

Energy levels and branching ratios [05De52, 93De15].

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E^* [keV]	$2J^\pi$	L	C^2S (τ, d)	σ (τ, d) $\mu b/sr$	L (p, t)	σ (p, t) $\mu b/sr$	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage					
									E_f^* : $2J_f^\pi$:	0.0 1 ⁻	25.5 7 ⁺	53.1 9 ⁺	347 3 ⁻	433 5 ⁻
0.0	1 ⁻	1	0.46		0	561	41.29(7) d	75An04						
25.479(16)	7 ⁺						7.23(16) m		100					
53.150(18)	9 ⁺	4	1.57			3	2.33(8) ns	75An04		100				
346.86(2)	3 ⁻	1	0.16		2	30		75An04	98(1)			2.0(4)		
433.22(2)	5 ⁻				2	43		75De27	97(1)				3.4(3)	
614.6(4)											96(20)	4(1)		
668.62(10)	$\langle 11 \rangle^+$										100			x
802(5)														
877.82(5)	3 ⁻	1	0.14		2	5.6		75An04	74(3)				26(2)	
917.28(9)	$\langle 13 \rangle^+$											77(2)		
987.31(2)	$\langle 5 \rangle^+$	2	0.52					75An04		78(1)		21(1)	1.0(2)	
1023.67(5)	7 ⁻				4	6.9	54(13) ps	75De27					29(3)	71(3)
1042.66(5)	3 ⁻ , 5 ⁻				2	9.0	67(18) ps	75De27	53(20)				19(2)	27(2)
1097.17(4)	$\langle 9^+ \rangle$					0.4	29(6) ps	75De27		79(1)		21(4)		
1166.28(7)	7 ⁻ , 9 ⁻				4	10	35(9) ps	75De27						100
1243.38(6)							135(49) ps						41(5)	59(2)
1294.89(2)	1 ⁺	0	0.17				24(5) ps	75An04	25(1)				69(1)	
1295.09(4)	$\langle 7^- \rangle$												100	
1327.93(2)	5 ⁺	$\langle 2 \rangle$			$\langle 6 \rangle$	0.7	83(24) ps	75An04		76(4)		16.0(2)		
1345.4(4)						<0.7		75De27						
1386.29(3)	3 ⁺ , 5 ⁺	2	0.07				52(12) ps	75An04			91(12)			
1416.1(1)	$\langle 1-5^- \rangle$								100					
1441.55(4)	3 ⁺ , 5 ⁺	2	0.04			1.2	26(8) ps	75An04			35(8)	63(1)		
1543.2(3)	3 ⁻ , 5 ⁻				2	24	33(12) ps	75De27					x	
1557.90(2)	3 ⁺	2	0.12				15(7) ps	75An04	72(1)	2.3(4)			7(2)	3.3(4)
1572.7(4)	$\langle 11^+ \rangle$										63(6)	37(6)		
1586.88(3)	1 ⁺	0	0.04				33(9) ps	75An04	28(1)				39(1)	
1635.76(3)	$\langle 5^+-9^+ \rangle$	2	0.2, 0.1					75An04	19(4)	3.2(2)	4.8(3)		7.7(2)	
1635.77(3)	3 ⁺		incl											
1643(5)	7 ⁻ , 9 ⁻				4	1.8		75De27						
1656.2(4)	3, 5, 7													
1665.8(1)	$\langle 13 \rangle^+$											22(3)		
1669.55(3)	$\langle 3^+, 5 \rangle$					≈ 0.7		75De27		74(1)			10(3)	
1681.0(1)	15 ⁺													
1690.80(5)	$\langle 3^+, 5 \rangle$					≈ 0.7		75De27		68(6)			6.4(7)	
1706(5)	3 ⁻ , 5 ⁻				2	4.0		75De27						
1718.82(4)							11(5) ps			90.9(6)	9(9)			
1733.9(1)	15 ⁺						5.1(4) ns							
1750.17(4)	3 ⁺ , 5 ⁺	2	0.1, 0.1					75An04		49(1)	9(1)		28(1)	
1757(5)	7 ⁻ , 9 ⁻				4	19		75De27						
1794.44(5)	7 ⁺	4	0.45					75An04				16(5)		59(25)
1828(5)	7 ⁻ , 9 ⁻				4	28		75De27						
1843(5)	3 ⁻ , 5 ⁻				2	26		75De27						
1858.9(6)												88(17)		
1875(5)	7 ⁻ , 9 ⁻				4	20		75De27						

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E^* [keV]	$2J^\pi$	L	C^2S (τ, d)	σ (τ, d) $\mu\text{b/sr}$	L (p, t)	σ (p, t) $\mu\text{b/sr}$	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage				
									E^*_f : $2J^\pi_f$:	0.0 1 ⁻	25.5 7 ⁺	53.1 9 ⁺	347 3 ⁻
1883.4(4)	$\langle 9^+ \rangle$	4	1.2, 0.6					75An04		11(3)	28(5)		
1885.74(15)	$\langle 5^+ - 9^+ \rangle$									36(9)			
1921(5)	$11^-, 13^-$				$\langle 6 \rangle$	1.2							
1922.98(3)	$\langle 7 \rangle^+$	4	0.67				19(4) ps	75An04		49(1)	22(1)		15.0(3)
1959(5)	1^-				0	9.0		75De27					
1978.0(1)	17^+												
1986.35(4)	5^+	2	0.05					75An04		28(2)	50(1)		1.1(3)
2022.54(8)	$\langle 17 \rangle^+$												
2029(5)	$7^-, 9^-$				4	6.0		75De27					
2061(5)	$3^-, 5^-$				2	13		75De27					
2081.61(5)	$5^+, 7^+$						15(4) ps			26(3)	67(2)		
2086(5)	$3^-, 5^-$				2	9.5		75De27					
2093(5)													
2111(5)	$7^-, 9^-$				4	3.3		75De27					
2113.49(21)													
2127(5)	1^-				0	9.0		75De27					
2144.4(4)	$3^-, 5^-$				2	18		75De27					100
2156.41(5)	3^+								55(2)				4(1)
2166(8)													
2197(5)	$3^-, 5^-$				2	74		75De27					
2220(5)	$7^-, 9^-$				4	8.2		75De27					
2249.59(4)	3^+								33(1)				8.7(6)
2252(5)					$\langle 4 \rangle$	13		75De27					
2256.50(6)	5^+									18(1)		55(1)	14(3)
2275.98(20)	5^+				3	42		75De27				100	
2277.2(4)													
2298.98(9)	17^+												
2300.37(7)	$3^+, 5^+$											18(2)	14(3)
2308.30(5)	3^+								14.3(6)			7(4)	12(1)
2313.08(11)	$\langle 19 \rangle^+$												
2314.80(5)	5^+				3	28		75De27		4.9(5)			21(2)
2326.03(3)	5^+										13(1)		8.9(1)
2327.83(7)	$3^+ - 7^+$												12(8)
2333.33(3)	3^+								45(1)			17(1)	2.6(2)
2334(5)	$11^-, 13^-$				$\langle 6 \rangle$	13		75De27					
2359(5)	$3^-, 5^-$				2			75De27					
2371.77(13)	$5^+, 7^+$				3	25		75De27			12(1)		73(2)
2400.62(7)	3^+								7.5(6)	1.3(4)		27(2)	
2409(5)					3, 4	10		75De27					
2419.29(8)	$5^+, 7^+$												
2423.10(8)	3^+								62(2)			7(1)	
2429(5)					$\langle 6 \rangle$	8.2		75De27					
2429.11(8)	3^+								22(10)				49(5)
2445(5)	$7^-, 9^-$				4	7.3		75De27					
2447.03(7)	$5^+, 7^+$												17(5)

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E^*	$2J^\pi$	L	C^2S	σ (τ, d)	L	σ (p,t)	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			(τ, d)	$\mu b/sr$	(p,t)	$\mu b/sr$	Γ_{cm}		E_f^* :	0.0	25.5	53.1	347	433
									$2J_f^\pi$:	1 ⁻	7 ⁺	9 ⁺	3 ⁻	5 ⁻
2461.6(4)	17 ⁺													
2469.80(11)	15 ⁻													
2472.99(6)	3 ⁺ -7 ⁺													
2486(5)	7 ⁻ , 9 ⁻				4	34		75De27						
2494.95(19)										21(5)				79(16)
2496.94(17)	15 ⁻													
2502(5)														
2521(5)	1 ⁻				0	4.7		75De27						
2534(14)														
2550.68(9)	3 ⁺ -7 ⁺									19(1)			23(9)	21(2)
2551(5)	3 ⁻ , 5 ⁻				2	10		75De27						
2583(5)	7 ⁻ , 9 ⁻				4	19		75De27						
2584.26(16)	3 ⁺ , 5 ⁺									30(3)		13(3)		
2595.86(12)	17 ⁻													
2602(5)														
2613(5)	3 ⁻ , 5 ⁻				2	9.0		75De27						
2617(12)														
2636(5)	3 ⁻ , 5 ⁻				2	5.2		75De27						
2654(5)	7 ⁻ , 9 ⁻				4	4.7		75De27						
2675(5)	7 ⁻ , 9 ⁻				4	25		75De27						
2719(10)														
2728(5)						≈ 16		75De27						
2745(14)														
2751.16(10)	$\langle 19 \rangle^-$													
2761.66(14)	$\langle 21 \rangle^+$													
2769(13)														
2774.35(13)	$\langle 17^- \rangle$													
2865.58(15)	$\langle 19^+ \rangle$													
2876.3(5)	$\langle 19^+ \rangle$													
2935.69(10)	21 ⁻													
3007.44(15)	$\langle 19^- \rangle$													
3101.4(2)														
3125.08(13)	21 ⁺													
3175.99(11)	23 ⁻													
3176.33(17)	23 ⁻													
3428.06(16)	23 ⁺													
3510.48(15)	25 ⁻													
3806.00(19)	25 ⁺													
3927.74(15)	27 ⁻													
4192.27(20)	27 ⁺													
4361.65(21)	29 ⁻													
4665.47(22)	29 ⁺													
4931.68(23)	31 ⁻													
5127.40(22)	31 ⁺													
5445.1(3)	33 ⁻													

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E^*	$2J^\pi$	L	C^2S	σ (τ, d)	L	σ (p,t)	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			(τ, d)	$\mu b/sr$	(p,t)	$\mu b/sr$	Γ_{cm}		E_f^* :	0.0	25.5	53.1	347	433
									$2J_f^\pi$:	1 ⁻	7 ⁺	9 ⁺	3 ⁻	5 ⁻
5656.7(3)	33 ⁺													
5969(2)*	5 ⁺													
6113.1(4)	35 ⁻													
6185.5(3)	35 ⁺													
6286(1)*	1 ⁺													
6629(2)*	3 ⁺													
6715.1(5)	37 ⁻													
6771.6(4)	37 ⁺													
6966(2)*	1 ⁺													
7071(3)*	3 ⁻													
7386.7(4)	39 ⁺													
7438.1(7)	(39 ⁻)													
8067.6(6)	41 ⁺													
			75An04			75De27		Ref.						

Additional data on this isotope can be found in [94Je12].

* Analogs of ¹⁰⁵Pd states with $E^*=0.0, 344, 651, 1075$ and 1088 keV [05De52].

5 bands are assigned to excited states of this nucleus in [05De52].

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

Energy levels and branching ratios [05De52, 93De15]. Part 2

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E^*	$2J^\pi$	Branching ratios in percentage									
[keV]		E_f^* :	615	669	878	917.3	987.3	1023.7	1042.7	1097.1	1166.3
		$2J_f^\pi$:		(11) ⁺	3 ⁻	(13) ⁺	(5) ⁺	7 ⁻	3 ⁻ , 5 ⁻	(9 ⁺)	7 ⁻ , 9 ⁻
917.28(9)	(13) ⁺			23(1)							
1294.89(2)	1 ⁺				1.1(8)		4.6(19)				
1327.93(2)	5 ⁺						7.6(8)				
1345.4(4)			79(18)	21(5)							
1386.29(3)	3 ⁺ , 5 ⁺						9.2(7)				
1441.55(4)	3 ⁺ , 5 ⁺						2.5(3)				
1557.90(2)	3 ⁺						3.8(4)				
1635.76(3)	(5 ⁺ -9 ⁺)				1.0(1)	1.5(2)	19.1(3)			13(1)	
1656.2(4)	3, 5, 7								100		
1665.8(1)	(13) ⁺			57(2)		21(3)					
1669.55(3)	(3 ⁺ , 5)						2.8(8)				
1681.0(1)	15 ⁺			30(2)		70(3)					
1690.80(5)	(3 ⁺ , 5)						21.4(7)				
1733.9(1)	15 ⁺			69(5)		31(8)					
1750.17(4)	3 ⁺ , 5 ⁺						1.3(7)				
1858.9(6)			12(4)								
1883.4(4)	(9 ⁺)					30(3)	30(4)				
1885.74(15)	(5 ⁺ -9 ⁺)									27(9)	

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E^* [keV]	$2J^\pi$	$E_f^*:$ $2J_f^\pi:$	Branching ratios in percentage								
			615	669 $\langle 11 \rangle^+$	878 3^-	917.3 $\langle 13 \rangle^+$	987.3 $\langle 5 \rangle^+$	1023.7 7^-	1042.7 $3^-, 5^-$	1097.1 $\langle 9^+ \rangle$	1166.3 $7^-, 9^-$
1922.98(3)	$\langle 7 \rangle^+$									4.1(5)	
1978.0(1)	17^+					88(3)					
1986.35(4)	5^+						3.0(9)			8.0(3)	
2022.54(8)	$\langle 17 \rangle^+$					76(5)					
2081.61(5)	$5^+, 7^+$									7(2)	
2113.49(21)											100
2156.41(5)	3^+						16.4(14)				
2249.59(4)	3^+						2.5(6)				
2256.50(6)	5^+							6.0(8)			
2277.2(4)						100					
2300.37(7)	$3^+, 5^+$				9(3)						
2314.80(5)	5^+						8(2)				1.5(8)
2326.03(3)	5^+						8.2(2)	1.2(6)	0.30(12)	3.1(2)	
2327.83(7)	$3^+ - 7^+$						74(4)				
2371.77(13)	$5^+, 7^+$										4(2)
2400.62(7)	3^+				3(2)		24(6)				
2419.29(8)	$5^+, 7^+$						13(3)			18(11)	
2447.03(7)	$5^+, 7^+$						46(8)			11(5)	
2469.80(11)	15^-					100					
2472.99(6)	$3^+ - 7^+$						44(3)			29(3)	

Energy levels and branching ratios [05De52, 93De15]. Part 3

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E^* [keV]	$2J^\pi$	$E_f^*:$ $2J_f^\pi:$	Branching ratios in percentage								
			1243.4	1294.9 1^+	1295.0 $\langle 7^- \rangle$	1327.9 5^+	1345.4	1386.3 $3^+, 5^+$	1416.1	1441.6 $3^+, 5^+$	1557.9 3^+
1543.2(3)	$3^-, 5^-$						100				
1557.90(2)	3^+			6.4(4)		2.6(9)		2.0(7)			
1586.88(3)	1^+		3.8(6)	30(1)							
1635.76(3)	$\langle 5^+ - 9^+ \rangle$				0.8(3)	1(1)	11(2)	16(1)	0.6(2)	0.9(3)	
1669.55(3)	$\langle 3^+, 5 \rangle$							13.2(8)			
1690.80(5)	$\langle 3^+, 5 \rangle$					1.4(7)				1.7(10)	1.4(7)
1750.17(4)	$3^+, 5^+$					6.3(3)					6.7(12)
1794.44(5)	7^+					25(5)					
1885.74(15)	$\langle 5^+ - 9^+ \rangle$							36(18)			
1986.35(4)	5^+					1.1(9)				0.5(2)	
2156.41(5)	3^+							8.2(14)			17.1(14)
2249.59(4)	3^+		5.0(9)		1.9(6)	31.7(6)					
2256.50(6)	5^+					3(2)					
2300.37(7)	$3^+, 5^+$					17(3)				30(1)	
2308.30(5)	3^+			14(1)					25(5)	6.5(6)	
2314.80(5)	5^+					27(2)					

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E^*	$2J^\pi$	Branching ratios in percentage								
[keV]	$E_f^*:$ $2J_f^\pi:$	1243.4	1294.9	1295.0	1327.9	1345.4	1386.3	1416.1	1441.6	1557.9
			1^+	$\langle 7^- \rangle$	5^+		$3^+, 5^+$		$3^+, 5^+$	3^+
2326.03(3)	5^+	0.8(2)	0.6(4)		1.8(5)		15(2)		7.45(12)	
2327.83(7)	$3^+ - 7^+$									
2333.33(3)	3^+		13.2(2)							4.3(2)
2400.62(7)	3^+		4.8(8)							11(3)
2419.29(8)	$5^+, 7^+$				8(3)		21(6)		17(3)	
2423.10(8)	3^+				2.5(17)				24(2)	
2429.11(8)	3^+									17(5)
2447.03(7)	$5^+, 7^+$				16(5)		11(5)			
2472.99(6)	$3^+ - 7^+$				3.6(12)				18(12)	
2550.68(9)	$3^+ - 7^+$								9(5)	10(2)
2584.26(16)	$3^+, 5^+$		57(19)							

Energy levels and branching ratios [05De52, 93De15]. Part 4

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E^*	$2J^\pi$	Branching ratios in percentage									
[keV]		E_f^* : $2J_f^\pi$:	1586.9 1 ⁺	1635.8	1635.8	1669.5 $\langle 3^+,5 \rangle$	1681.0 $\langle 15 \rangle^+$	1690.8 $\langle 3^+,5 \rangle$	1718.8	1733.9 $\langle 15 \rangle^+$	1750.2 3 ⁺ ,5 ⁺
1883.4(4)	$\langle 9^+ \rangle$				x						
1922.98(3)	$\langle 7 \rangle^+$				4.9(3)			2.8(3)			2.5(5)
1978.0(1)	17 ⁺						12(3)				
1986.35(4)	5 ⁺				7.8(3)			0.5(3)			
2022.54(8)	$\langle 17 \rangle^+$						24(5)				
2249.59(4)	3 ⁺		5.3(6)		7(4)	3.7(3)					2(2)
2298.98(9)	17 ⁺									100	
2300.37(7)	3 ⁺ ,5 ⁺					11(5)					
2308.30(5)	3 ⁺		3(1)					10(4)			5.2(6)
2313.08(11)	$\langle 19 \rangle^+$									71(5)	
2314.80(5)	5 ⁺		9(2)					10.6(8)			
2326.03(3)	5 ⁺		0.24(12)			0.89(6)		6.03(12)	47.2(4)		0.18(12)
2333.33(3)	3 ⁺		12.1(2)	2.01(11)				2.1(2)			1.91(11)
2400.62(7)	3 ⁺							21(2)			
2419.29(8)	5 ⁺ ,7 ⁺					11(3)			13(1)		
2423.10(8)	3 ⁺		4.2(17)								
2429.11(8)	3 ⁺		12(8)								
2472.99(6)	3 ⁺ –7 ⁺							5(3)			
2550.68(9)	3 ⁺ –7 ⁺										11(2)
2595.86(12)	17 [–]						20(3)				
2774.35(13)	$\langle 17^- \rangle$						36(2)				

Energy levels and branching ratios [05De52, 93De15]. Part 5

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E^* [keV]	$2J^\pi$	Branching ratios in percentage									
		E_f^* : $2J_f^\pi$:	1794.6 7 ⁺	1923.0 ⟨7⟩ ⁺	1978.0 ⟨17⟩ ⁺	2022.5 ⟨17⟩ ⁺	2256.5 5 ⁺	2298.7 ⟨17⟩	2313.2 ⟨19⟩ ⁺	2469.7 ⟨15⟩	2494.9
1922.98(3)	⟨7⟩ ⁺		0.25(9)								
2256.50(6)	5 ⁺		4.3(8)								
2308.30(5)	3 ⁺						3(1)				
2313.08(11)	⟨19⟩ ⁺				29(6)						
2314.80(5)	5 ⁺		18.3(8)								
2326.03(3)	5 ⁺			0.18(12)							
2371.77(13)	5 ⁺ , 7 ⁺		10(2)								
2550.68(9)	3 ⁺ –7 ⁺		7(2)								
2595.86(12)	17 [–]							16(3)		27(3)	37(7)
2761.66(14)	⟨21⟩ ⁺								100		
2774.35(13)	⟨17 [–] ⟩									64(8)	
3125.08(13)	21 ⁺				100						

Energy levels and branching ratios [05De52, 93De15]. Part 6

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E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	2595.9 ⟨17⟩ [–]	2751.2 ⟨19⟩ [–]	2774.5 ⟨17 [–] ⟩	2935.7 ⟨21⟩ [–]	3007.6 ⟨19 [–] ⟩	3176.0 ⟨23⟩ [–]	3176.5 ⟨21 [–] ⟩	3510.5 ⟨25⟩ [–]	3927.8 ⟨27⟩ [–]	4361.7 ⟨29⟩ [–]
2751.16(10)	⟨19⟩ [–]	100										
2935.69(10)	21 [–]	4.2(14)	95.8(12)									
3007.44(15)	⟨19 [–] ⟩			100								
3101.4(2)			100									
3175.99(11)	23 [–]		8.4(20)		91.6(15)							
3176.33(17)	23 [–]					100						
3510.48(15)	25 [–]				8.0(27)		92.0(16)					
3927.74(15)	27 [–]							12(3)	88(4)			
4361.65(21)	29 [–]								17(6)	83(11)		
4931.68(23)	31 [–]											100

Energy levels and branching ratios [94De15].

¹⁰⁶Ag₄₇

E^* [keV]	J^π	L (τ , d)	C^2S (τ , d)	J^π (τ , d)	L (p, d)	C^2S (p, d)	J^π (p, d)	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage				
										E_f^* : J_f^π :	0.0 1+	89.7 6+	111 ⟨2⟩+	206 ⟨3⟩+
0.0	1 ⁺							23.96(4) m						
89.66(7)	6 ⁺	4	0.23, 0.12	7+, 1+				8.28(2) d	75An07					
110.66(3)	⟨2⟩ ⁺	4	0.27, 0.14	7+, 1+					75An07	100				
205.95(4)	⟨3⟩ ⁺	4	0.28, 0.15	7+, 1+					75An07	1.8		98.2		
234.65(4)	⟨1 ⁺ –3 ⁺ ⟩									100			x	

(continued)

¹⁰⁶Ag
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E^*	J^π	L	C^2S	J^π	L	C^2S	J^π	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage				
[keV]		(τ ,d)	(τ ,d)	(τ ,d)	(p,d)	(p,d)	(p,d)			E_f^* : 0.0	89.7	111	206	235
										J_f^π : 1+	6+	$\langle 2 \rangle +$	$\langle 3 \rangle +$	
257(3)														
277.03(3)	$1^-, 2^-$	1	0.14,0.12	$4-, 1-$	2	0.47,0.40	$3-, 1-$		75An07	99.1		0.9		
328.82(6)	5^+	4	1.13,0.58	$7+, 1+$					75An07		100			
332.62(7)	7^+										100			
364.43(4)	$\langle 2, 3 \rangle^-$	1	0.09,0.05	$4-, 1-$	2	0.17,0.14	$3-, 1-$		75An07			78	6.0	
389.15												47		53
416.62(6)												83		
425.04(8)	$\langle 2, 3 \rangle^-$				2	0.11,0.09	$3-, 1-$		75An07			67	18	
449.10(5)	$\langle 4 \rangle^+$	4	0.27,0.13	$7+, 1+$					75An07				100	
468.84(23)													100	
503.01(5)	$\langle 3^+ - 5^+ \rangle$												38	
518.24(5)	$\langle 3, 4 \rangle^-$				4	1.0,0.67	$5-, 3-$		75An07				15.4	
542.53(8)	6										32			
556.79(6)	$\langle 5^+ \rangle$										22			
565.14(5)	$\langle 2, 3 \rangle^-$	1	0.01,0.01	$4-, 1-$	2	0.23,0.20	$3-, 1-$		75An07			31	34	
596.05(6)	$1^- - 3^-$	1	0.04,0.04	$4-, 1-$	2	0.34,0.29	$3-, 1-$		75An07			27		73
597.26(6)	$1^- - 3^-$											34	9	
602.76(8)														
625.70(8)	7^+										32.0			
661.31(8)	1^-	1	0.03,0.03	$4-, 1-$	0	0.071	0^-		75An07					
676.28(6)														
680(1)	$0^-, 1^-$				0	0.050	0^-		75An07					
698.20(6)	$1^- - 3^-$	1	0.04,0.03	$4-, 1-$	2	0.22,0.19	$3-, 1-$		75An07					
712.13(8)														
721.45(25)	7^+										40			
730.43(13)													100	
741.57(9)													18	
749(2)		$\langle 1 \rangle$	0.02,0.02	$4-, 1-$					75An07					
765.20(7)	6^-										92			
769.68(16)	$1^- - 3^-$				2	0.05,0.06	$3-, 1-$		75An07					
769.91(10)	6													
773.49(12)														
775.64(10)														
797.43(12)														
809(2)	$0^-, 1^-$				0	0.021	0^-		75An07					
812.02(7)	$\langle 3^- \rangle$													
816.46(8)	$\langle 4^+ \rangle$													
829.37(7)	7^-										10.7			
835.38(12)														100
851(2)		1	0.05,0.04	$4-, 1-$					75An07					
861.58(9)	$\langle 3^- - 5^- \rangle$				4,5				75An07					
874.20(8)	8^-							157(31) ps						
881.20(9)	$\langle 6^+ \rangle$													
884.20(22)														
887.67(8)					5,6	0.34			75An07					

(continued)

¹⁰⁶Ag
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E^*	J^π	L	C^2S	J^π	L	C^2S	J^π	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(τ, d)	(τ, d)	(τ, d)	(p, d)	(p, d)	(p, d)	Γ_{cm}		E_f^* : 0.0	89.7	111	206	235	
										J_f^π : 1+	6+	$\langle 2 \rangle +$	$\langle 3 \rangle +$		
902.98(21)	1 ⁻ 3 ⁻				2	0.08,0.07	3 ⁻ ,1 ⁻		75An07						
912.34(10)															
917.37(18)	1 ⁻ 3 ⁻				2	0.12,0.10	3 ⁻ ,1 ⁻		75An07						
923.09(13)															
923.65(11)															100
927.18(9)	$\langle 6^+ \rangle$														
933.18(10)															
936.46(10)	0 ⁻ ,1 ⁻				0	0.024	0 ⁻		75An07						
944.82(14)														100	
950(2)					$\langle 2 \rangle$	0.20,0.02	3 ⁻ ,1 ⁻		75An07						
961.71(9)	8 ⁺										4.9				
971(2)	X ⁺	$\langle 2 \rangle$	0.03,0.02	5+,0+					75An07						
979.14(11)	8 ⁺														
1001.87(9)		$\langle 1 \rangle$	0.05,0.04	4 ⁻ ,1 ⁻					75An07						
1003.51(10)														100	
1007(1)	1 ⁻ 3 ⁻				2	0.15,0.12	3 ⁻ ,1 ⁻		75An07						
1022(1)	1 ⁻ 3 ⁻				2	0.11,0.17	3 ⁻ ,1 ⁻		75An07						
1043.87(9)	9 ^{$\langle - \rangle$}							2.9(8) ps							
1063.18(10)															
1082(2)	X ⁺	2	0.04,0.03	5+,0+					75An07						
1086.86(11)															
1106(2)	0 ⁻ ,1 ⁻				0	0.027	0 ⁻		75An07						
1106.33(10)															
1123.55(11)															
1133.83(16)		1	0.04,0.04	4 ⁻ ,1 ⁻					75An07						
1288.93(16)															
1135.66(12)															
1145.06(11)															
1150.06(16)															
1166.8(3)															
1176(2)	1 ⁻				0+2				75An07						
1224.62(10)															
1230.03(17)															
1263.09(12)															
1288.93(16)															
1303.21(10)															
1329.54(16)		$\langle 1 \rangle$	0.03,0.02	4 ⁻ ,1 ⁻					75An07						
1387.52(10)	9 ⁺														
1398(2)	X ⁺	2	0.08,0.06	5+,0+					75An07						
1413.21(11)															
1420.73(10)	10 ^{$\langle - \rangle$}							0.28(8) ps							
1434(2)	X ⁺	2	0.33,0.24	5+,0+					75An07						
1450.3(4)	9 ^{$\langle + \rangle$}														
1491(2)	X ⁺	2	0.08,0.06	5+,0+					75An07						
1533.10(14)															

(continued)

¹⁰⁶Ag
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E^*	J^π	L	C^2S	J^π	L	C^2S	J^π	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(τ ,d)	(τ ,d)	(τ ,d)	(p,d)	(p,d)	(p,d)	Γ_{cm}		E_{f}^* :	0.0	89.7	111	206	235
										J_{f}^π :	1+	6+	$\langle 2 \rangle$ +	$\langle 3 \rangle$ +	
1573.41(16)	$9^{\langle + \rangle}$														
1589(2)	X^-	1	0.04,0.03	4-,1-					75An07						
1616(2)	X^+	2	0.12,0.09	5+,0+					75An07						
1662(2)	X^+	2	0.30,0.22	5+,0+					75An07						
1684(2)	$X^{\langle + \rangle}$	$\langle 2 \rangle$	0.10,0.08	5+,0+					75An07						
1764.18(11)	$11^{\langle - \rangle}$							0.41(8) ps							
1902.48(19)	$10^{\langle + \rangle}$														
1957.63(23)	$11^{\langle - \rangle}$														
2033.54(15)	$9^{\langle - \rangle}$														
2114.7(10)	$10^{\langle + \rangle}$														
2254.13(21)	$12^{\langle - \rangle}$							0.22(7) ps							
2272.08(12)	$10^{\langle - \rangle}$														
2376.0(4)	$11^{\langle + \rangle}$														
2441.77(12)	$10^{\langle - \rangle}$														
2571.8(5)	$11^{\langle + \rangle}$														
2599.7(4)															
2660.97(16)	$11^{\langle - \rangle}$														
2745.3(5)	$13^{\langle - \rangle}$							0.27(8) ps							
2930.77(19)	$12^{\langle - \rangle}$														
3017.6(5)															
3257.37(21)	$13^{\langle - \rangle}$														
3297.4(5)															
3686.8(3)	$14^{\langle - \rangle}$														
			75An07			75An07			Ref.						

Additional data on this isotope can be found in [02SeZW, 02Ti02, 94Je11, 90An21].

Energy levels and branching ratios [94De15]. Part 2

¹⁰⁶Ag
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E^*	J^π	Branching ratios in percentage										
[keV]	(p,d)	E_{f}^* : J_{f}^π :	277.0 1-,2-	328.8 5+	332.6 7+	364.4 $\langle 2,3 \rangle$ -	389.1	425.0 $\langle 2,3 \rangle$ -	449.1 $\langle 4 \rangle$ +	503.0	518.2 $\langle 3,4 \rangle$ -	542.5 6
364.43(4)	3-,1-		16.4(5)									
416.62(6)			17(2)									
425.04(8)	3-,1-		15(1)									
503.01(5)				9.8(7)			51.8(14)					
518.24(5)	5-,3-					84.6(8)						
542.53(8)				33(9)	35(4)							
556.79(6)									71.2(6)	7.1(7)		
565.14(5)	3-,1-		10(1)			20(1)		4.8(7)				
597.26(6)			57(2)									
602.76(8)			100									
625.70(8)					68.0(18)							

(continued)

¹⁰⁶Ag
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E^* [keV]	J^π (p,d)	$E_f^*:$ $J_f^\pi:$	Branching ratios in percentage									
			277.0 1-,2-	328.8 5+	332.6 7+	364.4 ⟨2,3⟩-	389.1	425.0 ⟨2,3⟩-	449.1 ⟨4⟩+	503.0	518.2 ⟨3,4⟩-	542.5 6
661.31(8)	0-		100									
676.28(6)									88(3)	12.2(11)		
698.20(6)	3-,1-		37(2)			63(3)						
712.13(8)				46(4)								
721.45(25)				60(5)								
741.57(9)							82(4)					
765.20(7)				2.6(6)	2.6(6)							2.6(6)
769.68(16)	3-,1-		100									
769.91(10)				100								
773.49(12)									100			
775.64(10)										100		
797.43(12)				100								
812.02(7)			36(2)			64(3)						
816.46(8)				65(4)			35(3)					
829.37(7)					28.8(5)							
861.58(9)						100						
874.20(8)					60.7(7)							
881.20(9)				57(3)	43(3)							
887.67(8)									79(4)			
902.98(21)	3-,1-		100									
917.37(18)	3-,1-							100				
923.09(13)							100					
927.18(9)				81(4)	19(4)							
933.18(10)											100	
936.46(10)	0-		100									
961.71(9)					95.1(10)							
1001.87(9)						100						
1086.86(11)											100	
1106.33(10)											100	
1123.55(11)											100	
1133.83(16)				100								
1288.93(16)				100								
1145.06(11)						100						
1150.06(16)							100					
1166.8(3)						100						
1288.93(16)				100								
1329.54(16)											100	
1387.52(10)					100							

Energy levels and branching ratios [94De15]. Part 3

¹⁰⁶₄₇Ag

E^* [keV]	J^π (p,d)	$E_f^*:$ $J_f^\pi:$	Branching ratios in percentage									
			596.0	625.7	676.3	721.4	765.2	812.0	829.4	861.6	874.2	961.7
				7+		7+	6-	$\langle 3- \rangle$	7-		8-	8+
712.13(8)			54(2)									
829.37(7)							60.5(14)					
874.20(8)									39.3(15)			
884.20(22)				100								
887.67(8)					21(3)							
912.34(10)							100					
979.14(11)				100								
1043.87(9)											100	
1063.18(10)					100							
1135.66(12)										100		
1224.62(10)							100					
1230.03(17)								100				
1303.21(10)							100					
1413.21(11)							100					
1420.73(10)											6.8(15)	
1450.3(4)						100						
1573.41(16)				47(6)								
2033.54(15)									24(2)			
2114.7(10)												100
2272.08(12)											58(3)	

Energy levels and branching ratios [94De15]. Part 4

¹⁰⁶₄₇Ag

E^* [keV]	J^π (p,d)	$E_f^*:$ $J_f^\pi:$	Branching ratios in percentage									
			979.1	1043.9	1263.1	1387.5	1420.7	1450.3	1573.4	1764.2	1902.5	2033.5
			8+	9 $\langle - \rangle$		9+	10 $\langle - \rangle$	9 $\langle + \rangle$	9 $\langle + \rangle$	11 $\langle - \rangle$	10 $\langle + \rangle$	9 $\langle - \rangle$
1263.09(12)				100								
1420.73(10)				93.2(4)								
1533.10(14)					100							
1573.41(16)		53(6)										
1764.18(11)				18.3(10)			81.7(5)					
1902.48(19)		65(6)							35(6)			
1957.63(23)							100					
2033.54(15)				76(2)								
2254.13(21)							15.4(19)			84.6(8)		
2272.08(12)				42(2)								
2376.0(4)								100				
2441.77(12)							48(1)					27(2)
2571.8(5)						100						
2599.7(4)						100						
2745.3(5)										28(3)		
3017.6(5)											100	

Energy levels and branching ratios [94De15]. Part 5

¹⁰⁶Ag₄₇

E^*	J^π	Branching ratios in percentage							
[keV]	(p,d)	$E_f^*:$ $J_f^\pi:$	2254.1 12 $\langle-$	2272.1 10 $\langle-$	2441.8 10 $\langle-$	2661.0 11 $\langle-$	2745.3 13 $\langle-$	2930.8 12 $\langle-$	3257.4 13 $\langle-$
2441.77(12)				25(4)					
2660.97(16)					100				
2745.3(5)			72(4)						
2930.77(19)						100			
3257.37(21)								100	
3297.4(5)							100		
3686.8(3)									100

Energy levels and branching ratios [00Bl05].

¹⁰⁷Ag₄₇

E^*	$2J^\pi$	L	C^2S'	C^2S'	L	σ (p,t)	σ (p,t)	L	$T_{1/2}$ or	Ref.
[keV]			(τ ,d)	(τ ,d)	(p,t)	μ b/sr	<i>rel.</i>	(p,t)	Γ_{cm}	
0.0	1 $^-$	1	0.50	0.382	0	599	0.752	0	Stable	75An06
93.125(19)	7 $^+$	4		0.896					44.3(2) s	
125.59(3)	$\langle 9 \rangle^+$	4	1.46	incl		2.3			2.85(10) ns	75An06
324.81(3)	3 $^-$	1	0.19	0.261	2	36	0.307	2	5.0(9) ps	75An06
423.150(24)	5 $^-$	$\langle 3 \rangle$	0.056	<0.4	2	422	0.424	2	29.8(21) ps	75An06
773.31(6)	$\langle 11 \rangle^+$								<15 ns	
786.59(25)	3 $^-$	1	0.13	0.176	2	5.2	0.201	2	0.27(8) ps	75An06
922.06(3)	5 $^+$	2	0.47						≤ 0.6 ns	75An06
949.70(7)	5 $^-$				2	9.0	0.441	2	1.36(18) ps	75De27
973.3(3)	$\langle 7 \rangle^-$					3.3	incl			75De27
991.00(6)	$\langle 13 \rangle^+$								<15 ns	
1061.2(3)	7 $^+$,9 $^+$	4	0.2,0.1			1.2				75An06
1142(1)	1 $^+$	0	0.32		4	3.7				75An06
1143.06(8)	$\langle 5 \rangle^-$									
1146.9(5)	$\langle 9 \rangle^-$						0.027	3		75Ku14
1222(5)	$\langle 11^-, 13^- \rangle$	2	0.82		$\langle 6 \rangle$	1.6				75An06
1223.01(5)	$\langle 5 \rangle^+$									
1258.89(24)	$\langle 3 \rangle^+$	2	0.48							75An06
1325.8(3)	$\langle 3 \rangle^+$	2	0.08							75An06
1449.01(21)										
1464.7(10)	$\langle 3 \rangle^-$				2	16			<0.6 ps	75De27
1483(5)				x	6,5	1.5				75De27
1508(10)	7 $^+$,9 $^+$	4	1.5,0.8							75An06
1572(5)	7 $^-$,9 $^-$				4	4.7				75De27
1577.35(20)	$\langle 15 \rangle^+$									
1615(5)	1 $^-$				0	4.3	0.188	0		75De27
1653(5)	1 $^-$				0	15	0.262	0		75De27
1656(10)	7 $^+$,9 $^+$	4	0.3,0.2	0.747			0.044	3		75An06
1685(5)	7 $^-$,9 $^-$				4	10				75De27

(continued)

¹⁰⁷Ag
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E^*	$2J^\pi$	L	C^2S'	C^2S'	L	σ (p,t)	σ (p,t)	L	$T_{1/2}$ or	Ref.
[keV]			(τ ,d)	(τ ,d)	(p,t)	$\mu\text{b/sr}$	<i>rel.</i>	(p,t)	Γ_{cm}	
1799.69(13)	$\langle 15 \rangle^+$	0	0.05	0.063	2	7.3				75An06
1820(10)	1^+									
1832(5)	$3^-, 5^-$									
1846.0(4)										75Ku14
1851(5)	1^-				0	9.9	0.812	0		75De27
1875(5)					2,3	2.5	0.016	3		75De27
1904(5)					2,3	14	0.105	3		75De27
1918(5)	$7^-, 9^-$				4	4.1				75De27
1924.8(4)	13^-									
1942(5)	$3^-, 5^-$				2	2.9				75De27
1956(5)	$7^-, 9^-$				4	3.7				75De27
1975.71(23)										
2026(5)	5^+	2	0.43	0.23	3,4	13	0.050	3		75An06
2053.54(11)	$\langle 17 \rangle^+$									
2062(5)	$5^+, 7^+$				3	6.4	0.034	3		75De27
2065.1(20)	$\langle 13^- \rangle$									
2066.7(21)										
2111(5)					4,3	3.1				75De27
2140(5)	$5^+, 7^+$				3	11	0.067	3		75De27
2171.99(24)	15^-									
2176.4(21)					3	54				75De27
2177(5)	$5^+, 7^+$			0.054			0.277	3		75Ku14
2199(5)	$5^+, 7^+$			incl	3	50	0.256	3		75De27
2227(5)	$5^+, 7^+$				3	9.5	0.047	$\langle 3 \rangle$		75De27
2254(5)	$3^-, 5^-$				2	16				75De27
2284(5)	$3^-, 5^-$				2	6.9				75De27
2297.91(12)	$\langle 15 \rangle^-$									
2306(5)	$7^-, 9^-$				4	5.2				75De27
2320(5)	$7^-, 9^-$				4	7.3				75De27
2347(5)						4.3				75De27
2355(5)	$9^+, 11^+$				5	3.5				75De27
2370.5(21)										
2374(5)	$3^-, 5^-$				2	14				75De27
2405(5)	$3^-, 5^-$				2	6,4				75De27
2411.88(13)	$\langle 17 \rangle^-$									
2414(5)	$7^-, 9^-$				4	9				75De27
2437(5)	$3^-, 5^-$				2	21				75De27
2463(5)	$7^-, 9^-$				4	23				75De27
2463.5(5)	$\langle 15^- \rangle$									
2494(5)	$7^-, 9^-$				4	7.3				75De27
2533(5)	$7^-, 9^-$				4	12				75De27
2543.08(14)	$\langle 19 \rangle^-$									
2590(5)	$7^-, 9^-$				4	19				75De27
2664.5(5)	$\langle 17^- \rangle$									
2666(5)					4,5	5.6				75De27

(continued)

 $^{107}_{47}\text{Ag}$

E^*	$2J^\pi$	L	C^2S'	C^2S'	L	σ (p,t)	σ (p,t)	L	$T_{1/2}$ or	Ref.
[keV]			(τ ,d)	(τ ,d)	(p,t)	$\mu\text{b/sr}$	<i>rel.</i>	(p,t)	Γ_{cm}	
2672(5)						3.9				75De27
2701(5)	$7^-,9^-$				4	6.4				75De27
2717(5)						15				75De27
2732.9(24)	21^-									
2733(5)	$7^-,9^-$				4	6.4				75De27
2733.68(25)	X^-									
2748.09(15)	$\langle 21 \rangle^-$									
2776(5)						≈ 6				75De27
2790.2(10)										
2808(5)	$7^-,9^-$				4	19				75De27
2844(5)	$7^-,9^-$				4	24				75De27
2883(5)										
2891.91(18)	$\langle 19 \rangle^+$									
2904(5)										
2923.5(5)	$\langle 19^- \rangle$									
3004(1)										
3028.58(23)										
3034.4(4)	23^-									
3048.3(8)										
3056.25(17)	$\langle 23 \rangle^-$									
3111(5)						≈ 15				75De27
3125(5)						≈ 10				75De27
3148.35(14)	$\langle 21 \rangle^+$									
3238.5(8)										
3294.5(5)	$\langle 21^- \rangle$									
3297.84(22)	$\langle 21^- \rangle$									
3460.51(15)	$\langle 23 \rangle^+$									
3466.57(25)	$\langle 25 \rangle^-$									
3520.0(11)	25^-									
3598.1(7)										
3675.5(5)	$\langle 23^- \rangle$									
3683.02(18)	$\langle 25 \rangle^+$									
3723.7(8)	27^-									
3742.2(11)										
3927.9(4)	$\langle 27^- \rangle$									
3954.2(7)										
3977.84(21)	$\langle 27^+ \rangle$									
4023.5(11)										
4031.1(10)										
4046.4(15)										
4102.5(5)	$\langle 25^- \rangle$									
4356.4(3)	$\langle 29 \rangle^+$									
4375.1(3)	$\langle 29^+ \rangle$									
4397.8(4)	$\langle 29^- \rangle$									
4752.7(3)	$\langle 31 \rangle^+$									

(continued)

¹⁰⁷Ag
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E^*	$2J^\pi$	L	C^2S'	C^2S'	L	σ (p,t)	σ (p,t)	L	$T_{1/2}$ or	Ref.
[keV]			(τ ,d)	(τ ,d)	(p,t)	$\mu\text{b/sr}$	<i>rel.</i>	(p,t)	Γ_{cm}	
4753.0(15)										
4773.1(11)										
4968.2(4)	29 ⁺									
5006.7(5)	$\langle 31^- \rangle$									
5246.8(4)	$\langle 33 \rangle^+$									
5257.6(4)	31 ⁺									
5565.3(5)	$\langle 33^- \rangle$									
5575.4(4)	33 ⁺									
5748.0(4)	$\langle 35 \rangle^+$									
5944.9(4)	35 ⁺									
6319.3(4)	$\langle 37 \rangle^+$									
6376.8(4)	37 ⁺									
6887.8(5)	39 ⁺									
6912.4(4)	$\langle 39 \rangle^+$									
7442.1(5)	41 ⁺									
8046.6(5)	43 ⁺									
8718.1(6)	45 ⁺									
12201(3)	$\langle 5^+ \rangle$									
12287(2)	$\langle 1^+ \rangle$									
12595(2)	$\langle 3^+ \rangle$									
12638(2)	$\langle 1^+ \rangle$									
12692(2)	$\langle 3^+ \rangle$									
12794(2)	$\langle 5^+ \rangle$									
			75An06	75Ku14		75De27	75Ku14	75Ku14		Ref.

Additional data on this isotope can be found in [94Je11].

Abundance: 51.839(8) %.

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

Energy levels and branching ratios [00Bl05]. Part 2

¹⁰⁷Ag
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E^*	$2J^\pi$	Branching ratios in percentage									
		E_f^* :	0.0	93.1	125.6	325	423	773	787	922	991.00
[keV]		$2J_f^\pi$:	1 ⁻	7 ⁺	$\langle 9 \rangle^+$	3 ⁻	5 ⁻	$\langle 11 \rangle^+$	3 ⁻	5 ⁺	$\langle 13 \rangle^+$
93.125(19)	7 ⁺		100								
125.59(3)	$\langle 9 \rangle^+$			100							
324.81(3)	3 ⁻		100								
423.150(24)	5 ⁻		95(4)	0.21		4.4(4)					
773.31(6)	$\langle 11 \rangle^+$			6(3)	94(5)						
786.59(25)	3 ⁻		64			28(6)	8(4)				
922.06(3)	5 ⁺			69(3)	27.6(8)	3.22(17)					
949.70(7)	5 ⁻		12(1)	1.0(2)		38(2)	48(2)		1.1(6)		
973.3(3)	$\langle 7 \rangle^-$					17(3)	83(7)				

(continued)

¹⁰⁷Ag
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E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	0.0 1 ⁻	93.1 7 ⁺	125.6 ⟨9⟩ ⁺	325 3 ⁻	423 5 ⁻	773 ⟨11⟩ ⁺	787 3 ⁻	922 5 ⁺	991.00 ⟨13⟩ ⁺	1146.9 ⟨9⟩ ⁻
991.00(6)	⟨13⟩ ⁺				87(7)			12.9(3)				
1143.06(8)	⟨5⟩ ⁻			3.2(5)		33(4)	58(4)		5.5(8)			
1146.9(5)	⟨9⟩ ⁻						100					
1223.01(5)	⟨5⟩ ⁺			30(2)	8(1)	41(2)	8(1)		1.1(2)	11(1)		
1258.89(24)	⟨3⟩ ⁺		9(2)	77(12)		14(3)						
1325.8(3)	⟨3⟩ ⁺		15(3)	85(18)								
1449.01(21)								100				
1464.7(10)	⟨3⟩ ⁻					100						
1577.35(20)	⟨15⟩ ⁺							70(1)			30(1)	
1799.69(13)	⟨15⟩ ⁺							18(7)			82(9)	
1924.8(4)	13 ⁻										100	
2053.54(11)	⟨17⟩ ⁺										94(9)	
2065.1(20)	⟨13 ⁻ ⟩											100
2066.7(21)								x			x	
2176.4(21)								x			x	
2297.91(12)	⟨15⟩ ⁻										100	

Energy levels and branching ratios [00Bl05]. Part 3

¹⁰⁷Ag
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E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	1449.01	1799.69 ⟨15⟩ ⁺	1924.8 13 ⁻	2053.54 ⟨17⟩ ⁺	2066.7	2177 5 ⁺ , 7 ⁺	2297.91 ⟨15⟩ ⁻	2370.5	2411.88 ⟨17⟩ ⁻	2463 7 ⁻ , 9 ⁻
1846.0(4)			100									
1975.71(23)			100									
2053.54(11)	⟨17⟩ ⁺			6(3)								
2171.99(24)	15 ⁻			100								
2297.91(12)	⟨15⟩ ⁻			x			x	x				
2370.5(21)					x							
2411.88(13)	⟨17⟩ ⁻			13(3)					87(3)			
2463.5(5)	⟨15 ⁻ ⟩				x		x					
2543.08(14)	⟨19⟩ ⁻									x	100	
2664.5(5)	⟨17 ⁻ ⟩								x	x	x	x
2748.09(15)	⟨21⟩ ⁻										8(4)	
2790.2(10)				100								
2891.91(18)	⟨19⟩ ⁺			25(12)		75(12)						
3148.35(14)	⟨21⟩ ⁺					94(3)						
3297.84(22)	⟨21 ⁻ ⟩					100						

Energy levels and branching ratios [00B105]. Part 4

 $^{107}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	2543.08 $\langle 19 \rangle^-$	2664.5 $\langle 17^- \rangle$	2733.68 X^-	2748.09 $\langle 21 \rangle^-$	2891.91 $\langle 19 \rangle^+$	2923.5 $\langle 19^- \rangle$	3004	3028.58	3034.4 23^-	3048.3
2732.9(24)	21^-	x										
2733.68(25)	X^-	100										
2748.09(15)	$\langle 21 \rangle^-$	92(2)										
2923.5(5)	$\langle 19^- \rangle$			100								
3004(1)				100								
3028.58(23)		78(2)				22(4)						
3034.4(4)	23^-				100							
3048.3(8)						100						
3056.25(17)	$\langle 23 \rangle^-$	5(2)				95(1)						
3148.35(14)	$\langle 21 \rangle^+$									6(2)		
3238.5(8)												100
3294.5(5)	$\langle 21^- \rangle$							100	x			
3460.51(15)	$\langle 23 \rangle^+$						9(3)					
3466.57(25)	$\langle 25 \rangle^-$					17(5)						
3520.0(11)	25^-										100	

Energy levels and branching ratios [00B105]. Part 5

 $^{107}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage											
		E_f^* : $2J_f^\pi$:	3056.25 $\langle 23 \rangle^-$	3148.35 $\langle 21 \rangle^+$	3238.5	3294.5 $\langle 21^- \rangle$	3297.84 $\langle 21^- \rangle$	3460.51 $\langle 23 \rangle^+$	3466.57 $\langle 25 \rangle^-$	3520.0 25^-	3598.1	3675.5 $\langle 23^- \rangle$	3683.02 $\langle 25 \rangle^+$
3460.51(15)	$\langle 23 \rangle^+$			87(6)			4.8(11)						
3466.57(25)	$\langle 25 \rangle^-$	83(2)											
3675.5(5)	$\langle 23^- \rangle$				100								
3683.02(18)	$\langle 25 \rangle^+$			8(3)				92					
3723.7(8)	27^-				100								
3927.9(4)	$\langle 27^- \rangle$	30(3)							70(8)				
3977.84(21)	$\langle 27^+ \rangle$							x					100
4023.5(11)									100				
4046.4(15)										100			
4102.5(5)	$\langle 25^- \rangle$											100	
4356.4(3)	$\langle 29 \rangle^+$												21(6)
4397.8(4)	$\langle 29^- \rangle$								36(7)				
4968.2(4)	29^+										17(3)		

Energy levels and branching ratios [00Bl05]. Part 6

¹⁰⁷Ag₄₇

E^* [keV]	$2J^\pi$	Branching ratios in percentage											
		E_f^* : $2J_f^\pi$:	3742.2	3927.9 $\langle 27^- \rangle$	3954.2	3977.84 $\langle 27^+ \rangle$	4023.5	4031.1	4356.4 $\langle 29 \rangle^+$	4375.1 $\langle 29^+ \rangle$	4397.8 $\langle 29^- \rangle$	4752.7 $\langle 31 \rangle^+$	4968.2 29^+
4031.1(10)			100										
4356.4(3)	$\langle 29 \rangle^+$					79(5)							
4375.1(3)	$\langle 29^+ \rangle$					100							
4397.8(4)	$\langle 29^- \rangle$			64(6)									
4752.7(3)	$\langle 31 \rangle^+$				16(4)			84(5)					
4753.0(15)							100						
4773.1(11)										100			
4968.2(4)	29^+				12(5)	41(4)		30(11)					
5006.7(5)	$\langle 31^- \rangle$			36(4)							64(10)		
5246.8(4)	$\langle 33 \rangle^+$								22(5)			78(5)	
5257.6(4)	31^+												100
5565.3(5)	$\langle 33^- \rangle$										43(10)		
5575.4(4)	33^+												30(9)
5748.0(4)	$\langle 35 \rangle^+$											32(8)	

Energy levels and branching ratios [00Bl05]. Part 7

¹⁰⁷Ag₄₇

E^* [keV]	$2J^\pi$	Branching ratios in percentage											
		E_f^* : $2J_f^\pi$:	5006.7 $\langle 31^- \rangle$	5246.8 $\langle 33 \rangle^+$	5257.6 31^+	5575.4 33^+	5748.0 $\langle 35 \rangle^+$	5944.9 35^+	6319.3 $\langle 37 \rangle^+$	6376.8 37^+	6887.8 39^+	7442.1 41^+	8046.6 43^+
5565.3(5)	$\langle 33^- \rangle$		57(7)										
5575.4(4)	33^+				70(4)								
5748.0(4)	$\langle 35 \rangle^+$			68(7)									
5944.9(4)	35^+				20(6)	80(6)							
6319.3(4)	$\langle 37 \rangle^+$			38(11)			62(7)						
6376.8(4)	37^+					20(7)		80(6)					
6887.8(5)	39^+							18(8)					
6912.4(4)	$\langle 39 \rangle^+$						37(10)		63(11)				
7442.1(5)	41^+									50(10)	50(6)		
8046.6(5)	43^+										21(11)	79(17)	
8718.1(6)	45^+											34(13)	66(14)

Energy levels and branching ratios [00Bl21].

¹⁰⁸Ag₄₇

E^*	J^π	L	$d\sigma/d\Omega$	C^2S	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			$\mu\text{b/sr}$	(d,p)	Γ_{cm}		$E^*_\text{f}:$	0.0	79.1	109	156	193
							$J^\pi_\text{f}:$	1^+	2^-	6^+	$5^+,6^+$	1^+
0.0	1^+	2		1.85	2.37(1) m	72Br52						
79.13(5)	2^-				1.2(4) ns			100				

(continued)

¹⁰⁸Ag
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E^*	J^π	L	$d\sigma/d\Omega$	C^2S	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			$\mu\text{b/sr}$	(d,p)	Γ_{cm}		E^*_f : J^π_f :	0.0 1 ⁺	79.1 2 ⁻	109 6 ⁺	156 5 ⁺ ,6 ⁺	193 1 ⁺
109.440(7)	6 ⁺				418(21) yr				100			
155.876(4)	5 ⁺ ,6 ⁺									100		
193.07(2)	1 ⁺				<0.5 ns			98(5)	2.2(2)			
206.61(2)	2 ⁺				<0.2 ns			100	0.20(3)			
215.382(2)	3 ⁺				46(1) ns			98(6)	2.2(2)			
286.7(5)								100				
290.5(4)												
294.561(2)	2 ⁺				<0.14 ns			82(7)				17(1)
324.495(2)	3 ⁺							1.4(1)				
331.6(5)								x				
338.419(2)	3 ⁻	2		1.40	<0.11 ns	72Br52			99(8)			
364.237(3)	3 ⁺ ,4 ⁺											
366.0(5)										100		
376.0(5)	$\langle 7^+ \rangle$									100		
379.242(2)	1 ⁻	0		0.95	<0.14 ns	72Br52		1.9(1)	95(8)			2.3(2)
408.364(2)	3 ⁺				<0.14 ns			3.5(2)				
420.7(6)												
440.2(6)	$\langle 6^- \rangle$									100		
460												
465.641(3)	0 ⁻	0		0.92		72Br52		71(5)	16(1)			13(1)
471.846(3)	3 ⁺ ,4 ⁺											
485.056(23)	4 ⁻ ,5 ⁻										100	
498.7(6)	$\langle 7^- \rangle$									29(2)		
508.477(2)	2 ⁻				<0.2 ns			43(3)	34(3)			
516.843*	3 ⁻	2+4		1.4,6.2	<0.14 ns	72Br52			28(2)			
523.7(5)	$\langle 6^+ \rangle$									36(2)		
534.4(6)	$\langle 8^- \rangle$											
537.5(5)								100				
542.848(3)	3 ⁻	2		0.56		72Br52			38(3)			
563.812(2)	2 ⁺				<0.14 ns			16(1)				6.5(5)
579.110(5)	0 ⁻ ,2 ⁻								77(8)			17(2)
587.361(3)	$\langle 4^- \rangle$					72DeZW						
598.654(3)	4 ⁻ ,3 ⁻								3.9(6)		0.8(3)	
606.53(3)	1 ⁻	0		1.15		72Br52		3.5(5)	56(4)			1.6(3)
611.659(3)	2 ⁺ ,3 ⁺							5.6(9)				
615.706(3)	3 ⁺											2.9(8)
616.943(3)	2 ⁻							34(3)	29(2)			9.9(7)
645.498(4)	$\langle 3^+ \rangle$								2.5(6)			
656.328(21)	3 ⁻	4		3.54		72Br52		68(8)				
656.652(4)	3 ⁺ ,4 ⁺											
674.7(5)								100				
679.092(5)	1 ⁻	0		0.50		72Br52		6.6(8)	75(4)			9(1)
688.1(6)	$\langle 9^- \rangle$											
698.8(7)												
703.583(5)	3 ⁻ ,4 ⁻								34(4)			

(continued)

¹⁰⁸Ag
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E^*	J^π	L	$d\sigma/d\Omega$	C^2S	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			$\mu\text{b/sr}$	(d,p)	Γ_{cm}		E_f^* : J_f^π :	0.0 1 ⁺	79.1 2 ⁻	109 6 ⁺	156 5 ⁺ ,6 ⁺	193 1 ⁺
705.692(56)	1 ⁻ ,2 ⁻								97(7)			
708.845(3)	$\langle 2 \rangle^-$								24(2)			
715.81(1)*	1 ⁻ ,2 ⁻	2+4		1.1,2,6		72Br52		5(1)	80(6)			2(2)
719.365(4)	1 ⁻ ,2 ⁻								67(5)			
735.0(6)	$\langle 7^+ \rangle$									49(8)		
765.467(3)	2 ⁻	2		0.68		72Br52		4(1)	9(2)			20(2)
779.727(4)	$\langle 2,3 \rangle^-$											
799.674(3)	3 ⁻											
801.6(6)	$\langle 7^+ \rangle$											
803.73(5)	2 ⁻	2		0.53		72Br52			73(5)			
810.1(6)	$\langle 8^+ \rangle$									20(3)		
819.117(74)	2 ⁻					72DeZW		21(4)	17(1)			
858.367(4)	$\langle 2,3 \rangle^-$	2		0.32		72Br52						
858.444(28)	$\langle 2,3,4^+ \rangle$											
869.302(8)	3 ⁺											
880.598(13)	2 ⁺							16(3)				51(4)
899.941(4)	1 ⁻	0		0.13		72Br52						
919.0(6)	$\langle 8^+ \rangle$											
942.334(14)	3 ⁻					72DeZW						
960.149(5)	2 ⁻								27(5)			
967.455(8)	$\langle 3,4^- \rangle$											
974.33(1)	2 ⁻					72DeZW			41(3)			
993(4)*		0+2		0.01,0.6		72Br52						
1001.80(1)	1 ⁺ ,2 ⁻											
1002.59(1)	1 ⁺ ,2 ⁻								18(4)			8(3)
1012.55(4)	1 ⁺ ,2,3								27(6)			
1012.724(4)	2 ⁻ ,3 ⁻											
1013.21(1)	$\langle 1^+,2,3^+ \rangle$								65(10)			
1034.41(1)	3 ⁺								57(17)			
1051.57(2)	$\langle 1^+ \rangle$								44(7)			
1051.84(1)	$\langle 2^- \rangle$	$\langle 2 \rangle$		0.17		72Br52			53(8)			22(7)
1079.20(1)	2 ⁻ –4 ⁻	$\langle 2 \rangle$		0.17		72Br52						
1079.82(1)	2							49(10)				11(4)
1091.4(6)	$\langle 10^- \rangle$											
1096.84(2)	$\langle 3 \rangle^+$											
1098.0(6)	$\langle 8^+ \rangle$									32(7)		
1106.68(2)	2 ⁺											
1109.31(1)	3 ⁺											
1112.25(2)	1 ⁺							22(9)				48(17)
1143.94(3)	1 ⁺											27(9)
1170(4)												
1176.47(5)	1,2											
1201.0(4)	$\langle 0^-,1^- \rangle$	$\langle 0 \rangle$		0.11		72Br52						
1231.7(5)	1											
1278.5(8)	1											

(continued)

¹⁰⁸Ag
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E^*	J^π	L	$d\sigma/d\Omega$	C^2S	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			$\mu\text{b/sr}$	(d,p)	Γ_{cm}		E_{f}^* : J_{f}^π :	0.0 1 ⁺	79.1 2 ⁻	109 6 ⁺	156 5 ⁺ ,6 ⁺	193 1 ⁺
1282.0(5)												
1314.2(7)	1											
1335(4)												
1352(4)												
1356.3(5)	1											
1371.8(6)	$\langle 9^+ \rangle$											
1373(4)												
1394						72DeZW						
1416.4(10)												
1422.5(6)	1											
1429(4)												
1435.9(6)	$\langle 11^- \rangle$											
1439.0(3)												
1462.3(6)	1											
1468(4)												
1489.5(6)	$\langle 9^+ \rangle$											
1491.1(15)												
1541.3(3)												
1568.5(5)	$\langle 1^- - 3^- \rangle$	2		0.73		72Br52						
1605(4)												
1624(4)												
1642.5(6)	$\langle 10^- \rangle$											
1644(4)												
1669.6(6)	$\langle 9^+ \rangle$											
1673.6(6)	$\langle 10^+ \rangle$											
1711.3(5)												
1739						72DeZW						
1756.6(5)						72DeZW						
1779(4)												
1787.4(6)	$\langle 10^- \rangle$											
1808.2(5)												
1826.76(23)												
1942.3(6)	$\langle 12^- \rangle$											
1988(4)												
2005(4)												
2022(4)												
2063.9(6)	$\langle 10^+ \rangle$											
2083(4)												
2096(4)												
2119(4)												
2144.5(6)	$\langle 11^- \rangle$											
2165(4)												
2201(4)												
2240(4)												
2261(4)												

(continued)

¹⁰⁸Ag
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E^*	J^π	L	$d\sigma/d\Omega$	C^2S	$T_{1/2}$ or Ref.	Branching ratios in percentage					
[keV]			$\mu\text{b/sr}$	(d,p)	Γ_{cm}	$E_{\text{f}}^*:$ $J_{\text{f}}^\pi:$	0.0 1 ⁺	79.1 2 ⁻	109 6 ⁺	156 5 ⁺ ,6 ⁺	193 1 ⁺
2275.8(6)	$\langle 11^- \rangle$										
2289(4)											
2301.6(6)	$\langle 11^- \rangle$										
2336(4)											
2362(4)											
2370.5(6)	$\langle 11^+ \rangle$										
2370.8(6)	$\langle 11^+ \rangle$										
2426.0(6)	$\langle 11^+ \rangle$										
2429(4)											
2444.1(7)	$\langle 13^- \rangle$										
2499(4)											
2538.0(6)	$\langle 12^- \rangle$										
2618(4)											
2668.0(7)	$\langle 12^+ \rangle$										
2675.1(6)	$\langle 12^+ \rangle$										
2707(4)											
2710.6(7)	$\langle 11^- \rangle$										
2728(4)											
2779(4)											
2848.7(7)	$\langle 13^- \rangle$										
2904.7(7)	$\langle 12^- \rangle$										
2908.3(6)	$\langle 13^+ \rangle$										
2994.9(7)	$\langle 14^- \rangle$										
3171.6(6)	$\langle 14^+ \rangle$										
3189.5(8)	$\langle 14^- \rangle$										
3493.9(6)	$\langle 15^+ \rangle$										
3559.3(7)	$\langle 15^- \rangle$										
3607.4(8)	$\langle 15^- \rangle$										
3871.7(7)	$\langle 16^+ \rangle$										
4091.6(7)	$\langle 16^- \rangle$										
4181.3(8)	$\langle 16^- \rangle$										
4312.0(7)	$\langle 17^+ \rangle$										

Additional data on this isotope can be found in [95Es04].

* Peak in cross section is broad and was analyzed as a doublet [72Br52, 00B121].

6 bands (No 1-6 marked here a,b,c,d,e,f) were assigned to excited states of this nucleus in [95Es04].

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

Energy levels and branching ratios [00Bl21]. Part 2

¹⁰⁸Ag
₄₇

E^* [keV]	J^π	$E_f^*:$ $J_f^\pi:$	207 2 ⁺	215 3 ⁺	290	294.6 2 ⁺	324.5 3 ⁺	338.4 3 ⁻	364.2 3 ⁺ ,4 ⁺	366.0	376.0 ⟨7 ⁺ ⟩
290.5(4)				100							
294.561(2)	2 ⁺		0.8(1)								
324.495(2)	3 ⁺		99(5)								
338.419(2)	3 ⁻		0.6(1)								
364.237(3)	3 ⁺ ,4 ⁺			100							
366.0(5)					x						
379.242(2)	1 ⁻		0.5(1)								
408.364(2)	3 ⁺		41(3)			55(3)					
420.7(6)										100	
471.846(3)	3 ⁺ ,4 ⁺						100				
498.7(6)	⟨7 ⁻ ⟩										4.8(11)
508.477(2)	2 ⁻		4.5(3)			1.8(1)		11.7(9)			
516.843*	3 ⁻		1.7(2)				0.67(13)	69(4)			
523.7(5)	⟨6 ⁺ ⟩									4(1)	36
534.4(6)	⟨8 ⁻ ⟩										30(5)
542.848(3)	3 ⁻			13(1)				48(4)	1.1(4)		
563.812(2)	2 ⁺			2.5(2)		20(1)	40(2)	1.26(10)			
587.361(3)	⟨4 ⁻ ⟩							23.4(16)			
598.654(3)	4 ⁻ ,3 ⁻						0.90(11)	4.0(3)			
606.53(3)	1 ⁻		19(1)			9.7(7)					
611.659(3)	2 ⁺ ,3 ⁺		5(1)	17(1)		49(3)	8.4(6)				
615.706(3)	3 ⁺						33(24)	2.1(6)	4.6(6)		
616.943(3)	2 ⁻		5.0(4)	1.0(3)		0.9(2)	2.0(2)	16(1)			
645.498(4)	⟨3 ⁺ ⟩		58(5)	2.4(8)		32(3)	2.5(3)				
656.328(21)	3 ⁻		23(4)					4.9(15)	4.5(15)		
656.652(4)	3 ⁺ ,4 ⁺						31(2)				
679.092(5)	1 ⁻		5.1(10)								
703.583(5)	3 ⁻ ,4 ⁻			10(3)				51(5)			
708.845(3)	⟨2 ⁻ ⟩		9(1)	7(1)		3.2(4)	13(1)	4.1(5)			
715.81(1)*	1 ⁻ ,2 ⁻		10(4)								
719.365(4)	1 ⁻ ,2 ⁻							31(2)			
735.0(6)	⟨7 ⁺ ⟩										51(6)
765.467(3)	2 ⁻		13(1)	2.6(7)				33(2)			
779.727(4)	⟨2,3⟩ ⁻		11(3)			13(2)		39(3)			
801.6(6)	⟨7 ⁺ ⟩										60(6)
803.73(5)	2 ⁻							14(4)			
810.1(6)	⟨8 ⁺ ⟩										48(3)
819.117(74)	2 ⁻					6(2)		4.2(11)			
858.444(28)	⟨2,3,4 ⁺ ⟩		44(4)				26(4)	30(6)			
869.302(8)	3 ⁺		38(9)			33(6)					
880.598(13)	2 ⁺			8(1)		12.8(9)					
899.941(4)	1 ⁻		8(3)								
960.149(5)	2 ⁻							42(4)			
967.455(8)	⟨3,4 ⁻ ⟩					23(6)					
974.33(1)	2 ⁻							19(2)			

(continued)

 $^{108}_{47}\text{Ag}$

E^* [keV]	J^π	Branching ratios in percentage								
		$E_f^*:$ $J_f^\pi:$	207 2 ⁺	215 3 ⁺	290	294.6 2 ⁺	324.5 3 ⁺	338.4 3 ⁻	364.2 3 ⁺ ,4 ⁺	366.0 376.0 ⟨7 ⁺ ⟩
1001.80(1)	1 ⁺ ,2 ⁻								25(5)	
1002.59(1)	1 ⁺ ,2 ⁻		43(5)			4(1)				
1012.55(4)	1 ⁺ ,2,3							63(13)	8(2)	
1013.21(1)	⟨1 ⁺ ,2,3 ⁺ ⟩					14(3)	17(3)			
1051.57(2)	⟨1 ⁺ ⟩		29(4)			12(6)				
1051.84(1)	⟨2 ⁻ ⟩							12(3)		
1096.84(2)	⟨3 ⁺ ⟩		32(5)				14(3)		16(22)	
1098.0(6)	⟨8 ⁺ ⟩									68(8)
1106.68(2)	2 ⁺					67(10)	27(10)			
1109.31(1)	3 ⁺		33(10)							
1112.25(2)	1 ⁺								8(2)	
1143.94(3)	1 ⁺		54(6)							
1176.47(5)	1,2		30(10)	33(12)						
1371.8(6)	⟨9 ⁺ ⟩									100

Energy levels and branching ratios [00Bl21]. Part 3

 $^{108}_{47}\text{Ag}$

E^* [keV]	J^π	Branching ratios in percentage								
		$E_f^*:$ $J_f^\pi:$	379.2 1 ⁻	408.4 3 ⁺	420.7	440.2 ⟨6 ⁻ ⟩	465.6 0 ⁻	471.8 3 ⁺ ,4 ⁺	485.1 4 ⁻ ,5 ⁻	498.7 ⟨7 ⁻ ⟩ 508.5 2 ⁻
498.7(6)	⟨7 ⁻ ⟩					66(3)				
508.477(2)	2 ⁻		5.7(4)							
523.7(5)	⟨6 ⁺ ⟩				23(1)					
534.4(6)	⟨8 ⁻ ⟩									70(14)
563.812(2)	2 ⁺			13.7(9)						
579.110(5)	0 ⁻ ,2 ⁻		6.5(7)							
587.361(3)	⟨4 ⁻ ⟩								77(5)	
598.654(3)	4 ⁻ ,3 ⁻								90(8)	
606.53(3)	1 ⁻		8.5(6)				1.9(2)			
611.659(3)	2 ⁺ ,3 ⁺			14.3(8)						
615.706(3)	3 ⁺			57(5)						
616.943(3)	2 ⁻		0.6(2)	1.1(1)						
645.498(4)	⟨3 ⁺ ⟩			2.0(5)				1.4(3)		
656.652(4)	3 ⁺ ,4 ⁺			69(6)						
679.092(5)	1 ⁻		3.4(12)							1.0(2)
703.583(5)	3 ⁻ ,4 ⁻							4.7(7)		
705.692(56)	1 ⁻ ,2 ⁻		0.89(21)				1.31(16)			0.83(16)
708.845(3)	⟨2 ⁻ ⟩									1.7(3)
715.81(1)*	1 ⁻ ,2 ⁻		2.6(2)				0.9(3)			
765.467(3)	2 ⁻		8.0(8)							5.5(4)
779.727(4)	⟨2,3 ⁻ ⟩							4(2)		
803.73(5)	2 ⁻									2.7(4)

(continued)

 $^{108}_{47}\text{Ag}$

E^*	J^π	Branching ratios in percentage									
[keV]		E_f^* : J_f^π :	379.2 1 ⁻	408.4 3 ⁺	420.7 $\langle 6^- \rangle$	440.2 $\langle 6^- \rangle$	465.6 0 ⁻	471.8 3 ⁺ , 4 ⁺	485.1 4 ⁻ , 5 ⁻	498.7 $\langle 7^- \rangle$	508.5 2 ⁻
819.117(74)	2 ⁻		48(3)	1.5(8)			2.5(3)				
858.367(4)	$\langle 2, 3 \rangle^-$		28(2)								6.9(10)
869.302(8)	3 ⁺			13(3)				12(2)			
880.598(13)	2 ⁺			11(2)							
899.941(4)	1 ⁻		28(2)								6(1)
960.149(5)	2 ⁻		13(2)								
967.455(8)	$\langle 3, 4^- \rangle$								37(3)		
974.33(1)	2 ⁻		11.2(10)								
1001.80(1)	1 ⁺ , 2 ⁻		31(6)				9(2)				
1002.59(1)	1 ⁺ , 2 ⁻			3.7(11)							3.8(7)
1012.724(4)	2 ⁻ , 3 ⁻										17(2)
1034.41(1)	3 ⁺			32(12)							
1079.20(1)	2 ⁻ -4 ⁻								14(3)		
1079.82(1)	2			13(2)							5.3(9)
1096.84(2)	$\langle 3 \rangle^+$								13(2)		
1109.31(1)	3 ⁺			13(4)							
1112.25(2)	1 ⁺						7.3(11)				
1176.47(5)	1, 2		19(13)								

Energy levels and branching ratios [00Bl21]. Part 4

 $^{108}_{47}\text{Ag}$

E^*	J^π	Branching ratios in percentage									
[keV]		E_f^* : J_f^π :	516.8 3 ⁻	523.7 ⟨6 ⁺ ⟩	534.4 ⟨8 ⁻ ⟩	542.8 3 ⁻	563.8 2 ⁺	579.1 0 ⁻ , 2 ⁻	587.4 ⟨4⟩ ⁻	598.7 4 ⁻ , 3 ⁻	606.5 1 ⁻
688.1(6)	⟨9 ⁻ ⟩				100						
708.845(3)	⟨2⟩ ⁻		9(5)			3.8(4)			10(1)	7(1)	
719.365(4)	1 ⁻ , 2 ⁻		2.5(3)								
765.467(3)	2 ⁻		1.6(2)			0.9(2)					
779.727(4)	⟨2, 3⟩ ⁻		23(2)			10(1)					
799.674(3)	3 ⁻								25.9(16)	74(5)	
801.6(6)	⟨7 ⁺ ⟩			40(4)							
803.73(5)	2 ⁻		8.5(7)								1.5(3)
858.367(4)	⟨2, 3⟩ ⁻								10.9(8)	51(4)	
919.0(6)	⟨8 ⁺ ⟩			85(3)							
942.334(14)	3 ⁻		61(15)								
960.149(5)	2 ⁻		3.8(10)								
967.455(8)	⟨3, 4 ⁻ ⟩						7(2)				
974.33(1)	2 ⁻		4.6(9)								
1001.80(1)	1 ⁺ , 2 ⁻										8(2)
1002.59(1)	1 ⁺ , 2 ⁻						17(6)				
1012.55(4)	1 ⁺ , 2, 3						2(1)				
1012.724(4)	2 ⁻ , 3 ⁻										5.7(10)

(continued)

 $^{108}_{47}\text{Ag}$

E^* [keV]	J^π	Branching ratios in percentage									
		$E^*_f:$ $J^\pi_f:$	516.8 3 ⁻	523.7 6 ⁺	534.4 8 ⁻	542.8 3 ⁻	563.8 2 ⁺	579.1 0 ⁻ ,2 ⁻	587.4 4 ⁻	598.7 4 ⁻ ,3 ⁻	606.5 1 ⁻
1051.57(2)	1 ⁺						14(1)				
1051.84(1)	2 ⁻									4.5(7)	
1079.20(1)	2 ⁻ -4 ⁻								10(2)		
1079.82(1)	2								5(1)		6(1)
1091.4(6)	10 ⁻				6.7(10)						
1096.84(2)	3 ⁺						19(2)				
1143.94(3)	1 ⁺						17(2)				
1176.47(5)	1,2							18(2)			
1489.5(6)	9 ⁺				41(4)						
1642.5(6)	10 ⁻				100						

Energy levels and branching ratios [00Bl21]. Part 5

 $^{108}_{47}\text{Ag}$

E^* [keV]	J^π	Branching ratios in percentage									
		$E^*_f:$ $J^\pi_f:$	611.7 2 ⁺ ,3 ⁺	615.7 3 ⁺	616.9 2 ⁻	645.5 3 ⁺	656.7 3 ⁺ ,4 ⁺	679.1 1 ⁻	688.1 9 ⁻	703.6 3 ⁻ ,4 ⁻	705.7 1 ⁻ ,2 ⁻
708.845(3)	2 ⁻				8(3)						
765.467(3)	2 ⁻				1.9(2)						
858.367(4)	2,3 ⁻				3.2(8)						
880.598(13)	2 ⁺		1.6(6)								
899.941(4)	1 ⁻				36(3)						
942.334(14)	3 ⁻				39(9)						
960.149(5)	2 ⁻				1.0(5)						
967.455(8)	3,4 ⁻				9(2)	16(2)					6.4(9)
974.33(1)	2 ⁻				4		2.5(3)				2.5(3)
1001.80(1)	1 ⁺ ,2 ⁻						16(2)				
1012.724(4)	2 ⁻ ,3 ⁻		3.8(18)								
1013.21(1)	1 ⁺ ,2,3 ⁺		2.3(6)								
1034.41(1)	3 ⁺		3.8(11)								
1051.57(2)	1 ⁺										1.2(4)
1051.84(1)	2 ⁻			6(2)							
1079.20(1)	2 ⁻ -4 ⁻									13(3)	
1079.82(1)	2				6(1)	5(1)					
1091.4(6)	10 ⁻								93(3)		
1109.31(1)	3 ⁺		24(2)								
1112.25(2)	1 ⁺		13.0(12)				1.4(6)				
1435.9(6)	11 ⁻								24.1(8)		

Energy levels and branching ratios [00Bl21]. Part 6

¹⁰⁸Ag
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E^*	J^π	Branching ratios in percentage									
[keV]		E_f^* : J_f^π :	708.8 $\langle 2 \rangle^-$	715.8 $1^-, 2^-$	719.4 $1^-, 2^-$	735.0 $\langle 7^+ \rangle$	765.5 2^-	779.7 $\langle 2, 3 \rangle^-$	799.7 3^-	801.6 $\langle 7^+ \rangle$	803.7 2^-
810.1(6)	$\langle 8^+ \rangle$					33(7)					
869.302(8)	3^+		4(2)								
899.941(4)	1^-				2.6(7)		19(2)				
919.0(6)	$\langle 8^+ \rangle$									14.7(10)	
960.149(5)	2^-			6.6(5)	3.8(5)				2.3(6)		
974.33(1)	2^-								16(8)		
1001.80(1)	$1^+, 2^-$			12(1)							
1002.59(1)	$1^+, 2^-$						2.2(6)				
1012.724(4)	$2^-, 3^-$								74(5)		
1034.41(1)	3^+							4(2)			4.0(8)
1079.20(1)	$2^- - 4^-$								63(9)		
1096.84(2)	$\langle 3 \rangle^+$		7(2)								
1106.68(2)	2^+							5.4(10)			
1109.31(1)	3^+			21(1)							
1489.5(6)	$\langle 9^+ \rangle$									27(4)	
1669.6(6)	$\langle 9^+ \rangle$					100					

Energy levels and branching ratios [00Bl21]. Part 7

¹⁰⁸Ag
47

E^*	J^π	Branching ratios in percentage									
[keV]		E_f^* : J_f^π :	810.1 $\langle 8^+ \rangle$	819.1 2^-	869.3 3^+	919.0 $\langle 8^+ \rangle$	942.3 3^-	960.1 2^-	1079.2	1091.4 $\langle 10^- \rangle$	1098.0 $\langle 8^+ \rangle$
1013.21(1)	$\langle 1^+, 2, 3^+ \rangle$				1.5(6)						
1051.84(1)	$\langle 2^- \rangle$			2.7(7)							
1079.82(1)	2						x				
1109.31(1)	3^+							8(1)	0.5(1)		
1143.94(3)	1^+				2.0(10)						
1435.9(6)	$\langle 11^- \rangle$									76(2)	
1489.5(6)	$\langle 9^+ \rangle$					31(4)					
1673.6(6)	$\langle 10^+ \rangle$					96(4)					
1787.4(6)	$\langle 10^- \rangle$		100								
1942.3(6)	$\langle 12^- \rangle$									19(2)	
2063.9(6)	$\langle 10^+ \rangle$										46(9)
2144.5(6)	$\langle 11^- \rangle$									30(6)	
2275.8(6)	$\langle 11^- \rangle$									100	

Energy levels and branching ratios [00Bl21]. Part 8

¹⁰⁸Ag
47

E^* [keV]	J^π	Branching ratios in percentage									
		E_f^* : J_f^π :	1371.8 ⟨9 ⁺ ⟩	1435.9 ⟨11 ⁻ ⟩	1489.5 ⟨9 ⁺ ⟩	1642.5 ⟨10 ⁻ ⟩	1669.6 ⟨9 ⁺ ⟩	1673.6 ⟨10 ⁺ ⟩	1787.4 ⟨10 ⁻ ⟩	1942.3 ⟨12 ⁻ ⟩	2144.5 ⟨11 ⁻ ⟩
1673.6(6)	⟨10 ⁺ ⟩				3.8(11)						
1942.3(6)	⟨12 ⁻ ⟩			81(3)							
2063.9(6)	⟨10 ⁺ ⟩		54(9)								
2144.5(6)	⟨11 ⁻ ⟩					70(12)					
2301.6(6)	⟨11 ⁻ ⟩									100	
2370.5(6)	⟨11 ⁺ ⟩				61(11)			39(11)			
2370.8(6)	⟨11 ⁺ ⟩	100									
2426.0(6)	⟨11 ⁺ ⟩				100						
2444.1(7)	⟨13 ⁻ ⟩			42(4)						58(12)	
2538.0(6)	⟨12 ⁻ ⟩			12(3)		17(3)				19(3)	27(2)
2668.0(7)	⟨12 ⁺ ⟩							100			
2675.1(6)	⟨12 ⁺ ⟩							69(4)			
2710.6(7)	⟨11 ⁻ ⟩						100				
2904.7(7)	⟨12 ⁻ ⟩								100		
2994.9(7)	⟨14 ⁻ ⟩									40(7)	

Energy levels and branching ratios [00Bl21]. Part 9

¹⁰⁸Ag
47

E^* [keV]	J^π	Branching ratios in percentage									
		E_f^* : J_f^π :	2275.8 ⟨11 ⁻ ⟩	2301.6 ⟨11 ⁻ ⟩	2370.5 ⟨11 ⁺ ⟩	2370.8 ⟨11 ⁺ ⟩	2426.0 ⟨11 ⁺ ⟩	2444.1 ⟨13 ⁻ ⟩	2538.0 ⟨12 ⁻ ⟩	2668.0 ⟨12 ⁺ ⟩	2675.1 ⟨12 ⁺ ⟩
2538.0(6)	⟨12 ⁻ ⟩		10(2)	15(2)							
2675.1(6)	⟨12 ⁺ ⟩				16(2)		15(2)				
2848.7(7)	⟨13 ⁻ ⟩								100		
2908.3(6)	⟨13 ⁺ ⟩					18(3)				39(3)	44(2)
2994.9(7)	⟨14 ⁻ ⟩							60(5)			
3171.6(6)	⟨14 ⁺ ⟩										24(4)
3559.3(7)	⟨15 ⁻ ⟩							40(8)			

Energy levels and branching ratios [00Bl21]. Part 10

¹⁰⁸Ag
47

E^* [keV]	J^π	Branching ratios in percentage									
		E_f^* : J_f^π :	2848.7 ⟨13 ⁻ ⟩	2908.3 ⟨13 ⁺ ⟩	2994.9 ⟨14 ⁻ ⟩	3171.6 ⟨14 ⁺ ⟩	3189.5 ⟨14 ⁻ ⟩	3493.9 ⟨15 ⁺ ⟩	3559.3 ⟨15 ⁻ ⟩	3607.4 ⟨15 ⁻ ⟩	3871.7 ⟨16 ⁺ ⟩
3171.6(6)	⟨14 ⁺ ⟩			76(3)							
3189.5(8)	⟨14 ⁻ ⟩	100									
3493.9(6)	⟨15 ⁺ ⟩			20(5)		80(4)					
3559.3(7)	⟨15 ⁻ ⟩				60(8)						
3607.4(8)	⟨15 ⁻ ⟩						100				

(continued)

¹⁰⁸Ag
47

E^* [keV]	J^π	Branching ratios in percentage									
		$E_f^*:$ $J_f^\pi:$	2848.7 ⟨13 ⁻ ⟩	2908.3 ⟨13 ⁺ ⟩	2994.9 ⟨14 ⁻ ⟩	3171.6 ⟨14 ⁺ ⟩	3189.5 ⟨14 ⁻ ⟩	3493.9 ⟨15 ⁺ ⟩	3559.3 ⟨15 ⁻ ⟩	3607.4 ⟨15 ⁻ ⟩	3871.7 ⟨16 ⁺ ⟩
3871.7(7)	⟨16 ⁺ ⟩					27(6)		73(4)			
4091.6(7)	⟨16 ⁻ ⟩				32(10)				68(10)		
4181.3(8)	⟨16 ⁻ ⟩						26(11)			74(10)	
4312.0(7)	⟨17 ⁺ ⟩							38(9)			62(8)

Energy levels and branching ratios [99Bl07, 06Bl02]

¹⁰⁹Ag
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E^*	$2J^\pi$	L	ε	L	C^2S'	L	C^2S	σ (d, τ)	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(t,p)	(t,p)		(τ ,d)		(d, τ)	μ b/sr	Γ_{cm}		E_{f}^* : $2J_{\text{f}}^\pi$:	0.0 1 ⁻	88.0 7 ⁺	132.7 9 ⁺	311 3 ⁻	415 5 ⁻
0.0	1 ⁻	0	2.24	1	0.86	1	1.3	470	Stable	76Va25						
88.034(1)	7 ⁺				<0.2				39.6(2) s			100				
132.74(11)	9 ⁺			4	2.4	4	5.6	710	2.6(12) ns	76Va25			100			
311.38(8)	3 ⁻	2	0.07	1	0.43	1	0.8	350	5.9(7) ps	76Va25		100				
415.2(2)	5 ⁻	2	0.11	$\langle 3 \rangle$	≈ 0.2	$\langle 4 \rangle$	0.5	50	32.6(16) ps	76Va25		93(9)				7(1)
420(10)	7 ⁺ , 9 ⁺															
701.9(2)	3 ⁻	2	0.02			1	0.6	220	0.5(2) ps	76Va25		74(7)				22(4) 3.4(9)
706(5)	1 ⁺			0	0.29					73Au07						
707.0(2)												90(11)				10(5)
724.3(1)	$\langle 3 \rangle^+$								3.2(8) ns			0.9(2)	46(2)		30(5)	23(7)
735.3(1)	5 ⁺			2	1.4	2	0.2	60		76Va25			73	23.9(14)	2.9(6)	
773.5(11)	11 ⁺												100			
789(11)																
862.8(2)	5 ⁻	2	0.06			$\langle 3 \rangle$	0.7	160	1.3(4) ps	76Va25		8(2)			39(9)	53(13)
869.5(1)	5 ⁺			2	0.75			incl		73Au07			66(7)	10(1)	14(2)	3(1)
870(10)	5 ⁻ , 7 ⁻							incl								
890(10)	7 ⁺ , 9 ⁺					$\langle 4 \rangle$	0.7	incl		76Va25						
911.0(4)	7 ⁺	4	0.06	4	2.7					73Au07						
912.1	7 ⁻														20(4)	80(4)
930.8(10)	13 ⁺												93(1)			
1091(1)	9 ⁽⁻⁾	$\langle 5 \rangle$	0.10							77An01						100
1099(1)	$\langle 5, 7 \rangle$															
1200(10)	7 ⁺ , 9 ⁺			4	0.15	$\langle 4 \rangle$	0.5	50		76Va25						
1260(5)	1 ⁻	0	0.09	1	0.02					73Au07						
1310(10)	1 ⁻ , 3 ⁻				0.02	1	0.7	210		76Va25						
1324(1)	$\langle 3 \rangle^-$	2	0.06						0.31(9) ps			14(3)			86(4)	
1430(10)	1 ⁺			0	0.03					73Au07						
1490(5)	3 ⁺ , 5 ⁺			2	0.36					73Au07						
1500(5)	3 ⁻	2	0.02			1	0.4	130		76Va25						
1524(5)	$\langle 3, 5 \rangle^-$	2	0.03							77An01						
1570																
1599(5)		$\langle 3, 4 \rangle$								77An01						

(continued)

¹⁰⁹Ag
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E^* [keV]	$2J^\pi$	L (t,p)	ε (t,p)	L	C^2S' (τ ,d)	L	C^2S (d, τ)	σ (d, τ) $\mu\text{b/sr}$	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage					
											E_f^* :	0.0	88.0	132.7	311	415
											$2J_f^\pi$:	1 ⁻	7 ⁺	9 ⁺	3 ⁻	5 ⁻
1613(5)	1 ⁻	0	0.015							77An01						
1658(10)	1 ⁺			0	0.20					73Au07						
1675																
1703(1)	15 ⁺															
1736(5)	$\langle 3,5 \rangle^-$	2	0.08							77An01						
1792(5)	$\langle 7,9 \rangle^-$	4	0.003							77An01						
1815(5)	$\langle 3,5 \rangle^-$	2	0.038							77An01						
1839(5)	3 ⁺ ,5 ⁺	2	0.058	2	0.93					77An01						
1844(5)	$\langle 3,5 \rangle^-$															
1860(10)	7 ⁺ ,9 ⁺					$\langle 4 \rangle$	1.2	110		76Va25						
1891(5)	$\langle 7,9 \rangle^-$	4	0.019							77An01						
1894(1)	17 ⁺															
1950(5)	$\langle 7,9 \rangle^-$	4	0.012							77An01						
1970(10)	3 ⁺ ,5 ⁺			2	0.23					73Au07						
1993(5)	$\langle 3,5 \rangle^-$	2	0.050							77An01						
2043(11)																
2062(10)	$\langle 7,9 \rangle^-$	4	0.014							77An01						
2093(10)	$\langle 3,5 \rangle^-$	2	0.042							77An01						
2124(10)	$\langle 5,7 \rangle^+$	3	0.102	4	1.1					73Au07						
2185(10)		$\langle 4 \rangle$	0.024							77An01						
2199(10)		$\langle 4 \rangle$	0.013							77An01						
2206(1)	15 ⁻															
2222(10)		$\langle 4 \rangle$	0.012		x					77An01						
2256(10)	9 ⁺ ,11 ⁺	5	0.035							77An01						
2267(10)	$\langle 5,7 \rangle^+$	3	0.068							77An01						
2314(10)		$\langle 2 \rangle$	0.045							77An01						
2320(5)	1 ⁺			0	0.10					73Au07						
2364(10)	9 ⁺ ,11 ⁺	5	0.019							77An01						
2420(1)	17 ⁻															
2434(10)	$\langle 7,9 \rangle^-$	4	0.034							77An01						
2466(10)	$\langle 7,9 \rangle^-$	4	0.054							77An01						
2470(6)	1 ⁺			0	0.15					73Au07						
2480(1)	17 ⁻															
2537(10)	$\langle 9,11 \rangle^+$	5	0.040							77An01						
2567(1)	19 ⁺															
2568(1)	19 ⁻															
2569(10)		$\langle 5 \rangle$	0.067							77An01						
2614(10)		$\langle 4 \rangle$	0.062							77An01						
2659(10)																
2660(1)	19 ⁻															
2741(1)	21 ⁻															
2841(1)	21 ⁺															
2940(1)	$\langle 21^- \rangle$															
2989(1)	23 ⁻															
3090(1)	23 ⁺															

(continued)

 $^{109}_{47}\text{Ag}$

E^*	$2J^\pi$	L	ε	L	C^2S'	L	C^2S	σ (d, τ)	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]		(t,p)	(t,p)		(τ ,d)		(d, τ)	$\mu\text{b/sr}$	Γ_{cm}		E_{f}^* :	0.0	88.0	132.7	311	415
											$2J_{\text{f}}^\pi$:	1 ⁻	7 ⁺	9 ⁺	3 ⁻	5 ⁻
3203.5(11)	$\langle 23^- \rangle$															
3275(10)	$\langle 3,5 \rangle^+$			2	0.10					73Au07						
3276.4(11)	25^+															
3316.7(11)	25^-															
3575.2(11)	27^+															
3968.7(11)	29^+															
4375.8(11)	31^+															
4886.4(11)	33^+															
5414.5(11)	$\langle 35^+ \rangle$															
			77An01		73Au07	76Va25				Ref.						

Additional data on this isotope can be found in [06Bl02, 70Fo01].

Abundance: 48.161(8) %.

The assignment of three bands can be found in [06Bl02].

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

Energy levels and branching ratios [99Bl07, 06Bl02] Part 2

 $^{109}_{47}\text{Ag}$

E^*	$2J^\pi$	Branching ratios in percentage										
		E^*_f :	724	773	931	1703	1894	2206.5	2420	2480	2567	2568.4
[keV]		$2J^\pi_f$:	$\langle 3 \rangle^+$	11^+	13^+	15^+	17^+	15^-	17^-	17^-	19^+	19^-
<hr/>												
869.5(1)	5^+		7(1)									
930.8(10)	13^+			7(1)								
1703(1)	15^+			19(7)	81(12)							
1894(1)	17^+				100							
2206(1)	15^-				100							
2420(1)	17^-							100				
2480(1)	17^-							100				
2567(1)	19^+					52(16)	48(13)					
2568(1)	19^-								100	x		
2660(1)	19^-								100			
2741(1)	21^-											100
2841(1)	21^+						69(3)				31(4)	

Energy levels and branching ratios [99Bl07, 06Bl02] Part 3

 $^{109}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage											
		E_f^* : $2J_f^\pi$:	2660.5 19 ⁻	2740.6 21 ⁻	2840.8 21 ⁺	2940.2 $\langle 21^- \rangle$	2988.7 23 ⁻	3090.2 23 ⁺	3276.4 25 ⁺	3575.2 27 ⁺	3968.7 29 ⁺	4375.8 31 ⁺	4886.4 33 ⁺
2940(1)	$\langle 21^- \rangle$		100										
2989(1)	23 ⁻			100									
3090(1)	23 ⁺				100								
3203.5(11)	$\langle 23^- \rangle$					100							
3276.4(11)	25 ⁺							100					
3316.7(11)	25 ⁻						100						
3575.2(11)	27 ⁺								100				
3968.7(11)	29 ⁺									100			
4375.8(11)	31 ⁺										100		
4886.4(11)	33 ⁺											100	
5414.5(11)	$\langle 35^+ \rangle$												100

Energy levels and branching ratios [00De11].

 $^{110}_{47}\text{Ag}$

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Branching ratios in percentage							
			E_f^* : J_f^π :	0.0 1 ⁺	1.11 2 ⁻	118.7 3 ⁺	191.2 3	191.6	198.7 2 ⁺	236.8
0.0	1 ⁺	24.6(2) s								
1.113	2 ⁻	660(40) ns		x						
117.59(5)	6 ⁺	249.76(4) d			100					
118.718	3 ⁺	36.7(7) ns		x	100					
191.2	3			x						
191.623	2 ⁺ -4 ⁺					100				
198.700	2 ⁺	<0.08 ns		100	x					
236.858	1 ⁻ -3 ⁻	<0.24 ns			x					
237.050	$\langle 1^- - 3^- \rangle$	0.43(8) ns		100	x					
267.22	1,2 ⁺	<0.08 ns		81(9)	9				10(2)	
269(4)	1 ⁻ -3 ⁻									
271.474	2 ⁺ -4 ⁺					21(4)		79(8)		
301.7				x			x			
304.524	1 ⁺ -3 ⁺	<0.16 ns		5					95(10)	
337(4)	0 ⁻ ,1 ⁻									
338.918		<0.08 ns		x	x					
360.621	1 ⁺ -3 ⁺	<0.04 ns		31	31				8(2)	x
378(4)	1 ⁻ -3 ⁻									
381.20		<0.42 ns		66	16					9(2)
411.98				x		x		x		
424.710		<0.13 ns		x	x					
432.373		<0.08 ns			x	x		x	x	100
456.525						x				
466.890		<0.22 ns				x		x		
468.846						x			x	

(continued)

 $^{110}_{47}\text{Ag}$

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage							
[keV]		Γ_{cm}	$\begin{smallmatrix} E^*_\text{f}: \\ J^\pi_\text{f}: \end{smallmatrix}$	0.0 1^+	1.11 2^-	118.7 3^+	191.2 3	191.6	198.7 2^+	236.8
471.233									x	
484(4)	$0^-, 1^-$									
485.776	X^+	<0.1 ns				x		x	x	x
496.878		<0.08 ns		x	x				x	x
525.663		<0.08 ns			x				x	x
527.511		<0.4 ns			x	x		x	x	
536(4)	$0^-, 1^-$									
536.18		<0.16 ns		x						x
549.38		<0.08 ns		x						x
586.8				x						
594(4)	1^--3^-									
595.03		<0.16 ns		x	x					x
613.038		<0.07 ns				x				
615.134		<0.06 ns			x					x
633.437		<0.14 ns								
653.910		<0.36 ns			x			x		x
663.472		<0.22 ns			x				x	
664.922		<0.5 ns			x				x	x
683.143		<0.46 ns							x	
689.46		<0.46 ns				x				
698.548		<0.16 ns		x						
706.126						x		x	x	
711(4)	$0^-, 1^-$									
724.65				x	x	x				
725.80		<0.8 ns								
748.575		<0.8 ns		x					x	
750.877		<0.12 ns		x		x				
767.032		<1.3 ns			x	x				
773.677		<0.46 ns		x		x			x	
785.660		<0.5 ns		x		x			x	
793(4)	1^--3^-									
802.70						x		x		
811.416		<0.22 ns							x	
819.002		<0.72 ns							x	
864(4)	1^--3^-									
925(4)										
948(4)	1^--3^-									
1026(4)	$\langle 1^--3^- \rangle$									
1115(4)	1^--3^-									
1165(4)	1^--3^-									
1188(4)										
1230(4)	1^--3^-									
1315(4)	$0^-, 1^-$									
1343(4)										
1377(4)										

(continued)

 $^{110}_{47}\text{Ag}$

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Branching ratios in percentage							
			$E_f^*:$ $J_f^\pi:$	0.0 1 ⁺	1.11 2 ⁻	118.7 3 ⁺	191.2 3	191.6	198.7 2 ⁺	236.8
1402(4)	1 ⁻ -3 ⁻									
1480(4)										
1513(4)										
1535(4)										
1568(4)	1 ⁻ -3 ⁻									
1659(4)										
6809.20(10)	0 ⁻ ,1 ⁻									

Additional data on this isotope can be found in [02Po11, 91Ko0A].

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

Energy levels and branching ratios [00De11]. Part 2

 $^{110}_{47}\text{Ag}$

E^*	J^π	Branching ratios in percentage										
[keV]		E_f^* : J_f^π :	237.0	267.22 1,2 ⁺	271.474	304.524	338.918	360.621	381.20	424.710	432.373	456.525
338.918	1 ⁺ –3 ⁺		x									
360.621			x	31(3)								
381.20			9(2)	x								
424.710			x	x								
432.373				x								
456.525	X ⁺				x							
466.890						x						
468.846			x		x	x		x				
471.233			x			100						
485.776				x		x		100				
496.878			x	x					x			
525.663			x				x					
527.511					x		x	x				
536.18				x		x		x				
549.38				x	x	x		x				
595.03			x									
613.038							x			x		
615.134			x					x			x	
633.437			x	x				x	x			
653.910							x					
663.472						x		x				
664.922			x		x		x	x	x			
683.143				x		x		x				
689.46				x								x
698.548			x					x	x	x		
706.126					x			x				
725.80			x				x		x	x		

(continued)

 $^{110}_{47}\text{Ag}$

E^*	J^π	Branching ratios in percentage									
[keV]	$E_f^*:$ $J_f^\pi:$	237.0	267.22 1,2 ⁺	271.474	304.524	338.918	360.621	381.20	424.710	432.373	456.525
748.575						x	x	x	x		
750.877			x		x		x				
767.032							x				
773.677	x			x					x		
785.660				x							
811.416			x	x			x				
819.002	x			x						x	

Energy levels and branching ratios [00De11]. Part 3

 $^{110}_{47}\text{Ag}$

E^* [keV]	J^π	Branching ratios in percentage									
		$E_f^*:$ $J_f^\pi:$	468.846	471.233	485.776 X ⁺	496.878	525.663	527.511	536.18	549.38	653.910
633.437						x					
653.910		x				x					
663.472		x			x					x	
683.143		x					x				
698.548					x	x			x	x	
706.126		x			x				x	x	
724.65				x							
725.80						x					
748.575									x		
750.877								x			
767.032		x									
773.677						x			x		
785.660		x				x	x		x	x	
802.70							x				
811.416		x			x				x		
819.002									x		x

Energy levels and branching ratios [03B110].

 $^{111}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	L	ε (t,p)	L	C^2S (τ ,d)	L	C^2S (d, τ)	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage					
										$E_f^*:$ $2J_f^\pi:$	0.0 1 ⁻	59.8 7 ⁺	130 9 ⁺	290 3 ⁻	377 3 ⁺
0.0	1 ⁻	0	2.70	1	0.96	1	1.5	7.45(1) d	77An18						
59.82(4)	7 ⁺							64.8(8) s		100					
130.28(5)	9 ⁺			4	1.90	4	5.4	1.22(2) ns	77An18			100			
289.71(5)	3 ⁻	2	0.084	1	0.47	1	1.0		77An18	100					

(continued)

¹¹¹Ag
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E^*	$2J^\pi$	L	ε	L	C^2S	L	C^2S	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			(t,p)		(τ ,d)		(d, τ)	Γ_{cm}		E_f^* : $2J_f^\pi$:	0.0 1 ⁻	59.8 7 ⁺	130 9 ⁺	290 3 ⁻	377 3 ⁺
376.71(5)	3 ⁺			2	0.86		0.5	16(1) ns	77An18	94(1)	3.2(1)			3.2	
391.28(5)	5 ⁻	2	0.118						77An01	97				3.5(1)	
404.86(9)	1 ⁺			0	0.37				77An18	100					
545.72(6)	7 ⁺			4	2.08*				77An18			18.5(4)	61(1)		21(1)
568.67(19)	5 ⁺			2	1.04*	2	0.2		76Va25			95(31)		5(1)	
568.8(2)	5 ⁺											80(20)	20(2)		
606.87(6)	5 ⁺			2	0.16*				77An18			77(2)	15.4(2)		5.3(5)
641.93(7)	3 ⁻	2	0.020	1	0.24	1	0.6		76Va25	71(2)				26(2)	
683.05(7)	9 ⁺			4	0.011				77An18			95(6)	5.5(9)		
705.42(9)	11 ⁽⁺⁾											5.7(8)	94(1)		
710.29(7)	$\langle 5^+, 7^+ \rangle$											38(3)	62		
809.17(9)	5 ⁻	2	0.060			$\langle 3 \rangle$	0.8		76Va25	7(3)				39(3)	
824.46(8)	11 ⁺ , 13 ⁺			$\langle 4 \rangle$	0.21	$\langle 4 \rangle$	0.6		76Va25				95(2)		
845.88(8)	7 ⁻	[4]	0.005						77An01					17(1)	
876.63(8)	9 ⁺			1+4								33(1)	47(1)		
958.96(11)	11 ⁺												3(1)		
986.82(8)	5 ⁻	2	0.004						77An01					40(2)	
1013.06(12)	9 ⁺			4	0.66, 0.33				77An18						
1023.98(8)	9 ⁻	[4]	0.007						77An01				2(1)		
1062.27(15)	3 ⁺											40(3)		3(1)	35(1)
1082(5)	1 ⁻	0	0.052	1	0.050				77An18						
1085.48(8)	$\langle 7^+ \rangle$												50(2)		
1086.64(10)	$\langle 3^+, 5^+ \rangle$											6(1)			81(2)
1119.68(10)	$\langle 3^+ \rangle$											58(3)		17(6)	25(9)
1125.35(9)	11 ⁺														
1147(5)				0+2					77An18						
1153.41(8)	7 ⁻												8.2(7)	6(1)	
1159.78(24)													15(2)		
1170.2(4)	$\langle 3^+, 5^+ \rangle$														84(10)
1180.16(10)	5 ⁺			2	0.18*				77An18			57(2)		7(3)	7(3)
1198.88(11)	$\langle 1 \rangle$													100	
1201(5)	3 ⁻ , 5 ⁻	2	0.018						77An01						
1202.3(5)	11, 13														
1210.38(9)	3 ⁺			2	0.11*				77An18					33(1)	11(8)
1262.79(21)															
1276.6(5)	9 ⁺														
1278(7)	1 ⁻ , 3 ⁻			1	≈ 0.02				77An18						
1284.6(5)	$\langle 7^-, 5^- \rangle$														
1299.17(11)	5 ⁻ , 7 ⁻													100	
1300(7)	1 ⁻ , 3 ⁻					1	0.2		76Va25						
1301.5(5)															
1376.8(3)	7 ⁻														
1388.0(5)	$\langle 11 \rangle$														
1417.91(11)	5 ⁻													100	
1419(7)	1 ⁻ , 3 ⁻	2	0.009			1	1.1		76Va25						

(continued)

¹¹¹Ag
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E^*	$2J^\pi$	L	ε	L	C^2S	L	C^2S	$T_{1/2}$ or	Ref.	Branching ratios in percentage					
[keV]			(t,p)		(τ ,d)		(d, τ)	Γ_{cm}		E_{f}^* : $2J_{\text{f}}^\pi$:	0.0 1 ⁻	59.8 7 ⁺	130 9 ⁺	290 3 ⁻	377 3 ⁺
1440.44(10)	7 ⁺ ,9												73(8)		
1441.9(5)	⟨5 ⁻ ⟩														
1443(8)	1 ⁺			0	0.15				77An18						
1448(7)	⟨1 ⁻ ⟩	⟨0⟩	0.044						77An01						
1451.9(5)															
1463.62(11)	⟨5 ⁻ ,7 ⁻ ⟩														
1467.0(5)	⟨1⟩														
1471.4(4)															45(18)
1474.6(3)	⟨15 ⁺ ,13 ⁺ ⟩														
1476(8)	1 ⁺			0	0.06				77An18						
1496.4(5)	⟨1⟩														
1506.0(5)											11(11)				
1518.68(9)	5 ⁺ ,7 ⁺											40(3)	38(3)		
1540(8)	1 ⁻ ,3 ⁻					1	0.3		76Va25						
1542.5(4)	⟨13⟩														
1545(7)	⟨5 ⁺ ,7 ⁺ ⟩	⟨3⟩	0.011						77An01						
1546.1(4)	1 ⁻ ,3 ⁻													30(18)	
1549.6(1)	9 ⁻ ,11 ⁻														
1574.1(6)	⟨11 ⁺ ,13 ⁺ ⟩														
1588(8)	3 ⁺ ,5 ⁺			2	0.56*				77An18						
1602.5(4)	5 ⁺											74(6)		26(7)	
1611.7(6)															
1621.3(4)	3 ⁺			2	0.24*				77An18						
1630(8)	3 ⁻ ,5 ⁻	2	0.15						77An01						
1638.8(3)															47(23)
1654(9)	3 ⁺ ,5 ⁺			2	0.17*				77An18						
1665.3(5)															
1674.5(4)	⟨3⟩ ⁻	2	0.075						77An01						
1682.2(5)	5 ⁺ ,3 ⁺			⟨2⟩	0.06				77An18						
1705.1(1)	⟨5 ⁺ ,7 ⁺ ⟩											32(2)	47(5)		
1705.9(1)	⟨9 ⁻ ⟩														
1719(8)	1 ⁻	0	0.043						77An01						
1727(9)	3 ⁺ ,5 ⁺			2	0.12*				77An18						
1748.6(1)	11 ⁻ ,13 ⁻														
1751.6(5)	11 ⁺ ,13 ⁺												61(7)		
1752(8)	3 ⁻ ,5 ⁻	2	0.025						77An01						
1765.3(5)	11 ⁺ ,13														
1768.5(5)															
1770(9)	7 ⁺ ,9 ⁺			4	1.19*				77An18						
1781.7(2)	⟨9 ⁺ ,11 ⁺ ⟩											29(4)	61(7)		
1798.8(3)	7,9														
1802.4(3)	⟨3,5⟩														
1819(8)	3 ⁻ ,5	2	0.022						77An01						
1821.6(1)	⟨9 ⁻ ,11 ⁻ ⟩													23(2)	
1832(9)	3 ⁺ ,5 ⁺			2	0.03*				77An18						

(continued)

¹¹¹₄₇Ag

E^* [keV]	$2J^\pi$	L	ε (t,p)	L	C^2S (τ ,d)	L	C^2S (d, τ)	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage					
										E_f^* : $2J_f^\pi$:	0.0 1 ⁻	59.8 7 ⁺	130 9 ⁺	290 3 ⁻	377 3 ⁺
1862(9)	3 ⁻ ,5 ⁻	2	0.025						77An01						
1905.9(2)	$\langle 9^-, 11^- \rangle$												46(6)		
1934(9)	7 ⁻ ,9 ⁻	4	0.012						77An01						
1941(9)	1 ⁺			0	0.03				77An18						
1956(9)	$\langle 5^+, 7^+ \rangle$	$\langle 3 \rangle$	0.025						77An01						
1959.8(6)															
1964.7(4)												24(18)			
1965.8(6)												72(18)			
1985(9)	5 ⁺	3	0.055	2	0.08*				77An18						
1987.9(2)	$\langle 13^- \rangle$														
2068(10)	5 ⁺ ,7 ⁺	3	0.098						77An01						
2069.4(5)													33(20)		
2087.0(4)															
2093(10)	7 ⁺	3	0.028	4	0.95*				77An18						
2101.0(3)	$\langle 11 \rangle$												78(8)		
2125(10)	7 ⁻ ,9 ⁻	4	0.005						77An01						
2130.8(4)	11,13														
2136(10)															
2165(10)	5 ⁺ ,7 ⁺	3	0.061						77An01						
2188(10)	X ⁺														
2197(10)	$\langle 7^-, 9^- \rangle$	$\langle 4 \rangle$	0.012						77An01						
2222(10)	$\langle 7^-, 9^- \rangle$	$\langle 4 \rangle$	0.029						77An01						
2223(10)	X ⁺														
2258(10)	9 ⁺ ,11 ⁺	5	0.046						77An01						
2282(10)	7 ⁻ ,9 ⁻	4	0.043						77An01						
2298(10)	$\langle 3^+, 5^+ \rangle$			$\langle 2 \rangle$	0.03*				77An18						
2308(10)	$\langle 7^-, 9^- \rangle$	$\langle 4 \rangle$	0.003						77An01						
2342(10)	$\langle 1^-, 3^- \rangle$			$\langle 1 \rangle$	≈ 0.025				77An18						
2352.7(7)	$\langle 15, 17 \rangle$														
2375(10)	$\langle 1^+ \rangle$			$\langle 0 \rangle$	0.014				77An18						
		77An01			77An18		76Va25		Ref.						

* $J^\pi=5/2^+$ for $L=2$ and $J^\pi=7/2^+$ for $L=4$ were assumed to extract spectroscopic factors [03Bl10].

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

Energy levels and branching ratios [03Bl10]. Part 2

¹¹¹₄₇Ag

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E_f^* : $2J_f^\pi$:	391 5 ⁻	405 1 ⁺	546 7 ⁺	568.7 5 ⁺	568.8 5 ⁺	606.9 5 ⁺	641.9 3 ⁻	683.0 9 ⁺	705.4 11 ⁽⁺⁾	710.3 $\langle 5^+, 7^+ \rangle$
606.87(6)	5 ⁺				2.8(5)							
641.93(7)	3 ⁻		3.4(6)									
710.29(7)	$\langle 5^+, 7^+ \rangle$					0.03(1)						

(continued)

 $^{111}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		E^*_f : $2J^\pi_f$:	391 5 ⁻	405 1 ⁺	546 7 ⁺	568.7 5 ⁺	568.8 5 ⁺	606.9 5 ⁺	641.9 3 ⁻	683.0 9 ⁺	705.4 11 ⁽⁺⁾	710.3 $\langle 5^+, 7^+ \rangle$
809.17(9)	5 ⁻		54(2)									
824.46(8)	11 ⁺ , 13 ⁺										4.8(16)	
845.88(8)	7 ⁻		83(2)									
876.63(8)	9 ⁺											20(1)
958.96(11)	11 ⁺				96.9(16)							
986.82(8)	5 ⁻		48(2)						12(2)			
1013.06(12)	9 ⁺				14(4)		54(2)	32(4)				
1023.98(8)	9 ⁻		98(2)									
1062.27(15)	3 ⁺			16(2)		6(3)						
1085.48(8)	$\langle 7^+ \rangle$						32(1)	18(4)				
1086.64(10)	$\langle 3^+, 5^+ \rangle$				13(2)							
1125.35(9)	11 ⁺									77(2)		
1153.41(8)	7 ⁻		75(1)									
1159.78(24)											85(3)	
1170.2(4)	$\langle 3^+, 5^+ \rangle$				16(8)							
1180.16(10)	5 ⁺			10(4)	9(7)		9.5(10)					
1202.3(5)	11, 13									100		
1210.38(9)	3 ⁺					43(7)		12(3)				
1262.79(21)												100
1276.6(5)	9 ⁺				100							
1284.6(5)	$\langle 7^-, 5^- \rangle$		100									
1301.5(5)					100							
1376.8(3)	7 ⁻		52(7)						14(7)			
1440.44(10)	7 ⁺ , 9										27(8)	
1441.9(5)	$\langle 5^- \rangle$								100			
1451.9(5)										100		
1467.0(5)	$\langle 1 \rangle$			100								
1471.4(4)			55(45)									
1474.6(3)	$\langle 15^+, 13^+ \rangle$										23(7)	
1496.4(5)	$\langle 1 \rangle$			100								
1506.0(5)							89(45)					
1518.68(9)	5 ⁺ , 7 ⁺					0.6(2)				19(1)		1.5(4)
1546.1(4)	1 ⁻ , 3 ⁻								70(6)			
1621.3(4)	3 ⁺					35(10)		65(10)				
1638.8(3)			35(23)									
1674.5(4)	$\langle 3 \rangle^-$			40(12)				60(20)				
1682.2(5)	5 ⁺ , 3 ⁺		100									
1705.1(1)	$\langle 5^+, 7^+ \rangle$							10(5)		10(5)		
1705.9(1)	$\langle 9^- \rangle$										18(7)	
1751.6(5)	11 ⁺ , 13 ⁺									39(15)		
1781.7(2)	$\langle 9^+, 11^+ \rangle$									10(4)		
1802.4(3)	$\langle 3, 5 \rangle$				100							
1821.6(1)	$\langle 9^-, 11^- \rangle$										20(2)	
1905.9(2)	$\langle 9^-, 11^- \rangle$									9(6)	32(4)	
1987.9(2)	$\langle 13^- \rangle$										69(7)	

(continued)

 $^{111}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E^*_f:$ $2J^\pi_f:$	391 5 ⁻	405 1 ⁺	546 7 ⁺	568.7 5 ⁺	568.8 5 ⁺	606.9 5 ⁺	641.9 3 ⁻	683.0 9 ⁺	705.4 11 ⁽⁺⁾	710.3 ^(5+,7+)
2087.0(4)											22(11)	
2101.0(3)	$\langle 11 \rangle$									8(2)		

Energy levels and branching ratios [03Bl10]. Part 3

 $^{111}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage										
		$E^*_f:$ $2J^\pi_f:$	809.2 5 ⁻	824.5 11 ⁺ ,13 ⁺	845.9 7 ⁻	876.6 9 ⁺	959.0 11 ⁺	986.8 5 ⁻	1013.1 9 ⁺	1024.0 9 ⁻	1125.3 11 ⁺	1153.4 7 ⁻
1125.35(9)	11 ⁺					23(5)						
1153.41(8)	7 ⁻				10.8(14)							
1376.8(3)	7 ⁻				35(4)							
1388.0(5)	$\langle 11 \rangle$										100	
1463.62(11)	$\langle 5^-, 7^- \rangle$		37(4)		17(5)			≤8		47(9)		
1474.6(3)	$\langle 15^+, 13^+ \rangle$			68(7)								
1542.5(4)	$\langle 13 \rangle$						100					
1549.6(1)	9 ⁻ ,11 ⁻				32(4)					68(7)		
1574.1(6)	$\langle 11^+, 13^+ \rangle$						100					
1611.7(6)									100			
1638.8(3)			18(12)									
1665.3(5)				100								
1705.9(1)	$\langle 9^- \rangle$			≤42				32(10)				50(10)
1748.6(1)	11 ⁻ ,13 ⁻									100		
1765.3(5)	11 ⁺ ,13			100								
1768.5(5)							100					
1798.8(3)	7,9									100		
1821.6(1)	$\langle 9^-, 11^- \rangle$			5(1)	3(1)	2(1)				19(1)		18(2)
1905.9(2)	$\langle 9^-, 11^- \rangle$									≤24		12(4)
1964.7(4)				18(12)		59(18)						
1965.8(6)										28(18)		
1987.9(2)	$\langle 13^- \rangle$			23(3)								
2069.4(5)										33(13)		33(20)
2087.0(4)										78(44)		
2101.0(3)	$\langle 11 \rangle$						15(8)					
2130.8(4)	11,13			100								

Energy levels and branching ratios [03B110]. Part 4

 $^{111}_{47}\text{Ag}$

E^* [keV]	$2J^\pi$	Branching ratios in percentage					
		$E_f^*:$ $2J_f^\pi:$	1159.8	1210.4 3^+	1463.6 $\langle 5^-, 7^- \rangle$	1549.6 $9^-, 11^-$	2130.8 11, 13
1474.6(3)	$\langle 15^+, 13^+ \rangle$		9(2)				
1518.68(9)	$5^+, 7^+$			0.65(6)			
1821.6(1)	$\langle 9^-, 11^- \rangle$				8(1)	3.0(3)	
1959.8(6)			100				
1987.9(2)	$\langle 13^- \rangle$		8(3)				
2352.7(7)	$\langle 15, 17 \rangle$						100