)				x							
2827.0(2)	$1^+, 1^-, 2^+$								x		
2869.6(2)							x				
2893.6(2)	$1^+, 1^-, 2^+$				≈ 21						
3000.0(2)	$1^{\langle - \rangle}, 2^+$						x				x
3014.1(3)	$1^+, 1^-, 2^+$									x	

Energy levels and branching ratios [01Br31].

 $^{215}_{84}\text{Po}$

E^*	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
[keV]		
0.0	9^+	1.781(4) ms
271.228(10)	7^+	195(15) ps
293.56(4)	$\langle 11 \rangle^+$	
401.812(10)	5^+	66(7) ps
517.60(6)	$7^+, 9^+$	
608.30(7)	$\langle 11^+, 13^+ \rangle$	
676.66(7)		
708.1(5)		
732.7(4)		
835.32(22)		
877.2(6)		
891.1(3)		
930(1)		
1073.7(4)	$\langle 5^+ \rangle$	
1094.2(10)		

Additional data on this isotope can be found in [99Li05].

Energy levels and branching ratios [01Br31]. Part 2

 $^{215}_{84}\text{Po}$

E^*	$2J^\pi$	Branching ratios in percentage						
		$E_f^*:$	0.0	271.2	293.6	401.8	517.6	608.3
[keV]		$2J_f^\pi:$	9^+	7^+	$\langle 11 \rangle^+$	5^+	$7^+, 9^+$	
271.228(10)	7^+		100					
293.56(4)	$\langle 11 \rangle^+$		100					
401.812(10)	5^+		98(3)	2(1)				
517.60(6)	$7^+, 9^+$		97(5)		3.1(5)			
608.30(7)	$\langle 11^+, 13^+ \rangle$		100					
676.66(7)			96(13)	1.3(3)	2.4(4)			
708.1(5)			52(16)	48(4)				
732.7(4)			6(3)	14(2)		81(9)		
835.32(22)			52(10)	48(10)				
877.2(6)			100					
891.1(3)			39(11)	17(5)		32(4)	13(2)	
930(1)								100
1073.7(4)	$\langle 5^+ \rangle$		46(14)	46(14)		070	8(5)	
1094.2(10)							100	

Energy levels and branching ratios [97Ar04].

E^*

[keV]

J^π

$T_{1/2}$ or
 Γ_{cm}

Ref.

0.0

549.76(4)

968.97(9)

1328.0

1551.4

1699.2

1802.6

1873.8

1950.1

2038.3

2233.0

0^+

2^+

$\langle 4^+ \rangle$

$\langle 6^+ \rangle$

$\langle 8^+ \rangle$

0.145(2) s

00Ku06

00Ku06

The systematics of energy levels of even-even Po isotopes was discussed in [00Ku06].

Energy levels and branching ratios [97Ar04]. Part 2

E^*

[keV]

J^π

$E_f^*:$
 $J_f^\pi:$

Branching ratios in percentage

549.76(4)

968.97(9)

2^+

$\langle 4^+ \rangle$

x

0.0

0^+

x

549.76

2^+

x