$^{110}_{47}\mathrm{Ag}^{m}_{63}$

1 Decay Scheme

Ag-110m decays by beta minus emissions to Cd-110 excited levels for 98.64 (8) % and, with two gamma in cascade, to Ag-110 for 1.36 (8) %.
L'argent 110 métastable se désintègre pour 98,64 (8) %, par émission bêta moins, vers des niveaux excités de cadmium 110 et se désexcite dans une proportion de 1,36 (6) % vers le niveau fondamental d'argent 110 selon 2 transitions gamma en cascade.

2 Nuclear Data

$T_{1/2}(^{110}\mathrm{Ag}^{m})$	:	249,78	(2)	d
$T_{1/2}(^{110}\mathrm{Ag})$	:	24,56	(11)	s
$Q^{-}(^{110}\mathrm{Ag}^{m})$	:	3009,8	(16)	keV

2.1 β^- Transitions

	Energy keV	Probability × 100	Nature	lg ft
$\beta^-_{0,22}$	83,1 (16)	67,5 (6)	Allowed	5,36
$\beta^-_{0,21}$	133,0 (16)	0,392 (18)	Allowed	8,2
$\beta^-_{0,20}$	167,3 (16)	0,0252 (10)	1st forbidden	9,7
$\beta^-_{0,15}$	349,9 (16)	0,031 (4)	1st forbidden	10,7
$\beta^-_{0,13}$	470,1 (16)	0,060 (4)	1st forbidden	10,8
$\beta^-_{0,12}$	529,9 (16)	30,8 (3)	Allowed	8,28
$\beta^-_{0,8}$	759,3 (16)	0,06 (5)	2nd forbidden	11,5

2.2 Gamma Transitions and Conversion Coefficients

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_K (10^{-1})	α_L (10^{-2})	α_M	α_T	α_π (10^{-4})
$\gamma_{1,0}$(Ag)	1,113		E1					
$\gamma_{2,1}$(Ag)	116,48 (5)	1,3520 (3)	M4	1050 (30)	5010 (150)	11	168 (5)	
$\gamma_{15,13}$(Cd)	120,23 (3)	0,0218 (18)	M1(+E2)	2,5 (6)	3,2 (18)	0,006 (4)	0,29 (8)	
$\gamma_{22,19}$(Cd)	133,333 (7)	0,0736 (16)						
$\gamma_{22,18}$(Cd)	219,348 (8)	0,072 (5)						
$\gamma_{22,17}$(Cd)	221,079 (10)	0,068 (10)						
$\gamma_{12,8}$(Cd)	229,423 (23)	0,0119 (14)						
$\gamma_{22,15}$(Cd)	266,913 (12)	0,041 (4)						
$\gamma_{14,7}$(Cd)	341,3 (2)	0,0022 (5)						
$\gamma_{19,11}$(Cd)	360,23 (8)	0,008 (5)						
$\gamma_{22,14}$(Cd)	365,448 (10)	0,092 (5)						
$\gamma_{22,13}$(Cd)	387,073 (9)	0,0518 (9)						
$\gamma_{21,12}$(Cd)	396,895 (23)	0,037 (4)						
$\gamma_{15,8}$(Cd)	409,4 (5)	0,0063	E1(+M2)	0,0303 (9)	0,036 (1)		0,00346 (10)	
$\gamma_{20,11}$(Cd)	409,4 (5)	0,0063	E1(+M2)	0,0303 (9)	0,036 (1)		0,00346 (10)	
$\gamma_{22,12}$(Cd)	446,812 (3)	3,68 (5)	M1+E2	0,0772 (23)	0,094 (3)	0,00018 (1)	0,0089 (3)	
$\gamma_{8,4}$(Cd)	467,03 (4)	0,0251 (19)	(E2)	0,0699 (21)	0,092 (3)	0,00018 (1)	0,00813 (24)	
$\gamma_{22,11}$(Cd)	493,43 (10)	0,0095 (11)						
$\gamma_{18,6}$(Cd)	544,55 (5)	0,018 (3)	M1+E2	0,0464 (19)	0,057 (2)		0,0054 (2)	
$\gamma_{19,7}$(Cd)	572,8 (2)	0,0173 (13)						
$\gamma_{5,2}$(Cd)	603,08 (10)	0,011 (8)	E1	0,0121 (4)	0,014 (10)		0,00139 (40)	
$\gamma_{6,3}$(Cd)	620,3572 (17)	2,73 (8)	M1+E2	0,0342 (10)	0,041 (1)		0,00397 (12)	
$\gamma_{21,8}$(Cd)	626,26 (1)	0,215 (17)	E2	0,0309 (9)	0,039 (1)		0,00361 (11)	
$\gamma_{19,6}$(Cd)	630,62 (6)	0,033 (5)						
$\gamma_{1,0}$(Cd)	657,7600 (11)	94,68 (8)	E2	0,0272 (8)	0,034 (1)		0,00318 (9)	
$\gamma_{7,3}$(Cd)	677,6239 (12)	10,59 (6)	M1+E2	0,0280 (8)	0,033 (1)		0,00324 (10)	
$\gamma_{6,2}$(Cd)	687,0114 (18)	6,47 (3)	M1+E2	0,0251 (8)	0,031 (1)		0,00292 (9)	
$\gamma_{22,7}$(Cd)	706,6780 (15)	16,53 (8)	M1+E2	0,0237 (7)	0,029 (1)		0,00275 (8)	
$\gamma_{8,3}$(Cd)	708,13 (2)	0,23 (5)	M1+E2	0,0255 (8)	0,030 (1)		0,00295 (9)	
$\gamma_{19,5}$(Cd)	714,9 (1)	0,0092 (24)						
$\gamma_{7,2}$(Cd)	744,2782 (18)	4,72 (3)	E2(+M3)	0,0199 (6)	0,025 (1)		0,00232 (7)	
$\gamma_{22,6}$(Cd)	763,9452 (17)	22,36 (9)	E2+M3	0,0198 (10)	0,024 (2)		0,00230 (9)	
$\gamma_{8,2}$(Cd)	774,7 (1)	0,006 (3)	(E2)	0,0180 (5)	0,022 (1)		0,00210 (6)	
$\gamma_{2,1}$(Cd)	818,0277 (18)	7,34 (4)	M1+E2	0,0167 (5)	0,020 (1)		0,00194 (6)	
$\gamma_{3,1}$(Cd)	884,6819 (13)	74,1 (12)	E2	0,0131 (4)	0,016 (1)		0,00152 (5)	
$\gamma_{12,3}$(Cd)	937,485 (3)	34,56 (27)	E2(+M3)	0,0115 (3)	0,014 (1)		0,00133 (4)	
$\gamma_{11,2}$(Cd)	957,35 (10)	0,0093 (19)	M1+E2	0,0120 (9)	0,014 (1)		0,00139 (10)	
$\gamma_{13,3}$(Cd)	997,248 (15)	0,128 (4)	E1(+M2)				0,0007 (9)	
$\gamma_{14,3}$(Cd)	1018,96 (8)	0,0141 (7)	M1+E2					
$\gamma_{14,2}$(Cd)	1085,453 (14)	0,072 (4)	E2	0,0083 (3)	0,010 (1)		0,00096 (3)	
$\gamma_{15,3}$(Cd)	1117,47 (3)	0,0488 (9)	E1(+M2)	0,0034 (1)			0,00040 (1)	
$\gamma_{4,1}$(Cd)	1125,705 (20)	0,0304 (14)	M1+E2	0,0089 (30)	0,010 (1)		0,00103 (3)	
$\gamma_{17,3}$(Cd)	1163,15 (8)	0,074 (24)	M1+E2	0,0084 (3)	0,0098 (3)		0,00097 (3)	
$\gamma_{18,3}$(Cd)	1164,95 (9)	0,043 (3)	M1+E2	0,0077 (7)			0,00090 (3)	
$\gamma_{16,2}$(Cd)	1186,7 (1)	0,00160 (5)						
$\gamma_{19,3}$(Cd)	1251,05 (4)	0,026 (3)						0,1
$\gamma_{20,3}$(Cd)	1300,06 (10)	0,0189 (7)	E1(+M2)	0,0026 (1)			0,00030 (1)	0,19
$\gamma_{21,3}$(Cd)	1334,335 (17)	0,141 (5)	E2	0,0054 (2)			0,00062 (2)	0,29
$\gamma_{22,3}$(Cd)	1384,3025 (20)	24,7 (5)	M1+E2	0,0056 (2)			0,00065 (2)	0,39
$\gamma_{5,1}$(Cd)	1420,08 (5)	0,026 (4)	E1	0,0023 (1)			0,00026 (1)	1,7
$\gamma_{2,0}$(Cd)	1475,7898 (23)	4,03 (5)	E2	0,0044 (1)			0,00051 (2)	0,67
$\gamma_{6,1}$(Cd)	1505,039 (2)	13,16 (16)	M1+E2	0,0045 (1)			0,00045 (1)	0,76
$\gamma_{7,1}$(Cd)	1562,2940 (18)	1,21 (3)	E2(+M3)					1,1
$\gamma_{8,1}$(Cd)	1592,80 (15)	0,0207 (8)	(E2)					1,2
$\gamma_{9,1}$(Cd)	1629,76 (15)	0,0040 (5)	M1+E2					1,3
$\gamma_{10,1}$(Cd)	1698,8 (2)	0,0017 (3)						1,4
$\gamma_{11,1}$(Cd)	1775,43 (4)	0,0065 (3)	M1+E2					2
$\gamma_{4,0}$(Cd)	1783,48 (3)	0,0101 (5)	E2					2

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_K (10^{-1})	α_L (10^{-2})	α_M	α_T	α_π (10^{-4})
$\gamma_{14,1}$(Cd)	1903,54 (4)	0,0159 (7)						
$\gamma_{16,1}$(Cd)	2004,67 (10)	0,0012 (4)						3

3 Atomic Data

3.1 Cd

ω_K : 0,842 (4)
$\bar{\omega}_L$: 0,0632 (16)
n_{KL} : 0,953 (4)

3.1.1 X Radiations

		Energy keV		Relative probability
X_K				
	$K\alpha_2$	22,9843		53,17
	$K\alpha_1$	23,1738		100
	$K\beta_3$	26,0615	}	
	$K\beta_1$	26,0958	}	
	$K\beta_5''$	26,304	}	27,88
	$K\beta_2$	26,644	}	
	$K\beta_4$	26,702	}	5,07

3.2 Ag

ω_K : 0,831 (4)
$\bar{\omega}_L$: 0,0583 (14)
n_{KL} : 0,964 (4)

3.2.1 X Radiations

		Energy keV		Relative probability
X_K				
	$K\alpha_2$	21,9906		53,05
	$K\alpha_1$	22,1632		100
	$K\beta_3$	24,9118	}	
	$K\beta_1$	24,9427	}	
	$K\beta_5''$	25,146	}	27,7
	$K\beta_2$	25,4567	}	
	$K\beta_4$	25,512	}	4,82

4 Electron Emissions

		Energy keV		Electrons per 100 disint.
$ec_{22,12\ K}$	(Cd)	420,101	(3)	0,0282 (9)
$ec_{1,0\ K}$	(Cd)	631,0490	(11)	0,257 (8)
$ec_{7,3\ K}$	(Cd)	650,9130	(12)	0,0296 (9)
$ec_{1,0\ L}$	(Cd)	653,742 - 654,222		0,0321 (9)
$ec_{22,7\ K}$	(Cd)	679,9670	(15)	0,0391 (12)
$ec_{22,6\ K}$	(Cd)	737,2340	(17)	0,0442 (22)
$ec_{3,1\ K}$	(Cd)	857,9710	(13)	0,097 (3)
$ec_{3,1\ L}$	(Cd)	880,664 - 881,144		0,0118 (8)
$ec_{12,3\ K}$	(Cd)	910,774	(3)	0,0397 (11)
$\beta^-_{0,22}$	max:	83,1	(16)	67,5 (6)
$\beta^-_{0,22}$	avg:	21,6	(5)	
$\beta^-_{0,21}$	max:	133,0	(16)	0,392 (18)
$\beta^-_{0,21}$	avg:	35,5	(5)	
$\beta^-_{0,20}$	max:	167,3	(16)	0,0252 (10)
$\beta^-_{0,20}$	avg:	45,4	(5)	
$\beta^-_{0,15}$	max:	349,9	(16)	0,031 (4)
$\beta^-_{0,15}$	avg:	102,6	(6)	
$\beta^-_{0,13}$	max:	470,1	(16)	0,060 (4)
$\beta^-_{0,13}$	avg:	143,9	(6)	
$\beta^-_{0,12}$	max:	529,9	(16)	30,8 (3)
$\beta^-_{0,12}$	avg:	165,3	(6)	
$\beta^-_{0,8}$	max:	759,3	(16)	0,06 (5)
$\beta^-_{0,8}$	avg:	251,9	(7)	

5 Photon Emissions

5.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
$XK\alpha_2$	(Cd)	22,9843		0,153 (9)	} $K\alpha$
$XK\alpha_1$	(Cd)	23,1738		0,288 (16)	}
$XK\beta_3$	(Cd)	26,0615	}		
$XK\beta_1$	(Cd)	26,0958	}	0,080 (5)	$K'\beta_1$
$XK\beta''_5$	(Cd)	26,304	}		
$XK\beta_2$	(Cd)	26,644	}		
$XK\beta_4$	(Cd)	26,702	}	0,0146 (9)	$K'\beta_2$

		Energy keV		Photons per 100 disint.	
XKα_2	(Ag)	21,9906		0,198 (12)	} Kα
XKα_1	(Ag)	22,1632		0,372 (22)	}
XKβ_3	(Ag)	24,9118	}		
XKβ_1	(Ag)	24,9427	}	0,103 (7)	K$'\beta_1$
XKβ_5''	(Ag)	25,146	}		
XKβ_2	(Ag)	25,4567	}		
XKβ_4	(Ag)	25,512	}	0,0179 (12)	K$'\beta_2$

5.2 Gamma Emissions

	Energy keV	Photons per 100 disint.
$\gamma_{2,1}$(Ag)	116,48 (5)	0,0080 (3)
$\gamma_{15,13}$(Cd)	120,23 (3)	0,0169 (9)
$\gamma_{22,19}$(Cd)	133,333 (7)	0,0736 (16)
$\gamma_{22,18}$(Cd)	219,348 (8)	0,072 (5)
$\gamma_{22,17}$(Cd)	221,079 (10)	0,068 (10)
$\gamma_{12,8}$(Cd)	229,423 (23)	0,0119 (14)
$\gamma_{(-1,1)}$(Cd)	264,25 (6)	0,0060 (6)
$\gamma_{22,15}$(Cd)	266,913 (12)	0,041 (4)
$\gamma_{14,7}$(Cd)	341,3 (2)	0,0022 (5)
$\gamma_{(-1,2)}$(Cd)	356,43 (10)	0,00425 (30)
$\gamma_{19,11}$(Cd)	360,23 (8)	0,008 (5)
$\gamma_{22,14}$(Cd)	365,448 (10)	0,092 (5)
$\gamma_{22,13}$(Cd)	387,073 (9)	0,0518 (9)
$\gamma_{21,12}$(Cd)	396,895 (23)	0,037 (4)
$\gamma_{20,11}$(Cd)	409,4 (5)	0,0063
$\gamma_{15,8}$(Cd)	409,4 (5)	0,0063
$\gamma_{22,12}$(Cd)	446,812 (3)	3,65 (5)
$\gamma_{8,4}$(Cd)	467,03 (4)	0,0249 (19)
$\gamma_{22,11}$(Cd)	493,43 (10)	0,0095 (11)
$\gamma_{18,6}$(Cd)	544,55 (5)	0,018 (3)
$\gamma_{19,7}$(Cd)	572,8 (2)	0,0173 (13)
$\gamma_{5,2}$(Cd)	603,08 (10)	0,011 (8)
$\gamma_{6,3}$(Cd)	620,3553 (17)	2,72 (8)
$\gamma_{21,8}$(Cd)	626,258 (10)	0,214 (17)
$\gamma_{19,6}$(Cd)	630,62 (6)	0,033 (5)
$\gamma_{(-1,3)}$(Cd)	647,8 (4)	0,0175 (50)
$\gamma_{1,0}$(Cd)	657,7600 (11)	94,38 (8)
$\gamma_{(-1,4)}$(Cd)	666,6 (5)	0,028 (14)
$\gamma_{(-1,5)}$(Cd)	676,58 (10)	0,14 (1)
$\gamma_{7,3}$(Cd)	677,6217 (12)	10,56 (6)

	Energy keV	Photons per 100 disint.
$\gamma_{6,2}$(Cd)	687,0091 (18)	6,45 (3)
$\gamma_{22,7}$(Cd)	706,6760 (15)	16,48 (8)
$\gamma_{8,3}$(Cd)	708,128 (20)	0,23 (5)
$\gamma_{19,5}$(Cd)	714,9 (1)	0,0092 (24)
$\gamma_{7,2}$(Cd)	744,2755 (18)	4,71 (3)
$\gamma_{22,6}$(Cd)	763,9424 (17)	22,31 (9)
$\gamma_{8,2}$(Cd)	774,7 (1)	0,006 (3)
$\gamma_{2,1}$(Cd)	818,0244 (18)	7,33 (4)
$\gamma_{3,1}$(Cd)	884,6781 (13)	74,0 (12)
$\gamma_{12,3}$(Cd)	937,485 (3)	34,51 (27)
$\gamma_{11,2}$(Cd)	957,35 (10)	0,0093 (19)
$\gamma_{13,3}$(Cd)	997,243 (15)	0,128 (4)
$\gamma_{14,3}$(Cd)	1018,95 (8)	0,0141 (7)
$\gamma_{(-1,8)}$(Cd)	1050,5 (5)	0,0076 (10)
$\gamma_{14,2}$(Cd)	1085,447 (14)	0,072 (4)
$\gamma_{15,3}$(Cd)	1117,46 (3)	0,0488 (9)
$\gamma_{4,1}$(Cd)	1125,699 (20)	0,0304 (14)
$\gamma_{17,3}$(Cd)	1163,14 (8)	0,074 (24)
$\gamma_{18,3}$(Cd)	1164,94 (9)	0,043 (3)
$\gamma_{16,2}$(Cd)	1186,7 (1)	0,00160 (5)
$\gamma_{19,3}$(Cd)	1251,04 (4)	0,026 (3)
$\gamma_{20,3}$(Cd)	1300,05 (10)	0,0189 (7)
$\gamma_{21,3}$(Cd)	1334,326 (17)	0,141 (5)
$\gamma_{22,3}$(Cd)	1384,2931 (20)	24,7 (5)
$\gamma_{5,1}$(Cd)	1420,07 (5)	0,026 (4)
$\gamma_{(-1,9)}$(Cd)	1465,6 (1)	0,0018 (2)
$\gamma_{2,0}$(Cd)	1475,7792 (23)	4,03 (5)
$\gamma_{6,1}$(Cd)	1505,028 (2)	13,16 (16)
$\gamma_{7,1}$(Cd)	1562,2940 (18)	1,21 (3)
$\gamma_{(-1,10)}$(Cd)	1572,4 (2)	0,0011 (3)
$\gamma_{8,1}$(Cd)	1592,80 (15)	0,0207 (8)
$\gamma_{9,1}$(Cd)	1629,75 (15)	0,0040 (5)
$\gamma_{10,1}$(Cd)	1698,8 (2)	0,0017 (3)
$\gamma_{11,1}$(Cd)	1775,41 (4)	0,0065 (3)
$\gamma_{4,0}$(Cd)	1783,46 (3)	0,0101 (5)
$\gamma_{14,1}$(Cd)	1903,52 (4)	0,0159 (7)
$\gamma_{16,1}$(Cd)	2004,65 (10)	0,0012 (4)

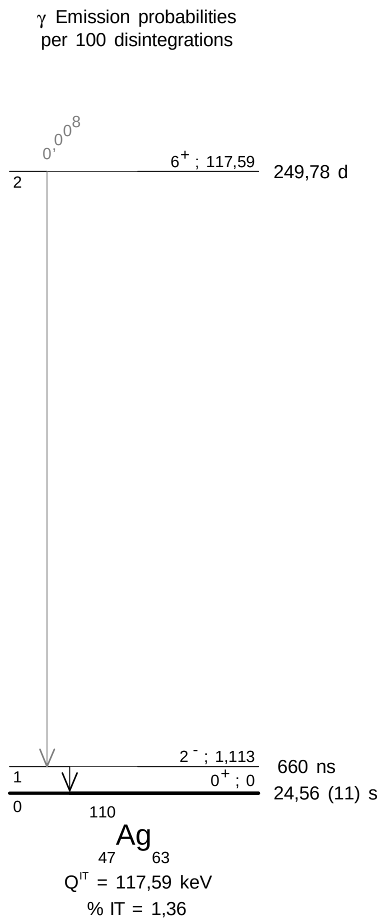
6 Main Production Modes

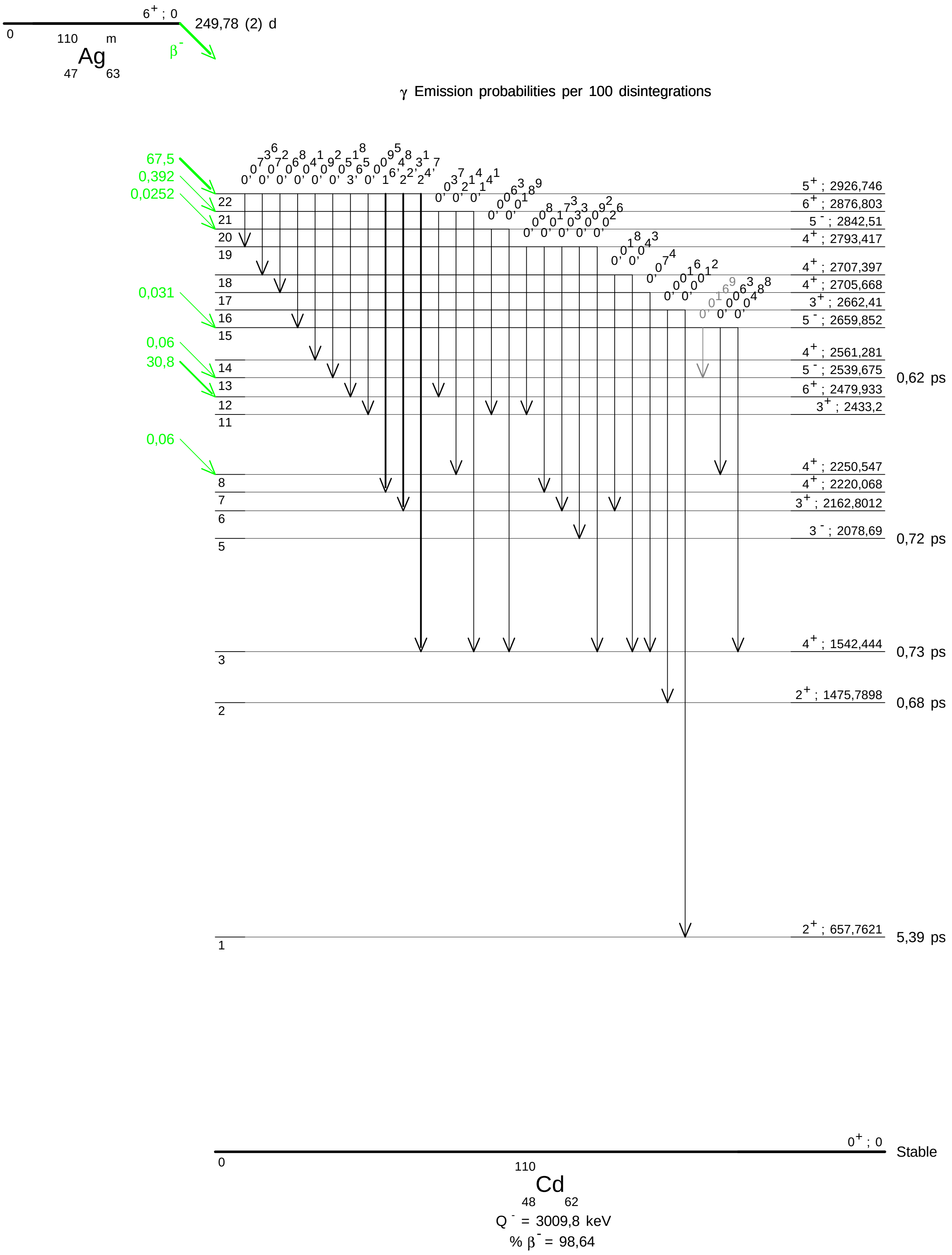
Ag – 109(n,γ)Ag – 110m σ : 4,7 (2) barns
Possible impurities : Ag – 108m, Ag – 110

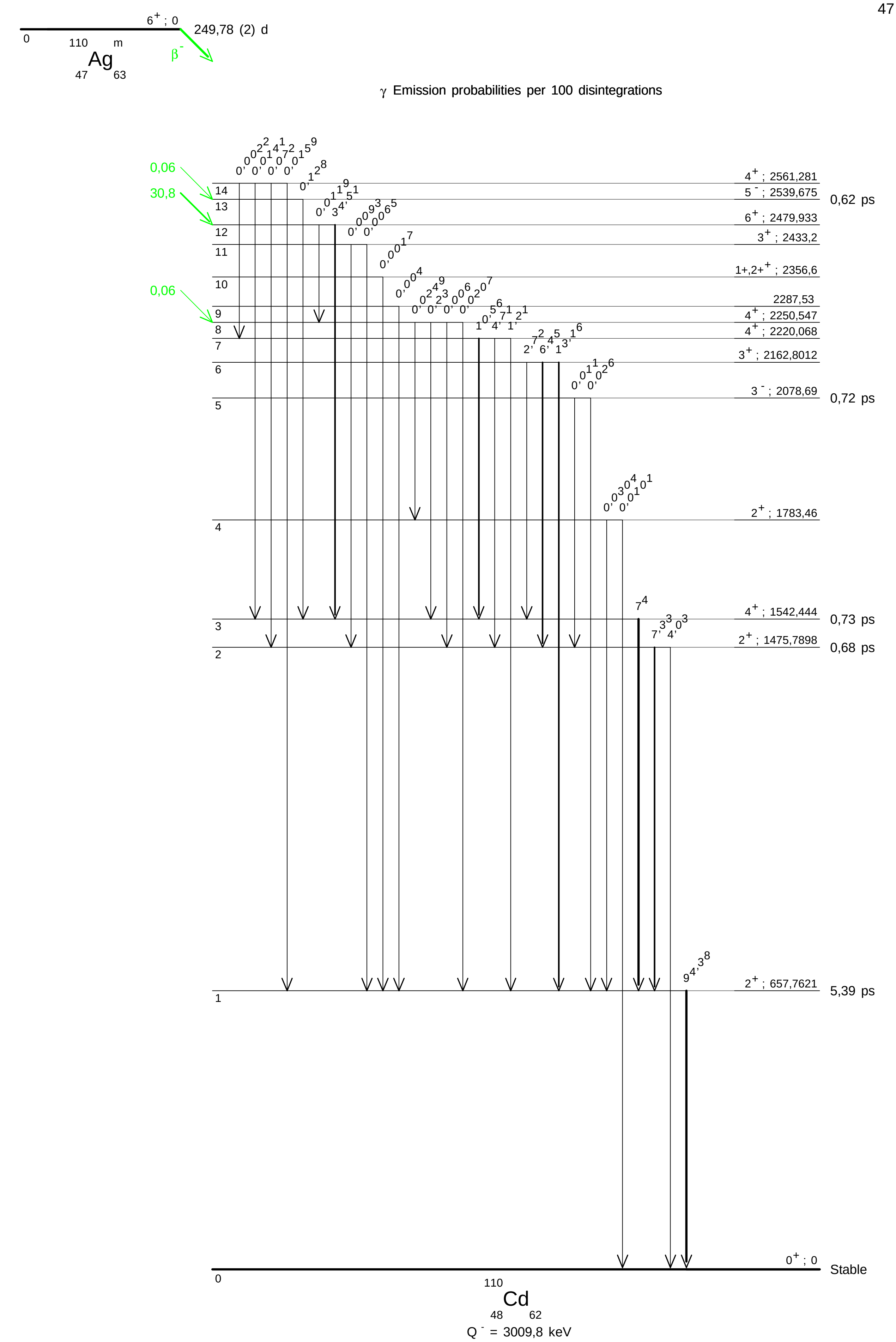
7 References

- J. J. Livingood, G. T. Seaborg. Phys. Rev. 54 (1938) 88
  (Half-life)
- J. R. Gum, M. L. Pool. Phys. Rev. 80 (1950) 315
  (Half-life)
- T. Suter, P. Reyes-Suter , W. Scheuer. Nucl. Phys. 47 (1963) 251
  (Energy gamma, Electron capture intensity)
- J. Schintlmeister, L. Werner. Nucl. Phys. 51 (1964) 383
  (Energy and intensity beta, electron capture intens)
- W. B. Newbolt, J. H. Hamilton. Nucl. Phys. 53 (1964) 353
  (Energy gamma, electron capture intensity, α_k)
- S. M. Brahmavar, J. H. Hamilton , A. V. Ramayya , E. F. Zganjar , C. E. Bemis Jr.. Nucl. Phys. A 125 (1969) 217
  (Energy and intensity gamma)
- K. S. Krane, R. M. Steffen. Phys. Rev. C 2 (1970) 724
  (Mixing ratio)
- S. P.Sud, P. C. Mangal , P. N. Trehan. Aust. J. Phys. 23 (1970) 87
  (Mixing ratio)
- G. B. Philips, S. M. Brahmavar , J. H. Hamilton , T. Kracikova. Nucl. Phys. A 182 (1972) 606
  (Energy and intensity gamma)
- P. D. Johnston, N. J. Stone. Nucl. Phys. A 206 (1973) 273
  (Mixing ratio)
- P. L. Gardulski, M. L. Wiedenbeck. Phys. Rev. C 7 (1973) 2080
  (Mixing ratio)
- W. W. Pratt. J. Inorg. Nucl. Chem. 36 (1974) 1199
  (Energy and intensity gamma)
- K. F. Walz, H. M. Weiss , K. Debertin. Priv. Comm. (1976)
  (Half-life)
- K. Debertin, U. Schötzig , K. F. Walz , H. M. Weiss. Proc. ERDA Symposium on X- and Gamma-ray Sources and Applications - Ann. Arbor. (1976) 59
  (Intensity gamma)
- R. J. Gehrke, R. G. Helmer , R. C. Greenwood. Nucl. Instr. Meth. 147 (1977) 405
  (Intensity gamma)
- J. Kern, S. Schwitz. Nucl. Instr. Meth. 151 (1978) 549
  (Energy gamma)
- G. W. Wang, A. J. Becker , L. M. Chirovsky , J. L. Groves , C. S. Wu. Phys. Rev. C 18 (1978) 476
  (Mixing ratio)
- H. R. Verma, A. K. Sharma , P. Kaur , K. K. Suri , P. N. Trehan. J. Phys. Soc. Japan 47 (1979) 16
  (Energy and intensity gamma, mixing ratio)
- E. J. Cohen, H. R. Andrews , T. F. Knott , F. M. Pipkin , D. C. Santry. Phys. Rev. C 20 (1979) 847
  (Mixing ratio)
- P. Schlüter, G. Soff. Atomic Data Nuclear Data Tables 24 (1979) 509
  (α_{pi})
- V. V. Babenko, I. N. Vishnevskii , V. A. Zheltonozhskii , V. P. Svyato , V. V. Trishin. Bull. Acad. Sci. (USSR) - Phys. Ser. 44, 5 (1980) 132
  (Angular correlation, mixing ratio)
- H. Houtermans, O. Milosevic , F. Reichel. Intern. J. Appl. Radiat. Isot. 31 (1980) 153
  (Half-life)
- Y. Yoshizawa, Y. Iwata , T. Katu , T. Katoh , J.-Z. Ruan , T. Kojima , Y. Kawada. Nucl. Instr. Meth. 174 (1980) 109
  (Intensity gamma)
- W. M. Roney Jr., W. A. Seale. Nucl. Instr. Meth. 171 (1980) 389
  (Intensity gamma)
- W. D. Ruhter, D. C. Camp. Nucl. Instr. Meth. 173 (1980) 489
  (Mixing ratio)
- G. Mallet. J. Phys. Soc. Japan 50 (1981) 384
  (Energy and intensity gamma)
- G. Mallet, J. Dalmasso , H. Maria , G. Ardisson. J. Phys. G - Nucl. Phys. 7 (1981) 1259
  (scheme)

- R. A. Meyer, T. N. Massey. Intern. J. Appl. Radiat. Isot. 34 (1983) 1073
  (Energy gamma)
- K. F. Walz, K. Debertin , H. Schrader. Inter. J. Appl. Radiat. Isot. 34 (1983) 1191
  (Half-life)
- W. L. Zijp. Report ECN FYS - RASA 85/19 (1985)
  (Averages)
- K. S. Krane, N. S. Schulz. Phys. Rev. C 37 (1988) 747
  (Mixing ratio)
- R. A. Meyer. Fizika 22 (1990) 153
  (Energy and intensity gamma)
- I. M. Band, M. B. Trzhaskovskaya. Bull. Acad. Sci. (USSR) - Phys. Ser. 55, 11 (1991) 39
  (α)
- M. U. Rajput, T. D. MacMahon. Nucl. Instr. Meth. A 312 (1992) 289
  (Averages)
- R. C. Greenwood, R. G. Helmer , M. A. Lee , M. H. Putnan , M. A. Oates , D. A. Strttrmann , K. D. Watts. Nucl. Instr. Meth. A 314 (1992) 514
  (Intensity beta)
- L. L. Kiang, P. K. Teng , G. C. Kiang , W. S. Chang , P. J. Tu. J. Phys. Soc. Japan 62 (1993) 888
  (Energy and intensity gamma, mixing ratio)
- G. Audi, A. H. Wapstra. Nucl. Phys. A 595 (1995) 409
  (Q)
- B. Singh, J. L. Rodriguez , S. S. M. Wong , J. K. Tuli. Nucl. Data Sheets 84 (1998) 487
  (Logft systematics)
- R. G. Helmer, C. van der Leun. Nucl. Instr. Meth. A 450 (2000) 35
  (Energy gamma)
- D. DeFrenne, E. Jacobs. Nucl. Data Sheets 89 (2000) 481
  (Jp, multipolarities, mixing ratio)


γ Emission probabilities
per 100 disintegrations
0,008
6+ ; 117,59
249,78 d
2
2- ; 1,113
660 ns
1
0+ ; 0
24,56 (11) s
0
110 Ag 47 63
QIT = 117,59 keV
% IT = 1,36


6+ ; 0
249,78 (2) d
110m Ag 47 63
β-
γ Emission probabilities per 100 disintegrations
67,5
0,392
0,0252
0,031
0,06
30,8
0,06
5+ ; 2926,746
6+ ; 2876,803
5- ; 2842,51
4+ ; 2793,417
4+ ; 2707,397
4+ ; 2705,668
3+ ; 2662,41
5- ; 2659,852
4+ ; 2561,281
5- ; 2539,675
6+ ; 2479,933
0,62 ps
3+ ; 2433,2
4+ ; 2250,547
4+ ; 2220,068
3+ ; 2162,8012
3- ; 2078,69
0,72 ps
4+ ; 1542,444
0,73 ps
2+ ; 1475,7898
0,68 ps
2+ ; 657,7621
5,39 ps
0+ ; 0
Stable
110 Cd 48 62
Q- = 3009,8 keV
% β- = 98,64



Q^{-} = 3009,8 keV

% β^{-} = 98,64