Energy levels and branching ratios [89Fi11]. **$^{184}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or		Branching ratios in percentage						
			E_f^*:	0.0	366.51	375.1	534.40	653.3	993.3	1088.6
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	0^+	2^+	4^+	6^+	4^+
0.0	0^+	30.9(3) s								
366.51(23)	2^+	21(5) ps		100						
375.1(3)	0^+	0.9(3) ns		x						
534.40(23)	2^+			100	x	<18				
653.3(3)	4^+	22.7(24) ps			100		x			
983.3(3)	$1,2^+$									
993.3(4)	6^+	5.6(21) ps						100		
1088.6(3)	4^+				38(6)		62(9)			
1412.0(5)	8^+	2.0(+8-11) ps							100	
1779.6(19)	$\langle 6^+ \rangle$									100
1901.8(7)	10^+	0.8(+2-3) ps								
2355(2)	$\langle 8^+ \rangle$									
2453.1(9)	12^+	0.47(+11-17) ps								
3057.6(13)	14^+	0.32(+10-14) ps								
3704.3(16)	16^+	0.25(+8-14) ps								
4379.3(18)	18^+	0.21(+6-11) ps								
5087(2)	$\langle 20^+ \rangle$									
5848(2)	$\langle 22^+ \rangle$									
6657(3)	$\langle 24^+ \rangle$									

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

Energy levels and branching ratios [89Fi11]. Part 2 **$^{184}_{80}$Hg**

E^*	J^π			Branching ratios in percentage							
		E_f^*:	1412.0	1779.6	1901.8	2453.1	3057.6	3704.3	4379.3	5087	5848
[keV]		J_f^π:	8^+	$\langle 6^+ \rangle$	10^+	12^+	14^+	16^+	18^+	$\langle 20^+ \rangle$	$\langle 22^+ \rangle$
1901.8(7)	10^+		100								
2355(2)	$\langle 8^+ \rangle$			100							
2453.1(9)	12^+				100						
3057.6(13)	14^+					100					
3704.3(16)	16^+						100				
4379.3(18)	18^+							100			
5087(2)	$\langle 20^+ \rangle$								100		
5848(2)	$\langle 22^+ \rangle$									100	
6657(3)	$\langle 24^+ \rangle$										100

Energy levels and branching ratios [95Br04].

$^{185}_{80}$Hg

E^*	$2J^\pi$	$T_{1/2}$ or	Ref.	Branching ratios in percentage						
			E_f^*:	0.0	26.1	34	96	99.3	141.0	212.7
[keV]		Γ_{cm}	$2J_f^\pi$:	1^-	3^-	$\langle 7\rangle^-$	$\langle 5^-\rangle$	13^+	$\langle 9\rangle^-$	$\langle 9^+\rangle$
0.0	1^-	49.1(10) s								
26.1(5)	3^-			100						
34(8)	$\langle 7\rangle^-$				x					
96(1)	$\langle 5^-\rangle$			x						
99.3(5)	13^+	21.6(15) s				100				
141.0(4)	$\langle 9\rangle^-$					100				
212.7(14)	$\langle 9^+\rangle$									
280.7(4)	$\langle 11\rangle^-$					83			17	
329.5(11)	$\langle 9^-\rangle$						100			
412.7(9)	$\langle 11^+\rangle$							x		x
435.7(5)	$\langle 13\rangle^-$								94	
479.8(6)	$\langle 17\rangle^+$							100		
541.2(6)	$\langle 17\rangle^+$							100		
549.6(9)	$\langle 15^+\rangle$									
612.7(5)	$\langle 15\rangle^-$									
633.8(11)	$\langle 13^-\rangle$									
806.5(6)	$\langle 17\rangle^-$									
906.8	$\langle 19\rangle^+$									
1015.3(12)	$\langle 17^-\rangle$									
1020.0(6)	$\langle 19\rangle^-$									
1030.5(6)	$\langle 21\rangle^+$									
1093	$\langle 21^+\rangle$									
1248.4(6)	$\langle 21\rangle^-$									
1359.9(7)	$\langle 23\rangle^+$									
1460.6(13)	$\langle 21^-\rangle$									
1495.4(7)	$\langle 23\rangle^-$									
1514.3(7)	$\langle 25\rangle^+$									
1752.9(8)	$\langle 25\rangle^-$									
1886	$\langle 27\rangle^+$									
1954.7(13)	$\langle 25^-\rangle$									
2029.2(8)	$\langle 27\rangle^-$									
2052.0(7)	$\langle 29\rangle^+$									
2310.1(9)	$\langle 29\rangle^-$									
2478.9(8)	$\langle 31\rangle^+$									
2480.5(14)	$\langle 29^-\rangle$									
2611.8(9)	$\langle 31\rangle^-$									
2648.3(8)	$\langle 33\rangle^+$									
2909.2(10)	$\langle 33\rangle^-$									
3027.5(17)	$\langle 33^-\rangle$									
3123.7(10)	$\langle 35^+\rangle$									
3236	$\langle 35\rangle^-$									
3295.2(10)	$\langle 37\rangle^+$									
3532.7(11)	$\langle 37^-\rangle$									
3617.3(18)										
3810.7(14)										

(continued) **$^{185}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ orRef.	Branching ratios in percentage							
			E_f^*:	0.0	26.1	34	96	99.3	141.0	212.7
[keV]		Γ_{cm}	$2J_f^\pi$:	1^-	3^-	$\langle 7\rangle^-$	$\langle 5^-\rangle$	13^+	$\langle 9\rangle^-$	$\langle 9^+\rangle$
3867										
3899										
3982.7(11)										
4176.9(13)										
4581										
4702.7(15)										

Additional data on this isotope can be found in [05Wu07].
6 bands (A-F marked here a-f) were assigned to excited states of this nucleus in [05Wu07].

Energy levels and branching ratios [95Br04]. Part 2 **$^{185}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage										
		E_f^*:	280.7	329.5	412.7	435.7	479.8	541.2	549.6	612.7	633.8	806.5
[keV]		$2J_f^\pi$:	$\langle 11\rangle^-$	$\langle 9^-\rangle$	$\langle 11^+\rangle$	$\langle 13\rangle^-$	$\langle 17\rangle^+$	$\langle 17\rangle^+$	$\langle 15^+\rangle$	$\langle 15\rangle^-$	$\langle 13^-\rangle$	$\langle 17\rangle^-$
435.7(5)	$\langle 13\rangle^-$		6									
549.6(9)	$\langle 15^+\rangle$				100							
612.7(5)	$\langle 15\rangle^-$		94			5.9						
633.8(11)	$\langle 13^-\rangle$			100								
806.5(6)	$\langle 17\rangle^-$					100				x		
906.8	$\langle 19\rangle^+$						37	33	30			
1015.3(12)	$\langle 17^-\rangle$										100	
1020.0(6)	$\langle 19\rangle^-$									100		x
1030.5(6)	$\langle 21\rangle^+$							100				
1093	$\langle 21^+\rangle$						100					
1248.4(6)	$\langle 21\rangle^-$											100

Energy levels and branching ratios [95Br04]. Part 3 **$^{185}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage										
		E_f^*:	906.8	1015.3	1020.0	1030.5	1093	1248.4	1359.9	1460.6	1495.4	1514.3
[keV]		$2J_f^\pi$:	$\langle 19\rangle^+$	$\langle 17^-\rangle$	$\langle 19\rangle^-$	$\langle 21\rangle^+$	$\langle 21^+\rangle$	$\langle 21\rangle^-$	$\langle 23\rangle^+$	$\langle 21^-\rangle$	$\langle 23\rangle^-$	$\langle 25\rangle^+$
1248.4(6)	$\langle 21\rangle^-$				x							
1359.9(7)	$\langle 23\rangle^+$		75			25						
1460.6(13)	$\langle 21^-\rangle$			100								
1495.4(7)	$\langle 23\rangle^-$				100			x				
1514.3(7)	$\langle 25\rangle^+$					100	x		x			
1752.9(8)	$\langle 25\rangle^-$							100				
1886	$\langle 27\rangle^+$								85			15
1954.7(13)	$\langle 25^-\rangle$									100		

(continued) **$^{185}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	906.8	1015.3	1020.0	1030.5	1093	1248.4	1359.9	1460.6	1495.4	1514.3
[keV]	$2J_f^\pi$:	$\langle 19\rangle^+$	$\langle 17^-\rangle$	$\langle 19\rangle^-$	$\langle 21\rangle^+$	$\langle 21^+\rangle$	$\langle 21\rangle^-$	$\langle 23\rangle^+$	$\langle 21^-\rangle$	$\langle 23\rangle^-$	$\langle 25\rangle^+$
2029.2(8)	$\langle 27\rangle^-$									100	
2052.0(7)	$\langle 29\rangle^+$										100

Energy levels and branching ratios [95Br04]. Part 4 **$^{185}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1752.9	1886	1954.7	2029.2	2052.0	2310.1	2478.9	2480.5	2611.8	2648.3
[keV]	$2J_f^\pi$:	$\langle 25\rangle^-$	$\langle 27\rangle^+$	$\langle 25^-\rangle$	$\langle 27\rangle^-$	$\langle 29\rangle^+$	$\langle 29\rangle^-$	$\langle 31\rangle^+$	$\langle 29^-\rangle$	$\langle 31\rangle^-$	$\langle 33\rangle^+$
2052.0(7)	$\langle 29\rangle^+$		x								
2310.1(9)	$\langle 29\rangle^-$	100									
2478.9(8)	$\langle 31\rangle^+$		80			20					
2480.5(14)	$\langle 29^-\rangle$			100							
2611.8(9)	$\langle 31\rangle^-$				100						
2648.3(8)	$\langle 33\rangle^+$					100					
2909.2(10)	$\langle 33\rangle^-$						100				
3027.5(17)	$\langle 33^-\rangle$								100		
3123.7(10)	$\langle 35^+\rangle$							100			
3236	$\langle 35\rangle^-$									100	
3295.2(10)	$\langle 37\rangle^+$										100

Energy levels and branching ratios [95Br04]. Part 5 **$^{185}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	2909.2	3027.5	3123.7	3236	3295.2	3532.7	3899	3982.7
[keV]	$2J_f^\pi$:	$\langle 33\rangle^-$	$\langle 33^-\rangle$	$\langle 35^+\rangle$	$\langle 35\rangle^-$	$\langle 37\rangle^+$	$\langle 37^-\rangle$		
3532.7(11)	$\langle 37^-\rangle$	100							
3617.3(18)			100						
3810.7(14)				100					
3867					100				
3899					100				
3982.7(11)						100			
4176.9(13)							100		
4581								x	
4702.7(15)									x

Energy levels and branching ratios [03Ba44].

$^{186}_{80}$Hg

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	405.33	523.0	621.08	807.99	1080.36	1096.61
[keV]		Γ_{cm}	J_f^π: 0^+	2^+	0^+	2^+	4^+	4^+	2^+
0.0	0^+	1.38(6) m							
405.33(14)	2^+	18(3) ps	100						
523.0(3)	0^+	≤52 ps	x						
621.08(21)	2^+	48(27) ps	≈14	75(8)	11(6)				
807.99(19)	4^+	9(3) ps		95.2(17)		5(1)			
1080.36(20)	4^+			82(3)		13.3(16)	4.8		
1096.61(24)	2^+			≈67	33(7)				
1164.78(25)	6^+	5(2) ps					100		
1228.4(3)	$\langle 3^- \rangle$					100			
1433.83(23)	$\langle 3^+ \rangle$					49	46(3)		≈4
1578.0(3)	$\langle 5^- \rangle$						89(5)	11(3)	
1589.0(3)	8^+	≈3 ps							
1614.9(5)				100					
1659.5(3)	$\langle 2^+ \rangle$							≈75	25
1677.96(24)	6^+						18(4)	82(4)	
1868.5(3)	$\langle 5^+ \rangle$							42(4)	
1906.8(3)	$\langle 5 \rangle$						x	x	
1965.9(4)	4^+,5,6^+							35	
1975.9(5)	$\langle 7^- \rangle$								
2055.5(5)							100		
2078.1(7)	10^+								
2130.4(4)									
2138.0(3)	$\langle 3^+ \rangle$							77	
2155.8(4)	$\langle 8^+ \rangle$								
2185.7	$\langle 6^- \rangle$								
2211.7(3)								17	
2217.3	$\langle 8^- \rangle$	82(5) μs							
2268.1(4)	$\langle 7 \rangle$								
2349.1(3)	$\langle 6^+,7^+ \rangle$								
2394.3	$\langle 9^- \rangle$								
2427.6	$\langle 9^- \rangle$								
2428.0(3)	$\langle 7^+ \rangle$								
2464.9	$\langle 8^- \rangle$								
2573.8	$\langle 9 \rangle$								
2591.9	$\langle 10^- \rangle$								
2620.1	12^+								
2636.4	$\langle 10^+ \rangle$								
2809.6	$\langle 11^- \rangle$								
2833.6	10^+								
2848.2	$\langle 10^- \rangle$								
2927.6	$\langle 11^- \rangle$								
3017.1	$\langle 11 \rangle$								
3049.1	$\langle 12^- \rangle$								
3089.1	11^-								
3201.7	14^+								

(continued) **$^{186}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	405.33	523.0	621.08	807.99	1080.36	1096.61
[keV]		Γ_{cm}	J_f^π: 0^+	2^+	0^+	2^+	4^+	4^+	2^+
3267.4	$\langle 12^- \rangle$								
3305.2	$\langle 13^- \rangle$								
3314.6									
3470.9	13^-								
3471.3	$\langle 13^- \rangle$								
3502.9	$\langle 13 \rangle$								
3582.9	$\langle 14^- \rangle$								
3735.4	$\langle 14^- \rangle$								
3812.7	16^+								
3827.6	$\langle 15^- \rangle$								
3873.5	$\langle 15^- \rangle$								
3969.6									
4040.6	$\langle 15 \rangle$								
4053.3	$\langle 15^- \rangle$								
4183.6	$\langle 16^- \rangle$								
4265.3	$\langle 16^- \rangle$								
4268.6	$\langle 17^- \rangle$								
4449.3	18^+								
4501.6	$\langle 17^- \rangle$								
4624.6									
4642.3	$\langle 17 \rangle$								
4643.3	$\langle 17^- \rangle$								
4775.5	$\langle 19^- \rangle$								
4838.4	$\langle 18^- \rangle$								
4838.5	$\langle 18^- \rangle$								
4866.3									
5116.1	20^+								
5190.4	$\langle 19^- \rangle$								
5267.0	$\langle 19^- \rangle$								
5292.8	$\langle 19 \rangle$								
5317.6									
5342.4	$\langle 21^- \rangle$								
5404.3									
5429.5	$\langle 20^- \rangle$								
5817	$\langle 22^+ \rangle$								
5963	$\langle 23^- \rangle$								
6039	$\langle 22^- \rangle$								
6556	$\langle 24^+ \rangle$								
6634	$\langle 25^- \rangle$								
6680	$\langle 24^- \rangle$								
7330	$\langle 26^+ \rangle$								
7356	$\langle 27^- \rangle$								
8097	$\langle 29^- \rangle$								

(continued) **$^{186}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	405.33	523.0	621.08	807.99	1080.36	1096.61
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	0^+	2^+	4^+	4^+	2^+
8134	$\langle 28^+ \rangle$									
8873	$\langle 31^- \rangle$									

Additional data on this isotope can be found in [93Ma02, 92Po01].
8 and 10 bands were assigned to excited states of this nucleus in [93Ma02] and [92Po01].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [03Ba44]. Part 2 **$^{186}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	1164.78	1228.4	1433.83	1578.0	1589.0	1659.5	1677.96	1868.5	1906.8	1975.9
[keV]	J_f^π:	6^+	$\langle 3^- \rangle$	$\langle 3^+ \rangle$	$\langle 5^- \rangle$	8^+	$\langle 2^+ \rangle$	6^+	$\langle 5^+ \rangle$	$\langle 5 \rangle$	$\langle 7^- \rangle$
1578.0(3)	$\langle 5^- \rangle$	x	x								
1589.0(3)	8^+	100									
1868.5(3)	$\langle 5^+ \rangle$	≈29		≈29							
1965.9(4)	4^+,5,6^+							65(15)			
1975.9(5)	$\langle 7^- \rangle$	68(10)			32(5)	x					
2078.1(7)	10^+					100					
2130.4(4)				100							
2138.0(3)	$\langle 3^+ \rangle$						≈23				
2155.8(4)	$\langle 8^+ \rangle$							100			
2185.7	$\langle 6^- \rangle$				100						x
2211.7(3)				83							
2217.3	$\langle 8^- \rangle$					x					100
2268.1(4)	$\langle 7 \rangle$								100	x	
2349.1(3)	$\langle 6^+,7^+ \rangle$					23			58	19	
2427.6	$\langle 9^- \rangle$					x					x
2428.0(3)	$\langle 7^+ \rangle$							28	72		
2464.9	$\langle 8^- \rangle$										x
2833.6	10^+					28					

Energy levels and branching ratios [03Ba44]. Part 3 **$^{186}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2078.1	2155.8	2185.7	2217.3	2268.1	2394.3	2427.6	2464.9	2573.8	2591.9
[keV]	J_f^π:	10^+	$\langle 8^+ \rangle$	$\langle 6^- \rangle$	$\langle 8^- \rangle$	$\langle 7 \rangle$	$\langle 9^- \rangle$	$\langle 9^- \rangle$	$\langle 8^- \rangle$	$\langle 9 \rangle$	$\langle 10^- \rangle$
2217.3	$\langle 8^- \rangle$			x							
2394.3	$\langle 9^- \rangle$				100						
2464.9	$\langle 8^- \rangle$			x							
2573.8	$\langle 9 \rangle$					100					

(continued) **$^{186}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	2078.1	2155.8	2185.7	2217.3	2268.1	2394.3	2427.6	2464.9	2573.8	2591.9
[keV]		J_f^π:	10^+	$\langle 8^+\rangle$	$\langle 6^-\rangle$	$\langle 8^-\rangle$	$\langle 7\rangle$	$\langle 9^-\rangle$	$\langle 9^-\rangle$	$\langle 8^-\rangle$	$\langle 9\rangle$	$\langle 10^-\rangle$
2591.9	$\langle 10^-\rangle$					x		x				
2620.1	12^+		100									
2636.4	$\langle 10^+\rangle$		x	x								
2809.6	$\langle 11^-\rangle$							x				x
2833.6	10^+		72									
2848.2	$\langle 10^-\rangle$								x	x		
2927.6	$\langle 11^-\rangle$		x						x			
3017.1	$\langle 11\rangle$										100	
3049.1	$\langle 12^-\rangle$											x
3089.1	11^-		29									

Energy levels and branching ratios [03Ba44]. Part 4 **$^{186}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	2620.1	2636.4	2809.6	2833.6	2848.2	2927.6	3017.1	3049.1	3089.1	3201.7
[keV]		J_f^π:	12^+	$\langle 10^+\rangle$	$\langle 11^-\rangle$	10^+	$\langle 10^-\rangle$	$\langle 11^-\rangle$	$\langle 11\rangle$	$\langle 12^-\rangle$	11^-	14^+
3049.1	$\langle 12^-\rangle$				x							
3089.1	11^-		x	x		71						
3201.7	14^+		100									
3267.4	$\langle 12^-\rangle$						100					
3305.2	$\langle 13^-\rangle$				x					x		
3314.6						x						
3470.9	13^-										100	
3471.3	$\langle 13^-\rangle$							x				
3502.9	$\langle 13\rangle$								100			
3582.9	$\langle 14^-\rangle$									x		
3812.7	16^+											100

Energy levels and branching ratios [03Ba44]. Part 5 **$^{186}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	3267.4	3305.2	3314.6	3470.9	3471.3	3502.9	3582.9	3735.4	3812.7	3827.6
[keV]		J_f^π:	$\langle 12^-\rangle$	$\langle 13^-\rangle$		13^-	$\langle 13^-\rangle$	$\langle 13\rangle$	$\langle 14^-\rangle$	$\langle 14^-\rangle$	16^+	$\langle 15^-\rangle$
3582.9	$\langle 14^-\rangle$			x								
3735.4	$\langle 14^-\rangle$		100									
3827.6	$\langle 15^-\rangle$					100						
3873.5	$\langle 15^-\rangle$			x					x			
3969.6					100							
4040.6	$\langle 15\rangle$							100				

(continued) **$^{186}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	3267.4	3305.2	3314.6	3470.9	3471.3	3502.9	3582.9	3735.4	3812.7	3827.6
[keV]		J_f^π:	$\langle 12^- \rangle$	$\langle 13^- \rangle$		13^-	$\langle 13^- \rangle$	$\langle 13 \rangle$	$\langle 14^- \rangle$	$\langle 14^- \rangle$	16^+	$\langle 15^- \rangle$
4053.3	$\langle 15^- \rangle$						100					
4183.6	$\langle 16^- \rangle$								x			
4265.3	$\langle 16^- \rangle$									100		
4268.6	$\langle 17^- \rangle$											100
4449.3	18^+										100	

Energy levels and branching ratios [03Ba44]. Part 6 **$^{186}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	3873.5	3969.6	4040.6	4053.3	4183.6	4265.3	4268.6	4449.3	4501.6	4624.6
[keV]		J_f^π:	$\langle 15^- \rangle$		$\langle 15 \rangle$	$\langle 15^- \rangle$	$\langle 16^- \rangle$	$\langle 16^- \rangle$	$\langle 17^- \rangle$	18^+	$\langle 17^- \rangle$	
4183.6	$\langle 16^- \rangle$		x									
4501.6	$\langle 17^- \rangle$		x				x					
4624.6				100								
4642.3	$\langle 17 \rangle$				100							
4643.3	$\langle 17^- \rangle$					100						
4775.5	$\langle 19^- \rangle$								100			
4838.4	$\langle 18^- \rangle$						x				x	
4838.5	$\langle 18^- \rangle$							100				
4866.3								100				
5116.1	20^+									100		
5190.4	$\langle 19^- \rangle$										100	
5317.6												100

Energy levels and branching ratios [03Ba44]. Part 7 **$^{186}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	4642.3	4643.3	4775.5	4838.5	4866.3	5116.1	5342.4	5429.5	5817	5963
[keV]		J_f^π:	$\langle 17 \rangle$	$\langle 17^- \rangle$	$\langle 19^- \rangle$	$\langle 18^- \rangle$		20^+	$\langle 21^- \rangle$	$\langle 20^- \rangle$	$\langle 22^+ \rangle$	$\langle 23^- \rangle$
5267.0	$\langle 19^- \rangle$			100								
5292.8	$\langle 19 \rangle$		100									
5342.4	$\langle 21^- \rangle$				100							
5404.3							100					
5429.5	$\langle 20^- \rangle$					100						
5817	$\langle 22^+ \rangle$							100				
5963	$\langle 23^- \rangle$								100			
6039	$\langle 22^- \rangle$									100		
6556	$\langle 24^+ \rangle$										100	
6634	$\langle 25^- \rangle$											100

Energy levels and branching ratios [03Ba44]. Part 8

$^{186}_{80}$Hg

E^*	J^π		Branching ratios in percentage					
		E_f^*:	6039	6556	6634	7330	7356	8097
[keV]		J_f^π:	$\langle 22^- \rangle$	$\langle 24^+ \rangle$	$\langle 25^- \rangle$	$\langle 26^+ \rangle$	$\langle 27^- \rangle$	$\langle 29^- \rangle$
6680	$\langle 24^- \rangle$		100					
7330	$\langle 26^+ \rangle$			100				
7356	$\langle 27^- \rangle$				100			
8097	$\langle 29^- \rangle$						100	
8134	$\langle 28^+ \rangle$					100		
8873	$\langle 31^- \rangle$							100

Energy levels and branching ratios [91Fi02].

$^{187}_{80}$Hg

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	167.3	401.8	424.0	437.0	535.6	729.8
[keV]		Γ_{cm}	$2J_f^\pi$: 13^+	11^+	13^+	17^+	$\langle 15 \rangle^+$	15^+	17^+
0.0	13^+	2.4(3) m							
0.0+X	3^-	1.9(3) m							
161(1)	$\langle 9^+ \rangle$	33 ns	100						
167.3(4)	11^+		100						
401.8(4)	13^+			100					
424.0(3)	17^+		100						
437.0(6)	$\langle 15 \rangle^+$		100						
535.6(3)	15^+		22(8)	57(11)	21(13)				
729.8(4)	17^+				80(22)			20(8)	
917.0(4)	19^+					18(4)		73(14)	9(4)
1020.2(3)	21^+					100			
1078.3(5)	$\langle 19 \rangle^+$					35(10)	65(12)		
1175.8(4)	21^+					29(10)			65(12)
1383.1(4)	23^+								
1586.2(4)	25^+								
1756.7(5)	$\langle 21 \rangle^-$								
1801.4(6)	25^+								
1922.9(5)	27^+								
2067.2(6)									
2072.7(11)	$\langle 25^- \rangle$								
2155.4(6)	29^+								
2411.4(12)	$\langle 29^- \rangle$								
2478.6(8)	$\langle 29^+ \rangle$								
2524.4(7)	31^+								
2773.0(8)	33^+								
2791.4(8)	$\langle 33^+ \rangle$								
2999.9(13)	$\langle 33^- \rangle$								
3169.4(8)	35^+								
3301.4(13)									
3435.2(9)	37^+								

(continued) **$^{187}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	167.3	401.8	424.0	437.0	535.6	729.8
[keV]		Γ_{cm}	$2J_f^\pi$:	13^+	11^+	13^+	17^+	$\langle 15\rangle^+$	15^+	17^+
3714.9(17)										
3839.5(10)	$\langle 39^+\rangle$									
4024.4(16)										
4134.2(14)	$\langle 41^+\rangle$									
4870.2(17)										

Energy levels and branching ratios [91Fi02]. Part 2 **$^{187}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	917.0	1020.2	1078.3	1175.8	1383.1	1586.2	1757	1801	1922.9	2073
[keV]	$2J_f^\pi$:	19^+	21^+	$\langle 19\rangle^+$	21^+	23^+	25^+	$\langle 21\rangle^-$	25^+	27^+	$\langle 25^-\rangle$
1175.8(4)	21^+	6(2)									
1383.1(4)	23^+	75(14)	18(5)		7(3)						
1586.2(4)	25^+		82(15)		16(3)	2.8(13)					
1756.7(5)	$\langle 21\rangle^-$		31(12)	69(23)							
1801.4(6)	25^+		≈33		67(13)						
1922.9(5)	27^+					90(16)	10(4)				
2067.2(6)			100								
2072.7(11)	$\langle 25^-\rangle$							100			
2155.4(6)	29^+						96(22)			≈3.7	
2411.4(12)	$\langle 29^-\rangle$										100
2478.6(8)	$\langle 29^+\rangle$								100		
2524.4(7)	31^+									100	

Energy levels and branching ratios [91Fi02]. Part 3 **$^{187}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2155.4	2411.4	2524.4	2773.0	2791.4	2999.9	3169.4	3301.4	3435.2	4134.2
[keV]	$2J_f^\pi$:	29^+	$\langle 29^-\rangle$	31^+	33^+	$\langle 33^+\rangle$	$\langle 33^-\rangle$	35^+		37^+	$\langle 41^+\rangle$
2524.4(7)	31^+	x									
2773.0(8)	33^+	100									
2791.4(8)	$\langle 33^+\rangle$	100									
2999.9(13)	$\langle 33^-\rangle$		100								
3169.4(8)	35^+			100							
3301.4(13)						100					
3435.2(9)	37^+				100						
3714.9(17)							100				
3839.5(10)	$\langle 39^+\rangle$							100			
4024.4(16)									100		

(continued) **$^{187}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2155.4	2411.4	2524.4	2773.0	2791.4	2999.9	3169.4	3301.4	3435.2	4134.2
[keV]	$2J_f^\pi$:	29^+	$\langle 29^- \rangle$	31^+	33^+	$\langle 33^+ \rangle$	$\langle 33^- \rangle$	35^+		37^+	$\langle 41^+ \rangle$
4134.2(14)	$\langle 41^+ \rangle$									100	
4870.2(17)											100

Energy levels and branching ratios [02Si10]. **$^{188}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	412.8	881.0	1004.8	1207.8	1239.6	1455.1
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	2^+	4^+	4^+	$\langle 4 \rangle^+$	3^+
0.0	0^+	3.25(15) m								
412.8(1)	2^+			100						
824.5(2)	0^+	204(45) ps		x	x					
881.0(1)	2^+	141(31) ps		57(7)	43(6)					
1004.8(1)	4^+				100					
1207.8(1)	4^+				48(2)	46(2)	6			
1239.6(1)	$\langle 4 \rangle^+$				100					
1455.1(1)	3^+				39(2)	50(3)	5	<21	6(1)	
1509.1(1)	6^+						85(5)	15(3)	<4.5	
1718.9(1)	$\langle 1^-,2^-,3^- \rangle$					100				
1774.6(1)	$X^{\langle + \rangle}$						61(6)		39(4)	
1777.1(1)	6^+						74(4)	26(4)		
1890.4(1)	$\langle 4^+ \rangle$				36(4)	7(4)	31(3)	7(4)		
1907.8(1)	$\langle 4,5 \rangle^+$							49(4)		42(3)
1909.6(1)	5^-						93(6)	6.8(15)		
1969.7(2)	8^+									
2076.9(2)	$\langle 3,4 \rangle^-$						20(7)			47(5)
2136.3(1)	$\langle 5,6 \rangle^+$							48(3)		
2201.2(1)	7^-									
2249.7(5)										
2295.3(2)	$\langle 6 \rangle^-$									
2350.8(2)	$X^{\langle + \rangle}$									
2422.4(1)	$\langle 8 \rangle^+$									
2448.6(2)	$\langle 8 \rangle^-$									
2470.5(2)	$\langle 9 \rangle^-$									
2490.8(2)	$\langle 10 \rangle^+$									
2566.9(2)										
2662.3(2)	$\langle 10^+ \rangle$									
2680.7(5)										
2724.3(4)	$\langle 12^+ \rangle$	134(15) ns								
2783.9(3)	$\langle 10^- \rangle$									
2946.9(2)	$\langle 10 \rangle^+$									
2967.7(4)	$\langle 11^- \rangle$									
3011.2(3)	$\langle 11 \rangle^-$									

(continued) **$^{188}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	412.8	881.0	1004.8	1207.8	1239.6	1455.1
[keV]		Γ_{cm}	J_f^π: 0^+	2^+	2^+	4^+	4^+	$\langle 4\rangle^+$	3^+
3069.2(4)	$\langle 12\rangle^+$								
3113.6(4)									
3161.7(4)	$\langle 14^+\rangle$								
3219.2(3)	$\langle 11^-\rangle$								
3249.7(4)	$\langle 12^-\rangle$								
3446.9(4)	$\langle 13^-\rangle$								
3681.8(4)	$\langle 13^-\rangle$								
3687.9(4)	$\langle 13^-\rangle$								
3689.2(5)	$\langle 14\rangle^+$								
3804.3(5)									
3821.4(4)	$\langle 16^+\rangle$								
3931.4(5)	$\langle 14^-\rangle$								
4126.6(4)	$\langle 15^-\rangle$								
4160.3(5)	$\langle 15^-\rangle$								
4255.6(6)									
4256.8(4)	$\langle 15^-\rangle$								
4329.3(6)	$\langle 16\rangle^+$								
4503.0(5)	$\langle 16\rangle$								
4554.1(4)	$\langle 17^-\rangle$								
4581.9(5)	$\langle 18^+\rangle$								
4628.3(6)	$\langle 17^-\rangle$								
4841.0(5)	$\langle 17^-\rangle$								
4850.6(6)	$\langle 18\rangle$								
4949.8(5)	$\langle 19^-\rangle$								
4988.3(6)	$\langle 18^+\rangle$								
5150.6(7)	$\langle 19^-\rangle$								
5306.4(6)	$\langle 20^+\rangle$								
5397.5(7)	$\langle 20\rangle$								
5469.1(6)	$\langle 20^+\rangle$								
5582.6(6)	$\langle 21^-\rangle$								
5602.0(6)	$\langle 19^-\rangle$								
5605.2(6)	$\langle 21^-\rangle$								
5684.0(7)	$\langle 20^+\rangle$								
5706.3(7)									
5742.6(8)	$\langle 21^-\rangle$								
5916.9(7)	$\langle 22^+\rangle$								
6161.9(6)	$\langle 23^-\rangle$								
6243.1(6)	$\langle 22^+\rangle$								
6386.2(7)									
6405.8(8)	$\langle 23^-\rangle$								
6407.8(8)	$\langle 22^+\rangle$								
6717.9(7)	$\langle 24^+\rangle$								
6831.6(7)	$\langle 24^+\rangle$								
6952.9(7)	$\langle 25^-\rangle$								
7139.0(9)	$\langle 25^-\rangle$								

(continued) **$^{188}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	412.8	881.0	1004.8	1207.8	1239.6	1455.1
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	2^+	4^+	4^+	$\langle 4\rangle^+$	3^+
7314.9(15)	$\langle 26^+\rangle$								
7852.7(7)	$\langle 27^-\rangle$								
7941.2(9)	$\langle 27^-\rangle$								

Energy levels and branching ratios [02Si10]. Part 2 **$^{188}_{80}$Hg**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	1509.1	1777.1	1907.8	1909.6	1969.7	2201.2	2295.3	2422.4	2448.6	2470.5
[keV]		J_f^π:	6^+	6^+	$\langle 4,5\rangle^+$	5^-	8^+	7^-	$\langle 6\rangle^-$	$\langle 8\rangle^+$	$\langle 8\rangle^-$	$\langle 9\rangle^-$
1890.4(1)	$\langle 4^+\rangle$		18(4)									
1907.8(1)	$\langle 4,5\rangle^+$		9(1)									
1969.7(2)	8^+		100									
2076.9(2)	$\langle 3,4\rangle^-$					33(7)						
2136.3(1)	$\langle 5,6\rangle^+$		52(3)									
2201.2(1)	7^-		26(2)	40(1)		34(5)						
2249.7(5)							100					
2295.3(2)	$\langle 6\rangle^-$				7(1)	93(7)						
2350.8(2)	$X^{\langle +\rangle}$		49(6)		51(6)							
2422.4(1)	$\langle 8\rangle^+$		12(4)	88(7)								
2448.6(2)	$\langle 8\rangle^-$						13(1)	69(22)	18(5)			
2470.5(2)	$\langle 9\rangle^-$							100				
2490.8(2)	$\langle 10\rangle^+$						100					
2566.9(2)			69(6)	31(6)								
2662.3(2)	$\langle 10^+\rangle$						63(9)			11(3)		
2680.7(5)							100					
2783.9(3)	$\langle 10^-\rangle$										12.4(12)	88(3)
2946.9(2)	$\langle 10\rangle^+$									52(4)		
3011.2(3)	$\langle 11\rangle^-$											100

Energy levels and branching ratios [02Si10]. Part 3 **$^{188}_{80}$Hg**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	2490.8	2662.3	2724.3	2783.9	2946.9	2967.7	3011.2	3069.2	3113.6	3161.7
[keV]		J_f^π:	$\langle 10\rangle^+$	$\langle 10^+\rangle$	$\langle 12^+\rangle$	$\langle 10^-\rangle$	$\langle 10\rangle^+$	$\langle 11^-\rangle$	$\langle 11\rangle^-$	$\langle 12\rangle^+$		$\langle 14^+\rangle$
2662.3(2)	$\langle 10^+\rangle$		26(6)									
2724.3(4)	$\langle 12^+\rangle$		x	x								
2946.9(2)	$\langle 10\rangle^+$		48(3)									
2967.7(4)	$\langle 11^-\rangle$			8(4)		92(8)						
3069.2(4)	$\langle 12\rangle^+$		100									

(continued) **$^{188}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2490.8	2662.3	2724.3	2783.9	2946.9	2967.7	3011.2	3069.2	3113.6	3161.7
[keV]	J_f^π:	$\langle 10\rangle^+$	$\langle 10^+\rangle$	$\langle 12^+\rangle$	$\langle 10^-\rangle$	$\langle 10\rangle^+$	$\langle 11^-\rangle$	$\langle 11\rangle^-$	$\langle 12\rangle^+$		$\langle 14^+\rangle$
3113.6(4)			100								
3161.7(4)	$\langle 14^+\rangle$			100							
3219.2(3)	$\langle 11^-\rangle$	7(3)				93(3)					
3249.7(4)	$\langle 12^-\rangle$				100						
3446.9(4)	$\langle 13^-\rangle$						95(8)				
3681.8(4)	$\langle 13^-\rangle$							100			
3689.2(5)	$\langle 14\rangle^+$			15(5)					85(15)		
3804.3(5)										100	
3821.4(4)	$\langle 16^+\rangle$										100

Energy levels and branching ratios [02Si10]. Part 4 **$^{188}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	3219.2	3249.7	3446.9	3681.8	3687.9	3689.2	3804.3	3821.4	4126.6	4160.3
[keV]	J_f^π:	$\langle 11^-\rangle$	$\langle 12^-\rangle$	$\langle 13^-\rangle$	$\langle 13^-\rangle$	$\langle 13^-\rangle$	$\langle 14\rangle^+$		$\langle 16^+\rangle$	$\langle 15^-\rangle$	$\langle 15^-\rangle$
3446.9(4)	$\langle 13^-\rangle$		5.5(11)								
3687.9(4)	$\langle 13^-\rangle$	100									
3931.4(5)	$\langle 14^-\rangle$		100								
4126.6(4)	$\langle 15^-\rangle$			100							
4160.3(5)	$\langle 15^-\rangle$					100					
4255.6(6)								100			
4256.8(4)	$\langle 15^-\rangle$			12(3)	88(3)						
4329.3(6)	$\langle 16\rangle^+$						100				
4503.0(5)	$\langle 16\rangle$								100		
4554.1(4)	$\langle 17^-\rangle$								18(2)	21(2)	
4581.9(5)	$\langle 18^+\rangle$								100		
4628.3(6)	$\langle 17^-\rangle$										100
4841.0(5)	$\langle 17^-\rangle$									100	

Energy levels and branching ratios [02Si10]. Part 5 **$^{188}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	4256.8	4329.3	4503.0	4554.1	4581.9	4628.3	4841.0	4850.6	4949.8	4988.3
[keV]	J_f^π:	$\langle 15^-\rangle$	$\langle 16\rangle^+$	$\langle 16\rangle$	$\langle 17^-\rangle$	$\langle 18^+\rangle$	$\langle 17^-\rangle$	$\langle 17^-\rangle$	$\langle 18\rangle$	$\langle 19^-\rangle$	$\langle 18^+\rangle$
4554.1(4)	$\langle 17^-\rangle$	61(2)									
4850.6(6)	$\langle 18\rangle$			100							
4949.8(5)	$\langle 19^-\rangle$				100						
4988.3(6)	$\langle 18^+\rangle$		100								
5150.6(7)	$\langle 19^-\rangle$						100				

(continued) **$^{188}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	4256.8	4329.3	4503.0	4554.1	4581.9	4628.3	4841.0	4850.6	4949.8	4988.3
[keV]	J_f^π:	$\langle 15^- \rangle$	$\langle 16 \rangle^+$	$\langle 16 \rangle$	$\langle 17^- \rangle$	$\langle 18^+ \rangle$	$\langle 17^- \rangle$	$\langle 17^- \rangle$	$\langle 18 \rangle$	$\langle 19^- \rangle$	$\langle 18^+ \rangle$
5306.4(6)	$\langle 20^+ \rangle$					100					
5397.5(7)	$\langle 20 \rangle$								100		
5469.1(6)	$\langle 20^+ \rangle$					100					
5582.6(6)	$\langle 21^- \rangle$									100	
5602.0(6)	$\langle 19^- \rangle$							100			
5605.2(6)	$\langle 21^- \rangle$									100	
5684.0(7)	$\langle 20^+ \rangle$										100
5706.3(7)											x

Energy levels and branching ratios [02Si10]. Part 6 **$^{188}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	5150.6	5306.4	5469.1	5582.6	5605.2	5684.0	5742.6	5916.9	6161.9	6243.1
[keV]	J_f^π:	$\langle 19^- \rangle$	$\langle 20^+ \rangle$	$\langle 20^+ \rangle$	$\langle 21^- \rangle$	$\langle 21^- \rangle$	$\langle 20^+ \rangle$	$\langle 21^- \rangle$	$\langle 22^+ \rangle$	$\langle 23^- \rangle$	$\langle 22^+ \rangle$
5742.6(8)	$\langle 21^- \rangle$	100									
5916.9(7)	$\langle 22^+ \rangle$		100								
6161.9(6)	$\langle 23^- \rangle$				30(10)	70(13)					
6243.1(6)	$\langle 22^+ \rangle$		57(29)	43(14)							
6386.2(7)					100						
6405.8(8)	$\langle 23^- \rangle$							100			
6407.8(8)	$\langle 22^+ \rangle$						100				
6717.9(7)	$\langle 24^+ \rangle$								100		
6831.6(7)	$\langle 24^+ \rangle$										100
6952.9(7)	$\langle 25^- \rangle$									100	

Energy levels and branching ratios [02Si10]. Part 7 **$^{188}_{80}$Hg**

E^*	J^π	Branching ratios in percentage			
	E_f^*:	6405.8	6717.9	6952.9	7139.0
[keV]	J_f^π:	$\langle 23^- \rangle$	$\langle 24^+ \rangle$	$\langle 25^- \rangle$	$\langle 25^- \rangle$
7139.0(9)	$\langle 25^- \rangle$	100			
7314.9(15)	$\langle 26^+ \rangle$		x		
7852.7(7)	$\langle 27^- \rangle$			100	
7941.2(9)	$\langle 27^- \rangle$				100

Energy levels and branching ratios [03Wu02].

$^{189}_{80}$Hg

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	E_f^*: $2J_f^\pi$:	0.0 3^-	0.0+X 13^+	403.1+X 17^+	473.9+X 15^+	901.0+X $\langle 15^- \rangle$	1030+X 21^+	1110+X 19^+
				Branching ratios in percentage						
0.0	3^-	7.6(1) m								
64.3(5)	$\langle 5 \rangle^-$	0.40(4) ns		100						
0.0+X	13^+	8.6(1) m								
403.10+X	17^+				100					
473.93+X	15^+				100					
901.02+X	$\langle 15^- \rangle$				100					
1029.91+X	21^+					100				
1110.26+X	19^+					45(2)	55(2)			
1440.04+X	$\langle 19^- \rangle$					86(12)		14(4)		
1691.05+X	21^-								49(1)	48(1)
1762.89+X	25^+								100	
1916.88+X	25^-									
1976.1+X	$\langle 23^- \rangle$								100	
2034.3+X	$\langle 23^- \rangle$								39(14)	
2220.40+X	$\langle 27^- \rangle$									
2235.9+X	$\langle 29^- \rangle$									
2244.6+X	$\langle 29^- \rangle$									
2252.93+X	29^-									
2477.02+X	29^+									
2616.1+X	29^+									
2674.3+X	33^+									
2675.6+X	$\langle 25^- \rangle$									
2682.0+X	$\langle 29^+ \rangle$									
2686.0+X	$\langle 31^- \rangle$									
2821.2+X	33^-									
2947.3+X	$\langle 31^- \rangle$									
2949.1+X	$\langle 33^- \rangle$									
3123.4+X	$\langle 33^+ \rangle$									
3153.6+X	37^+									
3307.1+X	$\langle 33^+ \rangle$									
3343.8+X	$\langle 35^- \rangle$									
3400.3+X	$\langle 33^+ \rangle$									
3439.2+X	$\langle 37^- \rangle$									
3449.2+X	$\langle 37^- \rangle$									
3467.0+X	$\langle 37^- \rangle$									
3540.6+X	37^-									
3793.1+X	$\langle 37^+ \rangle$									
3826.0+X	$\langle 37^+ \rangle$									
3875.4+X	41^+									
3992.4+X	$\langle 39^- \rangle$									
4062.7+X	$\langle 41^+ \rangle$									
4172.6+X	$\langle 41^- \rangle$									
4227.7+X	$\langle 41^- \rangle$									
4237.2+X	$\langle 41^- \rangle$									
4329.0+X	$\langle 41^+ \rangle$									

(continued) **$^{189}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
		E_f^*:	0.0	0.0+X	403.1+X	473.9+X	901.0+X	1030+X	1110+X	
[keV]		Γ_{cm}	$2J_f^\pi$:	3^-	13^+	17^+	15^+	$\langle 15^- \rangle$	21^+	19^+
4438.4+X	$\langle 41^+ \rangle$									
4479.3+X	$\langle 43^- \rangle$									
4517.2+X	$\langle 43^- \rangle$									
4549.7+X	$\langle 39^- \rangle$									
4700.6+X	$\langle 45^- \rangle$									
4713.1+X	45^+									
4760.6+X	$\langle 45^- \rangle$									
4869.6+X	$\langle 45^+ \rangle$									
4960.4+X	$\langle 43^- \rangle$									
5002.2+X	$\langle 45^+ \rangle$									
5035.7+X	$\langle 45^- \rangle$									
5117.7+X	$\langle 47^- \rangle$									
5544.5+X	$\langle 47^+ \rangle$									
5583.1+X	49^+									
5702.4+X	$\langle 49^- \rangle$									
5899.7+X	$\langle 49^- \rangle$									
5952.2+X	$\langle 51^- \rangle$									
6535.6+X	$\langle 53^+ \rangle$									
6819.7+X	$\langle 55^- \rangle$									
0+Y	$2J \approx \langle 29,31 \rangle$									
366.4+Y	$2J+4$									
774.5+Y	$2J+8$									
1223.2+Y	$2J+12$									
1711.7+Y	$2J+16$									
2239.7+Y	$2J+20$									
2806.6+Y	$2J+24$									
3410.5+Y	$2J+28$									
4050.8+Y	$2J+32$									
4726.7+Y	$2J+36$									
5434.3+Y	$2J+40$									

Additional data on this isotope can be found in [91Dr04].

Energy levels and branching ratios [03Wu02]. Part 2 **$^{189}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1440+X	1691+X	1763+X	1917+X	1976+X	2034+X	2220+X	2236+X	2245+X
[keV]		$2J_f^\pi$:	$\langle 19^- \rangle$	21^-	25^+	25^-	$\langle 23^- \rangle$	$\langle 23^- \rangle$	$\langle 27^- \rangle$	$\langle 29^- \rangle$	$\langle 29^- \rangle$
1691.05+X	21^-		2.7(6)								
1916.88+X	25^-			98.3(14)	1.7(6)						
2034.3+X	$\langle 23^- \rangle$		61(9)								
2220.40+X	$\langle 27^- \rangle$				59(3)		41(1)				
2235.9+X	$\langle 29^- \rangle$					100					

(continued) **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1440+X	1691+X	1763+X	1917+X	1976+X	2034+X	2220+X	2236+X	2245+X
[keV]	$2J_f^\pi$:	$\langle 19^- \rangle$	21^-	25^+	25^-	$\langle 23^- \rangle$	$\langle 23^- \rangle$	$\langle 27^- \rangle$	$\langle 29^- \rangle$	$\langle 29^- \rangle$
2244.6+X	$\langle 29^- \rangle$				100					
2252.93+X	29^-				100					
2477.02+X	29^+			100						
2616.1+X	29^+			100						
2675.6+X	$\langle 25^- \rangle$						100			
2682.0+X	$\langle 29^+ \rangle$			100						
2686.0+X	$\langle 31^- \rangle$							88(5)		
2949.1+X	$\langle 33^- \rangle$								35(3)	36(3)

Energy levels and branching ratios [03Wu02]. Part 3 **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	2253+X	2477+X	2616+X	2674+X	2682+X	2686+X	2821+X	2949+X	3123+X
[keV]	$2J_f^\pi$:	29^-	29^+	29^+	33^+	$\langle 29^+ \rangle$	$\langle 31^- \rangle$	33^-	$\langle 33^- \rangle$	$\langle 33^+ \rangle$
2674.3+X	33^+		100	<1						
2686.0+X	$\langle 31^- \rangle$	12(2)								
2821.2+X	33^-	100								
2947.3+X	$\langle 31^- \rangle$		59(14)	41(9)						
2949.1+X	$\langle 33^- \rangle$	28(3)								
3123.4+X	$\langle 33^+ \rangle$		94(5)			6(2)				
3153.6+X	37^+				100					
3307.1+X	$\langle 33^+ \rangle$		100							
3343.8+X	$\langle 35^- \rangle$						100			
3400.3+X	$\langle 33^+ \rangle$		40(13)	60(20)						
3439.2+X	$\langle 37^- \rangle$							100		
3449.2+X	$\langle 37^- \rangle$							100		
3467.0+X	$\langle 37^- \rangle$							6(2)	94(8)	
3540.6+X	37^-							100		
3793.1+X	$\langle 37^+ \rangle$									100
3826.0+X	$\langle 37^+ \rangle$									100

Energy levels and branching ratios [03Wu02]. Part 4 **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3154+X	3344+X	3439+X	3449+X	3467+X	3541+X	3793+X	3826+X	3875+X
[keV]	$2J_f^\pi$:	37^+	$\langle 35^- \rangle$	$\langle 37^- \rangle$	$\langle 37^- \rangle$	$\langle 37^- \rangle$	37^-	$\langle 37^+ \rangle$	$\langle 37^+ \rangle$	41^+
3875.4+X	41^+	100								
3992.4+X	$\langle 39^- \rangle$		100							
4062.7+X	$\langle 41^+ \rangle$	100								

(continued) **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3154+X	3344+X	3439+X	3449+X	3467+X	3541+X	3793+X	3826+X	3875+X
[keV]	$2J_f^\pi$:	37^+	$\langle 35^- \rangle$	$\langle 37^- \rangle$	$\langle 37^- \rangle$	$\langle 37^- \rangle$	37^-	$\langle 37^+ \rangle$	$\langle 37^+ \rangle$	41^+
4172.6+X	$\langle 41^- \rangle$					83(7)	17(4)			
4227.7+X	$\langle 41^- \rangle$					79(17)	21(9)			
4237.2+X	$\langle 41^- \rangle$			50(14)	50(14)					
4329.0+X	$\langle 41^+ \rangle$							38(7)	62(14)	
4438.4+X	$\langle 41^+ \rangle$							100		
4549.7+X	$\langle 39^- \rangle$		72(22)							
4713.1+X	45^+									100
4869.6+X	$\langle 45^+ \rangle$									100

Energy levels and branching ratios [03Wu02]. Part 5 **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3992+X	4173+X	4228+X	4237+X	4329+X	4479+X	4517+X	4713+X	4761+X
[keV]	$2J_f^\pi$:	$\langle 39^- \rangle$	$\langle 41^- \rangle$	$\langle 41^- \rangle$	$\langle 41^- \rangle$	$\langle 41^+ \rangle$	$\langle 43^- \rangle$	$\langle 43^- \rangle$	45^+	$\langle 45^- \rangle$
4479.3+X	$\langle 43^- \rangle$	100								
4517.2+X	$\langle 43^- \rangle$				100					
4549.7+X	$\langle 39^- \rangle$	28(11)								
4700.6+X	$\langle 45^- \rangle$		100							
4760.6+X	$\langle 45^- \rangle$				39(8)			61(8)		
4960.4+X	$\langle 43^- \rangle$	100								
5002.2+X	$\langle 45^+ \rangle$					100				
5035.7+X	$\langle 45^- \rangle$		50(16)	50(16)						
5117.7+X	$\langle 47^- \rangle$						100			
5583.1+X	49^+								100	
5702.4+X	$\langle 49^- \rangle$									100

Energy levels and branching ratios [03Wu02]. Part 6 **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5002+X	5036+X	5118+X	5583+X	5952+X	0+Y	366.4+Y	774.5+Y	1223+Y
[keV]	$2J_f^\pi$:	$\langle 45^+ \rangle$	$\langle 45^- \rangle$	$\langle 47^- \rangle$	49^+	$\langle 51^- \rangle$		$2J+4$	$2J+8$	$2J+12$
5544.5+X	$\langle 47^+ \rangle$	100								
5899.7+X	$\langle 49^- \rangle$		100							
5952.2+X	$\langle 51^- \rangle$			100						
6535.6+X	$\langle 53^+ \rangle$				100					
6819.7+X	$\langle 55^- \rangle$					100				
366.4+Y	$2J+4$						x			
774.5+Y	$2J+8$							x		

(continued) **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5002+X	5036+X	5118+X	5583+X	5952+X	0+Y	366.4+Y	774.5+Y	1223+Y
[keV]	$2J_f^\pi$:	$\langle 45^+ \rangle$	$\langle 45^- \rangle$	$\langle 47^- \rangle$	49^+	$\langle 51^- \rangle$		$2J$+4	$2J$+8	$2J$+12
1223.2+Y	$2J$+12								x	
1711.7+Y	$2J$+16									x

Energy levels and branching ratios [03Wu02]. Part 7 **$^{189}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage					
	E_f^*:	1712+Y	2240+Y	2807+Y	3411+Y	4051+Y	4727+Y
[keV]	$2J_f^\pi$:	$2J$+16	$2J$+20	$2J$+24	$2J$+28	$2J$+32	$2J$+36
2239.7+Y	$2J$+20	x					
2806.6+Y	$2J$+24		x				
3410.5+Y	$2J$+28			x			
4050.8+Y	$2J$+32				x		
4726.7+Y	$2J$+36					x	
5434.3+Y	$2J$+40						x

Energy levels and branching ratios [03Si05]. **$^{190}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	416.32	0+Y	0+U	316.9+Y	0+Z	0+X
[keV]		Γ_{cm}	J_f^π:	0^+	2^+		J_3	J_1+2		
0.0	0^+	20.0(5) m								
416.32(14)	2^+			100						
0+Y	$J_1 \approx \langle 12 \rangle$									
0+U	J_3									
316.9+Y	J_1+2					100				
0+Z	$J_2 \approx \langle 14 \rangle$									
0+X										
1041.77(16)	4^+				100					
279.0+Z	J_2+2								≤0.00	
202.2+X										x
446.3+U	J_3+2						100			
1099.94(14)	2^+			39(4)	61(6)					
676.8+Y	J_1+4							100		
366.2+X	$J \approx \langle 20 \rangle$									
1278.6(3)	0^+			x	100					
597.0+Z	J_2+4									
1079.1+Y	J_1+6									
653.0+X	J+1									
1558.71(17)	2^+			17(1)	58(4)					

(continued) **$^{190}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or		Branching ratios in percentage						
			E_f^*:	0.0	416.32	0+Y	0+U	316.9+Y	0+Z	0+X
[keV]		Γ_{cm}	J_f^π:	0^+	2^+		J_3	J_1+2		
912.8+U	J_3+4									
1571.42(19)	2^+			34(10)	51(5)					
1657.07(18)	$\langle 3\rangle^+$				9(3)					
955.3+Z	J_2+6									
1772.94(19)	6^+									
945.4+X	J+2									
1850.78(19)	$\langle 2^+–4^+\rangle$				7(1)					
1881.18(22)	5^-									
1522.1+Y	J_1+8									
1975.30(20)	4^+				63(4)					
1399.5+U	J_3+6									
2072.8(4)	$\langle 4–6\rangle^+$									
2078.33(23)	7^-									
1248.3+X	J+3									
1352.7+Z	J_2+8									
2162.92(21)	$\langle 4^+\rangle$									
2200.97(20)	$\langle 5\rangle^+$									
2251.4(3)	$\langle 6,7\rangle^-$									
2318.6(3)	$\langle 4^––6^+\rangle$									
2319.0(3)	$\langle 8\rangle^-$									
2335.5(3)	$\langle 9^-\rangle$									
2342.98(21)	$\langle 4^+–6^+\rangle$									
2365.38(22)	$\langle 4^+–6^+\rangle$									
2392.0(4)	$\langle 5^––9^-\rangle$									
2424.8(4)	$\langle 5^––9^-\rangle$									
1556.1+X	J+4									
2004.8+Y	J_1+10									
2465.0(3)	$\langle 8\rangle^+$									
2509.95(24)	6^+									
1914.5+U	J_3+8									
2573.0(3)	$\langle 8\rangle^+$									
1788.6+Z	J_2+10									
2596.9(3)	$\langle 10^+\rangle$									
2620.7(5)	$\langle 12^+\rangle$	23(1) ns								
2724.3(4)	$\langle 10^-\rangle$									
1863.6+X	J+5									
2821.5(3)	$\langle 3^+–6^+\rangle$									
2844.7(4)	$\langle 10^-\rangle$									
2865.6(4)	$\langle 11^-\rangle$									
2526.1+Y	J_1+12									
3007.1(4)	$\langle 11^-\rangle$									
3040.6(5)	$\langle 14^+\rangle$									
2262.6+Z	J_2+12									
2184.7+X	J+6									
2462.2+U	J_3+10									

(continued) **$^{190}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	416.32	0+Y	0+U	316.9+Y	0+Z	0+X
[keV]		Γ_{cm}	J_f^π: 0^+	2^+		J_3	J_1+2		
3213.0(3)	$\langle 10^+ \rangle$								
3277.4(4)	$\langle 12^+ \rangle$								
3282.4(3)	$\langle 10^- \rangle$								
3329.3(4)	$\langle 12^- \rangle$								
3350.3(4)	$\langle 10^+ \rangle$								
3358.3(4)	$\langle 12^- \rangle$								
2506.7+X	J+7								
2955.7+Y	J_1+11								
3446.0(4)	$\langle 11^+ \rangle$								
3493.7(4)	$\langle 13^- \rangle$								
3084.7+Y	J_1+14								
3548.9(4)	$\langle 13^- \rangle$								
2773.2+Z	J_2+14								
3044.9+U	J_3+12								
3703.4(4)	$\langle 16^+ \rangle$								
2820.8+X	J+8								
3744.0(4)	$\langle 14^+ \rangle$								
3437.0+Y	J_1+13	76(14) fs							
3951.1(5)	$\langle 13^+ \rangle$								
3962.0(4)	$\langle 15^- \rangle$								
3980.0(4)	$\langle 14^- \rangle$								
3156.6+X	J+9								
4087.8(4)	$\langle 15^- \rangle$								
3679.6+Y	J_1+16								
3320.9+Z	J_2+16								
4183.0(5)	$\langle 15^- \rangle$								
4243.4(4)	$\langle 16^- \rangle$								
4258.0(5)	$\langle 15^- \rangle$								
3662.6+U	J_3+14								
4327.5(5)	$\langle 17^- \rangle$								
4360.0(5)	$\langle 16^+ \rangle$								
3948.4+Y	J_1+15	69(14) fs							
3510.6+X	J+10								
4416.6(5)	$\langle 16^+ \rangle$								
4492.6(5)	$\langle 18^+ \rangle$								
4552.2(5)	$\langle 18^- \rangle$								
4577.9(7)	$\langle 15^+ \rangle$								
4669.0(6)	$\langle 17^- \rangle$								
3903.8+Z	J_2+18								
4711.0(5)	$\langle 19^- \rangle$								
4309.7+Y	J_1+18								
3891.9+X	J+11								
4915.7(6)	$\langle 18^+ \rangle$								
4491.6+Y	J_1+17	90(21) fs							
4953.0(5)	$\langle 17^- \rangle$								

(continued) **$^{190}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	416.32	0+Y	0+U	316.9+Y	0+Z	0+X
[keV]		Γ_{cm}	J_f^π:	0^+	2^+		J_3	J_1+2		
4316.2+U	J_3+16									
4991.8(6)	$\langle 18^+ \rangle$									
5103.0(5)	$\langle 18^- \rangle$									
5106.5(5)	$\langle 20^- \rangle$									
4302.6+X	J+12									
5220.9(7)	$\langle 16^+ \rangle$									
5229.0(6)	$\langle 20^+ \rangle$									
5263.4(8)	$\langle 19^- \rangle$									
5281.5(5)	$\langle 20^- \rangle$									
4521.7+Z	J_2+20									
5329.3(5)	$\langle 19^- \rangle$									
5336.1(5)	$\langle 21^- \rangle$									
5352.0(6)	$\langle 20^+ \rangle$									
5375.1(5)	$\langle 19^- \rangle$									
5405.6(7)	$\langle 16^+ \rangle$									
4973.8+Y	J_1+20									
5482.2(6)	$\langle 20^+ \rangle$									
5067.2+Y	J_1+19	76(14) fs								
5556.4(7)	$\langle 20^- \rangle$									
4740.6+X	J+13									
5639.6(7)	$\langle 17^+ \rangle$									
5005.8+U	J_3+18									
5660.8(6)	$\langle 20^+ \rangle$									
5672.4(5)	$\langle 20^- \rangle$									
5789.4(8)	$\langle 18^+ \rangle$									
5795.2(6)	$\langle 22^+ \rangle$									
5857.2(5)	$\langle 22^- \rangle$									
5943.6(6)	$\langle 22^+ \rangle$									
5970.0(6)	$\langle 22^+ \rangle$									
5173.2+Z	J_2+22									
6005.3(8)	$\langle 19^+ \rangle$									
6049.2(5)	$\langle 21^- \rangle$									
5670.7+Y	J_1+22									
5675.3+Y	J_1+21									
6126.1(5)	$\langle 22^- \rangle$									
6143.9(6)	$\langle 23^- \rangle$									
6219.9(6)	$\langle 22^+ \rangle$									
6261.0(9)	$\langle 20^+ \rangle$									
6335.6(7)	$\langle 24^+ \rangle$									
5729.1+U	J_3+20									
6485.3(5)	$\langle 22^- \rangle$									
6521.1(6)	$\langle 24^+ \rangle$									
6565.1(10)	$\langle 21^+ \rangle$									
6576.6(7)	$\langle 24^+ \rangle$									
6684.1(6)	$\langle 24^- \rangle$									

(continued) **$^{190}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	416.32	0+Y	0+U	316.9+Y	0+Z	0+X
[keV]		Γ_{cm}	J_f^π:	0^+	2^+		J_3	J_1+2		
6316.9+Y	J_1+23									
6832.4(5)	$\langle 23^- \rangle$									
6399.2+Y	J_1+24									
6894.0(10)	$\langle 22^+ \rangle$									
6930.1(6)	$\langle 24^- \rangle$									
6936.1(11)	$\langle 22^+ \rangle$									
6971.3(5)	$\langle 24^- \rangle$									
7036.8(6)	$\langle 25^- \rangle$									
6489.5+U	J_3+22									
7200.9(6)	$\langle 25^- \rangle$									
7256.5(10)	$\langle 23^+ \rangle$									
7282.2(7)	$\langle 26^+ \rangle$									
7297.8(7)	$\langle 26^+ \rangle$									
7307.1(12)	$\langle 23^+ \rangle$									
6991.4+Y	J_1+25									
7496.5(6)	$\langle 26^- \rangle$									
7532.1(7)	$\langle 26^- \rangle$									
7156.6+Y	J_1+26									
7621.3(12)	$\langle 24^+ \rangle$									
7639.7(11)	$\langle 24^+ \rangle$									
7656.0(6)	$\langle 26^- \rangle$									
7808.8(7)	$\langle 26^- \rangle$									
7810.5(7)	$\langle 27^- \rangle$									
7826.7(7)	$\langle 25 \rangle$									
7893.0(13)	$\langle 25^+ \rangle$									
7280.5+U	J_3+24									
7956.5(7)	$\langle 27^- \rangle$									
7995.6(6)	$\langle 27^- \rangle$									
8052.2(11)	$\langle 25^+ \rangle$									
8090.6(7)	$\langle 28^+ \rangle$									
8124.4(6)	$\langle 28^- \rangle$									
7698.5+Y	J_1+27									
8227.5(7)	$\langle 28^+ \rangle$									
7940.1+Y	J_1+28									
8411.1(7)	$\langle 28^- \rangle$									
8439.4(7)	$\langle 29^- \rangle$									
8481.4(12)	$\langle 26^+ \rangle$									
8735.1(7)	$\langle 30^- \rangle$									
8876.4(13)	$\langle 27^+ \rangle$									
9146.4(7)	$\langle 31^- \rangle$									
8741.9+Y	J_1+30									

(continued) **$^{190}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	416.32	0+Y	0+U	316.9+Y	0+Z	0+X
[keV]		Γ_{cm}	J_f^π:	0^+	2^+		J_3	J_1+2			
9583.3(7)	$\langle 32^- \rangle$									
10030.7(7)	$\langle 33^- \rangle$									

Additional data on this isotope can be found in [01Wi11, 01Ha15, 00AbZZ, 93Ca23, 91Dr04, 90Be37].

8 bands are assigned to levels of this nucleus in [04Gu07].

Energy levels and branching ratios [03Si05]. Part 2 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	1041.77	279.0+Z	202.2+X	446.3+U	1099.9	677+Y	366+X	1278.6	597+Z
[keV]		J_f^π:	4^+	J_2+2		J_3+2	2^+	J_1+4	$J \approx \langle 20 \rangle$	0^+	J_2+4
366.2+X	$J \approx \langle 20 \rangle$				x						
597.0+Z	J_2+4			100							
1079.1+Y	J_1+6							100			
653.0+X	J+1								x		
1558.71(17)	2^+		10(1)				15(2)				
912.8+U	J_3+4					100					
1571.42(19)	2^+		13(5)							2(2)	
1657.07(18)	$\langle 3 \rangle^+$		35(3)				56(6)				
955.3+Z	J_2+6										100
1772.94(19)	6^+		100								
1850.78(19)	$\langle 2^+ – 4^+ \rangle$		37(4)				56(6)				
1881.18(22)	5^-		100								
1975.30(20)	4^+		25(6)								
2072.8(4)	$\langle 4–6 \rangle^+$		100								
2162.92(21)	$\langle 4^+ \rangle$		27(3)								
2200.97(20)	$\langle 5 \rangle^+$		8.2(8)								
2318.6(3)	$\langle 4^- – 6^+ \rangle$		59(6)								
2342.98(21)	$\langle 4^+ – 6^+ \rangle$		9(1)								
2365.38(22)	$\langle 4^+ – 6^+ \rangle$		74(7)								
2509.95(24)	6^+		33(14)								

Energy levels and branching ratios [03Si05]. Part 3 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	1079+Y	653.0+X	1558.71	912.8+U	1571.42	1657.07	955.3+Z	1772.94	945.4+X
[keV]		J_f^π:	J_1+6	J+1	2^+	J_3+4	2^+	$\langle 3 \rangle^+$	J_2+6	6^+	J+2
945.4+X	J+2			x							
1522.1+Y	J_1+8		100								

(continued) **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	1079+Y	653.0+X	1558.71	912.8+U	1571.42	1657.07	955.3+Z	1772.94	945.4+X
[keV]	J_f^π:	J_1+6	J+1	2^+	J_3+4	2^+	$\langle 3\rangle^+$	J_2+6	6^+	J+2
1975.30(20)	4^+					13(3)				
1399.5+U	J_3+6				100					
2078.33(23)	7^-								75(1)	
1248.3+X	J+3									x
1352.7+Z	J_2+8							100		
2162.92(21)	$\langle 4^+\rangle$			54(5)			19(2)		<6	
2200.97(20)	$\langle 5\rangle^+$						87(9)		4.9(5)	
2251.4(3)	$\langle 6,7\rangle^-$								21(2)	
2342.98(21)	$\langle 4^+–6^+\rangle$						34(3)		17(2)	
2365.38(22)	$\langle 4^+–6^+\rangle$								18(1)	
2465.0(3)	$\langle 8\rangle^+$								100	
2509.95(24)	6^+								28(11)	
2573.0(3)	$\langle 8\rangle^+$								100	

Energy levels and branching ratios [03Si05]. Part 4 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	1850.78	1881.18	1522+Y	1975.30	1400+U	2078.33	1248+X	1353+Z	2162.92
[keV]	J_f^π:		5^-	J_1+8	4^+	J_3+6	7^-	J+3	J_2+8	$\langle 4^+\rangle$
2078.33(23)	7^-		25(1)							
2251.4(3)	$\langle 6,7\rangle^-$		79(8)							
2318.6(3)	$\langle 4^-–6^+\rangle$		41(4)				x			
2319.0(3)	$\langle 8\rangle^-$						100			
2335.5(3)	$\langle 9^-\rangle$						100			
2342.98(21)	$\langle 4^+–6^+\rangle$	27(3)								
2365.38(22)	$\langle 4^+–6^+\rangle$	8(1)			<9					
2392.0(4)	$\langle 5^-–9^-\rangle$						100			
2424.8(4)	$\langle 5^-–9^-\rangle$						100			
1556.1+X	J+4							x		
2004.8+Y	J_1+10			100						
2509.95(24)	6^+				39(3)					
1914.5+U	J_3+8					100				
1788.6+Z	J_2+10								100	
2821.5(3)	$\langle 3^+–6^+\rangle$									88(9)

Energy levels and branching ratios [03Si05]. Part 5 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	2200.97	2319.0	2335.5	1556+X	2005+Y	2465.0	1915+U	2573.0	1789+Z
[keV]		J_f^π:	$\langle 5\rangle^+$	$\langle 8\rangle^-$	$\langle 9^-\rangle$	J+4	J_1+10	$\langle 8\rangle^+$	J_3+8	$\langle 8\rangle^+$	J_2+10
2342.98(21)	$\langle 4^+$–$6^+\rangle$		13(1)								
2596.9(3)	$\langle 10^+\rangle$				6(2)			94(11)			
2724.3(4)	$\langle 10^-\rangle$			66(7)	34(5)						
1863.6+X	J+5					x					
2821.5(3)	$\langle 3^+$–$6^+\rangle$		12(2)								
2844.7(4)	$\langle 10^-\rangle$			100							
2865.6(4)	$\langle 11^-\rangle$				100						
2526.1+Y	J_1+12						100				
2262.6+Z	J_2+12										100
2462.2+U	J_3+10								100		
3213.0(3)	$\langle 10^+\rangle$							x		x	
3282.4(3)	$\langle 10^-\rangle$									x	
3350.3(4)	$\langle 10^+\rangle$									x	
2955.7+Y	J_1+11						100				

Energy levels and branching ratios [03Si05]. Part 6 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	2596.9	2620.7	2724.3	1864+X	2844.7	2865.6	2526+Y	3007.1	3040.6
[keV]		J_f^π:	$\langle 10^+\rangle$	$\langle 12^+\rangle$	$\langle 10^-\rangle$	J+5	$\langle 10^-\rangle$	$\langle 11^-\rangle$	J_1+12	$\langle 11^-\rangle$	$\langle 14^+\rangle$
2620.7(5)	$\langle 12^+\rangle$		100								
3007.1(4)	$\langle 11^-\rangle$						100				
3040.6(5)	$\langle 14^+\rangle$			100							
2184.7+X	J+6					x					
3213.0(3)	$\langle 10^+\rangle$		x								
3277.4(4)	$\langle 12^+\rangle$		100								
3282.4(3)	$\langle 10^-\rangle$		x					x			
3329.3(4)	$\langle 12^-\rangle$						100				
3358.3(4)	$\langle 12^-\rangle$				91(5)			9(3)			
3493.7(4)	$\langle 13^-\rangle$									100	
3084.7+Y	J_1+14								100		
3548.9(4)	$\langle 13^-\rangle$							100			
3703.4(4)	$\langle 16^+\rangle$										100
3437.0+Y	J_1+13								65.93(2198)		

Energy levels and branching ratios [03Si05]. Part 7 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2263+Z	2185+X	2462+U	3213.0	3277.4	3282.4	3329.3	3350.3	3358.3
[keV]	J_f^π:	J_2+12	J+6	J_3+10	$\langle 10^+ \rangle$	$\langle 12^+ \rangle$	$\langle 10^- \rangle$	$\langle 12^- \rangle$	$\langle 10^+ \rangle$	$\langle 12^- \rangle$
3282.4(3)	$\langle 10^- \rangle$				x					
2506.7+X	J+7		x							
3446.0(4)	$\langle 11^+ \rangle$				x		x		x	
2773.2+Z	J_2+14	100								
3044.9+U	J_3+12			100						
3744.0(4)	$\langle 14^+ \rangle$					100				
3980.0(4)	$\langle 14^- \rangle$							19(3)		81(4)

Energy levels and branching ratios [03Si05]. Part 8 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2507+X	2956+Y	3446.0	3493.7	3085+Y	3548.9	2773+Z	3045+U	3703.4
[keV]	J_f^π:	J+7	J_1+11	$\langle 11^+ \rangle$	$\langle 13^- \rangle$	J_1+14	$\langle 13^- \rangle$	J_2+14	J_3+12	$\langle 16^+ \rangle$
2820.8+X	J+8	x								
3437.0+Y	J_1+13		34(10)							
3951.1(5)	$\langle 13^+ \rangle$			x						
3962.0(4)	$\langle 15^- \rangle$						100			
4087.8(4)	$\langle 15^- \rangle$				19(2)		75(5)			
3679.6+Y	J_1+16					100				
3320.9+Z	J_2+16							100		
4183.0(5)	$\langle 15^- \rangle$				100					
4243.4(4)	$\langle 16^- \rangle$									25(7)
4258.0(5)	$\langle 15^- \rangle$						100			
3662.6+U	J_3+14								100	
4327.5(5)	$\langle 17^- \rangle$									12(3)
3948.4+Y	J_1+15					50(12)				
4492.6(5)	$\langle 18^+ \rangle$									100

Energy levels and branching ratios [03Si05]. Part 9 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2821+X	3744.0	3437+Y	3951.1	3962.0	3980.0	3157+X	4087.8	3680+Y
[keV]	J_f^π:	J+8	$\langle 14^+ \rangle$	J_1+13	$\langle 13^+ \rangle$	$\langle 15^- \rangle$	$\langle 14^- \rangle$	J+9	$\langle 15^- \rangle$	J_1+16
3156.6+X	J+9	x								
4087.8(4)	$\langle 15^- \rangle$		4.2(10)			2.1(10)				
4243.4(4)	$\langle 16^- \rangle$						68(3)		7(2)	
4327.5(5)	$\langle 17^- \rangle$								88(8)	
4360.0(5)	$\langle 16^+ \rangle$		100							
3948.4+Y	J_1+15			50(12)						

(continued) **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
		E_f^*:	2821+X	3744.0	3437+Y	3951.1	3962.0	3980.0	3157+X	4087.8	3680+Y
[keV]		J_f^π:	J+8	$\langle 14^+ \rangle$	J_1+13	$\langle 13^+ \rangle$	$\langle 15^- \rangle$	$\langle 14^- \rangle$	J+9	$\langle 15^- \rangle$	J_1+16
3510.6+X	J+10								x		
4416.6(5)	$\langle 16^+ \rangle$			100							
4577.9(7)	$\langle 15^+ \rangle$					x					
4309.7+Y	J_1+18										100
4491.6+Y	J_1+17										29(8)

Energy levels and branching ratios [03Si05]. Part 10 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
		E_f^*:	3321+Z	4183.0	4243.4	4258.0	3663+U	4327.5	4360.0	3948+Y	3511+X
[keV]		J_f^π:	J_2+16	$\langle 15^- \rangle$	$\langle 16^- \rangle$	$\langle 15^- \rangle$	J_3+14	$\langle 17^- \rangle$	$\langle 16^+ \rangle$	J_1+15	J+10
4327.5(5)	$\langle 17^- \rangle$				x						
4552.2(5)	$\langle 18^- \rangle$				100						
4669.0(6)	$\langle 17^- \rangle$			100							
3903.8+Z	J_2+18		100								
4711.0(5)	$\langle 19^- \rangle$							97(3)			
3891.9+X	J+11										x
4915.7(6)	$\langle 18^+ \rangle$								100		
4491.6+Y	J_1+17									71(12)	
4953.0(5)	$\langle 17^- \rangle$			100		x					
4316.2+U	J_3+16						100				
5263.4(8)	$\langle 19^- \rangle$							x			
5329.3(5)	$\langle 19^- \rangle$							x			

Energy levels and branching ratios [03Si05]. Part 11 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
		E_f^*:	4416.6	4492.6	4552.2	4577.9	3904+Z	4711.0	4310+Y	3892+X	4915.7
[keV]		J_f^π:	$\langle 16^+ \rangle$	$\langle 18^+ \rangle$	$\langle 18^- \rangle$	$\langle 15^+ \rangle$	J_2+18	$\langle 19^- \rangle$	J_1+18	J+11	$\langle 18^+ \rangle$
4711.0(5)	$\langle 19^- \rangle$				3(1)						
4991.8(6)	$\langle 18^+ \rangle$		100								
5106.5(5)	$\langle 20^- \rangle$				100						
4302.6+X	J+12									x	
5220.9(7)	$\langle 16^+ \rangle$					x					
5229.0(6)	$\langle 20^+ \rangle$			100							
5263.4(8)	$\langle 19^- \rangle$				x						
5281.5(5)	$\langle 20^- \rangle$							100			
4521.7+Z	J_2+20						100				
5336.1(5)	$\langle 21^- \rangle$							100			

(continued) **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	4416.6	4492.6	4552.2	4577.9	3904+Z	4711.0	4310+Y	3892+X	4915.7
[keV]	J_f^π:	$\langle 16^+ \rangle$	$\langle 18^+ \rangle$	$\langle 18^- \rangle$	$\langle 15^+ \rangle$	J_2+18	$\langle 19^- \rangle$	J_1+18	J+11	$\langle 18^+ \rangle$
5352.0(6)	$\langle 20^+ \rangle$		100							
5405.6(7)	$\langle 16^+ \rangle$				x					
4973.8+Y	J_1+20							100		
5482.2(6)	$\langle 20^+ \rangle$		100							
5067.2+Y	J_1+19							23(7)		
5660.8(6)	$\langle 20^+ \rangle$									47(16)

Energy levels and branching ratios [03Si05]. Part 12 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	4492+Y	4953.0	4316+U	4991.8	5103.0	5106.5	4303+X	5220.9	5229.0
[keV]	J_f^π:	J_1+17	$\langle 17^- \rangle$	J_3+16	$\langle 18^+ \rangle$	$\langle 18^- \rangle$	$\langle 20^- \rangle$	J+12	$\langle 16^+ \rangle$	$\langle 20^+ \rangle$
5103.0(5)	$\langle 18^- \rangle$		x							
5281.5(5)	$\langle 20^- \rangle$						x			
5375.1(5)	$\langle 19^- \rangle$		x			x				
5067.2+Y	J_1+19	77(15)								
5556.4(7)	$\langle 20^- \rangle$						x			
4740.6+X	J+13							x		
5639.6(7)	$\langle 17^+ \rangle$								x	
5005.8+U	J_3+18			100						
5660.8(6)	$\langle 20^+ \rangle$				53(16)					
5672.4(5)	$\langle 20^- \rangle$					x				
5795.2(6)	$\langle 22^+ \rangle$									100
5857.2(5)	$\langle 22^- \rangle$						100			
5970.0(6)	$\langle 22^+ \rangle$									100

Energy levels and branching ratios [03Si05]. Part 13 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	5263.4	5281.5	4522+Z	5329.3	5336.1	5352.0	5375.1	5405.6	4974+Y
[keV]	J_f^π:	$\langle 19^- \rangle$	$\langle 20^- \rangle$	J_2+20	$\langle 19^- \rangle$	$\langle 21^- \rangle$	$\langle 20^+ \rangle$	$\langle 19^- \rangle$	$\langle 16^+ \rangle$	J_1+20
5556.4(7)	$\langle 20^- \rangle$	x	x							
5639.6(7)	$\langle 17^+ \rangle$								x	
5672.4(5)	$\langle 20^- \rangle$							x		
5943.6(6)	$\langle 22^+ \rangle$						36(13)			
6049.2(5)	$\langle 21^- \rangle$				x			x		
5670.7+Y	J_1+22									100
5675.3+Y	J_1+21									12(8)
6126.1(5)	$\langle 22^- \rangle$		74(10)			26(10)				

(continued) **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	5263.4	5281.5	4522+Z	5329.3	5336.1	5352.0	5375.1	5405.6	4974+Y
[keV]	J_f^π:	$\langle 19^- \rangle$	$\langle 20^- \rangle$	J_2+20	$\langle 19^- \rangle$	$\langle 21^- \rangle$	$\langle 20^+ \rangle$	$\langle 19^- \rangle$	$\langle 16^+ \rangle$	J_1+20
6143.9(6)	$\langle 23^- \rangle$					100				
6219.9(6)	$\langle 22^+ \rangle$						100			

Energy levels and branching ratios [03Si05]. Part 14 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	5482.2	5067+Y	5556.4	5639.6	5006+U	5672.4	5789.4	5795.2	5857.2
[keV]	J_f^π:	$\langle 20^+ \rangle$	J_1+19	$\langle 20^- \rangle$	$\langle 17^+ \rangle$	J_3+18	$\langle 20^- \rangle$	$\langle 18^+ \rangle$	$\langle 22^+ \rangle$	$\langle 22^- \rangle$
5789.4(8)	$\langle 18^+ \rangle$				x					
5943.6(6)	$\langle 22^+ \rangle$	64(23)								
6005.3(8)	$\langle 19^+ \rangle$							x		
6049.2(5)	$\langle 21^- \rangle$						x			
5675.3+Y	J_1+21		88(16)							
6126.1(5)	$\langle 22^- \rangle$			x						
6335.6(7)	$\langle 24^+ \rangle$								100	
5729.1+U	J_3+20					100				
6485.3(5)	$\langle 22^- \rangle$						x			
6521.1(6)	$\langle 24^+ \rangle$								60(7)	
6576.6(7)	$\langle 24^+ \rangle$								100	
6684.1(6)	$\langle 24^- \rangle$									100
6832.4(5)	$\langle 23^- \rangle$									x
6971.3(5)	$\langle 24^- \rangle$									x

Energy levels and branching ratios [03Si05]. Part 15 **$^{190}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	5943.6	6005.3	6049.2	5671+Y	5675+Y	6126.1	6143.9	6261.0	5729+U
[keV]	J_f^π:	$\langle 22^+ \rangle$	$\langle 19^+ \rangle$	$\langle 21^- \rangle$	J_1+22	J_1+21	$\langle 22^- \rangle$	$\langle 23^- \rangle$	$\langle 20^+ \rangle$	J_3+20
6261.0(9)	$\langle 20^+ \rangle$		x							
6485.3(5)	$\langle 22^- \rangle$			x						
6521.1(6)	$\langle 24^+ \rangle$	40(7)								
6565.1(10)	$\langle 21^+ \rangle$								x	
6316.9+Y	J_1+23					100				
6832.4(5)	$\langle 23^- \rangle$			x						
6399.2+Y	J_1+24				100					
6930.1(6)	$\langle 24^- \rangle$						100			
6971.3(5)	$\langle 24^- \rangle$						x			
7036.8(6)	$\langle 25^- \rangle$							100		
6489.5+U	J_3+22									100

Energy levels and branching ratios [03Si05]. Part 16 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	6485.3	6521.1	6565.1	6684.1	6317+Y	6832.4	6399+Y	6894.0	6930.1
[keV]		J_f^π:	$\langle 22^- \rangle$	$\langle 24^+ \rangle$	$\langle 21^+ \rangle$	$\langle 24^- \rangle$	J_1+23	$\langle 23^- \rangle$	J_1+24	$\langle 22^+ \rangle$	$\langle 24^- \rangle$
6832.4(5)	$\langle 23^- \rangle$		x								
6894.0(10)	$\langle 22^+ \rangle$				x						
6936.1(11)	$\langle 22^+ \rangle$				x						
6971.3(5)	$\langle 24^- \rangle$		x					x			
7256.5(10)	$\langle 23^+ \rangle$									x	
7282.2(7)	$\langle 26^+ \rangle$			100							
7297.8(7)	$\langle 26^+ \rangle$			100							
6991.4+Y	J_1+25						100				
7532.1(7)	$\langle 26^- \rangle$					100					
7156.6+Y	J_1+26								100		
7808.8(7)	$\langle 26^- \rangle$										100
7826.7(7)	$\langle 25 \rangle$										100

Energy levels and branching ratios [03Si05]. Part 17 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	6936.1	6971.3	7036.8	6490+U	7200.9	7256.5	7282.2	7297.8	7307.1
[keV]		J_f^π:	$\langle 22^+ \rangle$	$\langle 24^- \rangle$	$\langle 25^- \rangle$	J_3+22	$\langle 25^- \rangle$	$\langle 23^+ \rangle$	$\langle 26^+ \rangle$	$\langle 26^+ \rangle$	$\langle 23^+ \rangle$
7200.9(6)	$\langle 25^- \rangle$			x							
7307.1(12)	$\langle 23^+ \rangle$		x								
7496.5(6)	$\langle 26^- \rangle$						x				
7621.3(12)	$\langle 24^+ \rangle$										x
7639.7(11)	$\langle 24^+ \rangle$							x			
7656.0(6)	$\langle 26^- \rangle$						x				
7280.5+U	J_3+24					$\leq$0.00					
7956.5(7)	$\langle 27^- \rangle$				100						
7995.6(6)	$\langle 27^- \rangle$				100						
8090.6(7)	$\langle 28^+ \rangle$								100		
8227.5(7)	$\langle 28^+ \rangle$									100	

Energy levels and branching ratios [03Si05]. Part 18 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	6991+Y	7496.5	7532.1	7157+Y	7621.3	7639.7	7656.0	7810.5	7995.6
[keV]		J_f^π:	J_1+25	$\langle 26^- \rangle$	$\langle 26^- \rangle$	J_1+26	$\langle 24^+ \rangle$	$\langle 24^+ \rangle$	$\langle 26^- \rangle$	$\langle 27^- \rangle$	$\langle 27^- \rangle$
7810.5(7)	$\langle 27^- \rangle$			x							
7893.0(13)	$\langle 25^+ \rangle$						x				
7995.6(6)	$\langle 27^- \rangle$			x					x		
8052.2(11)	$\langle 25^+ \rangle$							x			

(continued) **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	6991+Y	7496.5	7532.1	7157+Y	7621.3	7639.7	7656.0	7810.5	7995.6
[keV]		J_f^π:	J_1+25	$\langle 26^- \rangle$	$\langle 26^- \rangle$	J_1+26	$\langle 24^+ \rangle$	$\langle 24^+ \rangle$	$\langle 26^- \rangle$	$\langle 27^- \rangle$	$\langle 27^- \rangle$
8124.4(6)	$\langle 28^- \rangle$									x	x
7698.5+Y	J_1+27		100								
7940.1+Y	J_1+28					100					
8411.1(7)	$\langle 28^- \rangle$				100						

Energy levels and branching ratios [03Si05]. Part 19 **$^{190}_{80}$Hg**

E^*	J^π		Branching ratios in percentage							
		E_f^*:	8052.2	8124.4	7940+Y	8439.4	8481.4	8735.1	9146.4	9583.3
[keV]		J_f^π:	$\langle 25^+ \rangle$	$\langle 28^- \rangle$	J_1+28	$\langle 29^- \rangle$	$\langle 26^+ \rangle$	$\langle 30^- \rangle$	$\langle 31^- \rangle$	$\langle 32^- \rangle$
8439.4(7)	$\langle 29^- \rangle$			x						
8481.4(12)	$\langle 26^+ \rangle$		x							
8735.1(7)	$\langle 30^- \rangle$			x		x				
8876.4(13)	$\langle 27^+ \rangle$						x			
9146.4(7)	$\langle 31^- \rangle$					x		x		
8741.9+Y	J_1+30				≤0.00					
9583.3(7)	$\langle 32^- \rangle$							x	x	
10030.7(7)	$\langle 33^- \rangle$								x	x

Energy levels and branching ratios [95Br38]. **$^{191}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	0.0+X	51.6	103.7	216.0+X	265.0+X	0+Y
[keV]		Γ_{cm}	$2J_f^\pi$:	$\langle 3^- \rangle$	13^+	$\langle 5^- \rangle$	$\langle 1^- \rangle$	$\langle 9 \rangle^+$	$\langle 11 \rangle^+$	
0.0	$\langle 3^- \rangle$	49(10) m								
0.0+X[a]	13^+	50.8(15) m								
51.6(2)	$\langle 5^- \rangle$	0.42(4) ns		100						
103.7(3)	$\langle 1^- \rangle$			100						
216.0+X	$\langle 9 \rangle^+$				100					
265.0+X	$\langle 11 \rangle^+$				100			x		
0+Y	$2J \approx \langle 31 \rangle$									
336.3(2)	$\langle 5^- \rangle$			91(5)		9.1(9)				
375.5(3)	$\langle 3^- \rangle$			86(16)		10(5)	3.5(21)			
377.9(3)	$\langle 7^- \rangle$			12(6)		88(4)				
390.5+X[a]	$\langle 17^+ \rangle$				100					
430.4(3)	$\langle 1^-, 3^-, 5^- \rangle$			22(3)		≈78				
534.7+X								100		
535.3+X	$\langle 15^+ \rangle$				100					
563.5(3)	$\langle 7^- \rangle$			95(5)		x				

(continued)

$^{191}_{80}$Hg

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	E_f^*: $2J_f^\pi$:	0.0 $\langle 3^- \rangle$	0.0+X 13^+	51.6 $\langle 5^- \rangle$	103.7 $\langle 1^- \rangle$	216.0+X $\langle 9 \rangle^+$	265.0+X $\langle 11 \rangle^+$	0+Y
				Branching ratios in percentage						
588.6+X	$\langle 7 \rangle^+$							88(9)	12(6)	
310.9+Y	$2J$+4									100
632.3(3)	$\langle 9^- \rangle$					93(5)				
659.1(4)	$\langle 9^- \rangle$					49(5)				
691.8(3)				21(5)		67(7)				
742.7+X	$\langle 13 \rangle^+$				47(5)			5(1)	43(5)	
761.1+X	$\langle 11 \rangle^+$				25(5)			20(10)	49(5)	
0+Z	$2J \approx \langle 21 \rangle$									
0+U	$2J \approx \langle 23 \rangle$									
0+V	$2J \approx \langle 25 \rangle$									
880.3(9)						100				
900.0+X	$\langle 11,13 \rangle^+$				34(5)			48(5)	18(3)	
911.3(4)										
952.1(4)	$\langle 9^- \rangle$									
662.4+Y	$2J$+8									
997.1(3)	$\langle 5^-,7^-,9^- \rangle$									
1016.3(4)	$\langle 11^- \rangle$									
1019.3+X[a]	$\langle 21^+ \rangle$									
1024(1)										
252.4+Z	$2J$+4									
272.0+U	$2J$+4									
1081.0(5)				41(8)						
280.9+V	$2J$+4									
1088+X								100		
1105.7+X										
1107.2(4)	$\langle 7^- – 11^- \rangle$					34(4)				
1130.8+X	$\langle 7,9,11^+ \rangle$							73(12)	27(12)	
1133.3+X					21(11)			60(10)	19(10)	
1146.5(5)										
1171.8+X	$\langle 19^+ \rangle$									
1178.3(8)						100				
1193.2(5)										
1199(1)						100				
1208+X								100		
1212.4(7)										
1257+X									100	
1317.6(9)	$\langle 5^-,7^-,9^- \rangle$									
1319+X					43(14)			57(12)		
1320(1)	$\langle 13^- \rangle$									
545.1+Z	$2J$+8									
1054.0+Y	$2J$+12									
585.1+U	$2J$+8									
604.5+V	$2J$+8									
1434+X								100		
1470.8(9)										

(continued)

$^{191}_{80}$Hg

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	0.0+X	51.6	103.7	216.0+X	265.0+X	0+Y
[keV]		Γ_{cm}	$2J_f^\pi$:	$\langle 3^- \rangle$	13^+	$\langle 5^- \rangle$	$\langle 1^- \rangle$	$\langle 9 \rangle^+$	$\langle 11 \rangle^+$	
1539(1)										
1637.9+X[c]	$\langle 21^- \rangle$									
878.2+Z	$2J$+12									
1688+X								100		
937.7+U	$2J$+12									
1769.5+X[a]	$\langle 25^+ \rangle$									
971.6+V	$2J$+12									
1485.3+Y	$2J$+16									
1804.6+X[c]	$\langle 25^- \rangle$	0.72(7) ns								
1844(1)										
1861.8+X[b]	$\langle 23^- \rangle$									
1251.0+Z	$2J$+16									
2064.8+X[b]	$\langle 27^- \rangle$									
2123.6+X[c]	$\langle 29^- \rangle$									
1329.2+U	$2J$+16									
1381.9+V	$2J$+16									
1955.4+Y	$2J$+20									
2286+X								100		
2299+X									100	
2303+X								100		
2307+X								100		
2310+X									100	
2315+X								100		
2328.9+X					53(5)			24(5)		
2335+X									100	
2340+X									100	
2352+X									100	
2357+X								x		
2358.8+X					45(8)					
2361.6+X					68(7)					
2406+X									100	
2409+X								100		
2412.4(15)										
2423(1)										
2431.6+X	$\langle 29^+ \rangle$									
2440.2(9)										
2442(2)										
2443(1)										
1662.8+Z	$2J$+20									
2460(1)										
2475+X										
2476(1)										
2477(1)										
2543(1)										
2545.0+X[b]	$\langle 31^- \rangle$									

(continued)

$^{191}_{80}$Hg

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	0.0+X	51.6	103.7	216.0+X	265.0+X	0+Y
[keV]		Γ_{cm}	$2J_f^\pi$:	$\langle 3^- \rangle$	13^+	$\langle 5^- \rangle$	$\langle 1^- \rangle$	$\langle 9 \rangle^+$	$\langle 11 \rangle^+$	
1758.9+U	$2J+20$									
2588.9+X	$\langle 29^+ \rangle$									
2594.9+X	$\langle 29^- \rangle$									
2598.6+X	$\langle 33^+ \rangle$	0.92(6) ns								
1834.5+V	$2J+20$									
2643.5+X	$\langle 33^- \rangle$									
2690.4+X[c]	$\langle 33^- \rangle$									
2463.8+Y	$2J+24$									
2113.1+Z	$2J+24$									
2935.5+X	$\langle 29^+ \rangle$									
2226.0+U	$2J+24$									
3078.5+X	$\langle 37^+ \rangle$									
3117.5+X	$\langle 33^+ \rangle$									
2328.6+V	$2J+24$									
3167.0+X	$\langle 33^+ \rangle$									
3222.2+X[b]	$\langle 35^- \rangle$									
3252.8+X	$\langle 33^- \rangle$									
3009.7+Y	$2J+28$									
2601.2+Z	$2J+28$									
3428.9+X	$\langle 37^- \rangle$									
3487.7+X	$\langle 37^+ \rangle$									
3518.9+X	$\langle 37^- \rangle$									
2729.9+U	$2J+28$									
2864.0+V	$2J+28$									
3728.1+X	$\langle 35 \rangle$									
3792.7+X	$\langle 41^+ \rangle$									
3592.1+Y	$2J+32$									
3126.4+Z	$2J+32$									
3946.8+X	$\langle 37^- \rangle$									
3957.2+X	$\langle 39^- \rangle$									
3969.0+X	$\langle 39^- \rangle$									
3988.6+X	$\langle 41^+ \rangle$									
3269.6+U	$2J+32$									
4140.9+X	$\langle 41^- \rangle$									
4217.7+X	$\langle 41^- \rangle$									
3439.0+V	$2J+32$									
4276.1+X	$\langle 41^- \rangle$									
4357.4+X	$\langle 43^- \rangle$									
4382.6+X	$\langle 41^- \rangle$									
3688.0+Z	$2J+36$									
4492.0+X	$\langle 41^+ \rangle$									
4210.6+Y	$2J+36$									
4529.8+X	$\langle 39 \rangle$									
4587.1+X	$\langle 41^- \rangle$									
4632.3+X	$\langle 45^+ \rangle$									

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	0.0+X	51.6	103.7	216.0+X	265.0+X	0+Y
[keV]		Γ_{cm}	$2J_f^\pi$:	$\langle 3^- \rangle$	13^+	$\langle 5^- \rangle$	$\langle 1^- \rangle$	$\langle 9 \rangle^+$	$\langle 11 \rangle^+$	
3844.6+U	$2J$+36									
4653.7+X	$\langle 43 \rangle$									
4667.4+X	$\langle 45^+ \rangle$									
4850.9+X	$\langle 45^+ \rangle$									
4053.3+V	$2J$+36									
4855.9+X	$\langle 43^- \rangle$									
4894.9+X	$\langle 45^- \rangle$									
4903.5+X	$\langle 45 \rangle$									
4957.7+X										
5006.5+X	$\langle 47^- \rangle$									
5027.8+X	$\langle 45^- \rangle$									
5072+X	$\langle 45^- \rangle$									
4285.2+Z	$2J$+40									
5128.2+X	$\langle 47 \rangle$									
5142.5+X	$\langle 45^- \rangle$									
4864.3+Y	$2J$+40									
4454.1+U	$2J$+40									
5296.1+X	$\langle 47^- \rangle$									
5427.3+X	$\langle 49^+ \rangle$									
4704.1+V	$2J$+40									
5506.6+X	$\langle 47^- \rangle$									
5534.0+X	$\langle 49^+ \rangle$									
5553.4+X	$\langle 49^+ \rangle$									
5653.8+X	$\langle 49^- \rangle$									
5689+X[d]	31									
4917.3+Z	$2J$+44									
5795.7+X	$\langle 51^- \rangle$									
5802.8+X										
5552.6+Y	$2J$+44									
5096.8+U	$2J$+44									
6000+X[d]	35									
6025.4+X										
6085.3+X	$\langle 51^- \rangle$									
5391.7+V	$2J$+44									
6230.8+X	$\langle 53^+ \rangle$									
6333.7+X	$\langle 53^+ \rangle$									
6352+X[d]	39									
5583.5+Z	$2J$+48									
6459.6+X	$\langle 53 \rangle$									
6520.7+X	$\langle 53^+ \rangle$									
5772.9+U	$2J$+48									
6274.8+Y	$2J$+48									
6678.2+X	$\langle 55^- \rangle$									
6743+X[d]	43									
6114.9+V	$2J$+48									

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	0.0+X	51.6	103.7	216.0+X	265.0+X	0+Y
[keV]		Γ_{cm}	$2J_f^\pi$:	$\langle 3^- \rangle$	13^+	$\langle 5^- \rangle$	$\langle 1^- \rangle$	$\langle 9 \rangle^+$	$\langle 11 \rangle^+$	
6936.5+X	$\langle 55^- \rangle$									
6283.4+Z	$2J+52$									
7077.4+X	$\langle 57^+ \rangle$									
7175+X[d]	47									
7227.0+X	$\langle 57^- \rangle$									
6481.4+U	$2J+52$									
7030.4+Y	$2J+52$									
7527.8+X	$\langle 59 \rangle$									
7645+X[d]	51									
7670.7+X										
6870.9+V	$2J+52$									
7689.9+X	$\langle 59 \rangle$									
7697.0+X										
7016.1+Z	$2J+56$									
7987.4+X	$\langle 61 \rangle$									
7221.4+U	$2J+56$									
7819.2+Y	$2J+56$									
8351.8+X	$\langle 63 \rangle$									
7659.9+V	$2J+56$									
7781.3+Z	$2J+60$									
8668.9+X										
7992.7+U	$2J+60$									
8577.8+Z	$2J+64$									
8793.2+U	$2J+64$									

Additional data on this isotope can be found in [04Si0A, 95So17, 92Ye01, 90Ye03, 90Ca37, 90Ca18, 90Be37].
The level structure based on $13/2^+$ state with unknown position X was studied in [90Ye03].
4 band proposed in [04Si0A] (based on the levels with J^π=$13/2^+$, $23/2^-$, 21^-, $31/2$) are marked a, b, c, d.

Energy levels and branching ratios [95Br38]. Part 2 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	336.3	375.5	377.9	390.5+X	430.4	535.3+X	563.5	588.6+X	310.9+Y
[keV]		$2J_f^\pi$:	$\langle 5^- \rangle$	$\langle 3^- \rangle$	$\langle 7^- \rangle$	$\langle 17^+ \rangle$		$\langle 15^+ \rangle$	$\langle 7^- \rangle$	$\langle 7 \rangle^+$	$2J+4$
377.9(3)	$\langle 7^- \rangle$		x								
563.5(3)	$\langle 7^- \rangle$		4.9(23)								
632.3(3)	$\langle 9^- \rangle$				7(3)						
659.1(4)	$\langle 9^- \rangle$		13(7)		38(4)						
691.8(3)			5(2)				6.8(17)				
742.7+X	$\langle 13 \rangle^+$							5(2)			
761.1+X	$\langle 11 \rangle^+$									6(3)	

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	336.3	375.5	377.9	390.5+X	430.4	535.3+X	563.5	588.6+X	310.9+Y
[keV]		$2J^\pi_f$:	$\langle 5^- \rangle$	$\langle 3^- \rangle$	$\langle 7^- \rangle$	$\langle 17^+ \rangle$		$\langle 15^+ \rangle$	$\langle 7^- \rangle$	$\langle 7 \rangle^+$	$2J$+4
911.3(4)			≤20	≈51	24(6)		25(19)				
952.1(4)	$\langle 9^- \rangle$		78(9)				22(11)				
662.4+Y	$2J$+8										100
997.1(3)	$\langle 5^-,7^-,9^- \rangle$		34(4)		36(4)		30(5)				
1016.3(4)	$\langle 11^- \rangle$				88(18)						
1019.3+X[a]	$\langle 21^+ \rangle$					100					
1024(1)			100								
1081.0(5)			59(10)								
1105.7+X										100	
1107.2(4)	$\langle 7^- – 11^- \rangle$				56(6)						
1146.5(5)									44(21)		
1171.8+X	$\langle 19^+ \rangle$					55(8)		45(10)			
1193.2(5)					64(13)						
1212.4(7)					100						
1317.6(9)	$\langle 5^-,7^-,9^- \rangle$								100		
1470.8(9)					100						
1539(1)					100						
1844(1)			100								
2412.4(15)					100						
2423(1)					100						
2442(2)			100								
2443(1)					100						
2477(1)					100						
2543(1)									100		

Energy levels and branching ratios [95Br38]. Part 3 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	632.3	691.8	742.7+X	0+Z	0+U	0+V	952.1	662.4+Y	1016.3
[keV]		$2J^\pi_f$:	$\langle 9^- \rangle$		$\langle 13 \rangle^+$				$\langle 9^- \rangle$	$2J$+8	$\langle 11^- \rangle$
1016.3(4)	$\langle 11^- \rangle$		12(4)								
252.4+Z	$2J$+4					x					
272.0+U	$2J$+4						x				
280.9+V	$2J$+4							100			
1107.2(4)	$\langle 7^- – 11^- \rangle$		11(6)								
1146.5(5)			56(10)								
1193.2(5)				36(6)							
1320(1)	$\langle 13^- \rangle$		100								
1054.0+Y	$2J$+12									100	
2328.9+X					23(5)						
2357+X					x						
2358.8+X					55(6)						

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	632.3	691.8	742.7+X	0+Z	0+U	0+V	952.1	662.4+Y	1016.3
[keV]	$2J_f^\pi$:	$\langle 9^- \rangle$		$\langle 13 \rangle^+$				$\langle 9^- \rangle$	$2J$+8	$\langle 11^- \rangle$
2361.6+X				32(6)						
2440.2(9)								100		
2460(1)										100
2476(1)		100								

Energy levels and branching ratios [95Br38]. Part 4 **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	1019+X	252.4+Z	272.0+U	280.9+V	1172+X	545.1+Z	1054+Y	585.1+U	604.5+V
[keV]	$2J_f^\pi$:	$\langle 21^+ \rangle$	$2J$+4	$2J$+4	$2J$+4	$\langle 19^+ \rangle$	$2J$+8	$2J$+12	$2J$+8	$2J$+8
545.1+Z	$2J$+8		100							
585.1+U	$2J$+8			100						
604.5+V	$2J$+8				100					
1637.9+X[c]	$\langle 21^- \rangle$	25(3)				75(11)				
878.2+Z	$2J$+12						100			
937.7+U	$2J$+12								100	
1769.5+X[a]	$\langle 25^+ \rangle$	100								
971.6+V	$2J$+12									100
1485.3+Y	$2J$+16							100		
1861.8+X[b]	$\langle 23^- \rangle$	89(14)								
2475+X		100								

Energy levels and branching ratios [95Br38]. Part 5 **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	1638+X	878.2+Z	937.7+U	1770+X	971.6+V	1485+Y	1805+X	1862+X	1251+Z
[keV]	$2J_f^\pi$:	$\langle 21^- \rangle$	$2J$+12	$2J$+12	$\langle 25^+ \rangle$	$2J$+12	$2J$+16	$\langle 25^- \rangle$	$\langle 23^- \rangle$	$2J$+16
1804.6+X[c]	$\langle 25^- \rangle$	100								
1861.8+X[b]	$\langle 23^- \rangle$	11(2)								
1251.0+Z	$2J$+16		100							
2064.8+X[b]	$\langle 27^- \rangle$				28(5)			14(2)	57(4)	
2123.6+X[c]	$\langle 29^- \rangle$							100		
1329.2+U	$2J$+16			100						
1381.9+V	$2J$+16					100				
1955.4+Y	$2J$+20						100			
2431.6+X	$\langle 29^+ \rangle$				100					
1662.8+Z	$2J$+20									100
2588.9+X	$\langle 29^+ \rangle$				100					

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	1638+X	878.2+Z	937.7+U	1770+X	971.6+V	1485+Y	1805+X	1862+X	1251+Z
[keV]	$2J_f^\pi$:	$\langle 21^- \rangle$	$2J$+12	$2J$+12	$\langle 25^+ \rangle$	$2J$+12	$2J$+16	$\langle 25^- \rangle$	$\langle 23^- \rangle$	$2J$+16
2594.9+X	$\langle 29^- \rangle$							100		
2935.5+X	$\langle 29^+ \rangle$				100					

Energy levels and branching ratios [95Br38]. Part 6 **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	2065+X	2124+X	1329+U	1382+V	1955+Y	2432+X	1663+Z	2545+X	1759+U
[keV]	$2J_f^\pi$:	$\langle 27^- \rangle$	$\langle 29^- \rangle$	$2J$+16	$2J$+16	$2J$+20	$\langle 29^+ \rangle$	$2J$+20	$\langle 31^- \rangle$	$2J$+20
2545.0+X[b]	$\langle 31^- \rangle$	100								
1758.9+U	$2J$+20			x						
2598.6+X	$\langle 33^+ \rangle$						100			
1834.5+V	$2J$+20				100					
2643.5+X	$\langle 33^- \rangle$		100							
2690.4+X[c]	$\langle 33^- \rangle$		100							
2463.8+Y	$2J$+24					100				
2113.1+Z	$2J$+24							100		
2226.0+U	$2J$+24									100
3222.2+X[b]	$\langle 35^- \rangle$								100	
3252.8+X	$\langle 33^- \rangle$		18(14)							

Energy levels and branching ratios [95Br38]. Part 7 **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	2589+X	2595+X	2599+X	1835+V	2644+X	2690+X	2464+Y	2113+Z	2936+X
[keV]	$2J_f^\pi$:	$\langle 29^+ \rangle$	$\langle 29^- \rangle$	$\langle 33^+ \rangle$	$2J$+20	$\langle 33^- \rangle$	$\langle 33^- \rangle$	$2J$+24	$2J$+24	$\langle 29^+ \rangle$
3078.5+X	$\langle 37^+ \rangle$			100						
3117.5+X	$\langle 33^+ \rangle$	100								
2328.6+V	$2J$+24				100					
3167.0+X	$\langle 33^+ \rangle$	25(6)		65(17)						10(3)
3252.8+X	$\langle 33^- \rangle$		82(32)							
3009.7+Y	$2J$+28							100		
2601.2+Z	$2J$+28								100	
3428.9+X	$\langle 37^- \rangle$						100			
3518.9+X	$\langle 37^- \rangle$					100				
3728.1+X	$\langle 35 \rangle$						100			
3946.8+X	$\langle 37^- \rangle$						30(23)			

Energy levels and branching ratios [95Br38]. Part 8 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	2226+U	3079+X	2329+V	3167+X	3222+X	3253+X	3010+Y	2601+Z	3429+X
[keV]		$2J_f^\pi$:	$2J$+24	$\langle 37^+\rangle$	$2J$+24	$\langle 33^+\rangle$	$\langle 35^-\rangle$	$\langle 33^-\rangle$	$2J$+28	$2J$+28	$\langle 37^-\rangle$
3487.7+X	$\langle 37^+\rangle$			58(12)		42(8)					
2729.9+U	$2J$+28		100								
2864.0+V	$2J$+28				100						
3792.7+X	$\langle 41^+\rangle$			100							
3592.1+Y	$2J$+32								100		
3126.4+Z	$2J$+32									100	
3946.8+X	$\langle 37^-\rangle$							70(15)			
3957.2+X	$\langle 39^-\rangle$						100				
3969.0+X	$\langle 39^-\rangle$						100				
4140.9+X	$\langle 41^-\rangle$										100
4217.7+X	$\langle 41^-\rangle$										100
4382.6+X	$\langle 41^-\rangle$										100
4492.0+X	$\langle 41^+\rangle$			62(14)							
4529.8+X	$\langle 39\rangle$										65(18)
4587.1+X	$\langle 41^-\rangle$										37(3)

Energy levels and branching ratios [95Br38]. Part 9 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	3488+X	3519+X	2730+U	2864+V	3728+X	3793+X	3592+Y	3126+Z	3947+X
[keV]		$2J_f^\pi$:	$\langle 37^+\rangle$	$\langle 37^-\rangle$	$2J$+28	$2J$+28	$\langle 35\rangle$	$\langle 41^+\rangle$	$2J$+32	$2J$+32	$\langle 37^-\rangle$
3988.6+X	$\langle 41^+\rangle$		100								
3269.6+U	$2J$+32				100						
3439.0+V	$2J$+32					100					
4276.1+X	$\langle 41^-\rangle$			100							
3688.0+Z	$2J$+36									100	
4492.0+X	$\langle 41^+\rangle$		38(9)								
4210.6+Y	$2J$+36								100		
4529.8+X	$\langle 39\rangle$						35(8)				
4587.1+X	$\langle 41^-\rangle$										30(6)
4632.3+X	$\langle 45^+\rangle$							100			

Energy levels and branching ratios [95Br38]. Part 10 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	3957+X	3989+X	3270+U	4141+X	4218+X	3439+V	4276+X	4357+X	4383+X
[keV]		$2J_f^\pi$:	$\langle 39^-\rangle$	$\langle 41^+\rangle$	$2J$+32	$\langle 41^-\rangle$	$\langle 41^-\rangle$	$2J$+32	$\langle 41^-\rangle$	$\langle 43^-\rangle$	$\langle 41^-\rangle$
4357.4+X	$\langle 43^-\rangle$		100								
4587.1+X	$\langle 41^-\rangle$		33(7)								

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3957+X	3989+X	3270+U	4141+X	4218+X	3439+V	4276+X	4357+X	4383+X
[keV]	$2J_f^\pi$:	$\langle 39^- \rangle$	$\langle 41^+ \rangle$	$2J$+32	$\langle 41^- \rangle$	$\langle 41^- \rangle$	$2J$+32	$\langle 41^- \rangle$	$\langle 43^- \rangle$	$\langle 41^- \rangle$
3844.6+U	$2J$+36			100						
4653.7+X	$\langle 43 \rangle$									100
4667.4+X	$\langle 45^+ \rangle$		100							
4850.9+X	$\langle 45^+ \rangle$		20(3)							
4053.3+V	$2J$+36						100			
4894.9+X	$\langle 45^- \rangle$									71(14)
4903.5+X	$\langle 45 \rangle$									72(18)
4957.7+X						100				
5006.5+X	$\langle 47^- \rangle$								100	
5027.8+X	$\langle 45^- \rangle$				100					
5072+X	$\langle 45^- \rangle$							100		

Energy levels and branching ratios [95Br38]. Part 11 **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3688+Z	4492+X	4211+Y	4530+X	4587+X	4632+X	3845+U	4654+X	4667+X
[keV]	$2J_f^\pi$:	$2J$+36	$\langle 41^+ \rangle$	$2J$+36	$\langle 39 \rangle$	$\langle 41^- \rangle$	$\langle 45^+ \rangle$	$2J$+36	$\langle 43 \rangle$	$\langle 45^+ \rangle$
4587.1+X	$\langle 41^- \rangle$				x					
4850.9+X	$\langle 45^+ \rangle$		80(17)							
4855.9+X	$\langle 43^- \rangle$					100				
4894.9+X	$\langle 45^- \rangle$								29(14)	
4903.5+X	$\langle 45 \rangle$								28(9)	
4285.2+Z	$2J$+40	100								
5142.5+X	$\langle 45^- \rangle$					46(3)				
4864.3+Y	$2J$+40			100						
4454.1+U	$2J$+40							100		
5427.3+X	$\langle 49^+ \rangle$									100
5534.0+X	$\langle 49^+ \rangle$						14(2)			15(3)
5553.4+X	$\langle 49^+ \rangle$						100			

Energy levels and branching ratios [95Br38]. Part 12 **$^{191}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	4851+X	4053+V	4856+X	4895+X	4958+X	5007+X	5028+X	4285+Z	5143+X
[keV]	$2J_f^\pi$:	$\langle 45^+ \rangle$	$2J$+36	$\langle 43^- \rangle$	$\langle 45^- \rangle$		$\langle 47^- \rangle$	$\langle 45^- \rangle$	$2J$+40	$\langle 45^- \rangle$
5128.2+X	$\langle 47 \rangle$				100					
5142.5+X	$\langle 45^- \rangle$			54						
5296.1+X	$\langle 47^- \rangle$			100						
4704.1+V	$2J$+40		100							

(continued) **$^{191}_{80}$Hg**

E^*	$2J^\pi$					Branching ratios in percentage					
		E_f^*:	4851+X	4053+V	4856+X	4895+X	4958+X	5007+X	5028+X	4285+Z	5143+X
[keV]		$2J_f^\pi$:	$\langle 45^+ \rangle$	$2J$+36	$\langle 43^- \rangle$	$\langle 45^- \rangle$		$\langle 47^- \rangle$	$\langle 45^- \rangle$	$2J$+40	$\langle 45^- \rangle$
5506.6+X	$\langle 47^- \rangle$				36(3)						46(7)
5534.0+X	$\langle 49^+ \rangle$		71(17)								
4917.3+Z	$2J$+44									100	
5795.7+X	$\langle 51^- \rangle$							100			
5802.8+X							100				
6025.4+X									100		

Energy levels and branching ratios [95Br38]. Part 13 **$^{191}_{80}$Hg**

E^*	$2J^\pi$					Branching ratios in percentage					
		E_f^*:	4864+Y	4454+U	5296+X	5427+X	4704+V	5507+X	5534+X	5553+X	5654+X
[keV]		$2J_f^\pi$:	$2J$+40	$2J$+40	$\langle 47^- \rangle$	$\langle 49^+ \rangle$	$2J$+40	$\langle 47^- \rangle$	$\langle 49^+ \rangle$	$\langle 49^+ \rangle$	$\langle 49^- \rangle$
5506.6+X	$\langle 47^- \rangle$				19(5)						
5653.8+X	$\langle 49^- \rangle$							100			
5552.6+Y	$2J$+44		100								
5096.8+U	$2J$+44			100							
6085.3+X	$\langle 51^- \rangle$							55(18)			45(7)
5391.7+V	$2J$+44						100				
6230.8+X	$\langle 53^+ \rangle$					100					
6333.7+X	$\langle 53^+ \rangle$								100		
6459.6+X	$\langle 53 \rangle$										60(28)
6520.7+X	$\langle 53^+ \rangle$									100	

Energy levels and branching ratios [95Br38]. Part 14 **$^{191}_{80}$Hg**

E^*	$2J^\pi$					Branching ratios in percentage					
		E_f^*:	4917+Z	5796+X	5553+Y	5097+U	6085+X	5392+V	6231+X	5584+Z	6460+X
[keV]		$2J_f^\pi$:	$2J$+44	$\langle 51^- \rangle$	$2J$+44	$2J$+44	$\langle 51^- \rangle$	$2J$+44	$\langle 53^+ \rangle$	$2J$+48	$\langle 53 \rangle$
5583.5+Z	$2J$+48		100								
6459.6+X	$\langle 53 \rangle$						40(12)				
5772.9+U	$2J$+48					100					
6274.8+Y	$2J$+48				100						
6678.2+X	$\langle 55^- \rangle$			100							
6114.9+V	$2J$+48							100			
6936.5+X	$\langle 55^- \rangle$						78(5)				22(6)
6283.4+Z	$2J$+52									100	
7077.4+X	$\langle 57^+ \rangle$								100		

Energy levels and branching ratios [95Br38]. Part 15 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	5773+U	6275+Y	6678+X	6115+V	6937+X	6283+Z	7227+X	6481+U	7030+Y
[keV]		$2J_f^\pi$:	$2J$+48	$2J$+48	$\langle 55^- \rangle$	$2J$+48	$\langle 55^- \rangle$	$2J$+52	$\langle 57^- \rangle$	$2J$+52	$2J$+52
7227.0+X	$\langle 57^- \rangle$						100				
6481.4+U	$2J$+52		100								
7030.4+Y	$2J$+52			100							
7527.8+X	$\langle 59 \rangle$								100		
7670.7+X					100						
6870.9+V	$2J$+52					100					
7689.9+X	$\langle 59 \rangle$								100		
7697.0+X					100						
7016.1+Z	$2J$+56							x			
7987.4+X	$\langle 61 \rangle$								33(18)		
7221.4+U	$2J$+56									x	
7819.2+Y	$2J$+56										100

Energy levels and branching ratios [95Br38]. Part 16 **$^{191}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	7528+X	6871+V	7690+X	7016+Z	7987+X	7221+U	8352+X	7781+Z	7993+U
[keV]		$2J_f^\pi$:	$\langle 59 \rangle$	$2J$+52	$\langle 59 \rangle$	$2J$+56	$\langle 61 \rangle$	$2J$+56	$\langle 63 \rangle$	$2J$+60	$2J$+60
7987.4+X	$\langle 61 \rangle$		67(43)								
8351.8+X	$\langle 63 \rangle$		30(12)		30(7)		40(32)				
7659.9+V	$2J$+56			100							
7781.3+Z	$2J$+60					x					
8668.9+X									100		
7992.7+U	$2J$+60							x			
8577.8+Z	$2J$+64									x	
8793.2+U	$2J$+64										x

Energy levels and branching ratios [98Ba61]. **$^{192}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	422.79	0+Z	0+Y	0+X	1057.58	1113.60
[keV]		Γ_{cm} J_f^π:	0^+	2^+	J	$J\approx\langle 10 \rangle$	$J\approx\langle 8 \rangle$	4^+	$\langle 2 \rangle^+$
0.0	0^+	4.85(20) h							
422.79(10)	2^+		100						
0+Z	J								
0+Y	$J\approx\langle 10 \rangle$								
0+X	$J\approx\langle 8 \rangle$								
1057.58(14)	4^+			100					
1113.60(14)	$\langle 2 \rangle^+$		≈25	75(3)					

(continued)

$^{192}_{80}$Hg

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	422.79	0+Z	0+Y	0+X	1057.58	1113.60
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	J	$J\approx\langle 10\rangle$	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
241.2+Y	J+2						x			
333.1+Z	J+2					x				
214.4+X	J+2	<77 ps						x		
523.6+Y	J+4									
472.2+X	J+4	3.7(+18-6) ps								
705.9+Z	J+4									
1535.2(4)	$\langle 3\rangle^+$				≈81				≈19	
1732.98(16)	$\langle 4\rangle^+$								56(3)	44(7)
845.7+Y	J+6									
772.3+X	J+6	1.74(+22-17) ps								
1803.05(16)	6^+								100	
1831.62(21)	$\langle 2^+,3,4^+\rangle$								42(4)	58.5(8)
1843.90(16)	$\langle 5\rangle^-$								100	
1844.59(23)	$\langle 3,4\rangle$				100					
1908.58(25)	$1,2^+$			60(5)	40(5)					
1118.0+Z	J+6									
1977.03(17)	$\langle 7\rangle^-$	1.04(6) n								
1986.9(11)	$\langle 6^-\rangle$									
2056.29(23)	$\langle 1,2^+\rangle$			<58	100					
2081.69(23)	$\langle 1,2^+\rangle$			3.4(13)	97(8)					
1207.0+Y	J+8									
1113.7+X	J+8	0.84(+22-20) ps								
2186.98(21)	$\langle 6\rangle^-$									
2216.20(24)	$\langle 8\rangle^-$	0.92(5) n								
2223.85(24)	$\langle 9\rangle^-$									
2276.9(4)	$1,2^+$			36(6)	64(6)					
2284.7(5)										100
2300.7(3)	$\langle 6,7,8\rangle^-$									
1568.6+Z	J+8									
2447.2(3)	$\langle 8\rangle^+$									
1607.2+Y	J+10									
2507.3(3)	$\langle 10\rangle^+$	3.6(5) ns								
1495.3+X	J+10	0.48(+62-13) ps								
2534.2(5)										
2535.5(4)	$\langle 12^+\rangle$	11.1(5) ns								
2632.7(3)	$\langle 10^-\rangle$									
2657.1(11)										
2756.7(3)	$\langle 11^-\rangle$									
2056.9+Z	J+10									
2902.3(11)	$\langle 10^+\rangle$									
2045.2+Y	J+12									
1916.4+X	J+12									
2951.7(4)	$\langle 14^+\rangle$									
3047.0(4)	$\langle 12^+\rangle$									
3261.9(3)	$\langle 12^-\rangle$									

(continued) **$^{192}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	422.79	0+Z	0+Y	0+X	1057.58	1113.60
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	J	$J\approx\langle 10\rangle$	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
2375.2+X	J+14	0.18(+5-4) ps								
2582.4+Z	J+12									
2520.4+Y	J+14	0.14(4) ps								
3449.6(4)	$\langle 13^-\rangle$									
3608.6(5)	$\langle 16^+\rangle$									
3669.8(4)	$\langle 14^+\rangle$									
3725.6(5)	$\langle 14^+\rangle$									
2871.2+X	J+16	0.137(+17-21) ps								
3894.9(4)	$\langle 14^-\rangle$									
3031.4+Y	J+16	0.15(+5-3) ps								
3144.1+Z	J+14									
3984.9(8)	$\langle 14^-\rangle$									
4010.5(4)	$\langle 15^-\rangle$									
4089.9(4)	$\langle 16^-\rangle$	0.39(4) ns								
4130.6(5)	$\langle 16^+\rangle$									
4216.9(4)	$\langle 17^-\rangle$									
4387.7(5)	$\langle 18^-\rangle$									
4389.4(5)	$\langle 18^+\rangle$									
3403.3+X	J+18	0.093(+10-14) ps								
3578.1+Y	J+18	0.100(14) ps								
4519.8(10)	$\langle 17^-\rangle$									
3741.4+Z	J+16									
4588.4(4)	$\langle 19^-\rangle$									
4741.6(5)	$\langle 18^+\rangle$									
4950.5(5)	$\langle 20^-\rangle$									
3970.7+X	J+20	0.068(+10-11) ps								
5021.6(10)	$\langle 19^-\rangle$									
4156.9+Y	J+20	0.064(8) ps								
5130.7(5)	$\langle 20^+\rangle$									
4371.5+Z	J+18									
5216.0(5)	$\langle 21^-\rangle$									
5271.6(6)	$\langle 20^+\rangle$									
5316.5(6)	$\langle 20^+\rangle$									
5543.5(7)	$\langle 21^-\rangle$									
5587.1(8)	$\langle 20^+\rangle$									
4572.4+X	J+22	0.062(+10-7) ps								
4761.3+Y	J+22	0.052(+6-7) ps								
5655.2(6)	$\langle 22\rangle^-$									
5700.6(6)	$\langle 22\rangle^+$									
5787.9(6)	$\langle 22^+\rangle$									
5030.5+Z	J+20									
6012.2(6)	$\langle 23^-\rangle$									
6112.6(9)	$\langle 22^+\rangle$									
6125.5(8)	$\langle 23^-\rangle$									
5207.3+X	J+24	0.050(+10-12) ps								

(continued) **$^{192}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	422.79	0+Z	0+Y	0+X	1057.58	1113.60
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	J	$J\approx\langle 10\rangle$	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
6233.6(12)	$\langle 22^+\rangle$									
5385.5+Y	J+24	0.044(6) ps								
6294.6(10)	$\langle 22^+\rangle$									
6303.3(9)	$\langle 22^+\rangle$									
6428.1(6)	$\langle 24\rangle^+$									
6432.8(11)	$\langle 23^+\rangle$	10(+4-3) ps								
6437.6(7)	$\langle 24^-\rangle$									
5711.5+Z	J+22									
6709.4(11)	$\langle 24^+\rangle$	14(+3-4) ps								
6855.0(6)	$\langle 25^-\rangle$									
6878.4(11)	$\langle 23^-\rangle$									
5875.4+X	J+26	0.031(+9-8) ps								
6037.7+Y	J+26									
6949.2(10)	$\langle 25^-\rangle$									
7035.3(10)	$\langle 24^-\rangle$									
7043.3(12)	$\langle 25^+\rangle$	0.7(+7-11) ps								
7267.6(12)	$\langle 26^-\rangle$									
7272.5(8)	$\langle 25^-\rangle$									
7320.1(12)	$\langle 26^+\rangle$									
7434.9(13)	$\langle 26^+\rangle$	2.5(+13-7) ps								
7516.1(9)	$\langle 26^-\rangle$									
6575.5+X	J+28	0.032(+9-8) ps								
6722.0+Y	J+28									
7684.9(9)	$\langle 25^-,26^-\rangle$									
7722.0(12)	$\langle 27^-\rangle$									
7787.8(8)	$\langle 27^-\rangle$									
7819.6(10)	$\langle 27^-\rangle$									
7838.4(11)	$\langle 26^-,27^-\rangle$									
7926.7(10)	$\langle 28^-\rangle$									
7959.0(14)	$\langle 27^+\rangle$	1.2(10) ps								
8180.7(16)	$\langle 28^+\rangle$									
8194.6(16)	$\langle 28^-\rangle$									
8207.6(16)	$\langle 28^-\rangle$									
8224.3(11)	$\langle 28^-\rangle$									
8263.5(11)	$\langle 29^-\rangle$									
8302.6(14)	$\langle 28^+\rangle$	0.5(5) ps								
7307.0+X	J+30	0.021(+11-21) ps								
7439.7+Y	J+30									
8331.1(16)	$\langle 28^+\rangle$									
8543.2(12)	$\langle 30^-\rangle$									
8631.0(16)	$\langle 29^-\rangle$									
8693.0(16)	$\langle 29^-\rangle$									
8712.6(15)	$\langle 29^+\rangle$	0.14(+49-14) ps								
8961.3(15)	$\langle 30^+\rangle$	0.9(4) ps								
8990.2(13)	$\langle 31^-\rangle$									

(continued) **$^{192}_{80}$Hg**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	422.79	0+Z	0+Y	0+X	1057.58	1113.60
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	J	$J\approx\langle 10\rangle$	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
8189.5+Y	J+32									
8069.3+X	J+32	0.019(+18-19) ps								
9196.0(16)	$\langle 31^+\rangle$	2.4(+4-3) ps								
9375.9(17)	$\langle 32^+\rangle$	1.5(3) ps								
9443.4(13)	$\langle 32^-\rangle$									
9666.0(18)	$\langle 33^+\rangle$									
8972.6+Y	J+34									
8862.0+X	J+34									
9932.8(14)	$\langle 33^-\rangle$									
10038.0(20)	$\langle 34^+\rangle$									
10464.4(17)	$\langle 34^-\rangle$									
9791.6+Y	J+36									
9684.9+X	J+36									
10538.0+X	J+38									
11426.7+X	J+40									

Additional data on this isotope can be found in [02Li50, 93Ha20, 90Ye01, 90Mo16, 90Ca37, 90Be37, 90Be01].

Energy levels and branching ratios [98Ba61]. Part 2 **$^{192}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	241.2+Y	333.1+Z	214.4+X	523.6+Y	472.2+X	705.9+Z	1535.2	845.7+Y	772.3+X
[keV]		J_f^π:	J+2	J+2	J+2	J+4	J+4	J+4	$\langle 3\rangle^+$	J+6	J+6
523.6+Y	J+4		x								
472.2+X	J+4				x						
705.9+Z	J+4			x							
845.7+Y	J+6					x					
772.3+X	J+6						x				
1118.0+Z	J+6							x			
1207.0+Y	J+8									x	
1113.7+X	J+8										x
2534.2(5)									100		

Energy levels and branching ratios [98Ba61]. Part 3 **$^{192}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	1803.05	1843.90	1118+Z	1977.03	1207+Y	1114+X	2216.20	2223.85	1569+Z
[keV]		J_f^π:	6^+	$\langle 5\rangle^-$	J+6	$\langle 7\rangle^-$	J+8	J+8	$\langle 8\rangle^-$	$\langle 9\rangle^-$	J+8
1977.03(17)	$\langle 7\rangle^-$		70(3)	29.8(19)							
1986.9(11)	$\langle 6^-\rangle$			x							
2186.98(21)	$\langle 6\rangle^-$		74(10)	26(10)							
2216.20(24)	$\langle 8\rangle^-$					100					
2223.85(24)	$\langle 9\rangle^-$					100					
2300.7(3)	$\langle 6,7,8\rangle^-$					100					
1568.6+Z	J+8				x						
2447.2(3)	$\langle 8\rangle^+$		100			x					
1607.2+Y	J+10						x				
2507.3(3)	$\langle 10\rangle^+$									98(20)	
1495.3+X	J+10							x			
2632.7(3)	$\langle 10^-\rangle$								72	28	
2657.1(11)			100								
2756.7(3)	$\langle 11^-\rangle$									100	
2056.9+Z	J+10										x

Energy levels and branching ratios [98Ba61]. Part 4 **$^{192}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	2447.2	1607+Y	2507.3	1495+X	2535.5	2632.7	2756.7	2057+Z	2902.3
[keV]		J_f^π:	$\langle 8\rangle^+$	J+10	$\langle 10\rangle^+$	J+10	$\langle 12^+\rangle$	$\langle 10^-\rangle$	$\langle 11^-\rangle$	J+10	$\langle 10^+\rangle$
2507.3(3)	$\langle 10\rangle^+$		≈2.2								
2535.5(4)	$\langle 12^+\rangle$				100						
2902.3(11)	$\langle 10^+\rangle$				x						
2045.2+Y	J+12			x							
1916.4+X	J+12					x					
2951.7(4)	$\langle 14^+\rangle$						100				
3047.0(4)	$\langle 12^+\rangle$				x		x				x
3261.9(3)	$\langle 12^-\rangle$							96	3.7		
2582.4+Z	J+12									x	
3449.6(4)	$\langle 13^-\rangle$								100		
3669.8(4)	$\langle 14^+\rangle$						x				
3725.6(5)	$\langle 14^+\rangle$						x				

Energy levels and branching ratios [98Ba61]. Part 5 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2045+Y	1916+X	2951.7	3047.0	3261.9	2375+X	2582+Z	2520+Y	3449.6
[keV]	J_f^π:	J+12	J+12	$\langle 14^+ \rangle$	$\langle 12^+ \rangle$	$\langle 12^- \rangle$	J+14	J+12	J+14	$\langle 13^- \rangle$
2375.2+X	J+14		x							
2520.4+Y	J+14	x								
3608.6(5)	$\langle 16^+ \rangle$			100						
3669.8(4)	$\langle 14^+ \rangle$			39	61					
3725.6(5)	$\langle 14^+ \rangle$				100					
2871.2+X	J+16						x			
3894.9(4)	$\langle 14^- \rangle$					96				3.7
3031.4+Y	J+16								x	
3144.1+Z	J+14							x		
3984.9(8)	$\langle 14^- \rangle$					x				
4010.5(4)	$\langle 15^- \rangle$			19						81
4130.6(5)	$\langle 16^+ \rangle$			x						

Energy levels and branching ratios [98Ba61]. Part 6 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	3608.6	3669.8	3725.6	2871+X	3894.9	3031+Y	3144+Z	3984.9	4010.5
[keV]	J_f^π:	$\langle 16^+ \rangle$	$\langle 14^+ \rangle$	$\langle 14^+ \rangle$	J+16	$\langle 14^- \rangle$	J+16	J+14	$\langle 14^- \rangle$	$\langle 15^- \rangle$
4089.9(4)	$\langle 16^- \rangle$					x			x	
4130.6(5)	$\langle 16^+ \rangle$	19	64	17						
4216.9(4)	$\langle 17^- \rangle$									75
4389.4(5)	$\langle 18^+ \rangle$	100								
3403.3+X	J+18				x					
3578.1+Y	J+18						x			
3741.4+Z	J+16							x		

Energy levels and branching ratios [98Ba61]. Part 7 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	4089.9	4130.6	4216.9	4387.7	4389.4	3403+X	3578+Y	4519.8	3741+Z
[keV]	J_f^π:	$\langle 16^- \rangle$	$\langle 16^+ \rangle$	$\langle 17^- \rangle$	$\langle 18^- \rangle$	$\langle 18^+ \rangle$	J+18	J+18	$\langle 17^- \rangle$	J+16
4216.9(4)	$\langle 17^- \rangle$	25								
4387.7(5)	$\langle 18^- \rangle$	100								
4519.8(10)	$\langle 17^- \rangle$			x						
4588.4(4)	$\langle 19^- \rangle$			92	7.6					
4741.6(5)	$\langle 18^+ \rangle$		100							
4950.5(5)	$\langle 20^- \rangle$				100					
3970.7+X	J+20						x			
5021.6(10)	$\langle 19^- \rangle$								x	

(continued) **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	4089.9	4130.6	4216.9	4387.7	4389.4	3403+X	3578+Y	4519.8	3741+Z
[keV]	J_f^π:	$\langle 16^- \rangle$	$\langle 16^+ \rangle$	$\langle 17^- \rangle$	$\langle 18^- \rangle$	$\langle 18^+ \rangle$	J+18	J+18	$\langle 17^- \rangle$	J+16
4156.9+Y	J+20							x		
5130.7(5)	$\langle 20^+ \rangle$					100				
4371.5+Z	J+18									x
5271.6(6)	$\langle 20^+ \rangle$					100				

Energy levels and branching ratios [98Ba61]. Part 8 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	4588.4	4741.6	4950.5	3971+X	5021.6	4157+Y	5130.7	4372+Z	5216.0
[keV]	J_f^π:	$\langle 19^- \rangle$	$\langle 18^+ \rangle$	$\langle 20^- \rangle$	J+20	$\langle 19^- \rangle$	J+20	$\langle 20^+ \rangle$	J+18	$\langle 21^- \rangle$
5216.0(5)	$\langle 21^- \rangle$	100								
5316.5(6)	$\langle 20^+ \rangle$		100							
5543.5(7)	$\langle 21^- \rangle$	x		x		x				
5587.1(8)	$\langle 20^+ \rangle$		x							
4572.4+X	J+22				x					
4761.3+Y	J+22						x			
5655.2(6)	$\langle 22 \rangle^-$			100						
5700.6(6)	$\langle 22 \rangle^+$							100		
5030.5+Z	J+20								x	
6012.2(6)	$\langle 23^- \rangle$									100
6112.6(9)	$\langle 22^+ \rangle$							x		
6125.5(8)	$\langle 23^- \rangle$									x

Energy levels and branching ratios [98Ba61]. Part 9 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	5271.6	5316.5	5543.5	5587.1	4572+X	4761+Y	5655.2	5700.6	5787.9
[keV]	J_f^π:	$\langle 20^+ \rangle$	$\langle 20^+ \rangle$	$\langle 21^- \rangle$	$\langle 20^+ \rangle$	J+22	J+22	$\langle 22 \rangle^-$	$\langle 22 \rangle^+$	$\langle 22^+ \rangle$
5587.1(8)	$\langle 20^+ \rangle$		x							
5787.9(6)	$\langle 22^+ \rangle$		100							
6112.6(9)	$\langle 22^+ \rangle$	x								
6125.5(8)	$\langle 23^- \rangle$			x						
5207.3+X	J+24					x				
6233.6(12)	$\langle 22^+ \rangle$	x								
5385.5+Y	J+24						x			
6294.6(10)	$\langle 22^+ \rangle$		x							
6303.3(9)	$\langle 22^+ \rangle$		x		x					
6428.1(6)	$\langle 24 \rangle^+$								100	x
6437.6(7)	$\langle 24^- \rangle$							100		

Energy levels and branching ratios [98Ba61]. Part 10 **$^{192}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	5031+Z	6012.2	6125.5	5207+X	5386+Y	6294.6	6303.3	6428.1	6432.8
[keV]		J_f^π:	J+20	$\langle 23^- \rangle$	$\langle 23^- \rangle$	J+24	J+24	$\langle 22^+ \rangle$	$\langle 22^+ \rangle$	$\langle 24 \rangle^+$	$\langle 23^+ \rangle$
6432.8(11)	$\langle 23^+ \rangle$							x	x		
5711.5+Z	J+22		x								
6709.4(11)	$\langle 24^+ \rangle$								22		78
6855.0(6)	$\langle 25^- \rangle$			100							
5875.4+X	J+26					x					
6037.7+Y	J+26						x				
6949.2(10)	$\langle 25^- \rangle$				x						
7043.3(12)	$\langle 25^+ \rangle$										74
7272.5(8)	$\langle 25^- \rangle$			x	x						
7320.1(12)	$\langle 26^+ \rangle$									x	

Energy levels and branching ratios [98Ba61]. Part 11 **$^{192}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	6437.6	6709.4	6855.0	6878.4	5875+X	6038+Y	6949.2	7035.3	7043.3
[keV]		J_f^π:	$\langle 24^- \rangle$	$\langle 24^+ \rangle$	$\langle 25^- \rangle$	$\langle 23^- \rangle$	J+26	J+26	$\langle 25^- \rangle$	$\langle 24^- \rangle$	$\langle 25^+ \rangle$
7035.3(10)	$\langle 24^- \rangle$					x					
7043.3(12)	$\langle 25^+ \rangle$			26							
7267.6(12)	$\langle 26^- \rangle$		x								
7272.5(8)	$\langle 25^- \rangle$					x				x	
7434.9(13)	$\langle 26^+ \rangle$			53							47
7516.1(9)	$\langle 26^- \rangle$									x	
6575.5+X	J+28						x				
6722.0+Y	J+28							x			
7684.9(9)	$\langle 25^-,26^- \rangle$		x								
7722.0(12)	$\langle 27^- \rangle$				x						
7787.8(8)	$\langle 27^- \rangle$				x						
7819.6(10)	$\langle 27^- \rangle$								x		
7838.4(11)	$\langle 26^-,27^- \rangle$								x		
7959.0(14)	$\langle 27^+ \rangle$										38

Energy levels and branching ratios [98Ba61]. Part 12 **$^{192}_{80}$Hg**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	7267.6	7272.5	7320.1	7434.9	7516.1	6576+X	6722+Y	7684.9	7722.0
[keV]		J_f^π:	$\langle 26^- \rangle$	$\langle 25^- \rangle$	$\langle 26^+ \rangle$	$\langle 26^+ \rangle$	$\langle 26^- \rangle$	J+28	J+28		$\langle 27^- \rangle$
7516.1(9)	$\langle 26^- \rangle$			x							
7684.9(9)	$\langle 25^-,26^- \rangle$			x							
7787.8(8)	$\langle 27^- \rangle$			x			x			x	

(continued) **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	7267.6	7272.5	7320.1	7434.9	7516.1	6576+X	6722+Y	7684.9	7722.0
[keV]	J_f^π:	$\langle 26^- \rangle$	$\langle 25^- \rangle$	$\langle 26^+ \rangle$	$\langle 26^+ \rangle$	$\langle 26^- \rangle$	J+28	J+28		$\langle 27^- \rangle$
7819.6(10)	$\langle 27^- \rangle$					x				
7926.7(10)	$\langle 28^- \rangle$					x				
7959.0(14)	$\langle 27^+ \rangle$				62					
8194.6(16)	$\langle 28^- \rangle$	x								
8207.6(16)	$\langle 28^- \rangle$	x								
8224.3(11)	$\langle 28^- \rangle$					x				
8302.6(14)	$\langle 28^+ \rangle$				63					
7307.0+X	J+30						x			
7439.7+Y	J+30							x		
8331.1(16)	$\langle 28^+ \rangle$			x						
8631.0(16)	$\langle 29^- \rangle$									x
8693.0(16)	$\langle 29^- \rangle$									x

Energy levels and branching ratios [98Ba61]. Part 13 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	7787.8	7819.6	7838.4	7926.7	7959.0	8180.7	8263.5	8302.6	7307+X
[keV]	J_f^π:	$\langle 27^- \rangle$	$\langle 27^- \rangle$		$\langle 28^- \rangle$	$\langle 27^+ \rangle$	$\langle 28^+ \rangle$	$\langle 29^- \rangle$	$\langle 28^+ \rangle$	J+30
7926.7(10)	$\langle 28^- \rangle$	x	x	x						
8180.7(16)	$\langle 28^+ \rangle$					x				
8224.3(11)	$\langle 28^- \rangle$		x	x						
8263.5(11)	$\langle 29^- \rangle$	x			x					
8302.6(14)	$\langle 28^+ \rangle$					37				
8543.2(12)	$\langle 30^- \rangle$				x			x		
8712.6(15)	$\langle 29^+ \rangle$					40			60	
8961.3(15)	$\langle 30^+ \rangle$						x		47	
8990.2(13)	$\langle 31^- \rangle$							x		
8069.3+X	J+32									x

Energy levels and branching ratios [98Ba61]. Part 14 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	7440+Y	8543.2	8712.6	8961.3	8990.2	8190+Y	8069+X	9196.0	9375.9
[keV]	J_f^π:	J+30	$\langle 30^- \rangle$	$\langle 29^+ \rangle$	$\langle 30^+ \rangle$	$\langle 31^- \rangle$	J+32	J+32	$\langle 31^+ \rangle$	$\langle 32^+ \rangle$
8961.3(15)	$\langle 30^+ \rangle$			53						
8990.2(13)	$\langle 31^- \rangle$		x							
8189.5+Y	J+32	x								
9196.0(16)	$\langle 31^+ \rangle$			14	86					
9375.9(17)	$\langle 32^+ \rangle$				15				85	

(continued) **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	7440+Y	8543.2	8712.6	8961.3	8990.2	8190+Y	8069+X	9196.0	9375.9
[keV]	J_f^π:	J+30	$\langle 30^- \rangle$	$\langle 29^+ \rangle$	$\langle 30^+ \rangle$	$\langle 31^- \rangle$	J+32	J+32	$\langle 31^+ \rangle$	$\langle 32^+ \rangle$
9443.4(13)	$\langle 32^- \rangle$		x			x				
9666.0(18)	$\langle 33^+ \rangle$								x	x
8972.6+Y	J+34						x			
8862.0+X	J+34							x		
9932.8(14)	$\langle 33^- \rangle$					x				

Energy levels and branching ratios [98Ba61]. Part 15 **$^{192}_{80}$Hg**

E^*	J^π	Branching ratios in percentage						
	E_f^*:	9443.4	9666.0	8973+Y	8862+X	9932.8	9685+X	10538+X
[keV]	J_f^π:	$\langle 32^- \rangle$	$\langle 33^+ \rangle$	J+34	J+34	$\langle 33^- \rangle$	J+36	J+38
9932.8(14)	$\langle 33^- \rangle$	x						
10038.0(20)	$\langle 34^+ \rangle$		x					
10464.4(17)	$\langle 34^- \rangle$	x				x		
9791.6+Y	J+36			x				
9684.9+X	J+36				x			
10538.0+X	J+38						x	
11426.7+X	J+40							x

Energy levels and branching ratios [98Ar07]. **$^{193}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
				E_f^*:	0.0	39.5	49.9	140.8	324.4
[keV]		Γ_{cm}		$2J_f^\pi$:	3^-	5^-	$\langle 1^- \rangle$	13^+	$\langle 3^-,5^- \rangle$
0.0	$3^{\langle - \rangle}$	3.80(15) h							
39.51(3)	$5^{\langle - \rangle}$	0.63(3) ns			100				
49.95(14)	$\langle 1^- \rangle$				100				
140.76(5)[a]	$13^{\langle + \rangle}$	11.8(2) h				100			
207.74(20)	$\langle 7^- \rangle$				100				
324.36(8)	$\langle 3^-,5^- \rangle$				74	16.0(7)	10.0(10)		
344.00(10)	$\langle 1^-,3^- \rangle$				91(4)		9.3(11)		
374.61(10)	$\langle 3^-,5^-,7^- \rangle$				17(2)	59(2)			24(11)
522.7(2)[a]	$\langle 17^+ \rangle$							100	
746.8(4)	$\langle 15^+ \rangle$							100	
752.6(3)	$\langle 1^-,3^-,5^- \rangle$				66(10)	34(4)			
1026.4(6)	$\langle 13^+,15^+ \rangle$							100	
1145.4(3)[a]	$\langle 21^+ \rangle$								
1380.3(3)	$\langle 19^+ \rangle$								
1523.1(5)	$\langle 17^+,19^+ \rangle$								

(continued) **$^{193}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
			E_f^*:	0.0	39.5	49.9	140.8	324.4
[keV]		Γ_{cm}	$2J_f^\pi$:	3^-	5^-	$\langle 1^- \rangle$	13^+	$\langle 3^-,5^- \rangle$
1523.3(3)	$\langle 1^-,3^-,5^- \rangle$			33(8)	14(4)			
1580.1(2)	$\langle 1^-,3,5^- \rangle$			60(13)	12(3)			14(2)
1735.8(7)	$\langle 19^+ \rangle$							
1755.7(3)	$\langle 21^- \rangle$							
1884.3(5)[a]	$\langle 25^+ \rangle$							
1886.2(5)	$\langle 25^- \rangle$	1.58(6) ns						
1890.8(4)[b]	$\langle 23^- \rangle$							
2096.0(5)[b]	$\langle 27^- \rangle$							
2189.2(5)	$\langle 29^- \rangle$							
2289.5(7)	$\langle 27^- \rangle$							
2351.8(7)	$\langle 25^+ \rangle$							
2502.1(6)	$\langle 29^+ \rangle$							
2583.7(6)[b]	31^-							
2617.3(6)	$\langle 29^- \rangle$							
2641.7(7)[a]	$\langle 29^+ \rangle$							
2695.6(6)	33^+	0.57(3) ns						
2762.2(6)	33^-							
3176.2(7)	37^+							
3196.0(8)	$\langle 33^+ \rangle$							
3202.5(7)	$\langle 33^- \rangle$							
3220.1(8)	$\langle 33^- \rangle$							
3223.6(6)[b]	$\langle 35^- \rangle$							
3260.3(8)	$\langle 33^+ \rangle$							
3497.5(6)	$\langle 37^- \rangle$							
3570.2(8)	$\langle 37^+ \rangle$							
3727.1(7)	$\langle 37^- \rangle$							
3754.2(8)	$\langle 37^+ \rangle$							
3811								
3850.7(8)	$\langle 37^- \rangle$							
3880.5(7)	$\langle 41^+ \rangle$							
3883.8(6)	$\langle 39^- \rangle$							
4119.7(9)	$\langle 39^+ \rangle$							
4120.4(10)	$\langle 41^+ \rangle$							
4150.8(7)	$\langle 41^- \rangle$							
4198.0(8)	$\langle 39^- \rangle$							
4396.8(7)	$\langle 43^- \rangle$							
4412.6(7)	41^-							
4416.7(11)								
4462.2(12)								
4539.0(7)	$\langle 41^+ \rangle$							
4674.1(7)	$\langle 45^- \rangle$							
4683.8(12)	$\langle 43^+ \rangle$							
4688.4(9)	$\langle 45^+ \rangle$							
4720.6(8)	$\langle 39^- \rangle$							
4792.0(7)	$\langle 41^- \rangle$							

(continued)

$^{193}_{80}$Hg

E^*	$2J^\pi$	$T_{1/2}$ orRef.	Branching ratios in percentage					
			E_f^*:	0.0	39.5	49.9	140.8	324.4
[keV]		Γ_{cm}	$2J_f^\pi$:	3^-	5^-	$\langle 1^- \rangle$	13^+	$\langle 3^-,5^- \rangle$
4864.9(8)	$\langle 43^- \rangle$							
4889.9(13)	$\langle 45^+ \rangle$							
4958.5(7)	$\langle 45^- \rangle$							
4964.0(13)	$\langle 43 \rangle$							
5033.1(12)								
5048.0(9)	$\langle 47^- \rangle$							
5117.4(8)	$\langle 45^- \rangle$							
5319.9(8)	$\langle 43 \rangle$							
5339.1(8)	$\langle 47^- \rangle$							
5361.7(15)	$\langle 47^+ \rangle$							
5391.9(9)								
5400.3(15)								
5411.5(10)	$\langle 49^- \rangle$							
5442.6(7)	$\langle 45^+ \rangle$							
5547.5(7)	$\langle 47^+ \rangle$							
5559.5(11)	$\langle 49^+ \rangle$							
5560.5(9)	$\langle 47^- \rangle$							
5678.3(8)	$\langle 49^- \rangle$							
5698.0(13)	$\langle 49^+ \rangle$							
5702.7(8)	$\langle 49^- \rangle$							
5714.8(13)								
5747.5(9)	$\langle 49^- \rangle$							
5800.6(9)	$\langle 49^- \rangle$							
5832.0(7)	$\langle 49^+ \rangle$							
5899.0(11)	$\langle 51^- \rangle$							
6017.0(12)	$\langle 51^- \rangle$							
6067.6(7)	$\langle 51^+ \rangle$							
6103.8(8)	$\langle 51^- \rangle$							
6145.2(9)	$\langle 51^- \rangle$							
6163.6(14)	$\langle 51^+ \rangle$							
6305.2(9)	$\langle 53^- \rangle$							
6394.9(11)	$\langle 53^- \rangle$							
6401.0(16)	$\langle 53^- \rangle$							
6419.4(8)	$\langle 53^- \rangle$							
6428.5(13)	$\langle 53^+ \rangle$							
6464.6(8)	$\langle 53^+ \rangle$							
6496.9(13)	$\langle 53^+ \rangle$							
6726.3(15)	$\langle 55^- \rangle$							
6832.3(8)	$\langle 55^+ \rangle$							
6839.9(8)	$\langle 55^+ \rangle$							
6913.3(13)	$\langle 55^- \rangle$							
6921.7(15)								
6921.9(9)	$\langle 55^- \rangle$							
6978.6(16)	$\langle 57^- \rangle$							
7037.5(9)	$\langle 57^+ \rangle$							

(continued) **$^{193}_{80}$Hg**

E^*	$2J^\pi$	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
				E_f^*:	0.0	39.5	49.9	140.8	324.4
[keV]		Γ_{cm}		$2J_f^\pi$:	3^-	5^-	$\langle 1^- \rangle$	13^+	$\langle 3^-,5^- \rangle$
7038.0(14)									
7133.3(10)	$\langle 57^+ \rangle$								
7186.7(10)	$\langle 57^- \rangle$								
7197.9(9)	$\langle 59^+ \rangle$								
7245.7(17)	$\langle 59^- \rangle$								
7276.5(9)	$\langle 57^- \rangle$								
7281.6(10)	$\langle 57^+ \rangle$								
7440.0(12)									
7476.4(14)	$\langle 57^- \rangle$								
7492.3(15)									
7555.1(10)	$\langle 61^+ \rangle$								
7560.3(17)	$\langle 61^- \rangle$								
7681.2(10)									
7699.5(9)	$\langle 59^- \rangle$								
7838.3(9)	$\langle 61^- \rangle$								
7920.0(20)	$\langle 63^- \rangle$								
7924.8(10)	$\langle 63^+ \rangle$								
8137.0(10)	$\langle 63^- \rangle$								
8330.9(17)	$\langle 65^- \rangle$								
8388.8(10)	$\langle 65^+ \rangle$								
8394.8(10)	$\langle 65^- \rangle$								
8751.0(12)	$\langle 67^- \rangle$								
8757.8(21)	$\langle 67^- \rangle$								
8886.8(12)	$\langle 67^+ \rangle$								
8978.1(13)									
9221.5(11)	$\langle 69^- \rangle$								
9409.1(12)	$\langle 69^+ \rangle$								
9675.9(11)	$\langle 71^- \rangle$								
9923.1(16)	$\langle 71^+ \rangle$								
10290.4(14)	$\langle 73^- \rangle$								
10853.6(15)	$\langle 75^- \rangle$								
111.8+x			06Ac01						
111.9+y			06Ac01						
291.00+z			06Ac01						
240.52+u			06Ac01						

Additional data on this isotope can be found in [02Li50, 95Fo13, 93Ro03, 93Jo09, 93De42, 93Mi10, 90He09, 90Cu06, 90Cu05, 90Be37].

18 bands (A-R) are assigned to excited states of this nucleus in [06Ac01, 95Fo13], given here 12 bands are marked as a-j; levels with uncertain energy (E^* + x,y,z,u) can be found in [06Ac01].

Energy levels and branching ratios [98Ar07]. Part 2 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	374.6	522.8	746.8	752.6	0+U	0+Z	0+Y	111.1+Y	1026.5	240.5+U
[keV]		$2J_f^\pi$:		$\langle 17^+ \rangle$	$\langle 15^+ \rangle$					2J+2		2J+4
1145.4(3)[a]	$\langle 21^+ \rangle$			100								
1380.3(3)	$\langle 19^+ \rangle$			60	40							
1523.1(5)	$\langle 17^+,19^+ \rangle$			75							25	
1523.3(3)	$\langle 1^-,3^-,5^- \rangle$					53(3)						
1580.1(2)	$\langle 1^-,3,5^- \rangle$		14(2)									
1735.8(7)	$\langle 19^+ \rangle$				100							

Energy levels and branching ratios [98Ar07]. Part 3 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	233.5+Y	1145.3	291.0+Z	0+X	365.1+Y	112.1+X	1380.3	522.4+U	508.7+Y	233.2+X
[keV]		$2J_f^\pi$:	2J+4	$\langle 21^+ \rangle$	2J+4	2J	2J+6	2J+2	$\langle 19^+ \rangle$	2J+8	2J+8	2J+4
1755.7(3)	$\langle 21^- \rangle$			16(2)					51(2)			
1884.3(5)[a]	$\langle 25^+ \rangle$			100								
1890.8(4)[b]	$\langle 23^- \rangle$			83								
2351.8(7)	$\langle 25^+ \rangle$			100								

Energy levels and branching ratios [98Ar07]. Part 4 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	619.8+Z	1523.3	660+Y	366+X	507+X	824+Y	846+U	1736	1756	661+X
[keV]		$2J_f^\pi$:	2J+8		2J+10	2J+6	2J+8	2J+12	2J+12	$\langle 19^+ \rangle$	$\langle 21^- \rangle$	2J+10
1755.7(3)	$\langle 21^- \rangle$			33(1)						<1		
1886.2(5)	$\langle 25^- \rangle$										100	
1890.8(4)[b]	$\langle 23^- \rangle$										17	

Energy levels and branching ratios [98Ar07]. Part 5 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	986+Z	995+Y	1884	1886	1891	821.4+X	1179+Y	1211+U	2095.9	995.6+X
[keV]		$2J_f^\pi$:	2J+12	2J+14	$\langle 25^+ \rangle$	$\langle 25^- \rangle$	$\langle 23^- \rangle$	2J+12	2J+16	2J+16	$\langle 27^- \rangle$	2J+14
2096.0(5)[b]	$\langle 27^- \rangle$				5	7	88					
2189.2(5)	$\langle 29^- \rangle$					99(2)					1.0(3)	
2289.5(7)	$\langle 27^- \rangle$					100						
2502.1(6)	$\langle 29^+ \rangle$				97							
2583.7(6)[b]	31^-										95(2)	

(continued) **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	986+Z	995+Y	1884	1886	1891	821.4+X	1179+Y	1211+U	2095.9	995.6+X
[keV]	$2J_f^\pi$:	$2J$+12	$2J$+14	$\langle 25^+\rangle$	$\langle 25^-\rangle$	$\langle 23^-\rangle$	$2J$+12	$2J$+16	$2J$+16	$\langle 27^-\rangle$	$2J$+14
2617.3(6)	$\langle 29^-\rangle$				16.2(9)					9(2)	
2641.7(7)[a]	$\langle 29^+\rangle$			100							

Energy levels and branching ratios [98Ar07]. Part 6 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2189.1	1369+Y	1391+Z	2289.5	2351.8	1175+X	1573+Y	1618+U	2502.1	1370+X
[keV]	$2J_f^\pi$:	$\langle 29^-\rangle$	$2J$+18	$2J$+16	$\langle 27^-\rangle$	$\langle 25^+\rangle$	$2J$+16	$2J$+20	$2J$+20	$\langle 29^+\rangle$	$2J$+18
2502.1(6)	$\langle 29^+\rangle$					3					
2583.7(6)[b]	31^-	5(1)									
2617.3(6)	$\langle 29^-\rangle$	35(4)			39.5(9)						
2695.6(6)	33^+									100	
2762.2(6)	33^-	100									
3202.5(7)	$\langle 33^-\rangle$	38(12)									
3260.3(8)	$\langle 33^+\rangle$									83(5)	

Energy levels and branching ratios [98Ar07]. Part 7 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2583.6	2617.2	2641.7	1782+Y	2695.6	1836+Z	1567+X	2762.2	2005+Y	2065+U
[keV]	$2J_f^\pi$:	31^-	$\langle 29^-\rangle$	$\langle 29^+\rangle$	$2J$+22	33^+	$2J$+20	$2J$+20	33^-	$2J$+24	$2J$+24
3176.2(7)	37^+					100					
3196.0(8)	$\langle 33^+\rangle$			100		<25					
3202.5(7)	$\langle 33^-\rangle$		62(2)								
3220.1(8)	$\langle 33^-\rangle$		100								
3223.6(6)[b]	$\langle 35^-\rangle$	89(2)							11(1)		
3260.3(8)	$\langle 33^+\rangle$					17(2)					
3497.5(6)	$\langle 37^-\rangle$								100		
3727.1(7)	$\langle 37^-\rangle$								21(9)		
3754.2(8)	$\langle 37^+\rangle$					35(5)					
3811						x					
3850.7(8)	$\langle 37^-\rangle$								100		

Energy levels and branching ratios [98Ar07]. Part 8 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage										
		E_f^*:	1783+X	2233+Y	1996+X	3176.2	3196.0	2320+Z	3202.5	3220.1	3223.6	3260.2
[keV]		$2J_f^\pi$:	$2J$+22	$2J$+26	$2J$+24	37^+	$\langle 33^+\rangle$	$2J$+24	$\langle 33^-\rangle$	$\langle 33^-\rangle$	$\langle 35^-\rangle$	$\langle 33^+\rangle$
3570.2(8)	$\langle 37^+\rangle$					59						41
3727.1(7)	$\langle 37^-\rangle$								43(6)	36(2)		
3754.2(8)	$\langle 37^+\rangle$						65(19)					
3880.5(7)	$\langle 41^+\rangle$					100						
3883.8(6)	$\langle 39^-\rangle$										100	
4119.7(9)	$\langle 39^+\rangle$					82(2)						
4198.0(8)	$\langle 39^-\rangle$										55(14)	
4416.7(11)						100						
4462.2(12)						x						
4539.0(7)	$\langle 41^+\rangle$					36(3)						

Energy levels and branching ratios [98Ar07]. Part 9 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
		E_f^*:	2475+Y	2234+X	2553+U	3497.4	3570.1	2722+Y	2460+X	2846+Z	3727.0
[keV]		$2J_f^\pi$:	$2J$+28	$2J$+26	$2J$+28	$\langle 37^-\rangle$	$\langle 37^+\rangle$	$2J$+30	$2J$+28	$2J$+28	$\langle 37^-\rangle$
4119.7(9)	$\langle 39^+\rangle$						18(2)				
4120.4(10)	$\langle 41^+\rangle$						100				
4150.8(7)	$\langle 41^-\rangle$					100					
4412.6(7)	41^-					69(1)					14(3)
4720.6(8)	$\langle 39^-\rangle$										100
4792.0(7)	$\langle 41^-\rangle$					12(5)					16(5)

Energy levels and branching ratios [98Ar07]. Part 10 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
		E_f^*:	3754.2	3850.6	2981+Y	3880.5	3883.8	2723+X	3081+U	4119.7	4120.4
[keV]		$2J_f^\pi$:	$\langle 37^+\rangle$	$\langle 37^-\rangle$	$2J$+32	$\langle 41^+\rangle$	$\langle 39^-\rangle$	$2J$+30	$2J$+32	$\langle 39^+\rangle$	$\langle 41^+\rangle$
4198.0(8)	$\langle 39^-\rangle$						45(14)				
4396.8(7)	$\langle 43^-\rangle$						100				
4412.6(7)	41^-			17(3)							
4539.0(7)	$\langle 41^+\rangle$		64(5)								
4683.8(12)	$\langle 43^+\rangle$									100	
4688.4(9)	$\langle 45^+\rangle$					100					
4792.0(7)	$\langle 41^-\rangle$						34(5)				
4889.9(13)	$\langle 45^+\rangle$										100
4964.0(13)	$\langle 43\rangle$										100
5033.1(12)						100					

(continued) **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3754.2	3850.6	2981+Y	3880.5	3883.8	2723+X	3081+U	4119.7	4120.4
[keV]	$2J_f^\pi$:	$\langle 37^+ \rangle$	$\langle 37^- \rangle$	$2J$+32	$\langle 41^+ \rangle$	$\langle 39^- \rangle$	$2J$+30	$2J$+32	$\langle 39^+ \rangle$	$\langle 41^+ \rangle$
5391.9(9)					100					
5442.6(7)	$\langle 45^+ \rangle$				4(1)					

Energy levels and branching ratios [98Ar07]. Part 11 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3247+Y	2958+X	4150.8	4197.9	3413+Z	4396.7	3522+Y	4412.5	3248+X
[keV]	$2J_f^\pi$:	$2J$+34	$2J$+32	$\langle 41^- \rangle$	$\langle 39^- \rangle$	$2J$+32	$\langle 43^- \rangle$	$2J$+36	41^-	$2J$+34
4674.1(7)	$\langle 45^- \rangle$			100						
4792.0(7)	$\langle 41^- \rangle$				38(2)					
4958.5(7)	$\langle 45^- \rangle$						31(3)		69(1)	
5048.0(9)	$\langle 47^- \rangle$						100			
5319.9(8)	$\langle 43 \rangle$			100						
5442.6(7)	$\langle 45^+ \rangle$						20(1)			

Energy levels and branching ratios [98Ar07]. Part 12 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3649+U	4539.0	3486+X	4674.1	4683.8	3806+Y	4688.4	4720.6	4791.9
[keV]	$2J_f^\pi$:	$2J$+36	$\langle 41^+ \rangle$	$2J$+36	$\langle 45^- \rangle$	$\langle 43^+ \rangle$	$2J$+38	$\langle 45^+ \rangle$	$\langle 39^- \rangle$	$\langle 41^- \rangle$
4792.0(7)	$\langle 41^- \rangle$								x	
4864.9(8)	$\langle 43^- \rangle$								x	x
5117.4(8)	$\langle 45^- \rangle$									3.5(5)
5361.7(15)	$\langle 47^+ \rangle$					100				
5400.3(15)						100				
5411.5(10)	$\langle 49^- \rangle$				100					
5442.6(7)	$\langle 45^+ \rangle$		70(1)							
5547.5(7)	$\langle 47^+ \rangle$				59(1)					
5559.5(11)	$\langle 49^+ \rangle$							100		

Energy levels and branching ratios [98Ar07]. Part 13 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	4864.9	4889.8	4018+Z	4958.4	4099+Y	3807+X	5047.9	4255+U	5117.3
[keV]		$2J^\pi_f$:	$\langle 43^- \rangle$	$\langle 45^+ \rangle$	$2J$+36	$\langle 45^- \rangle$	$2J$+40	$2J$+38	$\langle 47^- \rangle$	$2J$+40	$\langle 45^- \rangle$
5117.4(8)	$\langle 45^- \rangle$		96.5(17)								
5339.1(8)	$\langle 47^- \rangle$		22.6(7)								77(2)
5547.5(7)	$\langle 47^+ \rangle$					12(1)					
5560.5(9)	$\langle 47^- \rangle$										100
5678.3(8)	$\langle 49^- \rangle$					85(8)					
5698.0(13)	$\langle 49^+ \rangle$			100							
5702.7(8)	$\langle 49^- \rangle$					54(9)					
5747.5(9)	$\langle 49^- \rangle$					100					
5899.0(11)	$\langle 51^- \rangle$								100		

Energy levels and branching ratios [98Ar07]. Part 14 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	4044+X	4401+Y	5319.9	5339.0	5361.7	5391.8	5411.5	5442.5	4658+Z
[keV]		$2J^\pi_f$:	$2J$+40	$2J$+42	$\langle 43 \rangle$	$\langle 47^- \rangle$	$\langle 47^+ \rangle$		$\langle 49^- \rangle$	$\langle 45^+ \rangle$	$2J$+40
5442.6(7)	$\langle 45^+ \rangle$				6(1)						
5547.5(7)	$\langle 47^+ \rangle$				11(1)			6(1)		11(1)	
5678.3(8)	$\langle 49^- \rangle$					15(3)					
5702.7(8)	$\langle 49^- \rangle$					46(2)					
5714.8(13)						100					
5800.6(9)	$\langle 49^- \rangle$					51(5)					
5832.0(7)	$\langle 49^+ \rangle$									5.5(4)	
6017.0(12)	$\langle 51^- \rangle$					54(8)					
6103.8(8)	$\langle 51^- \rangle$					25(1)					
6145.2(9)	$\langle 51^- \rangle$					29(3)					
6163.6(14)	$\langle 51^+ \rangle$						100				
6394.9(11)	$\langle 53^- \rangle$								100		

Energy levels and branching ratios [98Ar07]. Part 15 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	5547.5	5559.5	5560.5	4402+X	4710+Y	5678.3	5702.7	5714.8	5747.5
[keV]		$2J^\pi_f$:	$\langle 47^+ \rangle$	$\langle 49^+ \rangle$	$\langle 47^- \rangle$	$2J$+42	$2J$+44	$\langle 49^- \rangle$	$\langle 49^- \rangle$		$\langle 49^- \rangle$
5800.6(9)	$\langle 49^- \rangle$				49(5)						
5832.0(7)	$\langle 49^+ \rangle$		94.5(21)								
6017.0(12)	$\langle 51^- \rangle$									46(16)	
6067.6(7)	$\langle 51^+ \rangle$		33.6(8)								
6103.8(8)	$\langle 51^- \rangle$				7(1)			22(4)	46(1)		
6145.2(9)	$\langle 51^- \rangle$								71(8)		

(continued) **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5547.5	5559.5	5560.5	4402+X	4710+Y	5678.3	5702.7	5714.8	5747.5
[keV]	$2J_f^\pi$:	$\langle 47^+ \rangle$	$\langle 49^+ \rangle$	$\langle 47^- \rangle$	$2J$+42	$2J$+44	$\langle 49^- \rangle$	$\langle 49^- \rangle$		$\langle 49^- \rangle$
6305.2(9)	$\langle 53^- \rangle$						78.1(14)			22(7)
6419.4(8)	$\langle 53^- \rangle$							11(2)		
6428.5(13)	$\langle 53^+ \rangle$		100							
6496.9(13)	$\langle 53^+ \rangle$		100							

Energy levels and branching ratios [98Ar07]. Part 16 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	4899+U	5800.6	4634+X	5832.0	5899.0	5030+Y	6017.0	6067.6	6103.8
[keV]	$2J_f^\pi$:	$2J$+44	$\langle 49^- \rangle$	$2J$+44	$\langle 49^+ \rangle$	$\langle 51^- \rangle$	$2J$+46	$\langle 51^- \rangle$	$\langle 51^+ \rangle$	$\langle 51^- \rangle$
6067.6(7)	$\langle 51^+ \rangle$				66.4(13)					
6419.4(8)	$\langle 53^- \rangle$		42(3)							30(3)
6464.6(8)	$\langle 53^+ \rangle$				28(3)				72.5(10)	
6726.3(15)	$\langle 55^- \rangle$							50(11)		
6832.3(8)	$\langle 55^+ \rangle$								59.2(11)	
6839.9(8)	$\langle 55^+ \rangle$								59.5(11)	
6913.3(13)	$\langle 55^- \rangle$					100				
6921.7(15)						100				
6921.9(9)	$\langle 55^- \rangle$									46.8(13)
7038.0(14)						100				

Energy levels and branching ratios [98Ar07]. Part 17 **$^{193}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	6145.2	5333+Z	5031+X	5355+Y	6305.2	6394.9	6401.0	6419.4	5257+X
[keV]	$2J_f^\pi$:	$\langle 51^- \rangle$	$2J$+44	$2J$+46	$2J$+48	$\langle 53^- \rangle$	$\langle 53^- \rangle$	$\langle 53^- \rangle$	$\langle 53^- \rangle$	$2J$+48
6419.4(8)	$\langle 53^- \rangle$	18(6)				<3				
6726.3(15)	$\langle 55^- \rangle$							50(11)		
6921.9(9)	$\langle 55^- \rangle$								53.2(13)	
6978.6(16)	$\langle 57^- \rangle$							48(9)		
7186.7(10)	$\langle 57^- \rangle$					100				
7276.5(9)	$\langle 57^- \rangle$								62(4)	
7476.4(14)	$\langle 57^- \rangle$						100			
7492.3(15)							100			

Energy levels and branching ratios [98Ar07]. Part 18 **$^{193}_{80}$Hg**

E^*	$2J^\pi$				Branching ratios in percentage					
		E^*_f:	5581+U	6464.6	5692+Y	6726.3	6832.3	6839.9	5693+X	6032+Y	6040+Z
[keV]		$2J^\pi_f$:	$2J$+48	$\langle 53^+\rangle$	$2J$+50	$\langle 55^-\rangle$	$\langle 55^+\rangle$	$\langle 55^+\rangle$	$2J$+50	$2J$+52	$2J$+48
6832.3(8)	$\langle 55^+\rangle$			41(4)							
6839.9(8)	$\langle 55^+\rangle$			40(2)							
6978.6(16)	$\langle 57^-\rangle$					52(19)					
7037.5(9)	$\langle 57^+\rangle$						17	83			
7133.3(10)	$\langle 57^+\rangle$							100			
7281.6(10)	$\langle 57^+\rangle$						100				
7440.0(12)								19(5)			
7681.2(10)							100				

Energy levels and branching ratios [98Ar07]. Part 19 **$^{193}_{80}$Hg**

E^*	$2J^\pi$				Branching ratios in percentage						
		E^*_f:	6921.9	6978.6	7037.5	5913+X	7133.3	6300+U	7186.7	7197.9	7245.7
[keV]		$2J^\pi_f$:	$\langle 55^-\rangle$	$\langle 57^-\rangle$	$\langle 57^+\rangle$	$2J$+52	$\langle 57^+\rangle$	$2J$+52	$\langle 57^-\rangle$	$\langle 59^+\rangle$	$\langle 59^-\rangle$
7197.9(9)	$\langle 59^+\rangle$				100						
7245.7(17)	$\langle 59^-\rangle$			100							
7276.5(9)	$\langle 57^-\rangle$		38.1(8)								
7440.0(12)							81(5)				
7555.1(10)	$\langle 61^+\rangle$				10.6(6)					89.4(13)	
7560.3(17)	$\langle 61^-\rangle$			24(5)							76(2)
7699.5(9)	$\langle 59^-\rangle$		38.0(8)						6.2(8)		
7920.0(20)	$\langle 63^-\rangle$										43(2)
7924.8(10)	$\langle 63^+\rangle$									44.5(8)	

Energy levels and branching ratios [98Ar07]. Part 20 **$^{193}_{80}$Hg**

E^*	$2J^\pi$				Branching ratios in percentage						
		E^*_f:	6386+Y	7276.5	7555.1	7560.3	6387+X	6742+Y	6779+Z	7699.5	6601+X
[keV]		$2J^\pi_f$:	$2J$+54	$\langle 57^-\rangle$	$\langle 61^+\rangle$	$\langle 61^-\rangle$	$2J$+54	$2J$+56	$2J$+52	$\langle 59^-\rangle$	$2J$+56
7699.5(9)	$\langle 59^-\rangle$			56(2)							
7838.3(9)	$\langle 61^-\rangle$			34(2)						66(2)	
7920.0(20)	$\langle 63^-\rangle$					57(6)					
7924.8(10)	$\langle 63^+\rangle$				55(2)						
8137.0(10)	$\langle 63^-\rangle$									8.4(18)	
8330.9(17)	$\langle 65^-\rangle$					50(2)					
8388.8(10)	$\langle 65^+\rangle$				47(2)						

Energy levels and branching ratios [98Ar07]. Part 21 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	7838.3	7054+U	7919.9	7924.8	7112+Y	8137.0	7113+X	8330.9	7485+Y
[keV]		$2J^\pi_f$:	$\langle 61^- \rangle$	$2J$+56	$\langle 63^- \rangle$	$\langle 63^+ \rangle$	$2J$+58	$\langle 63^- \rangle$	$2J$+58	$\langle 65^- \rangle$	$2J$+60
8137.0(10)	$\langle 63^- \rangle$		91.6(12)								
8330.9(17)	$\langle 65^- \rangle$				50(2)						
8388.8(10)	$\langle 65^+ \rangle$					53(5)					
8394.8(10)	$\langle 65^- \rangle$		28(3)					72.5(13)			
8751.0(12)	$\langle 67^- \rangle$							34(4)			
8757.8(21)	$\langle 67^- \rangle$				65(3)					35(3)	
8886.8(12)	$\langle 67^+ \rangle$					63(2)					
8978.1(13)						100					

Energy levels and branching ratios [98Ar07]. Part 22 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	8388.8	8394.8	7549+Z	7322+X	7844+U	7868+Y	8750.9	8886.8	7869+X
[keV]		$2J^\pi_f$:	$\langle 65^+ \rangle$	$\langle 65^- \rangle$	$2J$+56	$2J$+60	$2J$+60	$2J$+62	$\langle 67^- \rangle$	$\langle 67^+ \rangle$	$2J$+62
8751.0(12)	$\langle 67^- \rangle$			66(3)							
8886.8(12)	$\langle 67^+ \rangle$		37(2)								
9221.5(11)	$\langle 69^- \rangle$			40.5(12)					59.5(12)		
9409.1(12)	$\langle 69^+ \rangle$		100							x	
9675.9(11)	$\langle 71^- \rangle$								61(3)		
9923.1(16)	$\langle 71^+ \rangle$									100	

Energy levels and branching ratios [98Ar07]. Part 23 **$^{193}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E^*_f:	8256+Y	9221.5	8350+Z	8076+X	9409.1	8668+U	8655+Y	9675.9	8656+X
[keV]		$2J^\pi_f$:	$2J$+64	$\langle 69^- \rangle$	$2J$+60	$2J$+64	$\langle 69^+ \rangle$	$2J$+64	$2J$+66	$\langle 71^- \rangle$	$2J$+66
9675.9(11)	$\langle 71^- \rangle$			39(3)							
9923.1(16)	$\langle 71^+ \rangle$						x				
10290.4(14)	$\langle 73^- \rangle$			37(7)						63(9)	
10853.6(15)	$\langle 75^- \rangle$									100	

Energy levels and branching ratios [98Ar07]. Part 24

$^{193}_{80}$Hg

E^*	$2J^\pi$				Branching ratios in percentage			
	E_f^*:	9058+Y	8860+X	9182+Z	10290.4	9473+Y	9474+X	9890+Y
[keV]	$2J_f^\pi$:	$2J$+68	$2J$+68	$2J$+64	$\langle 73^- \rangle$	$2J$+70	$2J$+70	$2J$+72
10853.6(15)	$\langle 75^- \rangle$				x			

Energy levels and branching ratios [96Br26, 06Si17].

$^{194}_{80}$Hg

E^*	J^π	L	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
					E_f^*:	0.0	428	0+X	1064	1073
[keV]		(p,t)	(p,t)	Γ_{cm}	J_f^π:	0^+	2^+	$J \approx \langle 8 \rangle$	4^+	$\langle 2 \rangle^+$
0.0	0^+	0	5.40	444(77) yr	90Ve13					
427.89(9)	2^+					100				
1064.2(1)	4^+						100			
1073.0(1)	$\langle 2 \rangle^+$					25(9)	75(19)			
1468.4(1)	$\langle 3 \rangle^+$						53(16)		26(5)	21(4)
1500	0^+	0	0.25		90Ve13					
1798.7(3)	6^+								100	
1813.0(2)	5^-			$\leq$0.15 ns					100	
1909.9(2)	7^-			3.75(11) ns						
1957.8(5)	$\langle 0^+$–$4^+ \rangle$				06Si17					
1979.5(5)	$\langle 0^+$–$4^+ \rangle$				06Si17					
2051.7(3)	$\langle 0^+$–$4^+ \rangle$				06Si17					
2137.8(3)	8^-			0.91(3) ns						
2142.9(3)	9^-			0.29(5) ns						
2165.3(2)	6^-									
2179.4(4)	5^-,6^-									
2259.5(8)	4^-–6^-									
2264.2(2)	5^-,6^-									
2363.8(3)	$\langle 8^+ \rangle$									
2374.2(3)	6^-–8^-									
2423.2(3)	$\langle 10^+ \rangle$			2.9(5) ns						
2463.4(2)	6^-									
2475.1(4)	$\langle 12^+ \rangle$			8.1(5) ns						
2561.5(3)	$\langle 10^- \rangle$									
2687.4(3)	$\langle 11^- \rangle$									
2888.0(4)	$\langle 14^+ \rangle$									
3063.5(6)										
3172.6(4)	$\langle 12^- \rangle$									
3393.5(4)	$\langle 13^- \rangle$									
3531.1(4)	$\langle 16^+ \rangle$									
3747.3(4)	$\langle 14^- \rangle$									
3819.9(5)	$\langle 15^- \rangle$									
3878.8(5)	$\langle 15^- \rangle$									
3983.6(5)	$\langle 16^- \rangle$			<0.50 ns						
4004.5(6)	$\langle 15^- \rangle$									

(continued)

$^{194}_{80}$Hg

E^*	J^π	L	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
						E_f^*:	0.0	428	0+X	1064	1073
[keV]		(p,t)	(p,t)	Γ_{cm}		J_f^π:	0^+	2^+	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
4014.7(4)	$\langle 14^+\rangle$										
4114.3(4)	$\langle 17^-\rangle$										
4274.8(5)	$\langle 18^+\rangle$										
4289.5(5)	$\langle 18^-\rangle$										
4317.2(5)	$\langle 16^+\rangle$										
4491.2(5)	$\langle 17^-\rangle$										
4497.4(5)	$\langle 19^-\rangle$										
4520.7(5)	$\langle 17^-\rangle$										
4797.3(5)	$\langle 18^+\rangle$										
4896.3(6)	$\langle 20^-\rangle$										
4985.2(5)	$\langle 20^+\rangle$										
5103.2(5)	$\langle 19^-\rangle$										
5163.2(5)	$\langle 21^-\rangle$										
5265.6(6)	$\langle 20^+\rangle$										
5391.4(5)											
5493.0(5)											
5522.8(6)	$\langle 20^+\rangle$										
5577.8(5)	$\langle 22^+\rangle$										
5609.8(5)	$\langle 21^-\rangle$										
5699.9(7)	$\langle 22^-\rangle$										
6012.0(6)											
6032.3(5)	$\langle 22^+\rangle$										
6049.2(5)	$\langle 23^-\rangle$										
6119.8(5)	$\langle 23^-\rangle$										
6256.0(6)											
6349.4(7)	$\langle 22^+\rangle$										
6410.3(5)	$\langle 24^+\rangle$										
6417.1(11)	$\langle 8^+\rangle$										
6454.7(7)											
6628.7(4)	$\langle 10^+\rangle$										
6645.1(8)	$\langle 24^-\rangle$										
6675.1(6)	$\langle 22^+\rangle$										
6776.6(8)											
6790.0(5)	$\langle 20^+\rangle$										
6815.1(5)	$\langle 25^-\rangle$										
6833.5(6)	$\langle 24^+\rangle$										
6882.7(4)	$\langle 12^+\rangle$			2.4(4) ps							
6941.0(7)	$\langle 25^-\rangle$										
6988.6(6)	$\langle 26^+\rangle$										
7178.1(4)	$\langle 14^+\rangle$			2.1(4) ps							
7231.0(11)	$\langle 9^-\rangle$										
7262.5(6)											
7303.3(7)	$\langle 28^+\rangle$										
7453.0(4)	$\langle 11^-\rangle$										
7515.8(4)	$\langle 16^+\rangle$			1.36(17) ps							

(continued)

$^{194}_{80}$Hg

E^*	J^π	L	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
						E_f^*: 0.0	428	0+X	1064	1073
[keV]		(p,t)	(p,t)	Γ_{cm}		J_f^π: 0^+	2^+	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
7554.9(6)	$\langle 27^-\rangle$									
7581.5(5)	$\langle 26\rangle$									
7587.5(6)	$\langle 27^-\rangle$									
7715.2(4)	$\langle 13^-\rangle$			2.1(7) ps						
7767.6(8)	$\langle 27\rangle$									
7783.6(8)	$\langle 30^+\rangle$									
7893.2(4)	$\langle 18^+\rangle$									
7941.2(6)	$\langle 27\rangle$									
8017.9(4)	$\langle 15^-\rangle$			2.1(6) ps						
8286.7(6)	$\langle 28\rangle$									
8309.8(4)	$\langle 20^+\rangle$									
8360.4(4)	$\langle 17^-\rangle$			1.4(5) ps						
8561.0(6)	$\langle 29\rangle$									
8664.2(6)	$\langle 29\rangle$									
8742.1(4)	$\langle 19^-\rangle$									
8764.6(4)	$\langle 22^+\rangle$			0.27(6) ps						
9067.7(6)	$\langle 30\rangle$									
9162.2(4)	$\langle 21^-\rangle$									
9256.5(4)	$\langle 24^+\rangle$			0.166(22) ps						
9499.9(7)	$\langle 31\rangle$									
9564.2(7)	$\langle 31\rangle$									
9590.7(9)	$\langle 31\rangle$									
9619.9(4)	$\langle 23^-\rangle$									
9784.3(4)	$\langle 26^+\rangle$			0.120(25) ps						
9881.2(8)	$\langle 32\rangle$									
9932.5(8)	$\langle 32\rangle$									
10114.7(5)	$\langle 25^-\rangle$									
10224.8(9)	$\langle 33\rangle$									
10347.3(4)	$\langle 28^+\rangle$			0.114(39) ps						
10602.7(9)	$\langle 34\rangle$									
10645.7(5)	$\langle 27^-\rangle$									
10944.1(4)	$\langle 30^+\rangle$			0.078(17) ps						
11011.6(10)	$\langle 35\rangle$									
11212.0(5)	$\langle 29^-\rangle$									
11574.0(4)	$\langle 32^+\rangle$			0.060(21) ps						
11812.9(5)	$\langle 31^-\rangle$									
12236.1(4)	$\langle 34^+\rangle$			0.042(13) ps						
12447.5(5)	$\langle 33^-\rangle$									
12929.5(4)	$\langle 36^+\rangle$			0.026(11) ps						
13115.3(5)	$\langle 35^-\rangle$									
13653.5(5)	$\langle 38^+\rangle$									
13815.4(5)	$\langle 37^-\rangle$									
14407.4(4)	$\langle 40^+\rangle$									
14547.1(5)	$\langle 39^-\rangle$									
15191.1(4)	$\langle 42^+\rangle$									

(continued) **$^{194}_{80}$Hg**

E^*	J^π	L	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
						E_f^*: 0.0	428	0+X	1064	1073
[keV]		(p,t)	(p,t)	Γ_{cm}		J_f^π: 0^+	2^+	$J\approx\langle 8\rangle$	4^+	$\langle 2\rangle^+$
15309.9(6)	$\langle 41^-\rangle$									
16004.2(5)	$\langle 44^+\rangle$									
16103.4(6)	$\langle 43^-\rangle$									
16846.8(5)	$\langle 46^+\rangle$									
16927.0(6)	$\langle 45^-\rangle$									
17719.2(5)	$\langle 48^+\rangle$									
17780.9(6)	$\langle 47^-\rangle$									
18622.3(5)	$\langle 50^+\rangle$									
18664.5(6)	$\langle 49^-\rangle$									
0+X	$J\approx\langle 8\rangle$									
200.79+X	J+2							100		
443.04+X	J+4			3.0(8) ps						
726.20+X	J+6			2.7(6) ps						
1049.65+X	J+8			1.3(5) ps						
1412.78+X	J+10									
1814.83+X	J+12									
2255.14+X	J+14			0.27(9) ps						
2732.83+X	J+16			0.20(5) ps						
3247.06+X	J+18			0.13(5) ps						
3797.00+X	J+20			0.100 ps						
4381.82+X	J+22			0.089 ps						
5000.78+X	J+24			0.065 ps						
5652.82+X	J+26									
6337.40+X	J+28									
7053.60+X	J+30									
7800.5+X	J+32									
8578.3+X	J+34									
9386.0+X	J+36									
10223.5+X	J+38									
11090.6+X	J+40									

Additional data on this isotope can be found in [02Li50, 00Bu16, 97Mo22, 96Kr13, 94Ce04, 90Ve13, 90Ri05, 90He09, 90Cu06, 90Be37, 90Be11].
15 bands of levels were suggested in [06Si17].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [96Br26, 06Si17]. Part 2 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	200.8+X	443.0+X	726.2+X	1798.7	1812.8	1909.7	1050+X	2137.5	2142.6	2165.1
[keV]	J_f^π:	J+2	J+4	J+6	6^+	5^-	7^-	J+8	8^-	9^-	6^-
1909.9(2)	7^-				44(4)	56(6)					
2137.8(3)	8^-						100				

(continued) **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	200.8+X	443.0+X	726.2+X	1798.7	1812.8	1909.7	1050+X	2137.5	2142.6	2165.1
[keV]	J_f^π:	J+2	J+4	J+6	6^+	5^-	7^-	J+8	8^-	9^-	6^-
2142.9(3)	9^-						100				
2165.3(2)	6^-					15(3)	85(14)				
2179.4(4)	5^-,6^-				44(7)	56(10)					
2259.5(8)	4^-–6^-					100					
2264.2(2)	5^-,6^-					89(21)					11(4)
2363.8(3)	$\langle 8^+ \rangle$				100						
2374.2(3)	6^-–8^-						28(9)				72(18)
2423.2(3)	$\langle 10^+ \rangle$									99(5)	
2463.4(2)	6^-				7(2)	41(9)	28(7)				12(1)
2561.5(3)	$\langle 10^- \rangle$								78(5)	22(5)	
2687.4(3)	$\langle 11^- \rangle$									100	
3063.5(6)										x	
6628.7(4)	$\langle 10^+ \rangle$									22.449	
443.04+X	J+4	100									
726.20+X	J+6		100								
1049.65+X	J+8			100							
1412.78+X	J+10							100			

Energy levels and branching ratios [96Br26, 06Si17]. Part 3 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2179.2	1413+X	2363.6	2422.9	2474.7	2561.2	2687.0	1815+X	2887.6	3063.0
[keV]	J_f^π:	5^-,6^-	J+10	$\langle 8^+ \rangle$	$\langle 10^+ \rangle$	$\langle 12^+ \rangle$	$\langle 10^- \rangle$	$\langle 11^- \rangle$	J+12	$\langle 14^+ \rangle$	
2423.2(3)	$\langle 10^+ \rangle$			1.5(2)							
2463.4(2)	6^-	11(2)									
2475.1(4)	$\langle 12^+ \rangle$				100						
2888.0(4)	$\langle 14^+ \rangle$					100					
3172.6(4)	$\langle 12^- \rangle$						x	x			
3393.5(4)	$\langle 13^- \rangle$							100			
3531.1(4)	$\langle 16^+ \rangle$									100	
3819.9(5)	$\langle 15^- \rangle$									100	
4004.5(6)	$\langle 15^- \rangle$									100	
4014.7(4)	$\langle 14^+ \rangle$									40(20)	
6628.7(4)	$\langle 10^+ \rangle$							4.082			12.245
6882.7(4)	$\langle 12^+ \rangle$							1.336			
7453.0(4)	$\langle 11^- \rangle$				[33]	[67]					
1814.83+X	J+12		100								
2255.14+X	J+14								100		

Energy levels and branching ratios [96Br26, 06Si17]. Part 4 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2255+X	3172.4	3393.1	3530.7	2733+X	3747.0	3819.5	3878.4	3983.2	4004.2
[keV]	J_f^π:	J+14	$\langle 12^- \rangle$	$\langle 13^- \rangle$	$\langle 16^+ \rangle$	J+16	$\langle 14^- \rangle$	$\langle 15^- \rangle$	$\langle 15^- \rangle$	$\langle 16^- \rangle$	$\langle 15^- \rangle$
3747.3(4)	$\langle 14^- \rangle$		97(9)	2.5(13)							
3878.8(5)	$\langle 15^- \rangle$			100							
3983.6(5)	$\langle 16^- \rangle$						100				
4014.7(4)	$\langle 14^+ \rangle$			x			60(30)				
4114.3(4)	$\langle 17^- \rangle$				x				x	x	
4274.8(5)	$\langle 18^+ \rangle$				100						
4289.5(5)	$\langle 18^- \rangle$									100	
4317.2(5)	$\langle 16^+ \rangle$									x	
4491.2(5)	$\langle 17^- \rangle$							100			
4520.7(5)	$\langle 17^- \rangle$				71(29)			29(11)			x
6882.7(4)	$\langle 12^+ \rangle$		0.167	1.67							
2732.83+X	J+16	100									
3247.06+X	J+18					100					

Energy levels and branching ratios [96Br26, 06Si17]. Part 5 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	4014.3	4113.9	3247+X	4274.4	4289.2	4316.9	4490.8	4497.0	4520.4	3797+X
[keV]	J_f^π:	$\langle 14^+ \rangle$	$\langle 17^- \rangle$	J+18	$\langle 18^+ \rangle$	$\langle 18^- \rangle$	$\langle 16^+ \rangle$	$\langle 17^- \rangle$	$\langle 19^- \rangle$	$\langle 17^- \rangle$	J+20
4317.2(5)	$\langle 16^+ \rangle$	x									
4497.4(5)	$\langle 19^- \rangle$					[100]					
4797.3(5)	$\langle 18^+ \rangle$					x	x				
4896.3(6)	$\langle 20^- \rangle$					100					
4985.2(5)	$\langle 20^+ \rangle$				100						
5103.2(5)	$\langle 19^- \rangle$				17(2)			x		83(3)	
5163.2(5)	$\langle 21^- \rangle$								100		
5265.6(6)	$\langle 20^+ \rangle$				100						
5391.4(5)					100						
5493.0(5)									100		
3797.00+X	J+20			100							
4381.82+X	J+22										100

Energy levels and branching ratios [96Br26, 06Si17]. Part 6 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	4796.9	4895.9	4984.7	5102.8	5162.9	5265.2	4382+X	5391.0	5492.9	5522.4
[keV]	J_f^π:	$\langle 18^+ \rangle$	$\langle 20^- \rangle$	$\langle 20^+ \rangle$	$\langle 19^- \rangle$	$\langle 21^- \rangle$	$\langle 20^+ \rangle$	J+22			$\langle 20^+ \rangle$
5522.8(6)	$\langle 20^+ \rangle$	100									
5577.8(5)	$\langle 22^+ \rangle$			100							

(continued) **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	4796.9	4895.9	4984.7	5102.8	5162.9	5265.2	4382+X	5391.0	5492.9	5522.4
[keV]	J_f^π:	$\langle 18^+\rangle$	$\langle 20^-\rangle$	$\langle 20^+\rangle$	$\langle 19^-\rangle$	$\langle 21^-\rangle$	$\langle 20^+\rangle$	J+22			$\langle 20^+\rangle$
5609.8(5)	$\langle 21^-\rangle$			16(1)	84(3)						
5699.9(7)	$\langle 22^-\rangle$		100								
6012.0(6)				100							
6032.3(5)	$\langle 22^+\rangle$			12.2(5)		38(2)	<3		17.9(5)	12.2(5)	
6049.2(5)	$\langle 23^-\rangle$					100					
6349.4(7)	$\langle 22^+\rangle$										100
6675.1(6)	$\langle 22^+\rangle$										100
5000.78+X	J+24							100			

Energy levels and branching ratios [96Br26, 06Si17]. Part 7 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	5577.4	5609.4	5699.6	5001+X	6012.5	6031.9	6048.9	6119.4	6409.9	6416.4
[keV]	J_f^π:	$\langle 22^+\rangle$	$\langle 21^-\rangle$	$\langle 22^-\rangle$	J+24		$\langle 22^+\rangle$	$\langle 23^-\rangle$	$\langle 23^-\rangle$	$\langle 24^+\rangle$	$\langle 8^+\rangle$
6032.3(5)	$\langle 22^+\rangle$	19.9(5)									
6119.8(5)	$\langle 23^-\rangle$	22(2)	78(3)								
6256.0(6)		100									
6410.3(5)	$\langle 24^+\rangle$	100									
6454.7(7)						100					
6628.7(4)	$\langle 10^+\rangle$										61.22
6645.1(8)	$\langle 24^-\rangle$			100							
6776.6(8)						100					
6790.0(5)	$\langle 20^+\rangle$						88(4)				
6815.1(5)	$\langle 25^-\rangle$								100		
6833.5(6)	$\langle 24^+\rangle$								64(25)		
6941.0(7)	$\langle 25^-\rangle$							100			
6988.6(6)	$\langle 26^+\rangle$									58(24)	
5652.82+X	J+26				100						

Energy levels and branching ratios [96Br26, 06Si17]. Part 8 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	6454.3	5653+X	6628.1	6674.8	6776.2	6789.7	6814.7	6833.1	6882.1	6940.7
[keV]	J_f^π:		J+26	$\langle 10^+\rangle$	$\langle 22^+\rangle$		$\langle 20^+\rangle$	$\langle 25^-\rangle$	$\langle 24^+\rangle$	$\langle 12^+\rangle$	$\langle 25^-\rangle$
6790.0(5)	$\langle 20^+\rangle$	12(1)									
6833.5(6)	$\langle 24^+\rangle$				36(18)						
6882.7(4)	$\langle 12^+\rangle$			96.83(501)							
6988.6(6)	$\langle 26^+\rangle$								42(18)		
7178.1(4)	$\langle 14^+\rangle$									100	

(continued) **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage										
	E_f^*:	6454.3	5653+X	6628.1	6674.8	6776.2	6789.7	6814.7	6833.1	6882.1	6940.7	
[keV]	J_f^π:		J+26	$\langle 10^+ \rangle$	$\langle 22^+ \rangle$		$\langle 20^+ \rangle$	$\langle 25^- \rangle$	$\langle 24^+ \rangle$	$\langle 12^+ \rangle$	$\langle 25^- \rangle$	
7262.5(6)		21(3)					79(3)					
7453.0(4)	$\langle 11^- \rangle$			x								
7554.9(6)	$\langle 27^- \rangle$							100				
7581.5(5)	$\langle 26 \rangle$					9(1)	68(3)					
7587.5(6)	$\langle 27^- \rangle$							100				
7715.2(4)	$\langle 13^- \rangle$									3.061		
7767.6(8)	$\langle 27 \rangle$										100	
6337.40+X	J+28		100									

Energy levels and branching ratios [96Br26, 06Si17]. Part 9 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	6988.3	7178.1	6337+X	7230.5	7262.1	7303.0	7452.5	7515.2	7554.6	7581.1
[keV]	J_f^π:	$\langle 26^+ \rangle$	$\langle 14^+ \rangle$	J+28	$\langle 9^- \rangle$		$\langle 28^+ \rangle$	$\langle 11^- \rangle$	$\langle 16^+ \rangle$	$\langle 27^- \rangle$	$\langle 26 \rangle$
7303.3(7)	$\langle 28^+ \rangle$	100									
7515.8(4)	$\langle 16^+ \rangle$		100								
7581.5(5)	$\langle 26 \rangle$					23(1)					
7715.2(4)	$\langle 13^- \rangle$							96.94(638)			
7783.6(8)	$\langle 30^+ \rangle$						100				
7893.2(4)	$\langle 18^+ \rangle$								100		
7941.2(6)	$\langle 27 \rangle$					32(1)					68(2)
8017.9(4)	$\langle 15^- \rangle$		1.10								
8360.4(4)	$\langle 17^- \rangle$								x		
8561.0(6)	$\langle 29 \rangle$									65(6)	
7053.60+X	J+30			100							

Energy levels and branching ratios [96Br26, 06Si17]. Part 10 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	7587.1	7714.8	7892.6	7053+X	7940.8	8017.4	8286.2	8309.2	8359.9	8560.6
[keV]	J_f^π:	$\langle 27^- \rangle$	$\langle 13^- \rangle$	$\langle 18^+ \rangle$	J+30	$\langle 27 \rangle$	$\langle 15^- \rangle$	$\langle 28 \rangle$	$\langle 20^+ \rangle$	$\langle 17^- \rangle$	$\langle 29 \rangle$
8017.9(4)	$\langle 15^- \rangle$		98.90(549)								
8286.7(6)	$\langle 28 \rangle$					100					
8309.8(4)	$\langle 20^+ \rangle$			100							
8360.4(4)	$\langle 17^- \rangle$						100				
8561.0(6)	$\langle 29 \rangle$	35(3)									
8664.2(6)	$\langle 29 \rangle$					30(1)		70(2)			
8742.1(4)	$\langle 19^- \rangle$			x						100	
8764.6(4)	$\langle 22^+ \rangle$								100		

(continued) **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	7587.1	7714.8	7892.6	7053+X	7940.8	8017.4	8286.2	8309.2	8359.9	8560.6
[keV]	J_f^π:	$\langle 27^- \rangle$	$\langle 13^- \rangle$	$\langle 18^+ \rangle$	J+30	$\langle 27 \rangle$	$\langle 15^- \rangle$	$\langle 28 \rangle$	$\langle 20^+ \rangle$	$\langle 17^- \rangle$	$\langle 29 \rangle$
9067.7(6)	$\langle 30 \rangle$							38(1)			
9564.2(7)	$\langle 31 \rangle$										100
9590.7(9)	$\langle 31 \rangle$										100
7800.5+X	J+32				100						

Energy levels and branching ratios [96Br26, 06Si17]. Part 11 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	8663.8	7800+X	8741.6	8764.0	9067.3	9161.7	9255.8	8578+X	9499.5	9563.8
[keV]	J_f^π:	$\langle 29 \rangle$	J+32	$\langle 19^- \rangle$	$\langle 22^+ \rangle$	$\langle 30 \rangle$	$\langle 21^- \rangle$	$\langle 24^+ \rangle$	J+34	$\langle 31 \rangle$	$\langle 31 \rangle$
9067.7(6)	$\langle 30 \rangle$	62(4)									
9162.2(4)	$\langle 21^- \rangle$			100							
9256.5(4)	$\langle 24^+ \rangle$				100						
9499.9(7)	$\langle 31 \rangle$	x				x					
9619.9(4)	$\langle 23^- \rangle$						100				
9784.3(4)	$\langle 26^+ \rangle$							100			
9881.2(8)	$\langle 32 \rangle$										67(2)
9932.5(8)	$\langle 32 \rangle$					x				x	
8578.3+X	J+34		100								
9386.0+X	J+36								100		

Energy levels and branching ratios [96Br26, 06Si17]. Part 12 **$^{194}_{80}$Hg**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	9590.4	9619.5	9783.7	9880.8	10114.2	10224.4	9386+X	10346.7	10602.3	10645.2
[keV]	J_f^π:	$\langle 31 \rangle$	$\langle 23^- \rangle$	$\langle 26^+ \rangle$	$\langle 32 \rangle$	$\langle 25^- \rangle$	$\langle 33 \rangle$	J+36	$\langle 28^+ \rangle$	$\langle 34 \rangle$	$\langle 27^- \rangle$
9881.2(8)	$\langle 32 \rangle$	33(2)									
10114.7(5)	$\langle 25^- \rangle$		100								
10224.8(9)	$\langle 33 \rangle$				100						
10347.3(4)	$\langle 28^+ \rangle$			100							
10602.7(9)	$\langle 34 \rangle$				35(3)		65(3)				
10645.7(5)	$\langle 27^- \rangle$					100					
10944.1(4)	$\langle 30^+ \rangle$								100		
11011.6(10)	$\langle 35 \rangle$						65(3)			35(3)	
11212.0(5)	$\langle 29^- \rangle$										100
10223.5+X	J+38							100			

Energy levels and branching ratios [96Br26, 06Si17]. Part 13

$^{194}_{80}$Hg

E^*	J^π	Branching ratios in percentage									
	E_f^*:	10943.5	10223+X	11211.5	11573.4	11812.4	12235.5	12447.0	12928.8	13114.9	13652.8
[keV]	J_f^π:	$\langle 30^+\rangle$	J+38	$\langle 29^-\rangle$	$\langle 32^+\rangle$	$\langle 31^-\rangle$	$\langle 34^+\rangle$	$\langle 33^-\rangle$	$\langle 36^+\rangle$	$\langle 35^-\rangle$	$\langle 38^+\rangle$
11574.0(4)	$\langle 32^+\rangle$	100									
11812.9(5)	$\langle 31^-\rangle$			100							
12236.1(4)	$\langle 34^+\rangle$				100						
12447.5(5)	$\langle 33^-\rangle$					100					
12929.5(4)	$\langle 36^+\rangle$						100				
13115.3(5)	$\langle 35^-\rangle$							100			
13653.5(5)	$\langle 38^+\rangle$								100		
13815.4(5)	$\langle 37^-\rangle$									100	
14407.4(4)	$\langle 40^+\rangle$										100
11090.6+X	J+40		100								

Energy levels and branching ratios [96Br26, 06Si17]. Part 14

$^{194}_{80}$Hg

E^*	J^π	Branching ratios in percentage									
	E_f^*:	13815.0	14406.7	14546.7	15190.4	15309.5	16003.5	16103.0	16846.0	16926.6	17718.5	17780.4
[keV]	J_f^π:	$\langle 37^-\rangle$	$\langle 40^+\rangle$	$\langle 39^-\rangle$	$\langle 42^+\rangle$	$\langle 41^-\rangle$	$\langle 44^+\rangle$	$\langle 43^-\rangle$	$\langle 46^+\rangle$	$\langle 45^-\rangle$	$\langle 48^+\rangle$	$\langle 47^-\rangle$
14547.1(5)	$\langle 39^-\rangle$	100										
15191.1(4)	$\langle 42^+\rangle$		100									
15309.9(6)	$\langle 41^-\rangle$			100								
16004.2(5)	$\langle 44^+\rangle$				100							
16103.4(6)	$\langle 43^-\rangle$					100						
16846.8(5)	$\langle 46^+\rangle$						100					
16927.0(6)	$\langle 45^-\rangle$							100				
17719.2(5)	$\langle 48^+\rangle$								100			
17780.9(6)	$\langle 47^-\rangle$									100		
18622.3(5)	$\langle 50^+\rangle$										100	
18664.5(6)	$\langle 49^-\rangle$											100

Energy levels and branching ratios [99Zh11].

$^{195}_{80}$Hg

E^*	$2J^\pi$	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
				E_f^*:	0.0	37.0	53.3	176.1	279.2
[keV]		(p,d)	Γ_{cm}	$2J_f^\pi$:	1^-	3^-	5^-	13^+	3^-
0.0	1^-	0.74	10.53(3) h	85Ve05					
37.083(19)	3^-	1.41	<50 ps	85Ve05	100				
53.289(20)	5^-	2.5	0.72(3) ns	85Ve05	4.9(4)	95(10)			
176.07(4)	13^+		41.6(8) h				100		
279.203(24)	3^-	≤0.05		85Ve05	40(3)	46(4)	14(1)		
300.55(3)	3^-,5^-	≤0.09		85Ve05	53(4)	19(1)	28(2)		x

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	S_N	$T_{1/2}$ orRef.		Branching ratios in percentage				
				E_f^*:	0.0	37.0	53.3	176.1	279.2
[keV]		(p,d)	Γ_{cm}	$2J_f^\pi$:	1^-	3^-	5^-	13^+	3^-
373.17(11)	$\langle 9^+\rangle$							100	
410.31(4)	3^-–7^-					47(3)	36(36)		12(3)
422.51(10)	$\langle 1^-$–$7^-\rangle$					x	$\langle 100\rangle$		x
547.06(11)	17^+							100	
0+X	$2J\approx\langle 25^+\rangle$								
595.48(4)	$\langle 3\rangle^-$				2.4(8)	65(4)	27(2)		2(1)
600.67(4)	3^-				5.5(8)	88(4)	5.7(4)		0.5(2)
764.57(5)	1^-				17(2)	27(4)	33(2)		18(2)
814.71(4)	1^-,3^-				60(3)	35(5)	5.3(10)		x
844.8(4)	$\langle 5^+\rangle$								
848.38(24)	$\langle 15^+\rangle$							x	
0+U	$2J\approx\langle 31^-\rangle$								
294.0+X	$2J$+4								
0+Z	$2J\approx\langle 21^-\rangle$								
874.66(19)	$\langle 7^+\rangle$								
0+Y	$2J\approx\langle 23^+\rangle$								
0+V	$2J$								
893.16(5)	3^-				25(2)	8.3(7)	x		20(2)
921.56(4)	1^-,3^-				17(1)	74(4)	0.3(2)		1.1(2)
1004.56(4)	1^-,3^-				3.9(6)	55(3)	4.6(14)		16(2)
171.8+V	$2J$+2								
1067.43(7)	$\langle 3^-$,$5^-\rangle$				57(6)		6(4)		13(3)
244.0+Z	$2J$+4								
1140.33(9)	1^-–5^-				58(9)	15(7)	6(2)		16(2)
1158.41(14)	21^+								
273.9+Y	$2J$+4								
627.9+X	$2J$+8								
341.9+U	$2J$+4								
1259.51(13)	1^-–5^-				24(7)	21(7)			44(6)
1301.1(4)	$\langle 3^+\rangle$								
443.2+V	$2J$+4								
1400.77(5)	1^-				0.5(1)	58(3)	8.1(5)		15(2)
528.5+Z	$2J$+8								
1460.91(19)	$\langle 19\rangle^+$								
588.1+Y	$2J$+8								
1486.50(18)	$\langle 19^+\rangle$								
1548.67(6)	1^-,3^-				2.1(7)	24(1)			40(2)
1000.7+X	$2J$+12								
722.8+U	$2J$+8								
748.8+V	$2J$+6								
1664.24(7)	1,3,5^-				40(4)	40(4)			
1714.65(14)	1,3,5^-				28(7)	7(2)			45(4)
853.5+Z	$2J$+12								
1742.59(9)	1,3				11(1)	55(4)	6(2)		
1744.37(16)	21^-								

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
				E_f^*:	0.0	37.0	53.3	176.1	279.2
[keV]		(p,d)	Γ_{cm}	$2J_f^\pi$:	1^-	3^-	5^-	13^+	3^-
941.6+Y	2J+12								
1831.39(14)	1,3					38(3)	23(6)		23(3)
1865.95(23)	23^-								
1868.85(22)	25^+								
1870.1(4)	25^-		1.48(6) ns						
1879.26(19)	1,3				9(4)	91(6)			
1893.13(25)	1,3				21(8)	41(12)			38(10)
1975.37(15)	1,3								22(9)
1411.9+X	2J+16								
1141.9+U	2J+12								
2014.69(6)	1,3				20.0(9)	39(1)	2.4(5)		2.4(5)
2057.37(11)	1,3				15(2)	5(1)	8(2)		37(5)
2080.93(24)	27^-								
1218.9+Z	2J+16								
2171.6(4)	29^-								
1333.8+Y	2J+16								
2230.14(13)	1,3					15(6)			51(6)
2255.59(23)	1,3				39(5)	16(4)	13(7)		
2285.07(6)	1,3				<59				12(4)
2305.01(11)	1,3					14(2)	8(2)		26(2)
2311.5(3)	1,3					53(10)			47(6)
2338.4(4)	1,3				[37(8)]	[63(8)]			
2339.2(6)	1,3								⟨100⟩
2363.1(3)	1,3				52(9)				14(4)
2403.1(4)	1,3					79(8)			4(3)
2413.01(24)	29^+								
2420.27(14)	1,3				<12.0	35(3)			39(4)
2428.79(16)	1,3				3(3)	42(4)			31(4)
1860.3+X	2J+20								
2456.8(4)	1,3				35(6)	<46.9			65(8)
1599.1+U	2J+16								
1624.2+Z	2J+20								
2508.24(19)	1,3				22(8)	37(4)			22(5)
2513.23(10)	1^+,3^+				27(2)	10(1)	2(1)		14(1)
2627.8(3)	31^-								
1763.7+Y	2J+20								
2691.3(3)	33^+		≤0.25 ns						
2759.0(4)	⟨29^+⟩								
2773.8(4)	33^-								
2345.0+X	2J+24								
2069.2+Z	2J+24								
2093.6+U	2J+20								
2230.6+Y	2J+24								
3159.2(3)	37^+								
3214.9(3)	33^+								

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	S_N	$T_{1/2}$ orRef.	Branching ratios in percentage					
				E_f^*:	0.0	37.0	53.3	176.1	279.2
[keV]		(p,d)	Γ_{cm}	$2J_f^\pi$:	1^-	3^-	5^-	13^+	3^-
3264.9(4)	33^+								
3366.8(4)	35^-								
3403.3(4)	35								
2553.7+Z	$2J$+28								
2864.8+X	$2J$+28								
2625.0+U	$2J$+24								
3505.0(5)									
3556.0(4)	37^-								
3562.6(3)	37^+								
2733.4+Y	$2J$+28								
3699.7(4)	37^+								
3866.7(4)	39								
3868.8(5)	41^+								
3077.3+Z	$2J$+32								
3418.8+X	$2J$+32								
3192.6+U	$2J$+28								
4080.2(4)	41^+								
3271.0+Y	$2J$+32								
4183.0(5)	41^-								
4197.1(5)	39^-								
4397.4(4)	41^+								
3639.4+Z	$2J$+36								
4519.8(4)	43								
4580.8(7)									
4006.3+X	$2J$+36								
3795.4+U	$2J$+32								
4709.6(5)	45^-								
3842.3+Y	$2J$+36								
4741.7(5)	45^+								
4802.5(6)	43^-								
4808.9(5)									
4901.5(5)	45^+								
4982.2(4)	43^+								
4239.4+Z	$2J$+40								
5136.5(6)									
5175.8(5)	43^+								
4626.6+X	$2J$+40								
5242.2(6)									
5253.5(4)									
4433.5+U	$2J$+36								
5309.4(5)	45^+								
4446.5+Y	$2J$+40								
5379.3(6)	47^-								
5400.4(5)	49^-								
5410.8(5)	47^+								

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	S_N	$T_{1/2}$ orRef.	Branching ratios in percentage					
				E_f^*:	0.0	37.0	53.3	176.1	279.2
[keV]		(p,d)	Γ_{cm}	$2J_f^\pi$:	1^-	3^-	5^-	13^+	3^-
5446.0(5)	53^-								
5490.1(6)									
5499.3(6)									
5558.0(6)									
5591.4(7)									
5597.7(7)									
5686.8(6)	49^+								
5748.6(6)	49^+								
4876.6+Z	$2J$+44								
5799.6(7)									
5278.8+X	$2J$+44								
5869.0(8)									
5892.2(6)	51^+								
5962.9(9)									
5082.7+Y	$2J$+44								
5105.9+U	$2J$+40								
6175.4(6)									
6298.6(6)	53^+								
6326.5(6)	53^-								
5549.9+Z	$2J$+48								
6495.4(8)	55								
5962.0+X	$2J$+48								
5750.8+Y	$2J$+48								
6650.5(6)	55^+								
5811.8+U	$2J$+44								
6791.6(8)	57								
7127.1(7)	57^+								
6258.6+Z	$2J$+52								
7188.8(10)									
6676.2+X	$2J$+52								
6448.9+Y	$2J$+52								
7404.9(7)	$57^{\langle-\rangle}$								
7411.8(7)	$57^{\langle-\rangle}$								
6550.9+U	$2J$+48								
7536.6(8)	59^+								
7744.1(8)	$59^{\langle-\rangle}$								
7000.8+Z	$2J$+56								
7419.4+X	$2J$+56								
8008.9(9)	61^+								
7177.2+Y	$2J$+56								
8066.6(8)	$61^{\langle-\rangle}$								
7322.5+U	$2J$+52								
8381.7(10)	63^+								
8456.1(8)	$63^{\langle-\rangle}$								
7776.9+Z	$2J$+60								

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
				E_f^*:	0.0	37.0	53.3	176.1	279.2
[keV]		(p,d)	Γ_{cm}	$2J_f^\pi$:	1^-	3^-	5^-	13^+	3^-
8192.2+X	$2J$+60								
7935.0+Y	$2J$+60								
8891.8(9)	$65^{\langle-\rangle}$								
8125.5+U	$2J$+56								
9331.4(9)	$67^{\langle-\rangle}$								
8581.9+Z	$2J$+64								
8994.4+X	$2J$+64								
8722.2+Y	$2J$+64								
9785.3(10)	$69^{\langle-\rangle}$								
8962.0+U	$2J$+60								
10220.8(12)	$71^{\langle-\rangle}$								
9411.0+Z	$2J$+68								
9826.3+X	$2J$+68								
9538.0+Y	$2J$+68								
9830.0+U	$2J$+64								
10259.5+Z	$2J$+72								
10687.4+X	$2J$+72								
10383.0+Y	$2J$+72								
10729.0+U	$2J$+68								
11127.5+Z	$2J$+76								
11257.0+Y	$2J$+76								
11574.4+X	$2J$+76								
		85Ve05		Ref.					

Additional data on this isotope can be found in [91Me06, 78Go15].

Energy levels and branching ratios [99Zh11]. Part 2 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	300.5	373	410.3	422.5	547.1	0+X	595.5	600.7	764.6
[keV]		$2J_f^\pi$:	3^-,5^-	$\langle 9^+\rangle$		$\langle 1^-$–$7^-\rangle$	17^+		$\langle 3\rangle^-$	3^-	1^-
410.31(4)	3^-–7^-		4(3)								
422.51(10)	$\langle 1^-$–$7^-\rangle$		x								
595.48(4)	$\langle 3\rangle^-$		4(1)		0.6(5)	x					
600.67(4)	3^-		x		x	x					
764.57(5)	1^-		5(1)						x	x	
814.71(4)	1^-,3^-		x		x	x			x	x	
844.8(4)	$\langle 5^+\rangle$			100							
848.38(24)	$\langle 15^+\rangle$						100				
294.0+X	$2J$+4							x			
874.66(19)	$\langle 7^+\rangle$			100							
893.16(5)	3^-		33(4)		10(1)	3(2)			x	x	x
921.56(4)	1^-,3^-		1.6(2)		3.6(12)	x			1.1(3)	1.25(39)	x

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	300.5	373	410.3	422.5	547.1	0+X	595.5	600.7	764.6
[keV]		$2J_f^\pi$:	3^-,5^-	$\langle 9^+\rangle$		$\langle 1^-$–$7^-\rangle$	17^+		$\langle 3\rangle^-$	3^-	1^-
1004.56(4)	1^-,3^-		4.8(6)		5.7(8)	2.9(8)			4.2(7)	3.0(7)	x
1067.43(7)	$\langle 3^-,5^-\rangle$				24(7)						
1140.33(9)	1^-–5^-								1.9(12)		
1158.41(14)	21^+						100				
1259.51(13)	1^-–5^-									11(9)	
1400.77(5)	1^-		16(1)						1.2(3)	0.27(15)	
1460.91(19)	$\langle 19\rangle^+$						100				
1486.50(18)	$\langle 19^+\rangle$						60(11)				
1548.67(6)	1^-,3^-		2.6(4)						0.9(5)	1.3(7)	1.4(4)
1664.24(7)	1,3,5^-		8(4)							9(2)	
1714.65(14)	1,3,5^-									7(2)	
1742.59(9)	1,3									1.9(8)	
1831.39(14)	1,3		15(2)								
1975.37(15)	1,3		12(6)							19(3)	21(5)
2014.69(6)	1,3		13(2)						0.8(6)		
2057.37(11)	1,3		15(1)						3(1)	7(3)	
2230.14(13)	1,3		22(5)								
2255.59(23)	1,3								32(7)		
2285.07(6)	1,3								15(6)		4(2)
2420.27(14)	1,3		8(2)						7(2)		
2428.79(16)	1,3								8(3)		
2508.24(19)	1,3		10(8)							9(6)	
2513.23(10)	1^+,3^+		13(2)						5(1)	8(2)	

Energy levels and branching ratios [99Zh11]. Part 3 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	814.7	844.8	848.4	0+U	294.0+X	0+Z	874.7	0+Y	0+V
[keV]		$2J_f^\pi$:	1^-,3^-	$\langle 5^+\rangle$	$\langle 15^+\rangle$		$2J$+4		$\langle 7^+\rangle$		$2J$
921.56(4)	1^-,3^-		x								
1004.56(4)	1^-,3^-		x								
171.8+V	$2J$+2										100
244.0+Z	$2J$+4							x			
1140.33(9)	1^-–5^-		2(2)								
273.9+Y	$2J$+4									x	
627.9+X	$2J$+8						x				
341.9+U	$2J$+4					x					
1301.1(4)	$\langle 3^+\rangle$			100					x		
1400.77(5)	1^-		0.26(22)								
1486.50(18)	$\langle 19^+\rangle$				40(8)						
1548.67(6)	1^-,3^-		10.6(9)								
1664.24(7)	1,3,5^-		3(2)								

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	814.7	844.8	848.4	0+U	294.0+X	0+Z	874.7	0+Y	0+V	
[keV]	$2J_f^\pi$:	1^-,3^-	$\langle 5^+ \rangle$	$\langle 15^+ \rangle$		$2J$+4		$\langle 7^+ \rangle$		$2J$	
1714.65(14)	1,3,5$^-$	2.4(11)									
1742.59(9)	1,3	15(2)									
2014.69(6)	1,3	3.1(6)									
2057.37(11)	1,3	4(1)									
2305.01(11)	1,3	33(3)									
2363.1(3)	1,3	35(10)									
2403.1(4)	1,3	17(5)									
2513.23(10)	1$^+$,3$^+$	4(2)									

Energy levels and branching ratios [99Zh11]. Part 4 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	893.2	921.6	1004.6	171.8+V	1067.4	244.0+Z	1140.3	1158.4	273.9+Y
[keV]	$2J_f^\pi$:	3^-	1^-,3^-	1^-,3^-	$2J$+2	$\langle 3^-,5^- \rangle$	$2J$+4	1^-,3,5$^-$	21^+	$2J$+4
1004.56(4)	1$^-$,3$^-$	x								
443.2+V	$2J$+4				100					
1400.77(5)	1$^-$			0.5(3)						
528.5+Z	$2J$+8						x			
588.1+Y	$2J$+8									x
1548.67(6)	1$^-$,3$^-$	8(1)		4.7(7)		3.0(9)		0.9(4)		
748.8+V	$2J$+6				22(8)					
1714.65(14)	1,3,5$^-$	8(2)	2.8(11)							
1742.59(9)	1,3	5(2)	2.2(12)	1.5(8)		2.4(10)				
1744.37(16)	21$^-$								84(8)	
1868.85(22)	25$^+$								100	
1975.37(15)	1,3		12(6)					14(6)		
2014.69(6)	1,3	7(2)	4.5(5)	7.3(9)						
2057.37(11)	1,3	4(1)		2(1)						
2230.14(13)	1,3	12(9)								
2285.07(6)	1,3	32(3)	14(7)			22(3)				
2305.01(11)	1,3	5(2)	14(2)							
2420.27(14)	1,3			6(3)						
2428.79(16)	1,3							17(3)		
2513.23(10)	1$^+$,3$^+$	4(3)	12(2)							

Energy levels and branching ratios [99Zh11]. Part 5 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	627.9+X	341.9+U	443.2+V	1400.8	528.5+Z	1460.9	588.1+Y	1486.5	1548.7
[keV]		$2J_f^\pi$:	$2J$+8	$2J$+4	$2J$+4	1^-	$2J$+8	$\langle 19\rangle^+$	$2J$+8	$\langle 19^+\rangle$	1^-,3^-
1000.7+X	$2J$+12		x								
722.8+U	$2J$+8			x							
748.8+V	$2J$+6				78(12)						
853.5+Z	$2J$+12						x				
1744.37(16)	21^-							12.5(11)		3.3(6)	
941.6+Y	$2J$+12								x		
2285.07(6)	1,3					0.9(6)					
2420.27(14)	1,3										4(2)

Energy levels and branching ratios [99Zh11]. Part 6 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1001+X	722.8+U	853.5+Z	1744.4	941.6+Y	1865.9	1868.8	1870.1	1412+X
[keV]		$2J_f^\pi$:	$2J$+12	$2J$+8	$2J$+12	21^-	$2J$+12	23^-	25^+	25^-	$2J$+16
1865.95(23)	23^-					100					
1870.1(4)	25^-					100					
1411.9+X	$2J$+16		x								
1141.9+U	$2J$+12			x							
2080.93(24)	27^-							76(8)		24(4)	
1218.9+Z	$2J$+16				x						
2171.6(4)	29^-									98(8)	
1333.8+Y	$2J$+16						x				
2413.01(24)	29^+								100		
1860.3+X	$2J$+20										x
2759.0(4)	$\langle 29^+\rangle$								100		

Energy levels and branching ratios [99Zh11]. Part 7 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1142+U	2080.9	1219+Z	2171.6	1334+Y	2413.0	1860+X	1599+U	1624+Z
[keV]		$2J_f^\pi$:	$2J$+12	27^-	$2J$+16	29^-	$2J$+16	29^+	$2J$+20	$2J$+16	$2J$+20
2171.6(4)	29^-			1.95							
1599.1+U	$2J$+16		x								
1624.2+Z	$2J$+20				x						
2627.8(3)	31^-			100							
1763.7+Y	$2J$+20						x				
2691.3(3)	33^+							100			
2773.8(4)	33^-					100					
2345.0+X	$2J$+24								x		

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	1142+U	2080.9	1219+Z	2171.6	1334+Y	2413.0	1860+X	1599+U	1624+Z
[keV]	$2J_f^\pi$:	$2J$+12	27^-	$2J$+16	29^-	$2J$+16	29^+	$2J$+20	$2J$+16	$2J$+20
2069.2+Z	$2J$+24									x
2093.6+U	$2J$+20								x	
3214.9(3)	33^+						100			
3264.9(4)	33^+						33			

Energy levels and branching ratios [99Zh11]. Part 8 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	2627.8	1764+Y	2691.3	2773.8	2345+X	2069+Z	2094+U	2231+Y	3159.2
[keV]	$2J_f^\pi$:	31^-	$2J$+20	33^+	33^-	$2J$+24	$2J$+24	$2J$+20	$2J$+24	37^+
2230.6+Y	$2J$+24		x							
3159.2(3)	37^+			100						
3264.9(4)	33^+			67						
3366.8(4)	35^-	100								
3403.3(4)	35			100						
2553.7+Z	$2J$+28						x			
2864.8+X	$2J$+28					x				
2625.0+U	$2J$+24							x		
3505.0(5)				100						
3556.0(4)	37^-				100					
3562.6(3)	37^+									77(7)
2733.4+Y	$2J$+28								x	
3866.7(4)	39									50(8)
3868.8(5)	41^+									100
4397.4(4)	41^+									32(7)

Energy levels and branching ratios [99Zh11]. Part 9 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3214.9	3264.9	3366.8	3403.3	2554+Z	2865+X	2625+U	3505.0	3556.0
[keV]	$2J_f^\pi$:	33^+	33^+	35^-	35	$2J$+28	$2J$+28	$2J$+24		37^-
3562.6(3)	37^+	15(2)	8(2)							
3699.7(4)	37^+	67(13)	33(10)							
3866.7(4)	39				44(4)				6(2)	
3077.3+Z	$2J$+32					x				
3418.8+X	$2J$+32						x			
3192.6+U	$2J$+28							x		
4183.0(5)	41^-									100

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3214.9	3264.9	3366.8	3403.3	2554+Z	2865+X	2625+U	3505.0	3556.0
[keV]	$2J_f^\pi$:	33^+	33^+	35^-	35	$2J$+28	$2J$+28	$2J$+24		37^-
4197.1(5)	39^-			100						
4580.8(7)										100

Energy levels and branching ratios [99Zh11]. Part 10 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3562.6	2733+Y	3699.7	3866.7	3868.8	3077+Z	3419+X	3193+U	4080.2
[keV]	$2J_f^\pi$:	37^+	$2J$+28	37^+	39	41^+	$2J$+32	$2J$+32	$2J$+28	41^+
4080.2(4)	41^+	100								
3271.0+Y	$2J$+32		x							
4397.4(4)	41^+			68(11)						
3639.4+Z	$2J$+36						x			
4519.8(4)	43				100					
4006.3+X	$2J$+36							x		
3795.4+U	$2J$+32								x	
4741.7(5)	45^+					100				
4808.9(5)					100					
4901.5(5)	45^+									100
4982.2(4)	43^+									90(10)
5175.8(5)	43^+					15(9)				
5309.4(5)	45^+					24(5)				

Energy levels and branching ratios [99Zh11]. Part 11 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3271+Y	4183.0	4197.1	4397.4	3639+Z	4519.8	4580.8	4006+X	3795+U
[keV]	$2J_f^\pi$:	$2J$+32	41^-	39^-	41^+	$2J$+36	43		$2J$+36	$2J$+32
4709.6(5)	45^-		100							
3842.3+Y	$2J$+36	x								
4802.5(6)	43^-			100						
4239.4+Z	$2J$+40					x				
5136.5(6)			55(18)					45(14)		
5175.8(5)	43^+		85(12)							
4626.6+X	$2J$+40								x	
5242.2(6)					100					
5253.5(4)							60(16)			
4433.5+U	$2J$+36									x
5309.4(5)	45^+				76(12)					

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	3271+Y	4183.0	4197.1	4397.4	3639+Z	4519.8	4580.8	4006+X	3795+U
[keV]	$2J_f^\pi$:	$2J$+32	41^-	39^-	41^+	$2J$+36	43		$2J$+36	$2J$+32
5446.0(5)	53^-						100			
5490.1(6)							100			

Energy levels and branching ratios [99Zh11]. Part 12 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	4709.6	3842+Y	4741.7	4802.5	4808.9	4901.5	4982.2	4239+Z	5136.5
[keV]	$2J_f^\pi$:	45^-	$2J$+36	45^+	43^-		45^+	43^+	$2J$+40	
4982.2(4)	43^+					10.2(41)				
5253.5(4)						12(4)		28(8)		
4446.5+Y	$2J$+40		x							
5379.3(6)	47^-				100					
5400.4(5)	49^-	100								
5410.8(5)	47^+	100								
5499.3(6)		100								
5591.4(7)							43(14)			
5597.7(7)							80(20)			
5748.6(6)	49^+			100						
4876.6+Z	$2J$+44								x	
5799.6(7)										100
5869.0(8)							100			
5962.9(9)							100			

Energy levels and branching ratios [99Zh11]. Part 13 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5175.8	4627+X	5253.5	4434+U	5309.4	4447+Y	5400.4	5410.8	5446.0
[keV]	$2J_f^\pi$:	43^+	$2J$+40		$2J$+36	45^+	$2J$+40	49^-	47^+	53^-
5309.4(5)	45^+	x								
5410.8(5)	47^+					x				
5558.0(6)				100						
5591.4(7)				57(22)						
5597.7(7)				20(10)						
5686.8(6)	49^+					10(4)			90(12)	
5278.8+X	$2J$+44		x							
5892.2(6)	51^+							17(3)	38(4)	
5082.7+Y	$2J$+44						x			
5105.9+U	$2J$+40				x					

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5175.8	4627+X	5253.5	4434+U	5309.4	4447+Y	5400.4	5410.8	5446.0
[keV]	$2J_f^\pi$:	43^+	$2J$+40		$2J$+36	45^+	$2J$+40	49^-	47^+	53^-
6175.4(6)										72(17)
6326.5(6)	53^-							100		

Energy levels and branching ratios [99Zh11]. Part 14 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5490.1	5686.8	4877+Z	5279+X	5892.2	5083+Y	5106+U	6175.4	6298.6
[keV]	$2J_f^\pi$:		49^+	$2J$+44	$2J$+44	51^+	$2J$+44	$2J$+40		53^+
5892.2(6)	51^+		45(10)							
6175.4(6)		28(11)								
6298.6(6)	53^+		34(9)			66(7)				
5549.9+Z	$2J$+48			x						
6495.4(8)	55									100
5962.0+X	$2J$+48				x					
5750.8+Y	$2J$+48						x			
6650.5(6)	55^+					57(7)				43(6)
5811.8+U	$2J$+44							x		
7127.1(7)	57^+									46(8)
7188.8(10)									100	

Energy levels and branching ratios [99Zh11]. Part 15 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	6326.5	5550+Z	6495.4	5962+X	5751+Y	6650.5	5812+U	6791.6	7127.1
[keV]	$2J_f^\pi$:	53^-	$2J$+48	55	$2J$+48	$2J$+48	55^+	$2J$+44	57	57^+
6791.6(8)	57			100						
7127.1(7)	57^+						38(6)		17(6)	
6258.6+Z	$2J$+52		x							
6676.2+X	$2J$+52				x					
6448.9+Y	$2J$+52					x				
7404.9(7)	$57^{\langle-\rangle}$	100								
7411.8(7)	$57^{\langle-\rangle}$	100								
6550.9+U	$2J$+48							x		
7536.6(8)	59^+						73(15)			27(8)
8008.9(9)	61^+									70(18)

Energy levels and branching ratios [99Zh11]. Part 16 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	6259+Z	6676+X	6449+Y	7404.9	7411.8	6551+U	7536.6	7744.1	7001+Z
[keV]		$2J_f^\pi$:	$2J$+52	$2J$+52	$2J$+52	$57^{\langle-\rangle}$	$57^{\langle-\rangle}$	$2J$+48	59^+	$59^{\langle-\rangle}$	$2J$+56
7744.1(8)	$59^{\langle-\rangle}$					59(12)	41(9)				
7000.8+Z	$2J$+56		x								
7419.4+X	$2J$+56			x							
8008.9(9)	61^+								30(12)		
7177.2+Y	$2J$+56				x						
8066.6(8)	$61^{\langle-\rangle}$					33(8)	27(6)			40(6)	
7322.5+U	$2J$+52							x			
8381.7(10)	63^+								100		
8456.1(8)	$63^{\langle-\rangle}$									47(17)	
7776.9+Z	$2J$+60										x

Energy levels and branching ratios [99Zh11]. Part 17 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage							
		E_f^*:	7419+X	7177+Y	8066.6	7323+U	8456.1	7777+Z	8192+X	7935+Y
[keV]		$2J_f^\pi$:	$2J$+56	$2J$+56	$61^{\langle-\rangle}$	$2J$+52	$63^{\langle-\rangle}$	$2J$+60	$2J$+60	$2J$+60
8456.1(8)	$63^{\langle-\rangle}$				53(11)					
8192.2+X	$2J$+60		x							
7935.0+Y	$2J$+60			x						
8891.8(9)	$65^{\langle-\rangle}$				61(21)		39(11)			
8125.5+U	$2J$+56					x				
9331.4(9)	$67^{\langle-\rangle}$						67(17)			
8581.9+Z	$2J$+64							x		
8994.4+X	$2J$+64								x	
8722.2+Y	$2J$+64									x

Energy levels and branching ratios [99Zh11]. Part 18 **$^{195}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage							
		E_f^*:	8891.8	8126+U	9331.4	8582+Z	8994+X	8722+Y	8962+U	9411+Z
[keV]		$2J_f^\pi$:	$65^{\langle-\rangle}$	$2J$+56	$67^{\langle-\rangle}$	$2J$+64	$2J$+64	$2J$+64	$2J$+60	$2J$+68
9331.4(9)	$67^{\langle-\rangle}$		33(11)							
9785.3(10)	$69^{\langle-\rangle}$		70(18)		30(12)					
8962.0+U	$2J$+60			x						
10220.8(12)	$71^{\langle-\rangle}$				100					
9411.0+Z	$2J$+68					x				
9826.3+X	$2J$+68						x			
9538.0+Y	$2J$+68							x		

(continued) **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage							
	E^*_f:	8891.8	8126+U	9331.4	8582+Z	8994+X	8722+Y	8962+U	9411+Z
[keV]	$2J^\pi_f$:	$65^{\langle-\rangle}$	$2J$+56	$67^{\langle-\rangle}$	$2J$+64	$2J$+64	$2J$+64	$2J$+60	$2J$+68
9830.0+U	$2J$+64							x	
10259.5+Z	$2J$+72								x

Energy levels and branching ratios [99Zh11]. Part 19 **$^{195}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage						
	E^*_f:	9826+X	9538+Y	9830+U	10260+Z	10687+X	10383+Y	
[keV]	$2J^\pi_f$:	$2J$+68	$2J$+68	$2J$+64	$2J$+72	$2J$+72	$2J$+72	
10687.4+X	$2J$+72	x						
10383.0+Y	$2J$+72		x					
10729.0+U	$2J$+68			x				
11127.5+Z	$2J$+76				x			
11257.0+Y	$2J$+76						x	
11574.4+X	$2J$+76					x		

Energy levels and branching ratios [98Zh05]. **$^{196}_{80}$Hg**

E^*	J^π	g	L	σ (τ,n)	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
								E^*_f: 0.0	426	1037	1061	1319
[keV]			(τ,n)	μb/sr	(p,t)	Γ_{cm}		J^π_f: 0^+	2^+	1^+,2^+	4^+	0^+
0.0	0^+		0	124(9)	4.70	Stable	79An07					
425.98(10)	2^+					17.2(6) ps		100				
958.4(5)	$1,2^+$							67(11)	33(9)			
1036.65(21)	1^+,2^+							17.9(20)	82(8)			
1061.44(14)	4^+								100			
1319.0(9)	0^+							≤19	100			
1390.9(4)	$\langle 2^+–4^+\rangle$								69(8)	24(3)	6.4(10)	
1451.1(6)	0^+				0.22		90Ve13	x	100			
1644.3(6)	0^+				0.05		72Mo12	x	81	19		
1695.8(3)	$\langle 2^+–4^+\rangle$								31	69	x	
1757.03(17)	5^-					0.555(17) ns					100	
1774.99(21)	$2^+,3,4^+$								41	16	43	
1785.15(17)	$\langle 6^+\rangle$										100	
1815.2(4)	$\langle 2^+,3^+\rangle$								49(6)	23(4)	28(4)	
1841.34(22)	7^-	–0.030(17)				5.22(16) ns						
1845.4(5)	$1,2^+$							61(6)	22(4)	18(3)		
1922.0(4)	$\langle 2^+,3^+\rangle$								93(10)	2.0(4)	5.0(10)	
1979.0(7)	$1,2^+$							13.9(21)	86(9)			
1985.9(4)	$1^+,2,3,4^+$								47			

(continued)

$^{196}_{80}$Hg

E^*	J^π	g	L	σ (τ,n)	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
								E_f^*:	0.0	426	1037	1061	1319
[keV]			(τ,n)	μb/sr	(p,t)	Γ_{cm}		J_f^π:	0^+	2^+	1^+,2^+	4^+	0^+
1988.20(21)	$\langle 2^+,3,4^+\rangle$										50	50	
2012.6(7)	$\langle 2\rangle^+$								46(5)	28(4)	5.2(7)	21	
2044.1(8)												29	
2058.46(20)	$\langle 6^-\rangle$												
2064.35(23)	9^-					0.355(18) ns							
2097.78(25)	$\langle 8^-\rangle$												
2262.76(19)	$\langle 8^+\rangle$												
2342.3(3)	$\langle 10^+\rangle$	–0.19(6)				4.83(19) ns	06Le06						
2346.2(6)	$\langle 5^-,6,7^-\rangle$												
2358.89(23)	$\langle 8^-\rangle$												
2439.0(3)	$\langle 12^+\rangle$	incl				3.5(1) ns							
2454.8(5)	$\langle 1,2^+\rangle$									53	24(4)		9(2)
2495.9(11)	$\langle 2^+,3\rangle$									28(5)	18(3)	39(5)	
2553.7(3)	$\langle 10^-\rangle$												
2620.56(25)	$\langle 11^-\rangle$												
2654.2(7)	$\langle 1^+,2,3\rangle$									48(7)			
2843.6(3)	$\langle 14^+\rangle$												
2929.5(3)	$\langle 10^-\rangle$												
2977	$X^{\langle +\rangle}$												
3000(100)	0^+		0	68(6)			79An07						
3164.0(18)	$\langle 2^+,3,4^+\rangle$										71(10)	29(5)	
3199.6(4)	$X^{\langle +\rangle}$												
3236.5(4)	$\langle 12^-\rangle$												
3310.9(3)	$\langle 13^-\rangle$												
3402.1(4)	$X^{\langle +\rangle}$												
3507.4(4)	$\langle 16^+\rangle$												
3684.3(4)	$X^{\langle +\rangle}$												
3697.2(3)	$\langle 15^-\rangle$												
3791.7(5)	$\langle 15^+\rangle$												
3976.0(3)	$\langle 17^-\rangle$												
4321.0(4)	$\langle 18^+\rangle$												
4387.9(4)	$\langle 19^-\rangle$												
5038.2(5)	$\langle 21^-\rangle$												
5198.8(4)	$\langle 20^+\rangle$												
5350.3(4)	$\langle 20\rangle$												
5616.0(4)	$\langle 21\rangle$												
5846.2(5)	$\langle 22^+\rangle$												
5858.9(5)	$\langle 22\rangle$												
5957.9(5)	$\langle 23^-\rangle$												
6443.2(11)	$\langle 22^+\rangle$												
6499.2(5)	$\langle 24^+\rangle$												
6600.4(14)	$\langle 23^+\rangle$												
6702.4(14)	$\langle 24^+\rangle$												
6959.0(15)	$\langle 25^+\rangle$												
7137.4(15)	$\langle 26^+\rangle$												

(continued) **$^{196}_{80}$Hg**

E^*	J^π	g	L	σ (τ,n)	ε	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
								E_f^*:	0.0	426	1037	1061	1319
[keV]			(τ,n)	μb/sr	(p,t)	Γ_{cm}		J_f^π:	0^+	2^+	1^+,2^+	4^+	0^+
7325.7(7)	$\langle 26^+ \rangle$												
7505.6(16)	$\langle 27^+ \rangle$												
7793.7(17)	$\langle 28^+ \rangle$												
8254.7(17)	$\langle 29^+ \rangle$												
8652.3(18)	$\langle 30^+ \rangle$												
		06Le06					Ref.						

Additional data on this isotope can be found in [93Ce04, 91Me06, 90Ve13].
Abundance: 0.15(1) %.
g–factors of isomeric states are discussed in [06Le06].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [98Zh05]. Part 2 **$^{196}_{80}$Hg**

E^*	J^π	Branching ratios in percentage										
	E_f^*:	1391	1757.03	1785.15	1841.34	1845.4	1922.0	2058.46	2064.35	2097.78	2262.76	
[keV]	J_f^π:		5^-	$\langle 6^+ \rangle$	7^-	$1,2^+$	$\langle 2^+,3^+ \rangle$	$\langle 6^- \rangle$	9^-	$\langle 8^- \rangle$	$\langle 8^+ \rangle$	
1841.34(22)	7^-		100	x								
1985.9(4)	1^+,2,3,4^+	53										
2044.1(8)		71										
2058.46(20)	$\langle 6^- \rangle$		88(18)	12(3)								
2064.35(23)	9^-				100							
2097.78(25)	$\langle 8^- \rangle$				100			x				
2262.76(19)	$\langle 8^+ \rangle$			100								
2342.3(3)	$\langle 10^+ \rangle$								<47		100	
2346.2(6)	$\langle 5^-,6,7^- \rangle$		21(11)		79							
2358.89(23)	$\langle 8^- \rangle$				44(6)			35(12)		21(6)		
2454.8(5)	$\langle 1,2^+ \rangle$	11(2)					4(1)					
2495.9(11)	$\langle 2^+,3 \rangle$	15(2)										
2553.7(3)	$\langle 10^- \rangle$								34(7)	66(7)		
2620.56(25)	$\langle 11^- \rangle$								100			
2654.2(7)	$\langle 1^+,2,3 \rangle$	31(4)				22(3)						
2977	$X^{\langle + \rangle}$										100	

Energy levels and branching ratios [98Zh05]. Part 3 **$^{196}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	2342.3	2358.89	2439.0	2553.7	2620.56	2843.6	3310.9	3507.4	3697.2	3976.0
[keV]		J_f^π:	$\langle 10^+ \rangle$	$\langle 8^- \rangle$	$\langle 12^+ \rangle$	$\langle 10^- \rangle$	$\langle 11^- \rangle$	$\langle 14^+ \rangle$	$\langle 13^- \rangle$	$\langle 16^+ \rangle$	$\langle 15^- \rangle$	$\langle 17^- \rangle$
2439.0(3)	$\langle 12^+ \rangle$		100									
2843.6(3)	$\langle 14^+ \rangle$				100							
2929.5(3)	$\langle 10^- \rangle$			100								
3199.6(4)	$X^{\langle + \rangle}$				100							
3236.5(4)	$\langle 12^- \rangle$					100						
3310.9(3)	$\langle 13^- \rangle$						100					
3402.1(4)	$X^{\langle + \rangle}$							100				
3507.4(4)	$\langle 16^+ \rangle$							100				
3684.3(4)	$X^{\langle + \rangle}$							100				
3697.2(3)	$\langle 15^- \rangle$							17.8(2)	82(7)			
3791.7(5)	$\langle 15^+ \rangle$							100				
3976.0(3)	$\langle 17^- \rangle$									8.4(14)	92(11)	
4321.0(4)	$\langle 18^+ \rangle$									100		
4387.9(4)	$\langle 19^- \rangle$											100

Energy levels and branching ratios [98Zh05]. Part 4 **$^{196}_{80}$Hg**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	4321.0	4387.9	5038.2	5198.8	5350.3	5616.0	5846.2	6443.2	6499.2	6600.4
[keV]		J_f^π:	$\langle 18^+ \rangle$	$\langle 19^- \rangle$	$\langle 21^- \rangle$	$\langle 20^+ \rangle$	$\langle 20 \rangle$	$\langle 21 \rangle$	$\langle 22^+ \rangle$	$\langle 22^+ \rangle$	$\langle 24^+ \rangle$	$\langle 23^+ \rangle$
5038.2(5)	$\langle 21^- \rangle$			100								
5198.8(4)	$\langle 20^+ \rangle$		100									
5350.3(4)	$\langle 20 \rangle$			100								
5616.0(4)	$\langle 21 \rangle$						100					
5846.2(5)	$\langle 22^+ \rangle$					100						
5858.9(5)	$\langle 22 \rangle$				71			29				
5957.9(5)	$\langle 23^- \rangle$				100							
6443.2(11)	$\langle 22^+ \rangle$				100							
6499.2(5)	$\langle 24^+ \rangle$								100			
6600.4(14)	$\langle 23^+ \rangle$									100		
6702.4(14)	$\langle 24^+ \rangle$									≈50		50
6959.0(15)	$\langle 25^+ \rangle$											≈9
7325.7(7)	$\langle 26^+ \rangle$										100	
7505.6(16)	$\langle 27^+ \rangle$										x	

Energy levels and branching ratios [98Zh05]. Part 5

$^{196}_{80}$Hg

E^*	J^π	Branching ratios in percentage					
	E_f^*:	6702.4	6959.0	7137.4	7505.6	7793.7	8254.7
[keV]	J_f^π:	$\langle 24^+\rangle$	$\langle 25^+\rangle$	$\langle 26^+\rangle$	$\langle 27^+\rangle$	$\langle 28^+\rangle$	$\langle 29^+\rangle$
6959.0(15)	$\langle 25^+\rangle$	91					
7137.4(15)	$\langle 26^+\rangle$	≈50	50				
7505.6(16)	$\langle 27^+\rangle$		≈29	71			
7793.7(17)	$\langle 28^+\rangle$			≈50	50		
8254.7(17)	$\langle 29^+\rangle$				≈38	62	
8652.3(18)	$\langle 30^+\rangle$					≈38	62

Energy levels and branching ratios [95Zh27, 05Hu03].

$^{197}_{80}$Hg

E^*	$2J^\pi$	S_N	L	$d\sigma/d\Omega$	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
								E_f^*: 0.0	134	152	299	308
[keV]		(p,d)	(d,t)	μb/sr	(d,t)	Γ_{cm}		$2J_f^\pi$: 1^-	5^-	$\langle 3\rangle^-$	13^+	$\langle 5\rangle^-$
0.0	1^-	0.84	⟨1⟩	819	1.0	64.14(5) h	85Ve05					
133.96(4)	5^-	2.7(5)	⟨3⟩	540	2.7	8.07(16) ns	85Ve05	100				
152.14(4)	$\langle 3\rangle^-$	1.2(3)	⟨1⟩	1222	1.7		85Ve05	100	0.06(2)			
250(1)				58			72Mo12					
298.93(8)	13^+					23.8(1) h			100			
307.77(6)	$\langle 5\rangle^-$	0.7(3)	⟨1⟩	283	0.41		85Ve05	85(15)	14.8(11)	<2.33		
308.50(6)	$\langle 3^-\rangle$	0.14(7)					85Ve05	88(16)	<1.1	12(3)		
477.72(13)	9^+–13^+			37			72Mo12				100	
509.0(3)									100			
557.77(12)	$\langle 5^-,7^-\rangle$							<15	72(11)	<5		<5
578.00(6)	$\langle 3\rangle^-$							24(2)	3.1(2)	70(5)		<0.1
585.38(6)	$\langle 3\rangle^-$							12(1)	24(2)	58(4)		6.1(5)
652.7(3)	17^+										100	
675(3)	$\langle 5^-,7^-\rangle$		⟨3⟩	150	1.0		72Mo12					
676.75(24)	$1^-,3^-$							100				
715.36(11)	9^-								100			
792.04(5)	$1^-,3^-$			59			72Mo12	59(5)	3.5(5)	29(2)		<0.9
829.07(16)	11^+										57	
892.53(6)	$\langle 3\rangle^-$							67(5)	7(1)	1.8(3)		24(3)
903.6(3)	$\langle 7\rangle^-$											
921.68(21)												100
940.72(24)												
982.89(7)	$1^-,3^-$							41(3)	<0.4	1.7(2)		<1
1009.3(1)	$\langle 1^-\rangle$							11.3(9)	<0.4	59(4)		30(2)
1026.2(2)	15^+										81	
1032.0(2)												
1120(5)	$\langle 5^-,7^-\rangle$		⟨3⟩	220	1.5		72Mo12					
1128.6(2)												
1145.2(2)	$\langle 1^-,3^-\rangle$		⟨1⟩	131	0.29		72Mo12	100				
1174.9(2)	$\langle 13^+\rangle$										35	

(continued) **$^{197}_{80}$Hg**

E^*	$2J^\pi$	S_N	L	$d\sigma/d\Omega$	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
								E_f^*: 0.0	134	152	299	308
[keV]		(p,d)	(d,t)	μb/sr	(d,t)	Γ_{cm}		$2J_f^\pi$: 1^-	5^-	$\langle 3\rangle^-$	13^+	$\langle 5\rangle^-$
1180(5)			⟨1,3⟩	103	0.2,0.7		72Mo12					
1259.3(4)												
1273.5(3)	21^+											
1306(6)			⟨1⟩	156	0.38		72Mo12					
1343.9(3)												
1381.7(2)	13^-											
1437.6(1)	1^-,3^-			15			72Mo12	33(2)		46(4)		3.4(5)
1536.8(4)	$\langle 19^+\rangle$											
1563.43(6)	1^-,3^-							1.2(1)	13.8(11)	71(6)		5.1(11)
1634.3(3)	$\langle 21^+\rangle$											
1634.6(11)												
1682.2(3)	21^-											
1693.73(6)	$1^{\langle-\rangle}$,$3^{\langle-\rangle}$							26(2)		8.1(7)		
1702.2(4)	$\langle 17\rangle^+$										1.61	
1833.0(4)	25^-					1.13(6) ns						
1865(8)				22			72Mo12					
1919(8)				55			72Mo12					
1955.8(4)												
2037.0(4)	25^+											
2081(9)				18			72Mo12					
2095.9(4)												
2161.6(5)	29^-											
2196.2(5)												
2228.6(11)												
2253(9)				33			72Mo12					
2295.6(4)	$\langle 23\rangle^+$											
2710.4(4)	29^+											
2768.6(5)	33^-											
3045.1(5)	33^+					≤0.2 ns						
3464.0(5)	37^+											
4061.2(6)	41^+											
				72M012	72M012		Ref.					

Two quadrupole bands (with spins $13/2^+ - 41/2^+$ and $21/2^- - 33/2^-$) are considered in [05Hu03].

Energy levels and branching ratios [95Zh27, 05Hu03]. Part 2 **$^{197}_{80}$Hg**

E^*	$2J^\pi$											
		E_f^*:	309	477.7	557.8	578.0	585.4	652.7	715.4	792.0	829.1	892.5
[keV]		$2J_f^\pi$:	$\langle 3^-\rangle$		$\langle 5^-,7^-\rangle$	$\langle 3\rangle^-$	$\langle 3\rangle^-$	17^+	9^-	1^-,3^-	11^+	$\langle 3\rangle^-$
557.77(12)	$\langle 5^-,7^-\rangle$		28(4)									
578.00(6)	$\langle 3\rangle^-$		2.8(2)									
585.38(6)	$\langle 3\rangle^-$		<0.3									

(continued) **$^{197}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	309	477.7	557.8	578.0	585.4	652.7	715.4	792.0	829.1	892.5
[keV]		$2J_f^\pi$:	$\langle 3^- \rangle$		$\langle 5^-,7^- \rangle$	$\langle 3 \rangle^-$	$\langle 3 \rangle^-$	17^+	9^-	$1^-,3^-$	11^+	$\langle 3 \rangle^-$
792.04(5)	$1^-,3^-$		8.3(7)		<0.9	<0.5	<0.5					
829.07(16)	11^+			43								
892.53(6)	$\langle 3 \rangle^-$		<1.5		<1.5	<0.7	<2.3					
903.6(3)	$\langle 7 \rangle^-$		100									
940.72(24)				100								
982.89(7)	$1^-,3^-$		47(3)			6.8(6)	3.2(4)					
1009.3(1)	$\langle 1^- \rangle$		<0.4		<0.8	<0.4	<0.4					
1026.2(2)	15^+							11			≈8	
1032.0(2)				100								
1120(5)	$\langle 5^-,7^- \rangle$								100			
1174.9(2)	$\langle 13^+ \rangle$			≈24				≈29			10	
1259.3(4)											100	
1273.5(3)	21^+							100				
1343.9(3)								100				
1381.7(2)	13^-								100			
1437.6(1)	$1^-,3^-$						1.6(5)			8.5(10)		7.5(6)
1536.8(4)	$\langle 19^+ \rangle$							92				
1563.43(6)	$1^-,3^-$		7.1(12)							1.4(2)		
1634.3(3)	$\langle 21^+ \rangle$							92				
1693.73(6)	$1^{\langle - \rangle},3^{\langle - \rangle}$		47(3)				3.4(7)			14(1)		
1702.2(4)	$\langle 17 \rangle^+$							1.18				

Energy levels and branching ratios [95Zh27, 05Hu03]. Part 3 **$^{197}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	1026.2	1145.2	1174.9	1273.5	1343.9	1381.7	1536.8	1682.2	1833.0	2037.0
[keV]		$2J_f^\pi$:	15^+	$\langle 1^-,3^- \rangle$	$\langle 13^+ \rangle$	21^+		13^-	$\langle 19^+ \rangle$	21^-	25^-	25^+
1174.9(2)	$\langle 13^+ \rangle$		2.4									
1536.8(4)	$\langle 19^+ \rangle$		≈8									
1634.3(3)	$\langle 21^+ \rangle$						8.2					
1634.6(11)								100				
1682.2(3)	21^-					100						
1693.73(6)	$1^{\langle - \rangle},3^{\langle - \rangle}$			1.4(4)								
1702.2(4)	$\langle 17 \rangle^+$		95		1.7		0.9					
1833.0(4)	25^-									100		
1955.8(4)										100		
2037.0(4)	25^+					100						
2095.9(4)											100	
2161.6(5)	29^-										100	
2196.2(5)									100			
2228.6(11)											100	

(continued) **$^{197}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1026.2	1145.2	1174.9	1273.5	1343.9	1381.7	1536.8	1682.2	1833.0	2037.0
[keV]	$2J_f^\pi$:	15^+	$\langle 1^-,3^-\rangle$	$\langle 13^+\rangle$	21^+		13^-	$\langle 19^+\rangle$	21^-	25^-	25^+
2295.6(4)	$\langle 23\rangle^+$				100						
2710.4(4)	29^+										100

Energy levels and branching ratios [95Zh27, 05Hu03]. Part 4 **$^{197}_{80}$Hg**

E^*	$2J^\pi$	Branching ratios in percentage				
	E_f^*:	2161.6	2710.4	3045.1	3464.0	
[keV]	$2J_f^\pi$:	29^-	29^+	33^+	37^+	
2768.6(5)	33^-	100				
3045.1(5)	33^+		100			
3464.0(5)	37^+			100		
4061.2(6)	41^+				100	

Energy levels and branching ratios [02Zh04]. **$^{198}_{80}$Hg**

E^*	J^π	g	L	C^2S	I_d	L	ε	σ (τ,n)	$T_{1/2}$ or	Ref.
[keV]			(τ,d)	(τ,d)	arb.u	(p,t)	(p,t)	μb/sr	Γ_{cm}	
0.0	0^+		2	0.53	14	0	3.95	124(9)	Stable	90Ve13
411.8025(2)	2^+		0	0.24	25				23.16(12) ps	82Bl21
1048.49(12)	4^+		2	0.20	5				1.80(8) ps	82Bl21
1087.687(1)	2^+		0+2	0.05+0.1	10				2.5(2) ps	82Bl21
1401.52(23)	0^+					0	0.10			90Ve13
1419.41(11)	$\langle 2\rangle^+$									
1548.49(20)	$\langle 1,2^+\rangle$									
1550	0^+					0	0.07			90Ve13
1612.44(12)	2^+									
1635.6(3)	5^-								62(11) ps	
1683.3(3)	7^-	–0.033(14)							6.9(2) ns	06Le06
1760(15)	0^+		2	0.06	1	0	0.10			82Bl21
1815.83(22)	6^+								1.8(2) ps	
1832.60(17)	2^+		2	0.02	0.5					82Bl21
1834.9(3)	4^+									
1847.21(13)	$\langle 3\rangle^+$									
1858.89(18)	2^+									
1899.40(21)	$1^+,2^+$			0.04	5					82Bl21
1901.51(22)	$\langle 2^+\rangle$									
1909.6(4)	6^-									
1910.8(3)	9^-								0.28(5) ns	

(continued) **$^{198}_{80}$Hg**

E^* [keV]	J^π	g	L (τ,d)	C^2S (τ,d)	I_d arb.u	L (p,t)	ε (p,t)	σ (τ,n) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.
1930(4)	3^-									
1965(6)										
1971.02(17)	2^+–4^+									
2005.35(16)										
2048.6(4)										
2049(6)										
2058.9(4)	5^-–7^-									
2070.8(3)	1^+,2^+		0	0.05	5					82Bl21
2109.8(5)	$\langle 1,2^+\rangle$									
2125.2(4)	6^-,7^-									
2132.6(3)	1^+,2^+		0	0.10	12					82Bl21
2134(4)	5^-									
2169.39(22)	$\langle 2^+\rangle$									
2177.6(3)	$\langle 1,2^+\rangle$									
2202.5(4)	6^-,7^-									
2209.25(14)	$\langle 1,2^+\rangle$									
2219.4(3)										
2267.7(3)	$\langle 2^+\rangle$									
2287.1(3)	$\langle 1,2^+\rangle$		2	0.08	2					82Bl21
2296.16(18)										
2320.30(24)										
2331.56(22)	4^+									
2337.5(3)	8^+								15(8) ps	
2360.77(15)	3^+									
2400(4)										
2434.8(3)	10^+	–0.18(8)							1.85(16) ns	06Le06
2450(15)	1^+,2^+		0	0.35	40					82Bl21
2451.89(17)	$\langle 1,3\rangle$									
2465.44(21)	$\langle 2^+\rangle$									
2466.9(4)	11^-		$\langle 5\rangle$	0.19						82Bl21
2486.09(16)	$\langle 1,2^+\rangle$									
2487(4)	3^-									
2515.8(4)										
2525(3)	$\langle 3^-\rangle$									
2535(4)	3^-									
2550(15)			0+2	0.03+0.2						82Bl21
2564.34(17)	$\langle 1,2^+\rangle$									
2578.0(4)	12^+								1.38(4) ns	
2600(15)	1^+,2^+		0+2	0.1+0.05						82Bl21
2602.46(24)										
2612.6(3)	$\langle 1,2^+\rangle$									
2644.2(7)	2^+–4^+									
2694.8(7)	$\langle 1,2^+\rangle$									
2731.2(3)	$\langle 2^+$–$4^+\rangle$		0+2	0.1+0.01						82Bl21
2756	$\langle 8^+\rangle$								0.34(10) ps	

(continued) **$^{198}_{80}$Hg**

E^* [keV]	J^π	g	L (τ,d)	C^2S (τ,d)	I_d arb.u	L (p,t)	ε (p,t)	σ (τ,n) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.
2782.76(20)	$\langle 2^+ \rangle$		0+2	0.03+0.1						82Bl21
2816.1(8)	$\langle 1,2^+ \rangle$									
2825.5(3)	$\langle 1,2^+ \rangle$									
2835.49(23)	$\langle 1,2^+ \rangle$		$\langle 3,5 \rangle$							82Bl21
2840(15)	$X^{\langle - \rangle}$									
2845.1(4)	$\langle 1,2^+ \rangle$									
2861.6(6)	$\langle 1,2^+ \rangle$									
2868.8(6)	$\langle 1,2^+ \rangle$									
2894.3(7)	$\langle 1,2^+ \rangle$									
2925.9(4)	14^+								<120 ps	
2940(15)			$\langle 5,6 \rangle$							82Bl21
2954.6(7)	$\langle 1,2^+ \rangle$									
2975.9(7)	$\langle 1,2^+ \rangle$									
2986.8(8)	$\langle 1,2^+ \rangle$									
2990(15)	$X^{\langle - \rangle}$		$\langle 3 \rangle$							82Bl21
3000(100)	$[0^+]$							68(6)		79An07
3013.2(3)										
3022.1(10)	$\langle 1,2^+ \rangle$									
3070(15)										
3095.7(10)	$\langle 1,2^+ \rangle$									
3128.0(7)	$\langle 1,2^+ \rangle$									
3150(15)	$X^{\langle - \rangle}$		$\langle 3,5 \rangle$							82Bl21
3164.7(6)	$\langle 1,2^+ \rangle$									
3200(15)	$X^{\langle - \rangle}$		$\langle 5 \rangle$							82Bl21
3270(15)										
3325.5(4)	13^-									
3440(15)	$X^{\langle - \rangle}$		$\langle 3 \rangle$							82Bl21
3485.9(5)	16^+									
4262.4(5)	18^+									
4302.2(7)	$\langle 15^- \rangle$									
4635.7(9)	$\langle 17^- \rangle$									
5284.2(7)	$\langle 20^+ \rangle$									
		06Le06		82Bl21	82Bl21			79An07		Ref.

Additional data on this isotope can be found in [90Ve13].
Abundance: 9.97(20) %.
g–factors of isomeric states are discussed in [06Le06].
Cross section of (τ,n) reaction was measured at 0° [79An07].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [02Zh04]. Part 2

$^{198}_{80}$Hg

E^*	J^π		Branching ratios in percentage					
		E_f^*:	0.0	412	1048	1088	1401	1419
[keV]		J_f^π:	0^+	2^+	4^+	2^+	0^+	$\langle 2\rangle^+$
411.8025(2)	2^+		100					
1048.49(12)	4^+			100				
1087.687(1)	2^+		16.5(3)	83.5(3)				
1401.52(23)	0^+		x	100				
1419.41(11)	$\langle 2\rangle^+$			76(8)	8(2)	16(3)		
1548.49(20)	$\langle 1,2^+\rangle$		22(5)	78(7)				
1612.44(12)	2^+		8.8(4)	88(9)	2.7(5)			
1635.6(3)	5^-				100			
1815.83(22)	6^+				100			
1832.60(17)	2^+		34(4)	65(7)		1.0(5)		
1834.9(3)	4^+				79(13)	21(13)		
1847.21(13)	$\langle 3\rangle^+$			54(7)	17(1)	23(2)		
1858.89(18)	2^+		14(2)	80(9)	3.3(6)	2.9(4)		
1899.40(21)	$1^+,2^+$		80(8)	12(6)			8(1)	
1901.51(22)	$\langle 2^+\rangle$			95(11)	5.1(13)			
1971.02(17)	2^+–4^+			76(8)	16(2)	8(4)		
2005.35(16)				100				
2048.6(4)				100				
2070.8(3)	$1^+,2^+$			100				
2109.8(5)	$\langle 1,2^+\rangle$		31(8)	69(10)				
2132.6(3)	$1^+,2^+$			93(9)		7(3)		
2169.39(22)	$\langle 2^+\rangle$		20(3)	60(9)	<19			
2177.6(3)	$\langle 1,2^+\rangle$		2.6(10)	47(5)		32(12)		19(5)
2209.25(14)	$\langle 1,2^+\rangle$		14(2)	17(2)		0.44(9)		17(2)
2219.4(3)						100		
2267.7(3)	$\langle 2^+\rangle$		1.8(7)	30(7)	68(6)			
2287.1(3)	$\langle 1,2^+\rangle$		40(11)	60(6)				
2296.16(18)				5(2)		40(9)		26(3)
2320.30(24)			<44	40(7)		60(10)		
2331.56(22)	4^+					78(11)		22(9)
2360.77(15)	3^+			1.8(3)	74(8)	5.6(7)		9.7(9)
2451.89(17)	$\langle 1,3\rangle$			95(10)		3.6(5)		
2465.44(21)	$\langle 2^+\rangle$		39(4)	11(2)	21(9)			29(2)
2486.09(16)	$\langle 1,2^+\rangle$		47(5)	24(3)		3.3(9)		9(1)
2564.34(17)	$\langle 1,2^+\rangle$		10(3)	42(5)		19(9)		18(3)
2602.46(24)				93(9)		7.2(14)		
2612.6(3)	$\langle 1,2^+\rangle$		100					
2644.2(7)	2^+–4^+			16(8)	84(26)			
2694.8(7)	$\langle 1,2^+\rangle$		7(3)	93(20)				
2731.2(3)	$\langle 2^+$–$4^+\rangle$			<35	12(5)	73(10)		
2782.76(20)	$\langle 2^+\rangle$		38(4)	47(5)	8(2)			
2816.1(8)	$\langle 1,2^+\rangle$		75(13)	25(13)				
2825.5(3)	$\langle 1,2^+\rangle$		26(4)	74(7)				
2835.49(23)	$\langle 1,2^+\rangle$		7(2)	66(10)				
2845.1(4)	$\langle 1,2^+\rangle$		43(10)	57(11)				

(continued) **$^{198}_{80}$Hg**

E^*	J^π		Branching ratios in percentage					
		E_f^*:	0.0	412	1048	1088	1401	1419
[keV]		J_f^π:	0^+	2^+	4^+	2^+	0^+	$\langle 2\rangle^+$
2861.6(6)	$\langle 1,2^+\rangle$		41(12)	59(12)				
2868.8(6)	$\langle 1,2^+\rangle$		29(8)	71(12)				
2894.3(7)	$\langle 1,2^+\rangle$		19(10)					81(41)
2954.6(7)	$\langle 1,2^+\rangle$		19(10)	81(17)				
2975.9(7)	$\langle 1,2^+\rangle$		19(3)	54(20)				
2986.8(8)	$\langle 1,2^+\rangle$		100					
3013.2(3)				76(8)		24(6)		
3022.1(10)	$\langle 1,2^+\rangle$		>23					
3095.7(10)	$\langle 1,2^+\rangle$		100					
3128.0(7)	$\langle 1,2^+\rangle$		32(11)	68(14)				
3164.7(6)	$\langle 1,2^+\rangle$		50(8)	50(14)				

Energy levels and branching ratios [02Zh04]. Part 3 **$^{198}_{80}$Hg**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	1548.49	1612.44	1635.6	1683.3	1815.83	1832.60	1834.9	1847.21	1858.89	1899.40
[keV]		J_f^π:	$\langle 1,2^+\rangle$	2^+	5^-	7^-	6^+	2^+	4^+	$\langle 3\rangle^+$	2^+	$1^+,2^+$
1683.3(3)	7^-				100							
1847.21(13)	$\langle 3\rangle^+$			6.9(10)								
1909.6(4)	6^-				22(5)	78(12)						
1910.8(3)	9^-					100						
2058.9(4)	5^-–7^-				54(8)	38(8)						
2125.2(4)	$6^-,7^-$				56(6)	28(4)						
2169.39(22)	$\langle 2^+\rangle$		10(5)					10(5)				
2177.6(3)	$\langle 1,2^+\rangle$										<3	
2202.5(4)	$6^-,7^-$				5.3(20)	89(11)						
2209.25(14)	$\langle 1,2^+\rangle$			35(4)				7(2)			<3	
2296.16(18)										11(4)	18(4)	
2337.5(3)	8^+						100					
2360.77(15)	3^+								5.1(7)	4.1(9)		
2515.8(4)						19(3)						
2564.34(17)	$\langle 1,2^+\rangle$			<5								11(3)
2731.2(3)	$\langle 2^+$–$4^+\rangle$							15(8)				
2756	$\langle 8^+\rangle$						100					

Energy levels and branching ratios [02Zh04]. Part 4

$^{198}_{80}$Hg

E^*	J^π					Branching ratios in percentage						
		E_f^*:	1901.51	1909.6	1910.8	1971.02	2005.35	2070.8	2125.2	2132.6	2287.1	2331.56
[keV]		J_f^π:	$\langle 2^+ \rangle$	6^-	9^-			$1^+,2^+$	$6^-,7^-$	$1^+,2^+$	$\langle 1,2^+ \rangle$	4^+
2058.9(4)	5^-–7^-			8(3)								
2125.2(4)	$6^-,7^-$			16(3)								
2202.5(4)	$6^-,7^-$			5.3(20)								
2209.25(14)	$\langle 1,2^+ \rangle$					9(2)						
2296.16(18)						<8						
2434.8(3)	10^+				76							
2451.89(17)	$\langle 1,3 \rangle$		1.1(4)							<0.7		
2466.9(4)	11^-				100							
2486.09(16)	$\langle 1,2^+ \rangle$						17(2)					
2515.8(4)				11(5)					70(9)			
2612.6(3)	$\langle 1,2^+ \rangle$										<42	
2782.76(20)	$\langle 2^+ \rangle$							6(2)				
2835.49(23)	$\langle 1,2^+ \rangle$											26(10)
2975.9(7)	$\langle 1,2^+ \rangle$		27(10)									
3022.1(10)	$\langle 1,2^+ \rangle$							$\langle 77 \rangle$				

Energy levels and branching ratios [02Zh04]. Part 5

$^{198}_{80}$Hg

E^*	J^π					Branching ratios in percentage					
		E_f^*:	2337.5	2434.8	2466.9	2578.0	2925.9	3325.5	3485.9	4262.4	4302.2
[keV]		J_f^π:	8^+	10^+	11^-	12^+	14^+	13^-	16^+	18^+	$\langle 15^- \rangle$
2434.8(3)	10^+		≈24								
2578.0(4)	12^+			100							
2925.9(4)	14^+					100					
3325.5(4)	13^-				100						
3485.9(5)	16^+						100				
4262.4(5)	18^+								100		
4302.2(7)	$\langle 15^- \rangle$							100			
4635.7(9)	$\langle 17^- \rangle$										100
5284.2(7)	$\langle 20^+ \rangle$									100	

Energy levels and branching ratios [94Ar13].

$^{199}_{80}$Hg

E^*	$2J^\pi$	S_N	σ (d,p)	L	σ (d,t)	S_N	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
										E_f^*:	0.0	158	208	403	414
[keV]		(p,d)	μb/sr		μb/sr	(d,t)	(d,p)	Γ_{cm}		$2J_f^\pi$:	1^-	5^-	3^-	3^-	5^-
0.0	1^-	1.10	588	1	1500	1.5	0.46	Stable	85Ve05						
158.3795(1)	5^-	1.6	368	3	600	2.4	0.32	2.45(2) ns	85Ve05		100				
208.2062(1)	3^-	0.56	675	1	800	0.72	0.20	69(3) ps	85Ve05		96.0	3.97			

(continued)

$^{199}_{80}$Hg

E^* [keV]	$2J^\pi$	S_N (p,d)	σ (d,p) μb/sr	L	σ (d,t) μb/sr	S_N (d,t)	S_N (d,p)	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage E_f^*: 0.0 158 208 403 414 $2J_f^\pi$: 1^- 5^- 3^- 3^- 5^-
403.51(3)	3^-	0.84(10)	841	1	1100	1.1	0.26	5.8(12) ps	85Ve05	87 ≤1.9 13
413.84(5)	5^-	1.5(2)			≈500	2.5		115(23) ps	85Ve05	90 5 5 x
455.46(2)	1^-,3^-				40	0.04			72Mo12	56 1.6 42 0.11
492.30(2)	3^-			⟨1⟩	35	0.04			72Mo12	28 32 40
532.48(10)	13^+			6	200	7.4		42.6(2) m	72Mo12	100 $1\cdot10^{-4}$
638(3)					50				72Mo12	
667(3)	5^-,7^-		51	3	60	0.31	0.04		72Mo12	
668.9(13)	1,3									
698(3)	5^-,7^-		136	3	160	0.74	0.08		72Mo12	
737(5)										
750.40(3)	1^-,3^-			1	100	0.13			72Mo12	58 6 14 7.3 7.9
759(3)										
822(4)					20				72Mo12	
823.88(23)	$\langle 17^+ \rangle$									
969(4)	7^-,5^-			3	50	0.19			72Mo12	
1038(3)										
1104(4)					21				72Mo12	
1221.17(4)	$1^{\langle - \rangle}$,$3^{\langle - \rangle}$		154	1	150	0.76	0.05		72Mo12	1.2 9.6 68 15.8 1.9
1269.2(12)										
1274.1(4)	$\langle 15^+ \rangle$									
1319.2(17)										
1329.3(13)	1^-,3^-		96	1	200	0.37	0.03		72Mo12	
1357.2(3)	$\langle 21^+ \rangle$				30					
1360.4(13)	1,3									
1441.0(18)	1^-,3^-			1	150	0.27				
1454(6)	$\langle 7^-,5^- \rangle$		39	⟨3⟩	600	2.7	0.04			
1519(3)	1,3									
1574.3(15)	1,3				20					
1596.8(10)	1,3				10					
1654.7(12)	$3^{\langle - \rangle}$,$1^{\langle - \rangle}$		14	⟨1⟩	80	0.14	0.004			
1686(7)					40					
1733.3(11)	1,3									
1745.7(10)	1,3									
1769.3(3)	$\langle 19^+ \rangle$									
1782.4(10)	1,3				15				72Mo12	
1801.6(15)										
1823.7(18)	1,3									
1853(7)					50				72Mo12	
1953(8)					50				72Mo12	
1972.9(10)	1,3									
1989.8(22)	1,3									
2038(8)					20				72Mo12	
2068(3)										
2095.5(15)	1,3				5				72Mo12	
2107.3(4)	$\langle 25^+ \rangle$									

(continued) **$^{199}_{80}$Hg**

E^* [keV]	$2J^\pi$	S_N (p,d)	σ (d,p) μb/sr	L	σ (d,t) μb/sr	S_N (d,t)	S_N (d,p)	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage E_f^*: 0.0 158 208 403 414 $2J_f^\pi$: 1^- 5^- 3^- 3^- 5^-
2145.8(18)										
2175(9)					40				72Mo12	
2218(9)					60				72Mo12	
2229.9(14)	1,3				5				72Mo12	
2242(4)	1,3									
2266(3)	1,3									
2279(9)					10				72Mo12	
2292.1(14)	1,3									
2332.0(4)	$\langle 21^- \rangle$									
2346.8(15)	1,3									
2360(10)					10				72Mo12	
2384(10)					5				72Mo12	
2400(4)			560						72Mo12	
2413(3)					10				72Mo12	
2424(10)			413						72Mo12	
2425.6(4)	$\langle 23^- \rangle$									
2452.8(17)										
2464(3)	1,3		269						72Mo12	
2487.8(4)	$\langle 25^- \rangle$									
2495(3)	1,3				[5]				72Mo12	
2629.7(4)	$\langle 27^- \rangle$									
2765.9(5)	$\langle 29^- \rangle$									
3068.4(5)	$\langle 31^- \rangle$									
3199(13)			284						72Mo12	
3245(13)			394						72Mo12	
3273(13)			183						72Mo12	
3338(13)			278						72Mo12	
3413(14)			306						72Mo12	
3431(14)			76						72Mo12	
3511(14)			154						72Mo12	
3582(14)			174						72Mo12	
3604(14)			392						72Mo12	
3626(15)			115						72Mo12	
3648(15)			269						72Mo12	
3988(16)			299						72Mo12	
4052(16)			200						72Mo12	
4098(16)			250						72Mo12	
		85Ve05	72Mo12						Ref.	

Additional data on this isotope can be found in [71Ka03].
Abundance: 16.87(22) %.
ratios are given in Supplement.
Data for this isotope are considered in vol. LB I/18C.

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

$^{199}_{80}$Hg

E^*	$2J^\pi$		Branching ratios in percentage										
		E_f^*:	455	492	532.48	750.40	823.88	1357.2	2107.3	2332.0	2425.6	2487.8	2629.7
[keV]		$2J_f^\pi$:	1^-,3^-	3^-	13^+	1^-,3^-	$\langle 17^+\rangle$	$\langle 21^+\rangle$	$\langle 25^+\rangle$	$\langle 21^-\rangle$	$\langle 23^-\rangle$	$\langle 25^-\rangle$	$\langle 27^-\rangle$
492.30(2)	3^-		0.20(4)										
750.40(3)	1^-,3^-		2.9(3)	4.0(4)									
823.88(23)	$\langle 17^+\rangle$				100								
1221.17(4)	$1^{\langle -\rangle}$,$3^{\langle -\rangle}$		≈0.5	1.7(2)		1.5(3)							
1274.1(4)	$\langle 15^+\rangle$				100								
1357.2(3)	$\langle 21^+\rangle$						100						
1769.3(3)	$\langle 19^+\rangle$						100						
2107.3(4)	$\langle 25^+\rangle$							100					
2332.0(4)	$\langle 21^-\rangle$							100					
2425.6(4)	$\langle 23^-\rangle$							100					
2487.8(4)	$\langle 25^-\rangle$								91(22)	≈9			
2629.7(4)	$\langle 27^-\rangle$								83(17)		17(3)	<33	
2765.9(5)	$\langle 29^-\rangle$											100	
3068.4(5)	$\langle 31^-\rangle$												100

Energy levels and branching ratios [95Sc23].

$^{200}_{80}$Hg

E^*	J^π	ε	β_L	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
						E_f^*:	0	368	947	1029	1254
[keV]		(p,t)	(p,p′)	Γ_{cm}		J_f^π:	0^+	2^+	4^+	0^+	2^+
0	0^+	3.14		Stable	90Ve13						
367.944(10)	2^+		–0.106	46.4(4) ps			100				
947.242(16)	4^+		–0.024	3.25(15) ps	91Ho07			100			
1029.34(2)	0^+	0.5			90Ve13		x	100			
1254.10(2)	2^+		0.015	3.7(10) ps	91Ho07		33(3)	67(3)	0.15(2)	0.25(3)	
1515.17(2)	0^+	0.06	0.010		90Ve13		x	100		x	
1570.28(2)	1^+						65(5)	27(1)		7.0(4)	0.78(5)
1573.67(2)	2^+						0.18(9)	99(5)	0.32(10)	0.23(4)	0.19(3)
1593.43(2)	2^+						1.0(7)	98(4)	0.29(9)	0.48(5)	x
1630.90(2)	1^+						8.6(12)	89(8)		0.37(6)	0.24(9)
1641.44(2)	2^+							88(8)	1.3(3)	6.6(5)	4.2(3)
1659.01(2)	4^+		0.051		91Ho07			70(4)	29(3)		1.3(2)
1706.74(10)	6^+		–0.017	0.70(6) ps	91Ho07				100		
1718.30(2)	1^+						48(3)	24(2)		18(1)	2.8(1)
1730.93(2)	2^+							59	9.8(8)	24(1)	6.1(4)
1734.34(2)	3^+							36(8)	52(4)		3.7(4)
1775.56(2)	3^+							11.3(10)	85(4)		2.0(3)
1845.77(2)	3^+							12.5(11)	51(4)		23(2)
1851.5(2)	5^-	≈0.08	0.036		90Ve13				100		
1856.78(2)	0^+						x	88(18)		x	1.6(4)
1882.86(2)	2^+							62(4)	0.9(6)		15(1)
1962.6(2)	7^-			<0.8 ns							

(continued) **$^{200}_{80}$Hg**

E^*	J^π	ε	β_L	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
					E_f^*:	0	368	947	1029	1254
[keV]		(p,t)	(p,p′)	Γ_{cm}	J_f^π:	0^+	2^+	4^+	0^+	2^+
1972.28(2)	2^+						92(7)			3.7(9)
1974.34(2)	$\langle 3\rangle^+$							56(17)		33(3)
2049.1(3)	$\langle 6\rangle^-$									
2061.26(2)	1^+						91(9)			1.58(11)
2074.33(2)	$\langle 2\rangle$						98(16)			
2114.35(2)	$\langle 3\rangle^+$						21(2)	38(11)		
2116.55(2)	0^+					x				
2126.86(2)	$\langle 1\rangle^+$						34(10)			≤4
2127.93(2)	$\langle 3\rangle^+$						11(6)	56(22)		≤17
2135.5(3)	$\langle 8\rangle^-$									
2143.8(2)	9^-			1.07(4) ns						
2151.4(4)	3^-		0.030		91Ho07		100			
2189.47(2)	1^+					57(12)	≤28			28(4)
2229.27(2)	1^+					2(1)	6(3)			58(5)
2238.5(2)	$\langle 3\rangle$						100			
2246.44(2)	$\langle 1,2\rangle^+$						≤25			28(4)
≈2250	$\langle 0^+\rangle$									
2274.23(2)	$1^+,2^+$					10(3)	68(11)			
2288.93(4)	$\langle 2^+\rangle$					4(2)	49(7)	32(13)		≈9
2296.34(3)	1^+					59(6)	12(3)		≈15	11(3)
2331.78(2)	$\langle 3^+\rangle$						48(14)	x		
2343.59(3)	$\langle 3\rangle^+$						98(20)			
2370.04(2)	1^+					3.9(8)	90(9)			
2377.1(3)	$\langle 6^-,7,8^-\rangle$									
2388.71(6)	$1^+,2^+,3^+$						90(18)			
2411.83(2)	$\langle 1^+\rangle$									100
2442.7(3)	1^-					100				
2461.83(4)	$1^{\langle+\rangle}$						100			
2491.43(2)	$\langle 1\rangle^+$						82(17)			
2522.1(3)	$\langle 10\rangle^-$									
2562(2)	0,1,2									
2590.80(14)	1^-					100				
2610(2)	3^-		0.071		91Ho07					
2639.93(2)	1^+					63(8)	37(6)			
2641.6(2)	11^-									
2679.8(3)	8^+			0.22(5) ps						
2691.58(4)										
2701.36(3)	$\langle 1^+,2^+\rangle$									
2763.09(2)	1^+									
2794.16(4)	$\langle 1^+,2^+\rangle$									
2837(4)	$\langle 1^-\rangle$		0.020		91Ho07					
2847.53(10)	1^-					100				
2853.05(14)	$\langle 1,2\rangle^+$					≈41	59(21)			
2862.3(5)	$\langle 1^+,2^+\rangle$									
2877.89(6)	1^+									

(continued) **$^{200}_{80}$Hg**

E^*	J^π	ε	β_L	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
					E_f^*:	0	368	947	1029	1254
[keV]		(p,t)	(p,p′)	Γ_{cm}	J_f^π:	0^+	2^+	4^+	0^+	2^+
2893.5(10)	$\langle 1^+ \rangle$									
2937.54(13)	$\langle 1 \rangle$									
2949(2)	$\langle 1^+,2^+ \rangle$									
2959.95(12)	1^-					100				
2978.21(3)	1^+					5.8(12)	5.9(12)			
3042(2)	$\langle 0,1,2 \rangle$									
3053.31(8)	1^+									36(11)
3063(2)	$\langle 0,1,2 \rangle$									
3073.82(4)	1^+					42(8)				
3105(3)	$1^{\langle + \rangle}$									
3123.0(5)	$\langle 12 \rangle^-$									
3181(2)	$\langle 1^+ \rangle$									
3186.34(4)	1^+					58(6)	23(2)			
3199(2)	$\langle 0,1,2 \rangle$									
3215.2(5)	$\langle 12 \rangle^+$									
3216.9(3)	$\langle 1^+,2^+ \rangle$									
3229.0(15)	$\langle 1^+ \rangle$									
3269.43(15)	1^+					25(5)	53(5)		11(3)	
3288.92(10)	1^+					55(7)	27(3)		10(2)	
3353.04(13)	1^+									
3402(2)	$\langle 1^+ \rangle$									
3414(2)	$\langle 0,1,2 \rangle$									
3452.97(8)	1^+									
3459(2)	$\langle 0,1,2 \rangle$									
3492.47(10)	1^+									
3512(2)	$\langle 0,1,2 \rangle$									
3536(2)	$\langle 0,1,2 \rangle$									
3555(2)	$\langle 0,1,2 \rangle$									
3570.5(15)	$\langle 1^+ \rangle$									
3611.6(3)	$\langle 14 \rangle^+$									
3643(2)	$\langle 1 \rangle$									
3655.06(5)	$1^{\langle + \rangle}$									
		90Ve13	91Ho07		Ref.					

Additional data on this isotope can be found in [97Kh0A, 96Va24, 90Ve13, 80Se05].
Abundance: 23.10(19) %.
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [95Sc23]. Part 2

$^{200}_{80}$Hg

E^*	J^π	Branching ratios in percentage									
	E_f^*:	1515	1570.28	1573.67	1593.43	1630.90	1641.44	1659.01	1706.74	1718.30	1730.93
[keV]	J_f^π:	0^+	1^+	2^+	2^+	1^+	2^+	4^+	6^+	1^+	2^+
1630.90(2)	1^+	1.9(7)									
1718.30(2)	1^+	1.2(1)	2.0(2)	≤2.3			4(1)				
1730.93(2)	2^+	0.19(5)	≤0.23		≈1.3						
1734.34(2)	3^+			≤1.1	8(3)						
1775.56(2)	3^+			0.7(3)	0.41(14)			0.8(3)			
1845.77(2)	3^+		1.2(2)	3(2)	8.0(6)			1.0(4)			
1856.78(2)	0^+	x	0.6(1)			5.8(4)				≈4	
1882.86(2)	2^+		0.6(1)	4.0(5)	7.9(6)	4.3(6)	0.5(1)			2.7(5)	1.9(4)
1962.6(2)	7^-								98(6)		
1972.28(2)	2^+			1.7(3)		1.6(2)	≈0.5	0.30(7)		0.30(9)	0.39(14)
1974.34(2)	$\langle 3\rangle^+$										10.7(8)
2049.1(3)	$\langle 6\rangle^-$								89(9)		
2061.26(2)	1^+	0.39(3)	0.64(4)	1.01(7)	0.91(5)	2.6(2)	1.01(6)			0.22(2)	0.061(9)
2074.33(2)	$\langle 2\rangle$										0.90(15)
2114.35(2)	$\langle 3\rangle^+$				10(3)	≈3					15(4)
2116.55(2)	0^+					39(3)	≤1.6			61	
2126.86(2)	$\langle 1\rangle^+$		21(2)	7(1)	3(1)	19(2)	6(1)	≤10		8(1)	0.4(1)
2127.93(2)	$\langle 3\rangle^+$				4(1)		2(1)	11(3)		3(1)	4(1)
2189.47(2)	1^+	3.6(11)		≤6	5.7(7)	≤2.0				1.9(3)	
2229.27(2)	1^+	2.8(5)	16(2)	3.4(5)	≤1.5	7.1(6)	2.9(4)				
2246.44(2)	$\langle 1,2\rangle^+$		54(4)		≤4.4	17(4)					
2274.23(2)	$1^+,2^+$	4.1(7)	≤15	3.3(12)		7.5(9)	2.3(5)				
2288.93(4)	$\langle 2^+\rangle$		4(1)		≈2						
2296.34(3)	1^+	≤2		≈1.2						1.2(4)	
2331.78(2)	$\langle 3^+\rangle$		≤11		≤5		11(3)			5(1)	7(1)
2370.04(2)	1^+		0.66(20)	1.95(16)		0.48(15)	0.94(9)	0.24(11)		0.22(7)	0.9(8)
2388.71(6)	$1^+,2^+,3^+$		≤16				10(2)				
2491.43(2)	$\langle 1\rangle^+$			15(4)							
2679.8(3)	8^+								100		
2978.21(3)	1^+	3.7(12)	63(8)								
3053.31(8)	1^+										38(10)
3073.82(4)	1^+		54(11)								
3186.34(4)	1^+									18(3)	
3269.43(15)	1^+				11(3)						
3288.92(10)	1^+					2.4(9)	3.2(10)				

Energy levels and branching ratios [95Sc23]. Part 3 **$^{200}_{80}$Hg**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	1734.34	1775.56	1845.77	1851.5	1856.78	1882.86	1962.6	1972.28	1974.34	2049.1
[keV]		J_f^π:	3^+	3^+	3^+	5^-	0^+	2^+	7^-	2^+	$\langle 3\rangle^+$	$\langle 6\rangle^-$
1882.86(2)	2^+		≤1.2									
1962.6(2)	7^-					2.3(3)						
2049.1(3)	$\langle 6\rangle^-$					11(3)						
2061.26(2)	1^+						0.127(13)					
2074.33(2)	$\langle 2\rangle$		1.16(15)									
2114.35(2)	$\langle 3\rangle^+$		4(1)	10(3)								
2126.86(2)	$\langle 1\rangle^+$		0.7(1)	≤2	≤1							
2127.93(2)	$\langle 3\rangle^+$			8(1)								
2135.5(3)	$\langle 8\rangle^-$								96(8)			4(2)
2143.8(2)	9^-								100			
2189.47(2)	1^+		1.5(2)				0.7(2)	2.4(2)				
2229.27(2)	1^+			≤0.8				2.0(2)				
2246.44(2)	$\langle 1,2\rangle^+$							0.9(3)			≤7	
2274.23(2)	$1^+,2^+$			2.2(3)	1.6(2)					≤0.9	1.1(2)	
2296.34(3)	1^+						≤0.5					
2331.78(2)	$\langle 3^+\rangle$		6(1)				≤1.3	20(1)		1.3(3)		
2343.59(3)	$\langle 3\rangle^+$			≤3.2	≤22			2.2(6)				
2370.04(2)	1^+							0.61(7)		0.34(4)		
2377.1(3)	$\langle 6^-,7,8^-\rangle$								50(10)			30(10)
2491.43(2)	$\langle 1\rangle^+$										2.9(8)	
3053.31(8)	1^+		21(7)									

Energy levels and branching ratios [95Sc23]. Part 4 **$^{200}_{80}$Hg**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	2061.26	2116.55	2126.86	2127.93	2135.5	2143.8	2229.27	2288.93	2296.34	2343.59
[keV]		J_f^π:	1^+	0^+	$\langle 1\rangle^+$	$\langle 3\rangle^+$	$\langle 8\rangle^-$	9^-	1^+	$\langle 2^+\rangle$	1^+	$\langle 3\rangle^+$
2331.78(2)	$\langle 3^+\rangle$		1.3(2)			1.1(3)						
2370.04(2)	1^+		0.16(2)									
2377.1(3)	$\langle 6^-,7,8^-\rangle$						20(10)					
2522.1(3)	$\langle 10\rangle^-$						84(8)	16(3)				
2641.6(2)	11^-							100				
2978.21(3)	1^+			1.9(4)	18(1)				0.9(2)		0.8(2)	
3053.31(8)	1^+								5(2)			
3073.82(4)	1^+									≈2.0		
3288.92(10)	1^+			1.7(7)								1.0(3)

Energy levels and branching ratios [95Sc23]. Part 5

$^{200}_{80}$Hg

E^*	J^π	Branching ratios in percentage						
	E_f^*:	2370.04	2388.71	2461.83	2522.1	2641.6	2763.09	3215.2
[keV]	J_f^π:	1^+		$1^{\langle+\rangle}$	$\langle10\rangle^-$	11^-	1^+	$\langle12\rangle^+$
2978.21(3)	1^+	0.4(1)		0.53(8)				
3073.82(4)	1^+		1.7(5)					
3123.0(5)	$\langle12\rangle^-$				0			
3186.34(4)	1^+			0.4(1)			0.33(5)	
3215.2(5)	$\langle12\rangle^+$					100		
3611.6(3)	$\langle14\rangle^+$							100

Energy levels and branching ratios [94Ra12].

$^{201}_{80}$Hg

E^*	$2J^\pi$	L	σ (d,p)	S_N	σ (d,t)	S_N	σ (d,d′)	$T_{1/2}$ or	Ref.
[keV]		(d,p)	μb/sr	(d,p)	μb/sr	(d,t)	μb/sr	Γ_{cm}	
0	3^-	⟨1⟩	1200	0.37	2900	2.1	18600	Stable	72Mo12
1.556(15)	1^-		incl						72Mo12
26.269(20)	5^-	3	540	0.32	1500	1.7		630(50) ps	72Mo12
32.138(16)	3^-	1	incl	0.18	incl	0.87	≈48	≈0.1 ns	72Mo12
167.45(3)	1^-	⟨1⟩	550	0.38	1900	1.6	23	26(22) ps	72Mo12
384.60(2)	5^-						51		72Mo12
414.52(2)	7^-		40				124	21.3(10) ps	72Mo12
464.41(3)	5^-	⟨3⟩	120	0.10	300	1.2	152	2.6(9) ps	72Mo12
543.3(3)	1^-–5^-		550						72Mo12
547.32(11)	9^-		incl					<20 ns	
553.04(4)	1^-–5^-		incl					≤15 ps	
645.3(3)	$\langle5\rangle^-$				300	1.4			72Mo12
732.3(4)	$\langle3\rangle^-$		80		950	0.92			72Mo12
766.22(15)	13^+				300			94(3) μs	72Mo12
953(4)					50				72Mo12
1035(5)	$\langle3\rangle^-$				300	0.25			72Mo12
1075(4)					50				72Mo12
1188.3(4)									
1287(5)	$\langle7\rangle^-$	⟨3⟩	230	0.11	300	1.2	19		72Mo12
1336(5)			80						72Mo12
1360(5)			120		30				72Mo12
1505(6)							17		72Mo12
1583(6)					90				72Mo12
1591(7)					120				72Mo12
1693(7)	$\langle7\rangle^-$				420	2.1			72Mo12
1710(7)	$\langle7^-\rangle$				190	0.96	10		72Mo12
1737(7)	$\langle3\rangle^-$				110	0.23			72Mo12
1946(8)	$\langle9^+\rangle$	⟨4⟩	190	0.05					72Mo12
1971(8)	$\langle3^-\rangle$				50	0.11			72Mo12
2037(8)	$\langle7^-\rangle$				40	0.28			72Mo12

(continued) **$^{201}_{80}$Hg**

E^* [keV]	$2J^\pi$	L (d,p)	σ (d,p) μb/sr	S_N (d,p)	σ (d,t) μb/sr	S_N (d,t)	σ (d,d′) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.
2081(8)	$\langle 9^+ \rangle$	$\langle 4 \rangle$	280	0.08					72Mo12
2096(8)	$\langle 7^- \rangle$				54	0.35			72Mo12
2103(8)	$\langle 9 \rangle^+$	4	1000	0.25					72Mo12
2478					20				72Mo12
2526							20		72Mo12
2628	$\langle 9 \rangle^+$	4	250	0.06			42		72Mo12
2663			50		10				72Mo12
2681							17		72Mo12
2795(11)	$\langle 9^+ \rangle$	$\langle 4 \rangle$	250	0.10					72Mo12
2863(11)			100						72Mo12
2890(11)			80				[9]		72Mo12
2911(12)			140						72Mo12
2938(12)			100						72Mo12
2976(12)	$\langle 9^+ \rangle$	$\langle 4 \rangle$	300	0.08					72Mo12
2995(12)	$\langle 9^+ \rangle$	$\langle 4 \rangle$	300	0.06					72Mo12
3115(12)	$\langle 5^+ \rangle$	$\langle 2 \rangle$	220	0.03					72Mo12
3172(13)			200						72Mo12
3196(13)			240						72Mo12
3233(13)			180						72Mo12
3252(13)			100						72Mo12
3270(13)			120						72Mo12
3294	$\langle 5^+ \rangle$	$\langle 2,4 \rangle$	700	0.07					72Mo12
3539(14)	$\langle 5^+ \rangle$	$\langle 2,4 \rangle$	400	0.05					72Mo12
3579(14)			150						72Mo12
3712(15)			140						72Mo12
3735							15		72Mo12
3768(15)			200						72Mo12
3814(15)	$\langle 9^+ \rangle$	$\langle 4,2 \rangle$	300	0.05					72Mo12
3837(15)	$\langle 5^+ \rangle$	$\langle 2,6 \rangle$	150	0.02					72Mo12
3870(15)			130						72Mo12
3884(15)			200						72Mo12
3900(16)			180						72Mo12
3921			200						72Mo12
3965							22		72Mo12
4007(16)	$\langle 5^+ \rangle$	$\langle 2,6 \rangle$	170	0.02					72Mo12
4070(16)			500						72Mo12
4095(16)			230						72Mo12
4123(16)			180						72Mo12
4233(17)			320						72Mo12
4284(17)	$\langle 3^+ \rangle$	$\langle 2,4 \rangle$	840	0.13					72Mo12
4313(17)	$\langle 3^+ \rangle$		1200	0.21					72Mo12
4362(17)	$\langle 7^+ \rangle$	$\langle 4,0 \rangle$	250	0.08					72Mo12
4381(17)			180						72Mo12
4405(18)			100						72Mo12
4418			90						72Mo12

(continued) **$^{201}_{80}$Hg**

E^* [keV]	$2J^\pi$	L (d,p)	σ (d,p) μb/sr	S_N (d,p)	σ (d,t) μb/sr	S_N (d,t)	σ (d,d′) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.
4467			140						72Mo12
4484(18)			180						72Mo12
4579(18)			150						72Mo12
4591(18)	$\langle 7^+ \rangle$	$\langle 4,2 \rangle$	100	0.03					72Mo12
4649(19)	$\langle 7^+ \rangle$	$\langle 4,2 \rangle$	120	0.04					72Mo12

Additional data on this isotope can be found in [90Lo17].
Abundance: 13.18(9) %.
Comparison of positions of $13/2^+$ states in ^{199,201,203,205}Hg was performed in [90Lo17].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [94Ra12]. Part 2 **$^{201}_{80}$Hg**

E^*	$2J^\pi$		Branching ratios in percentage						
		E_f^*:	0	1.5	26.2	32.1	167	543	547
[keV]		$2J_f^\pi$:	3^-	1^-	5^-	3^-	1^-		9^-
1.556(15)	1^-		100						
26.269(20)	5^-		100						
32.138(16)	3^-		50.5(10)	49.5(10)	x				
167.45(3)	1^-		79	1.22(4)	≈0.05	20.17(14)			
384.60(2)	5^-		33.9(6)		23.3(4)	43(1)			
414.52(2)	7^-		37(1)		32.9(5)	30.4(5)			
464.41(3)	5^-		23(1)		73(2)	4.2(2)			
543.3(3)	1^-–5^-		59		41(4)				
547.32(11)	9^-				100				
553.04(4)	1^-–5^-		33(2)		30(2)	22(6)	≈14		
645.3(3)	$\langle 5 \rangle^-$		<50			100			
732.3(4)	$\langle 3 \rangle^-$		100						
766.22(15)	13^+								100
1188.3(4)								100	

Energy levels and branching ratios [97Sc07]. **$^{202}_{80}$Hg**

E^*	J^π	β_L	L	ε	σ (p,t)	σ (d,d′)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
									E_f^*: 0	439	960	1120	1182
[keV]		(p,p′)	(p,t)	(p,t)	μb/sr	μb/sr	Γ_{cm}		J_f^π: 0^+	2^+	2^+	4^+	2^+
0	0^+		0	2.45	786		Stable	90Ve13					
439.562(10)	2^+	–0.09	2		242	826	27.3(3) ps	91Ho07	100				
959.94(5)	2^+	0.012	2		27.0		58(17) ps	91Ho07	11.8(7)	88(3)			
1119.86(10)	4^+	–0.04			13.2		2.04(7) ps	91Ho07		100			

(continued)

$^{202}_{80}$Hg

E^*	J^π	β_L	L	ε	σ (p,t)	σ (d,d′)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
									E_f^*:	0	439	960	1120	1182
[keV]		(p,p′)	(p,t)	(p,t)	μb/sr	μb/sr	Γ_{cm}		J_f^π:	0^+	2^+	2^+	4^+	2^+
1182.25(6)	2^+				≤5			78El10		<5	32(7)	68(7)		
1311.57(7)	4^+	0.040	4		122			91Ho07			31(2)	58(6)		12(2)
1347.97(7)	$\langle 1^+,2^+\rangle$				≤5	111		72Mo12			66(7)	34(3)		
1389.65(8)	2^+				≤5			78El10		8(1)	69(6)	17(3)		6(1)
1411.44(12)	0^+		0	0.07	16.6			90Ve13			100			
1457(2)	$\langle 1,2\rangle$													
1524.0(10)	$\langle 1,2\rangle$													
1561.97(9)	3^+										≈3	35(6)	≈14	23(5)
1564.83(8)	$\langle 0^+\rangle$		0	=0.05				90Ve13			100			
1575.41(10)	$2^{\langle +\rangle}$				20.3			78El10			30(9)	38(6)	≤24	<17
1624.04(10)	$\langle 3\rangle$										49(9)			
1643.67(10)	0^+	0.009	0	0.17	45.5			90Ve13			100			
1678.41(9)	$\langle 1,2\rangle$				≤5			78El10			51(5)	23(4)		7(3)
1724.83(11)	$\langle 4^+\rangle$													79(8)
1746.14(8)	$\langle 1,2^+\rangle$				≤10			78El10		2.6(8)	81(2)	16(2)		
1788.41(25)	$\langle 2^+\rangle$									[100]				
1794.08(10)	2^+		2		62.1			78El10		2.7(15)	97(10)			≤3
1801(2)	$\langle 1,2\rangle$													
1823.45(9)	$1^+,2^+$				9.9			78El10		5(1)	59(12)	25(2)		8.7(9)
1852.11(10)	$\langle 1^+,2^+\rangle$				≤5			78El10		<36	78(8)	14(2)	≈3	
1861.60(12)	$\langle 2^+\rangle$				≤5			78El10						
1900.9(9)	0^+		0	=0.01				90Ve13						
1959.45(19)	$\langle 1,2^+\rangle$									37(9)	47(16)	16(4)		
1965.57(21)	5^-	0.033			19.1			91Ho07					≈17	
1966.29(9)	$\langle 2^+\rangle$				incl						67(7)			5(2)
1988.61(18)	6^+						0.65(6) ps						100	
1991.4(17)														
2071.27(10)	$\langle 2^+\rangle$		2		44.9			90Ve13			100			
2126.51(13)	2^+				7.8			78El10			69(7)	12(2)		12(3)
2133.86(14)	$\langle 2^+\rangle$												100	
2142.0(17)														
2161.77(20)	$\langle 1,2\rangle$										100			
2221.7(12)	$\langle 1,2\rangle$													
2249.53(23)	$\langle 2^+\rangle$													
2280.29(13)	$\langle 1^+,2^+\rangle$										40(4)	21(8)		27(1)
2283(2)														
2292.2(3)	$\langle \geq 3\rangle$													
2293.21(15)	$\langle 3\rangle$										40(13)			
2309.4(3)	$\langle 3\rangle$										100			
2323.27(10)											100			
2340.2(19)	$\langle 2^+\rangle$													
2356.95(18)	3^-	0.031						91Ho07			54(15)	46(14)		
2366.9(19)	$\langle 1,2\rangle$													
2416.9(11)	$\langle 1,2\rangle$													
2428.0(8)	$\langle 1,2\rangle$													

(continued)

$^{202}_{80}$Hg

E^* [keV]	J^π	β_L (p,p′)	L (p,t)	ε (p,t)	σ (p,t) μb/sr	σ (d,d′) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage E_f^*: 0 439 960 1120 1182 J_f^π: 0^+ 2^+ 2^+ 4^+ 2^+
2456.3(14)	⟨1,2⟩								
2468(2)	⟨1^-,2^+⟩								
2516.5(3)	⟨1,2⟩								100
2523(4)									
≈2533	⟨1^-⟩								
2550.3(14)									
2564(4)	⟨4^+⟩								
2567.6(8)	⟨1,2⟩								
2610(4)									
2704.8(25)	⟨0,1,2⟩								
2709(3)	3^-	0.090						91Ho07	
2728.1(25)									
2751.1(6)	⟨1,2⟩								
2830(4)									
2845.0(16)	⟨1,2⟩								
2858(2)	⟨1,2⟩								
2908.4(14)	⟨1,2⟩								
2918(2)									
2950.2(18)	⟨1,2⟩								
2970.0(10)									
2997.4(7)	⟨1,2⟩								
3017.4(5)									
3027(3)									
3058.3(22)	⟨1,2⟩								
3059(4)	5^-	0.021						91Ho07	
3079.7(20)	⟨1,2⟩								
3118(4)									
3166(4)	3^-	0.024						91Ho07	
3198.6(14)	⟨1,2⟩								
3264(4)									
3299(5)									
3349.9(13)	⟨1,2⟩								
3415(3)									
4922(3)	1^-						0.30(5) eV		100
5648(5)	⟨1^-⟩								
		91Ho07		90Ve13	78El10			Ref.	

Additional data on this isotope can be found in [78El10].
Abundance: 29.86(26) %.
Data for this isotope are considered in vol. LB I/18C.

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

$^{202}_{80}$Hg

E^*	J^π		Branching ratios in percentage									
		E_f^*:	1311.57	1347.97	1389.65	1411.44	1561.97	1564.83	1575.41	1624.04	1678.41	1724.83
[keV]		J_f^π:	4^+	$\langle 1^+,2^+\rangle$	2^+	0^+	3^+	$\langle 0^+\rangle$	$2^{\langle +\rangle}$	$\langle 3\rangle$	$\langle 1,2\rangle$	$\langle 4^+\rangle$
1561.97(9)	3^+		13(4)		11(5)							
1575.41(10)	$2^{\langle +\rangle}$			20(5)	≥12							
1624.04(10)	$\langle 3\rangle$		51(8)									
1678.41(9)	$\langle 1,2\rangle$				≈19							
1724.83(11)	$\langle 4^+\rangle$		21(6)									
1788.41(25)	$\langle 2^+\rangle$		≤100									
1823.45(9)	$1^+,2^+$			≤7	≈3				≥1.2			
1852.11(10)	$\langle 1^+,2^+\rangle$		5(2)								≥2.2	
1861.60(12)	$\langle 2^+\rangle$				[100]							
1959.45(19)	$\langle 1,2^+\rangle$			≤19								
1965.57(21)	5^-		83(8)									
1966.29(9)	$\langle 2^+\rangle$		≈5.2			21(5)		≈1.7				
2126.51(13)	2^+						≤9		≤18			
2249.53(23)	$\langle 2^+\rangle$											100
2280.29(13)	$\langle 1^+,2^+\rangle$						11(2)				<10	
2292.2(3)	$\langle \geq 3\rangle$				100							
2293.21(15)	$\langle 3\rangle$									60(16)		
2340.2(19)	$\langle 2^+\rangle$			100								

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

$^{202}_{80}$Hg

E^*	J^π		Branching ratios in percentage					
		E_f^*:	1746.14	1794.08	1823.45	1852.11	1861.60	1959.45
[keV]		J_f^π:	$\langle 1,2^+\rangle$	2^+	$1^+,2^+$	$\langle 1^+,2^+\rangle$	$\langle 2^+\rangle$	$\langle 1,2^+\rangle$
1823.45(9)	$1^+,2^+$		≥2.1					
1966.29(9)	$\langle 2^+\rangle$					≥0.9	≥3.9	
2126.51(13)	2^+		≈7					
2280.29(13)	$\langle 1^+,2^+\rangle$			1.2(4)	≤4			≥2

Energy levels and branching ratios [93Ra11].

$^{203}_{80}$Hg

E^*	$2J^\pi$	L	σ (d,p)	S_N	σ (d,t)	S_N	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
									E_f^*:	0	7.5	50.5	548.7	591.5
[keV]		(d,p)	μb/sr	(d,p)	μb/sr	(d,t)	Γ_{cm}		$2J_f^\pi$:	5^-	$\langle 1\rangle^-$	$\langle 3\rangle^-$	$\langle 5\rangle^-$	$\langle 9^-\rangle$
0	5^-	3	670	0.2*	4800	0.8*	46.612(18) d	72Mo12						
7.5	$\langle 1\rangle^-$	$\langle 1\rangle$	incl	0.34		3.2		72Mo12						
50.5	$\langle 3\rangle^-$	$\langle 1\rangle$	415	0.12	2600	1.8		72Mo12						
225.2	$\langle 3\rangle^-$	$\langle 1\rangle$	580	0.16	3000	2.1		72Mo12			100			
368.9(3)	X^-				53			72Mo12		≈44		56(11)		

(continued)

$^{203}_{80}$Hg

E^* [keV]	$2J^\pi$	L (d,p)	σ (d,p) μb/sr	S_N (d,p)	σ (d,t) μb/sr	S_N (d,t)	$T_{1/2}$ or Γ_{cm}	Ref.	E_f^*: $2J_f^\pi$:	Branching ratios in percentage 0 5^-	7.5 $\langle 1\rangle^-$	50.5 $\langle 3\rangle^-$	548.7 $\langle 5\rangle^-$	591.5 $\langle 9^-\rangle$
548.7(5)	$\langle 5\rangle^-$	$\langle 3\rangle$	110	0.06	700	2.1		72Mo12		56(11)	27(6)	17(3)		
591.5(15)	$\langle 9^-\rangle$									100				
≈690										x				
748(10)	$\langle 5\rangle^-$	$\langle 3\rangle$	115		200	0.42		72Mo12						
755.5													100	
766(10)	$\langle 3^-\rangle$	$\langle 1\rangle$	110	0.04	240	0.17		72Mo12						
933.1(10)	13^+	$\langle 6\rangle$			350	12	24(4) u	72Mo12						100
1025(15)					200			72Mo12						
1043(10)	$\langle 3\rangle^-$	$\langle 1\rangle$			900	1.0		72Mo12						
1118(1)					40			72Mo12					81(16)	
1329					36			72Mo12						
1344		$\langle 1\rangle$	240	0.06				72Mo12						
1375					14			72Mo12						
1465	$\langle 7\rangle^-$	$\langle 3\rangle$			130	0.44		72Mo12						
1488			50					72Mo12						
1582			125					72Mo12						
1642	$\langle 7\rangle^-$	$\langle 3\rangle$			110	0.44		72Mo12						
1756	$\langle 7\rangle^-$	$\langle 3\rangle$	30		680	3.3		72Mo12						
1763	$\langle 7\rangle^-$	$\langle 3\rangle$			incl			72Mo12						
1825					60			72Mo12						
1836	$\langle 7^-\rangle$	$\langle 3\rangle$	20		50			72Mo12						
1944					60			72Mo12						
1984					40			72Mo12						
2007					29			72Mo12						
2032	$\langle 9\rangle^+$	$\langle 4\rangle$	1200	0.39	40			72Mo12						
2111	$\langle 7\rangle^-$	$\langle 3\rangle$			210			72Mo12						
2121	$\langle 9^+\rangle$	$\langle 4\rangle$	830	0.21				72Mo12						
2206					40			72Mo12						
2226					51			72Mo12						
2367			100		34			72Mo12						
2451					30			72Mo12						
2612					34			72Mo12						
2639			25					72Mo12						
2695	$\langle 5^+\rangle$	$\langle 2\rangle$	380					72Mo12						
2713	$\langle 5^+\rangle$	$\langle 2\rangle$	260					72Mo12						
2759	$\langle 9^+\rangle$		630					72Mo12						
2974	$\langle 5^+\rangle$	$\langle 2\rangle$	560					72Mo12						
3017			100					72Mo12						
3054	$\langle 5^+\rangle$	$\langle 2\rangle$	750					72Mo12						
3097			150					72Mo12						
3139			340					72Mo12						
3155			290					72Mo12						
3220			130					72Mo12						
3271	$\langle 9^+\rangle$	$\langle 4\rangle$	570					72Mo12						
3305	$\langle 9^+\rangle$	$\langle 4\rangle$	850					72Mo12						

(continued) **$^{203}_{80}$Hg**

E^* [keV]	$2J^\pi$	L (d,p)	σ (d,p) μb/sr	S_N (d,p)	σ (d,t) μb/sr	S_N (d,t)	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage E_f^*: 0 7.5 50.5 548.7 591.5 $2J_f^\pi$: 5^- $\langle 1\rangle^-$ $\langle 3\rangle^-$ $\langle 5\rangle^-$ $\langle 9^-\rangle$
3358			230					72Mo12	
3515			120					72Mo12	
3539			220					72Mo12	
3586			100					72Mo12	
3613			150					72Mo12	
3632		0+2	450					72Mo12	
3642			incl					72Mo12	
3673			140					72Mo12	
3706			220					72Mo12	
3756			110					72Mo12	
3776			190					72Mo12	
3812	$\langle 5^+\rangle$	$\langle 2\rangle$	710	0.08				72Mo12	
3841	$\langle 5^+\rangle$	$\langle 2\rangle$	300	0.04				72Mo12	
3863			180					72Mo12	
3881			190					72Mo12	
3932			200					72Mo12	
3946	$\langle 5\rangle^+$	$\langle 2\rangle$	500	0.05				72Mo12	
3959			220					72Mo12	
3989	$\langle 5^+\rangle$	$\langle 2\rangle$	630	0.07				72Mo12	
4006			230					72Mo12	
4030			290					72Mo12	
4087	$\langle 1^+\rangle$	$\langle 0\rangle$	1000	0.29				72Mo12	
4192			190					72Mo12	
4225			150					72Mo12	
4284	$\langle 3^+\rangle$	$\langle 2\rangle$	860	0.14				72Mo12	
4317	$\langle 3^+\rangle$	$\langle 2\rangle$	2300	0.33				72Mo12	
4348			200					72Mo12	
4453			240					72Mo12	
4488			100					72Mo12	

* Considered in [72Mo12] as doublets with inputs $0.42p_{1/2}+0.58f_{5/2}$ and $0.80p_{1/2}+0.20f_{5/2}$.

Energy levels and branching ratios [93Ra11]. Part 2 **$^{203}_{80}$Hg**

E^* [keV]	$2J^\pi$	E_f^*: $2J_f^\pi$:	Branching ratios in percentage 755.5	933.1 $\langle 13^+\rangle$	1117.9
1118(1)			19(3)		
1488				x	100

Energy levels and branching ratios [94Sc24].

$^{204}_{80}$Hg

E^*	J^π	σ (d,d′)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
				E_f^*:	0	436	1128	1829	1841
[keV]		μb/sr	Γ_{cm}	J_f^π:	0^+	2^+	4^+	$\langle 2\rangle$	$1^+,2^+$
0	0^+		Stable						
436.552(8)	2^+	720	40.4(4) ps	72Mo12	100				
1128.35(8)	4^+	107	2.9(2) ps	72Mo12		100			
1635.76(10)	0^+					100			
1716.76(10)	$\langle 2\rangle$					100			
1828.76(10)	$\langle 2\rangle$					100			
1841.42(7)	$1^+,2^+$	52		72Mo12	41(2)	59(3)			
1851.35(9)	$\langle 2^+\rangle$	incl			≤0.8	28.2(9)	72(2)		
1947.68(9)	$1^+,2^+$				5.0(4)	95(3)			
1989.34(10)	$\langle 2^+,3^-\rangle$					100			
2088.61(10)	$\langle 1,2^+\rangle$				100				
2094.46(20)	$3^{\langle -\rangle},4^{\langle +\rangle}$					100			
2117.39(9)	$\langle 2\rangle^+$				29(6)	71(6)			
2131.26(20)						100			
2140.84(10)	$\langle 1,2,3\rangle$					100			
2191.05(13)	6^+		0.30(4) ps				100		
2236.05(22)							100		
2263.00(13)	5^-						100		
2264.06(20)	1,2,3					100			
2295.66(10)						100			
2300.35(13)	$\langle 2^+\rangle$					17(5)	83(9)		
2300.70(17)	7^-		6.7(5) ns						
2359(5)									
2385.9(4)	$1^{\langle +\rangle},2^+$				100				
2395.92(25)	$\langle 2^+,3^-\rangle$					≤10			100
2465.46(20)	$\langle 1–3\rangle^+$					100			
2514.55(22)							100		
2568.95(13)							100		
2628.26(10)						100			
2675.33(18)	3^-					56(11)	44(9)		
2724.05(24)	≥5								
2726.7(3)	$\langle 2^+,3\rangle$						55(10)	45(28)	
2760.60(24)	≥3								
2812.83(24)	3^-					100			
2866(4)									
2925(37)									
3021(4)	4^+								
3112(4)	$\langle 4^+\rangle$								
3190(15)	$2^+,3^+$								
3227(4)	$\langle 5^-\rangle$								
3315(4)	3^-								
3364(4)	5^-								
3417(4)									
3439(4)									
3496(5)									

(continued) **$^{204}_{80}$Hg**

E^*	J^π	σ (d,d′)	$T_{1/2}$ orRef.	Branching ratios in percentage					
				E_f^*:	0	436	1128	1829	1841
[keV]		μb/sr	Γ_{cm}	J_f^π:	0^+	2^+	4^+	$\langle 2\rangle$	1^+,2^+
3528(6)									
3585(4)									
3618(6)									
3664(9)									
3697(5)									
3712(7)									
3750(4)									
3779(4)									
3833(8)									
3869(7)									
3923(9)									
3954(10)									
4113(5)	4^+								
4164(5)									
4225(6)									
4262(5)									
4321(6)									
4356(6)									
4406(6)									

Abundance: 6.87(15) %.
Inelastic scattering was measured at 75° [72Mo12].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [94Sc24]. Part 2 **$^{204}_{80}$Hg**

E^*	J^π		Branching ratios in percentage			
		E_f^*:	2191.05	2263.00	2264.06	2300.35
[keV]		J_f^π:	6^+	5^-	1,2,3	$\langle 2^+\rangle$
2300.70(17)	7^-		100			
2724.05(24)	≥ 5				≈20	80(16)
2760.60(24)	≥ 3		≈23	77(15)		

Energy levels and branching ratios [04Ko28, 93Ra10]. **$^{205}_{80}$Hg**

E^*	$2J^\pi$	L	S_N	σ (d,p)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
							E_f^*:	0.0	379.5	467.5	1346	1395
[keV]			(d,p)	μb/sr	Γ_{cm}		$2J_f^\pi$:	1^-	$\langle 5^-\rangle$	$\langle 3^-\rangle$	$\langle 7^-\rangle$	$\langle 9^-\rangle$
0.0	1^-	1	0.55	890	5.14(9) m	72Mo12						
379.48(11)	$\langle 5^-\rangle$	$\langle 1,3\rangle$	0.06+0.14	190		72Mo12		100				

(continued)

$^{205}_{80}$Hg

E^* [keV]	$2J^\pi$	L	S_N (d,p)	σ (d,p) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage				
							E_f^*:	0.0	379.5	467.5	1346	1395
							$2J_f^\pi$:	1^-	$\langle 5^- \rangle$	$\langle 3^- \rangle$	$\langle 7^- \rangle$	$\langle 9^- \rangle$
467.51(11)	$\langle 3^- \rangle$	3+$\langle 1 \rangle$	0.33+0.15	615		72Mo12		100				
1280.6(3)	$\langle 3^+ \rangle$							32(2)	15(3)	52(3)		
1325.1(4)	$\langle 3^+ \rangle$							24(2)	76(4)	<2		
1346.1(1)	$\langle 7^- \rangle$			100		72Mo12			94(19)	6.0(12)		
1395.1(2)	$\langle 9^- \rangle$								31.6(3)		68(3)	
1447.2(6)	$\langle 3,5 \rangle$								100			
1556.5(2)	$\langle 13^+ \rangle$				1.10(4) m							100
1847.4(2)	$\langle 9 \rangle^+$	4	0.50	200		72Mo12					89	
2011.6(2)												
2337(9)				100		72Mo12						
2540(10)				150		72Mo12						
2566(10)	$\langle 9^+ \rangle$	$\langle 4 \rangle$	0.07	300		72Mo12						
2591(10)	$\langle 9 \rangle^+$	4	0.17	690		72Mo12						
2668(11)				200		72Mo12						
2920(12)	$\langle 5 \rangle^+$	2+$\langle 4 \rangle$	0.10+0.18	1000		72Mo12						
2956(12)	$\langle 5^+ \rangle$	2+$\langle 4 \rangle$	0.20+0.33	1900		72Mo12						
3026(12)				100		72Mo12						
3070(12)				80		72Mo12						
3095(12)				140		72Mo12						
3163(13)				220		72Mo12						
3187(13)				120		72Mo12						
3332(13)	$\langle 5^+ \rangle$	$\langle 2 \rangle$	0.02	180		72Mo12						
3366(13)				100		72Mo12						
3488(14)	$\langle 5^+ \rangle$	$\langle 2 \rangle$	0.01	140		72Mo12						
3593(14)	$\langle 5 \rangle^+$	2	0.46	4600		72Mo12						
3693(15)				400		72Mo12						
3720(15)				170		72Mo12						
3838(15)	1^+	0	0.28	1100		72Mo12						
3912(16)				210		72Mo12						
3942(16)				190		72Mo12						
3989(16)				270		72Mo12						
4022(16)				180		72Mo12						
4037(16)	1^+	0	0.29	1050		72Mo12						
4101(16)				300		72Mo12						
4140(17)	$\langle 3 \rangle^+$	2,$\langle 4 \rangle$	0.34,0.61	2400		72Mo12						
4170(17)	X^+	2,4	0.12,0.18	770		72Mo12						
4198(17)	$\langle 3 \rangle^+$	2,$\langle 4 \rangle$	0.19,0.32	1270		72Mo12						
4238(17)				240		72Mo12						
4313(17)				280		72Mo12						
4375(17)	$\langle 3 \rangle^+$			440		72Mo12						
4436(18)	X^+	2,4	0.16,0.26	990		72Mo12						
4453(18)	$\langle 3 \rangle^+$	2,$\langle 4 \rangle$	0.15,0.25	800		72Mo12						
4475(18)	X^+	4,2	0.15,0.09	560		72Mo12						
4507(18)				240		72Mo12						
4551(18)				200		72Mo12						

(continued) **$^{205}_{80}$Hg**

E^* [keV]	$2J^\pi$	L	S_N (d,p)	σ (d,p) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage E_f^*: $2J_f^\pi$:	0.0 1^-	379.5 $\langle 5^- \rangle$	467.5 $\langle 3^- \rangle$	1346 $\langle 7^- \rangle$	1395 $\langle 9^- \rangle$
4627(18)	X^+	4,2	0.15,0.09	530		72Mo12						
4660(19)				70		72Mo12						
4725(19)				120		72Mo12						
4779(19)				180		72Mo12						
4915(20)				150		72Mo12						
4978(20)				100		72Mo12						
4994(20)				150		72Mo12						
		72Mo12	72Mo12	72Mo12		Ref.						

Energy levels and branching ratios [04Ko28, 93Ra10]. Part 2 **$^{205}_{80}$Hg**

E^* [keV]	$2J^\pi$	E_f^*: $2J_f^\pi$:	Branching ratios in percentage 1556.53 $\langle 13^+ \rangle$	1847.39 $\langle 9 \rangle^+$
1847.4(2)	$\langle 9 \rangle^+$		11.2(23)	
2011.6(2)			33	≈67

Energy levels and branching ratios [99Br39]. **$^{206}_{80}$Hg**

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage E_f^*: J_f^π:	0.0 0^+	1068.54 2^+
0.0	0^+	8.15(10) m				
1068.54(10)	2^+	<21 ns			100	
2102.6(2)	5^-	2.15(21) μs				100
2466	$\langle 7^- \rangle$		01Ma26			
3623	$\langle 8^+ \rangle$		01Ma26			
3625	0^+					
3723	$\langle 10^+ \rangle$	92(8) ns	01Ma26			
4606	$\langle 10^+ \rangle$		01Ma26			
4987	$\langle 11^+ \rangle$		01Ma26			
5643	$\langle 12^+ \rangle$		01Ma26			
6067	$\langle 13^- \rangle$		01Ma26			

Additional data on this isotope can be found in [04Br19, 01Fo08, 01Br35, 01La09].