Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 172, 1 (2021)	31-Jan-2021

Q(β^-)=−3943 *5*; S(n)=9497 *8*; S(p)=3244 *7*; Q(α)=−875 *11* 2017Wa10
S(2n)=21210 *30*, S(2p)=9541 *13*, Q(εp)=154 *8* (2017Wa10).
Mass measurements: 2019An10, 2009El08.
Additional information 1.
Theory references: consult the NSR database (www.nndc.bnl.gov/nsr/) for four primary references, three dealing with nuclear structure calculations and one with decay modes and half-lives.
^{101}In with g.s. half-life of 15.1 s is a potential delayed proton emitter with Q(εp)=2240 *200* (syst, 2017Wa10), which could populate levels in ^{100}Ag, but no proton measurements have yet been reported.

^{100}Ag Levels

See 1996Al16 for proposed neutron-proton (multiparticle) configuration assignments to several high-spin (J≥5) levels based on comparisons with shell-model calculations.
No level populations are known from ^{101}In εp decay (15.1 s).

Cross Reference (XREF) Flags

A ^{100}Cd ε decay (49.1 s)
B ^{46}Ti(^{58}Ni,3pnγ),

E(level)†	J$^\pi$‡	T$_{1/2}$	XREF	Comments
0.0	(5)$^+$	2.01 min *10*	AB	%ε+%β^+=100 μ=4.37 *3* (2014Fe01,2019StZV) J$^\pi$: log *ft*=6.1 to 6$^+$, log *ft*=6.5 to levels that deexcite to 2$^+$ and systematics (J^π(^{102}Ag g.s.,^{104}Ag g.s.)=5$^+$) give J=(5). Parity from M1(+E2)-M1(+E2) cascade from (3)$^+$. See also J^π comments for 236.1 or 303.6 level. Proposed configuration=$\pi(g_{9/2}^{-3})_{9/2+}\otimes\nu d_{5/2}$, consistent with measured magnetic moment (2014Fe01). T$_{1/2}$: weighted average of 2.00 min *10* (1980Ha20) and 2.06 min *25* (1983Ra10). 1983Ra10 cannot distinguish the g.s. and the isomer on the basis of half-life. Others: 2.00 min *3* (total γ absorption, 1995Ba25). 2.3 min *1* (γ(t), 1970Hn03), 1.9 min *3* (γ(t), 1971In03). 7.5 min *1* from 1967Do06, 8 min *1* from 1967Ba26 and 9 min from 1966Bu05 can not be confirmed in later studies. rms charge radius: δ<r^2>(^{100}Ag,^{109}Ag)=0.83 fm^2 *10*(stat) *6*(syst) (2014Fe01). Isotope shift: $\delta\nu$(^{100}Ag,^{109}Ag)=−2.95 GHz *22*(stat) *11*(syst) (2014Fe01). μ, rms charge radius and isotope shifts: measured by hyperfine structure study (2014Fe01) using in-gas-cell laser ionization spectroscopy at LISOL facility of cyclotron center in Leuven.
15.52 *16*	(2)$^+$	2.24 min *15*	A	%ε+%β^+=?; %IT=? J$^\pi$: 936.6γ from 1$^+$; M1,E2(368.7γ)-M1,E2(567.9γ) cascade from 1$^+$; and systematics (J^π=2$^+$ for 9-keV isomer in ^{102}Ag and 6-keV isomer in ^{104}Ag). Configuration=$\pi(g_{9/2}^{-3})_{9/2+}\otimes\nu(d_{5/2},g_{7/2})_{5/2+}$ and/or $\pi(g_{9/2}^{-3})_{7/2+}\otimes\nu(d_{5/2},g_{7/2})_{5/2+}$, as proposed for ^{102}Ag by 2010Go08. T$_{1/2}$: weighted average of 2.30 min *15* (1980Ha20) and 2.06 min *25* (1983Ra10). 1983Ra10 cannot distinguish the g.s. and the isomer on the basis of half-life. RUL=10 for B(M3)(W.u.) gives %IT=100, however from a maximum of B(M3)(W.u.) value of 2.9 in A=80-100 mass range (data for about ten M3 transitions available in Nudat 2), %IT probably does not exceed ≈30%.
69.8 *2*	(6$^+$)		B	J$^\pi$: 69.8γ ΔJ=1, D to (5)$^+$; parity change would require E2 or E1 for 69.8γ and hence isomeric lifetimes, which is less likely.

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Adopted Levels, Gammas (continued)

^{100}Ag Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
118.4 *2*	(7+)	B	Jπ: 146.5γ D, ΔJ=0 from (7+), 118.4γ to (5)+.
124.70 *10*	(4)+	A	Jπ: see Jπ comment for 236.1 or 303.6 level.
155.23 *18*	(1,2,3)+	A	Jπ: 139.7γ M1(+E2) to (2)+.
236.15 *17*	(3)+	A	Jπ: M1(+E2) 220.7γ to (2)+ gives (1,2,3)+; M1(+E2)(111.4γ)-M1(+E2)(124.7γ) cascade to g.s. J=(5) gives (3)+ for 236.1 level, (4)+ for 124.7 level and positive parity for g.s.
265.0 *2*	(7+)	B	Jπ: 195.3γ D, ΔJ=1 to (6+); parity change would require E2 or E1 for 195.3γ and hence isomeric lifetimes, which is less likely.
303.65 *14*	(3)+	A	Jπ: M1(+E2) 288.1γ to (2)+ gives (1,2,3)+; M1(+E2)(179.0γ)-M1(+E2)(124.7γ) cascade to g.s. J=(5) gives (3)+ for 303.6 level, (4)+ for 124.7 level and positive parity for g.s.
583.39 *17*	(1,2,3)+	A	Jπ: M1,E2 567.9γ to (2)+.
835.3 *2*	(8+)	B	Jπ: 287.9γ D,ΔJ=1 from (9+), 765.6γ to (6+).
886.04 *18*	(1,2,3)+	A	Jπ: M1,E2 270.4γ and 507.3γ from 1+.
952.06 *19*	1+	A	Jπ: log *ft*=3.6 from 0+.
973.3 *2*	(8+)	B	Jπ: 708.3γ D,ΔJ=1 to (7+).
1002.1 *2*	(9+)	B	Jπ: 883.9γ Q,ΔJ=2 to (7+).
1039.46 *21*	(1,2)−	A	Jπ: 173.2γ E1 from 1+ and 1024.1γ to (2)+.
1123.2 *2*	(9+)	B	Jπ: 858.1γ (Q),ΔJ=2 to (7+), 150.0γ to (8+).
1156.40 *20*	1+	A	Jπ: log *ft*=4.9 from 0+.
1212.70 *19*	1+	A	Jπ: log *ft*=4.6 from 0+.
1393.16 *19*	1+	A	Jπ: log *ft*=3.9 from 0+.
1530.4 *3*	(10+)	B	Jπ: 695.4γ (Q),ΔJ=2 to (8+).
1574.31 *22*	1+	A	Jπ: log *ft*=4.2 from 0+.
1607.0 *3*	(10+)	B	Jπ: 483.8γ D,ΔJ=1 to (9+).
1634.7 *3*	(8−)	B	Jπ: 1369.4γ D,ΔJ=1 to (7+); negative parity is proposed by 1996Al16 based on the fact that there is no competitive E2 or low-energy M1 connecting γ-ray branches to positive-parity states.
1723.1 *2*	(11+)	B	Jπ: 721.1γ Q,ΔJ=2 to (9+), 116.1γ D,ΔJ=1 to (10+).
1892.96 *25*	1+	A	Jπ: log *ft*=4.5 from 0+.
1960.2 *3*	1+	A	Jπ: log *ft*=4.9 from 0+.
2047.1 *3*	(11)	B	Jπ: 516.5γ D,ΔJ=1 to (10+).
2082.1 *3*	(9−)	B	Jπ: 447.4γ (M1),ΔJ=1 to (8−).
2120.7 *3*		B	
2242.5 *3*	(10−)	B	Jπ: 614.2γ D,ΔJ=1 from (11−); Doppler-broadening of 614.2γ indicates M1 transition. Intensity imbalance suggests that in addition to the 195.2γ, other low-energy γ rays might deexcite the 2242 level (1996Al16).
2249.8 *3*	(9−)	B	Jπ: 228.9γ (M1),ΔJ=1 from (10−). Intensity imbalance suggests that in addition to the 128.9γ, a cascade of at least two low-energy γ rays might deexcite the 2250 level (1996Al16).
2478.8 *3*	(10−)	B	Jπ: 844.0γ (Q),ΔJ=2 to (8−), 396.7γ (M1),ΔJ=1 to (9−).
2549.7 *3*	(12+)	B	Jπ: 826.6γ D+Q,ΔJ=1 to (11+).
2653.0 *3*	(13+)	B	Jπ: 930.0γ (Q),ΔJ=2 to (11+).
2856.7 *3*	(11−)	B	Jπ: 378.1γ (M1),ΔJ=1 to (10−), 774.4γ (Q),ΔJ=2 to (9−).
2894.0 *3*	(13+)	B	Jπ: 344.4γ (M1),ΔJ=1 to (12+), 241.4γ to (13+).
3227.0 *3*	(12−)	B	Jπ: 370.3γ (M1),ΔJ=1 to (11−), 748.1γ (Q),ΔJ=2 to (10−).
3435.4 *3*	(13−)	B	Jπ: 208.4γ (M1),ΔJ=1 to (12−).
3595.9 *3*	(14+)	B	Jπ: 702.0γ D,ΔJ=1 to (13+); Doppler broadening of 942.8γ indicates M1 to (13+).
3739.8 *3*	(15+)	B	Jπ: 143.9γ (M1),ΔJ=1 to (14+), 845.9γ Q,ΔJ=2 to (13+).
3986.9 *4*	(14−)	B	Jπ: 551.5γ (M1),ΔJ=1 to (13−).
4005.8 *4*	(14−)	B	Jπ: 1352.9γ D,ΔJ=1 to (13+), 570.3γ to (13−); negative parity is proposed by 1996Al16.
4115.3 *5*		B	
4134.8 *5*		B	
4612.7 *4*	(15−)	B	Jπ: 625.7γ (M1),ΔJ=1 to (14−), 1177.3γ (Q),ΔJ=2 to (13−).
4630.6? *5*	(16+)	B	Jπ: 890.6γ to (15+). E(level): ordering of 961-891 cascade is uncertain. Reverse ordering gives E(level)=4701.
5173.9 *4*	(16−)	B	Jπ: 561.2γ (M1),ΔJ=1 to (15−), 1186.8γ (Q),ΔJ=2 to (14−).
5329.7 *4*	(16−)	B	Jπ: 716.9γ D+Q,ΔJ=1 to (15−).

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Adopted Levels, Gammas (continued)

^{100}Ag Levels (continued)

E(level)†	Jπ‡	XREF	Comments
5591.7 *5*	(17⁺)	B	Jπ: 961.1γ D,ΔJ=1 to (16⁺); Doppler-broadening of 961.1γ indicates M1.
6016.3 *6*	(18⁺)	B	Jπ: 424.6γ (M1),ΔJ=1 to (17⁺).
6067.5 *4*	(17⁻)	B	Jπ: 1455.0γ (Q),ΔJ=2 to (15⁻), 893.4γ to (16⁻).
6227.1 *4*	(18⁻)	B	Jπ: 159.4γ (M1),ΔJ=2 to (17⁻), 1053.3γ (Q),ΔJ=2 to (16⁻).
6325.9? *5*	(18⁻)	B	Jπ: 1152.0γ (Q),ΔJ=2 to (16⁻). E(level): ordering of 1297-1152 cascade is uncertain. Reverse ordering gives E(level)=6471.
7623.2 *5*	(19⁻)	B	Jπ: proposed by 1996Al16; 1556.0γ to (17⁻), 1297.3γ to (18⁻).
7784.1 *7*	(19⁺)	B	Jπ: proposed by 1996Al16.
8699.0 *6*	(20⁻)	B	Jπ: proposed by 1996Al16.

† From least-squares fit to Eγ values.

‡ For high-spin states (J>5) the assignments are from 1996Al16 in (^{58}Ni,3pnγ),(^{40}Ca,3pnγ) with the parentheses added by the evaluators. These are based on ΔJ and multipolarity assignments deduced from γ(θ) and Doppler-broadening data.

γ(^{100}Ag)

E_i(level)	J_i^π	Eγ†	Iγ†	E_f	J_f^π	Mult.‡	δ@	α&	Comments
69.8	(6⁺)	69.8 *2*	100	0.0	(5)⁺	D			
118.4	(7⁺)	48.5 *2*		69.8	(6⁺)				
		118.4 *2*		0.0	(5)⁺				
124.70	(4)⁺	124.70 *10*	100	0.0	(5)⁺	M1(+E2)	<0.1	0.228	α(K)=0.198 *4*; α(L)=0.0247 *6*; α(M)=0.00471 *11* α(N)=0.000814 *18*; α(O)=3.72×10⁻⁵ *6*
155.23	(1,2,3)⁺	139.71 *10*	100	15.52	(2)⁺	M1(+E2)	<0.3	0.177 *12*	α(K)=0.152 *9*; α(L)=0.0199 *22*; α(M)=0.0038 *5* α(N)=0.00065 *7*; α(O)=2.81×10⁻⁵ *12*
236.15	(3)⁺	111.4 *2*	5.8 *7*	124.70	(4)⁺	M1(+E2)	<0.4	0.36 *5*	α(K)=0.30 *4*; α(L)=0.043 *10*; α(M)=0.0083 *20* α(N)=0.0014 *4*; α(O)=5.5×10⁻⁵ *5*
		220.65 *10*	100 *7*	15.52	(2)⁺	M1(+E2)	<0.8	0.056 *8*	α(K)=0.048 *7*; α(L)=0.0064 *13*; α(M)=0.00122 *25* α(N)=0.00021 *4*; α(O)=8.7×10⁻⁶ *8*
265.0	(7⁺)	146.5 *2*	23	118.4	(7⁺)	D			ΔJ=0 transition from γ(θ).
		195.3 *2*	100 *2*	69.8	(6⁺)	D			
303.65	(3)⁺	148.5 *3*	3.0 *6*	155.23	(1,2,3)⁺				
		178.95 *10*	100 *7*	124.70	(4)⁺	M1(+E2)	<0.4	0.091 *7*	α(K)=0.079 *6*; α(L)=0.0101 *12*; α(M)=0.00194 *23* α(N)=0.00033 *4*; α(O)=1.45×10⁻⁵ *8*
		288.13 *15*	46 *4*	15.52	(2)⁺	M1(+E2)	<1.1	0.028 *4*	α(K)=0.024 *3*; α(L)=0.0031 *6*; α(M)=0.00060 *12* α(N)=0.000102 *19*; α(O)=4.3×10⁻⁶ *4*
583.39	(1,2,3)⁺	347.23 *15*	41 *4*	236.15	(3)⁺	M1,E2		0.0171 *22*	α(K)=0.0148 *18*; α(L)=0.0019 *4*; α(M)=0.00037 *7* α(N)=6.3×10⁻⁵ *11*; α(O)=2.62×10⁻⁶ *20*
		428.20 *15*	87 *6*	155.23	(1,2,3)⁺	M1(+E2)	<1.3	0.0092 *4*	α(K)=0.0080 *3*; α(L)=0.00099 *7*;

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Adopted Levels, Gammas (continued)

$\gamma(^{100}Ag)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f	Mult.‡	α&	Comments
								α(M)=0.000188 *13* α(N)=3.24×10^{-5} *20*; α(O)=1.46×10^{-6} *3*
583.39	(1,2,3)$^+$	567.90 *15*	100 *6*	15.52	(2)$^+$	M1,E2		α(K)=0.00387 *8*; α(L)=0.000473 *12*; α(M)=8.99×10^{-5} *23* α(N)=1.55×10^{-5} *4*; α(O)=7.0×10^{-7} *3*
835.3	(8$^+$)	570.4 *3*	100	265.0	(7$^+$)			
		716.9		118.4	(7$^+$)			
		765.6 *3*	65 *3*	69.8	(6$^+$)			
886.04	(1,2,3)$^+$	302.8 *3*	1.8 *6*	583.39	(1,2,3)$^+$			
		582.5 *3*	100 *6*	303.65	(3)$^+$	M1,E2		
		650.0 *3*	10.8 *11*	236.15	(3)$^+$			
		730.77 *25*	27 *2*	155.23	(1,2,3)$^+$			
		870.4 *3*	8.9 *8*	15.52	(2)$^+$			
952.06	1$^+$	368.70 *15*	7.0 *5*	583.39	(1,2,3)$^+$	M1,E2	0.0144 *16*	α(K)=0.0124 *12*; α(L)=0.0016 *3*; α(M)=0.00031 *5* α(N)=5.2×10^{-5} *8*; α(O)=2.22×10^{-6} *13*
		796.6 *4*	0.11 *3*	155.23	(1,2,3)$^+$			
		936.55 *15*	100 *6*	15.52	(2)$^+$			
973.3	(8$^+$)	708.3 *3*	100 *6*	265.0	(7$^+$)	D		
		854.8 *4*	12 *6*	118.4	(7$^+$)			
1002.1	(9$^+$)	737.1 *3*	27 *1*	265.0	(7$^+$)	(Q)		
		883.9 *3*	100	118.4	(7$^+$)	Q		
1039.46	(1,2)$^-$	1024.1 *3*	100	15.52	(2)$^+$			
1123.2	(9$^+$)	150.0 *2*	7.2	973.3	(8$^+$)			
		287.9 *3*	28 *2*	835.3	(8$^+$)	D		
		858.1 *3*	100	265.0	(7$^+$)	(Q)		
		1004.6 *3*	80	118.4	(7$^+$)			
1156.40	1$^+$	117.0 *2*	5.6 *12*	1039.46	(1,2)$^-$	[E1]	0.1020	α(K)=0.0888 *14*; α(L)=0.01078 *16*; α(M)=0.00203 *3* α(N)=0.000346 *6*; α(O)=1.421×10^{-5} *21*
		270.37 *15*	15.6 *12*	886.04	(1,2,3)$^+$	M1,E2	0.036 *8*	α(K)=0.031 *7*; α(L)=0.0042 *13*; α(M)=0.00081 *25* α(N)=0.00014 *4*; α(O)=5.4×10^{-6} *8*
		573.1 *4*	16 *3*	583.39	(1,2,3)$^+$			
		852.0 *4*	6.0 *16*	303.65	(3)$^+$			
		1140.79 *20*	100 *8*	15.52	(2)$^+$			
1212.70	1$^+$	173.2 *2*	26.2 *21*	1039.46	(1,2)$^-$	E1	0.0334	α(K)=0.0291 *5*; α(L)=0.00348 *5*; α(M)=0.000657 *10* α(N)=0.0001124 *17*; α(O)=4.83×10^{-6} *7*
		629.4 *3*	25.9 *24*	583.39	(1,2,3)$^+$			
		909.2 *4*	11.7 *21*	303.65	(3)$^+$			
		1057.5 *3*	52 *7*	155.23	(1,2,3)$^+$			
		1197.12 *20*	100 *7*	15.52	(2)$^+$			
1393.16	1$^+$	441.10 *15*	13.7 *13*	952.06	1$^+$	M1,E2		
		507.25 *25*	100 *19*	886.04	(1,2,3)$^+$	M1,E2		
		809.83 *20*	85 *6*	583.39	(1,2,3)$^+$			
		1156.8 *5*	3.6 *8*	236.15	(3)$^+$			
		1377.52 *20*	85 *6*	15.52	(2)$^+$			
1530.4	(10$^+$)	695.4 *4*	100	835.3	(8$^+$)	(Q)		
1574.31	1$^+$	361.4 *3*	6.2 *21*	1212.70	1$^+$			
		535.0 *3*	5.8 *10*	1039.46	(1,2)$^-$			
		688.3 *3*	100 *10*	886.04	(1,2,3)$^+$			
		990.9 *3*	40 *4*	583.39	(1,2,3)$^+$			
		1338.2 *4*	5.5 *19*	236.15	(3)$^+$			
1607.0	(10$^+$)	483.8 *2*	100.0 *16*	1123.2	(9$^+$)	D		

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Adopted Levels, Gammas (continued)

$\gamma(^{100}Ag)$ (continued)

E_i(level)	J^π_i	E_γ †	I_γ †	E_f	J^π_f	Mult. ‡	α &	Comments
1607.0	(10+)	771.9 4	8.1	835.3	(8+)			
1634.7	(8−)	1369.4 4	100	265.0	(7+)	D		
1723.1	(11+)	116.1 2	29	1607.0	(10+)	D		
		192.7 2	5.7	1530.4	(10+)			
		599.7 3	15	1123.2	(9+)	(Q)		
		721.1 2	100 2	1002.1	(9+)	Q		
1892.96	1+	500.0 5	7.6 24	1393.16	1+			
		680.6 4	19 6	1212.70	1+			
		940.9 3	100 18	952.06	1+			
		1309.3 3	42 3	583.39	(1,2,3)+			
1960.2	1+	1074.2 5	20 7	886.04	(1,2,3)+			
		1944.7 3	100 7	15.52	(2)+			
2047.1	(11)	516.5 3	65 6	1530.4	(10+)	D		
		1045.1 2	100 6	1002.1	(9+)			
2082.1	(9−)	447.4 2	100	1634.7	(8−)	(M1)#		
2120.7		1118.6 4	82 9	1002.1	(9+)			
		1147.3 3	100 9	973.3	(8+)			
2242.5	(10−)	195.2 3		2047.1	(11)			
2249.8	(9−)	128.9 3	100	2120.7				
2478.8	(10−)	228.9 2	76 5	2249.8	(9−)	(M1)#	0.0438	α(K)=0.0381 6; α(L)=0.00464 7; α(M)=0.000881 13 α(N)=0.0001526 22; α(O)=7.14×10^{-6} 11
		396.7 2	100 5	2082.1	(9−)	(M1)#	0.01074	α(K)=0.00937 14; α(L)=0.001120 16; α(M)=0.000213 3 α(N)=3.69×10^{-5} 6; α(O)=1.743×10^{-6} 25
		844.0 4	52 5	1634.7	(8−)	(Q)		
		948.6 2	19 5	1530.4	(10+)			
2549.7	(12+)	826.6 3	100	1723.1	(11+)	D+Q		
2653.0	(13+)	103.3 2	15 1	2549.7	(12+)	D		
		930.0 2	100 1	1723.1	(11+)	(Q)		
2856.7	(11−)	378.1 2	100 3	2478.8	(10−)	(M1)#	0.0121	α(K)=0.01056 15; α(L)=0.001263 18; α(M)=0.000240 4 α(N)=4.16×10^{-5} 6; α(O)=1.96×10^{-6} 3
		614.2 2	45 3	2242.5	(10−)	D		
		774.4 4	18	2082.1	(9−)	(Q)		
		1326.3 3	8 3	1530.4	(10+)			
2894.0	(13+)	241.4 3	35 3	2653.0	(13+)			
		344.4 2	56 3	2549.7	(12+)	(M1)#	0.0153	α(K)=0.01334 19; α(L)=0.001601 23; α(M)=0.000304 5 α(N)=5.27×10^{-5} 8; α(O)=2.48×10^{-6} 4
		1170.7 3	100	1723.1	(11+)			
3227.0	(12−)	370.3 2	100.0 17	2856.7	(11−)	(M1)#	0.01275	α(K)=0.01112 16; α(L)=0.001332 19; α(M)=0.000253 4 α(N)=4.38×10^{-5} 7; α(O)=2.07×10^{-6} 3
		748.1 4	23.3 17	2478.8	(10−)	(Q)		
3435.4	(13−)	208.4 2	100	3227.0	(12−)	(M1)#	0.0561	α(K)=0.0488 7; α(L)=0.00595 9; α(M)=0.001132 17 α(N)=0.000196 3; α(O)=9.15×10^{-6} 13
3595.9	(14+)	702.0 3	57 5	2894.0	(13+)	D		
		942.8 3	100	2653.0	(13+)	D		
3739.8	(15+)	143.9 2	25	3595.9	(14+)	(M1)#	0.1525	α(K)=0.1325 20; α(L)=0.01632 24; α(M)=0.00311 5 α(N)=0.000537 8; α(O)=2.49×10^{-5} 4

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{100}Ag)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f	Mult.‡	α&	Comments
3739.8	(15+)	845.9 *3*	69 *3*	2894.0	(13+)	(Q)		
		1086.8 *2*	100 *3*	2653.0	(13+)	(Q)		
3986.9	(14−)	551.6 *2*	100.0 *21*	3435.4	(13−)	(M1)#		
		1333.7 *3*	14.6 *21*	2653.0	(13+)			
4005.8	(14−)	570.3 *3*	100	3435.4	(13−)			
		1352.9 *4*	84	2653.0	(13+)	D		
4115.3		519.4 *3*	100	3595.9	(14+)			
4134.8		699.4 *3*	100	3435.4	(13−)			
4612.7	(15−)	625.7 *2*	89	3986.9	(14−)	(M1)#		
		1177.3 *3*	100 *4*	3435.4	(13−)	(Q)		
4630.6?	(16+)	890.6 *4*	100	3739.8	(15+)			
5173.9	(16−)	561.2 *2*	100.0 *23*	4612.7	(15−)	(M1)#		
		1186.8 *5*	26	3986.9	(14−)	(Q)		
		1434.2 *3*	7.0 *23*	3739.8	(15+)			
5329.7	(16−)	155.8 *3*	36	5173.9	(16−)			
		716.9 *3*	100 *4*	4612.7	(15−)	D+Q		
5591.7	(17+)	961.1 *2*	100 *6*	4630.6?	(16+)	D		
		1852.0 *4*	22 *6*	3739.8	(15+)			
6016.3	(18+)	424.6 *3*	100	5591.7	(17+)	(M1)#		
6067.5	(17−)	893.4 *3*	88	5173.9	(16−)			
		1455.0 *4*	100 *6*	4612.7	(15−)	(Q)		
6227.1	(18−)	159.4 *2*	54.8 *24*	6067.5	(17−)	(M1)#	0.1153	α(K)=0.1002 *15*; α(L)=0.01232 *18*; α(M)=0.00234 *4* α(N)=0.000406 *6*; α(O)=1.88×10⁻⁵ *3*
		1053.3 *3*	100	5173.9	(16−)	(Q)		
6325.9?	(18−)	1152.0 *3*	100	5173.9	(16−)	(Q)		
7623.2	(19−)	1297.3 *3*	87	6325.9?	(18−)			
		1395.8 *4*	40	6227.1	(18−)			
		1556.0 *4*	100 *7*	6067.5	(17−)			
7784.1	(19+)	1767.8 *4*	100	6016.3	(18+)			
8699.0	(20−)	1075.8 *3*	100	7623.2	(19−)			

† From ^{100}Cd ε decay.

‡ From γ(θ) in (^{58}Ni,3pnγ),(^{40}Ca,3pnγ) for transitions from high-spin (J≥5) states with ΔJ=1 for D or D+Q and ΔJ=2 for Q, and from ce data in ^{100}Cd ε decay for transitions from low-spin (J<5) states, unless otherwise noted.

From Doppler broadened γ ray in (^{58}Ni,3pnγ),(^{40}Ca,3pnγ) indicates M1 from lifetime estimates. γ(θ) also indicates ΔJ=1, dipole.

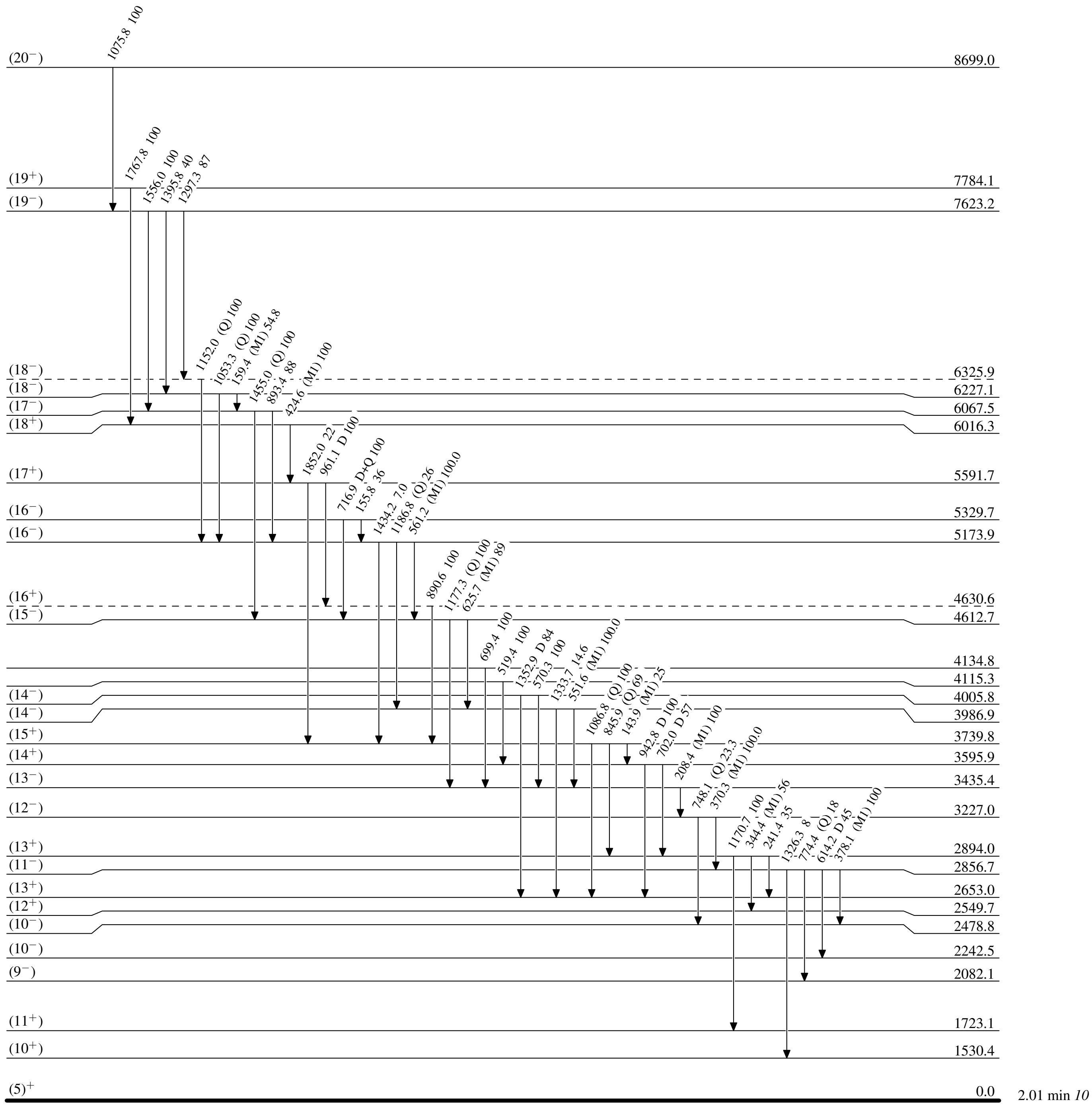
@ From ce data in ^{100}Cd ε decay.

& Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

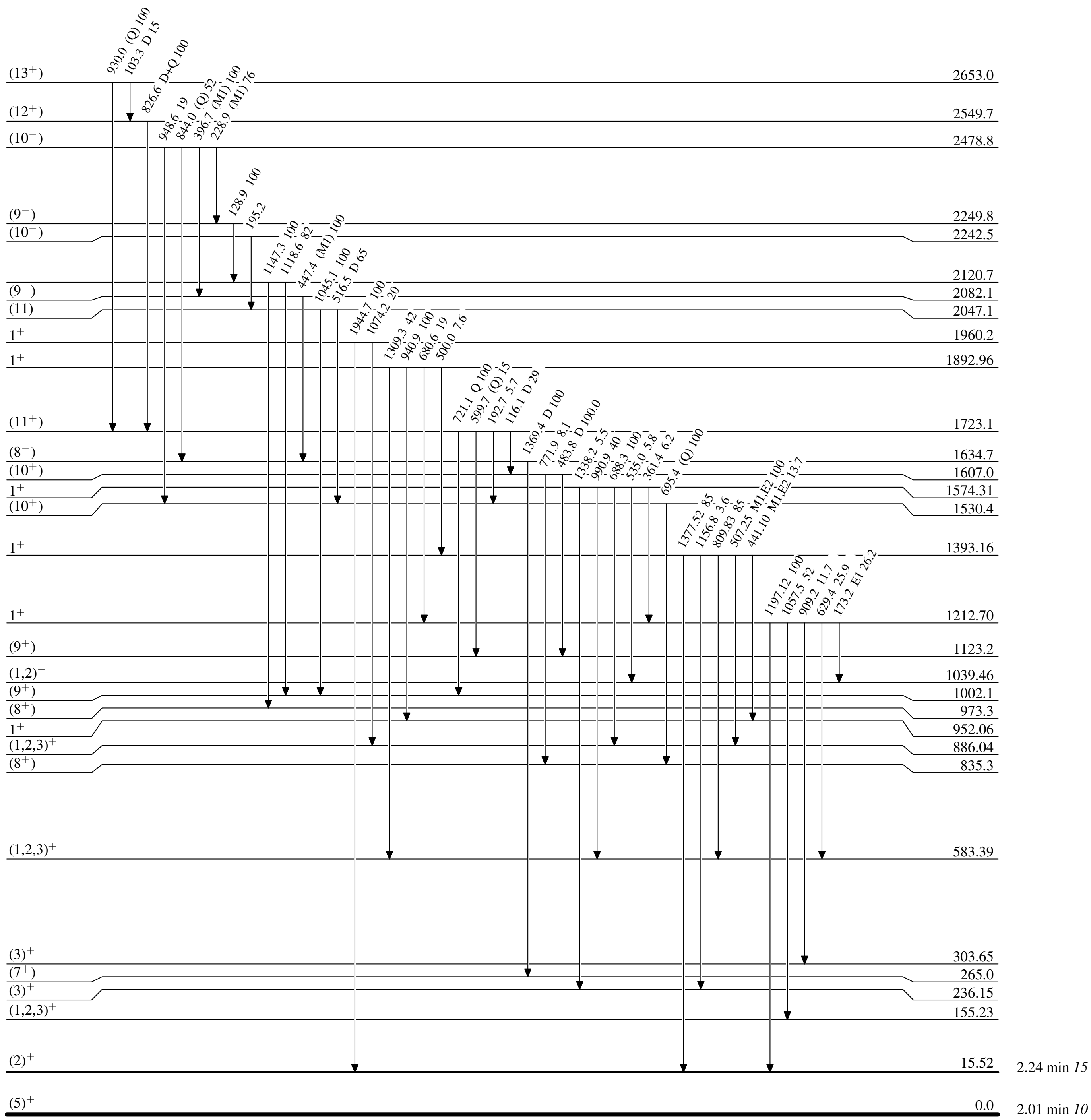


$^{100}_{47}Ag_{53}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

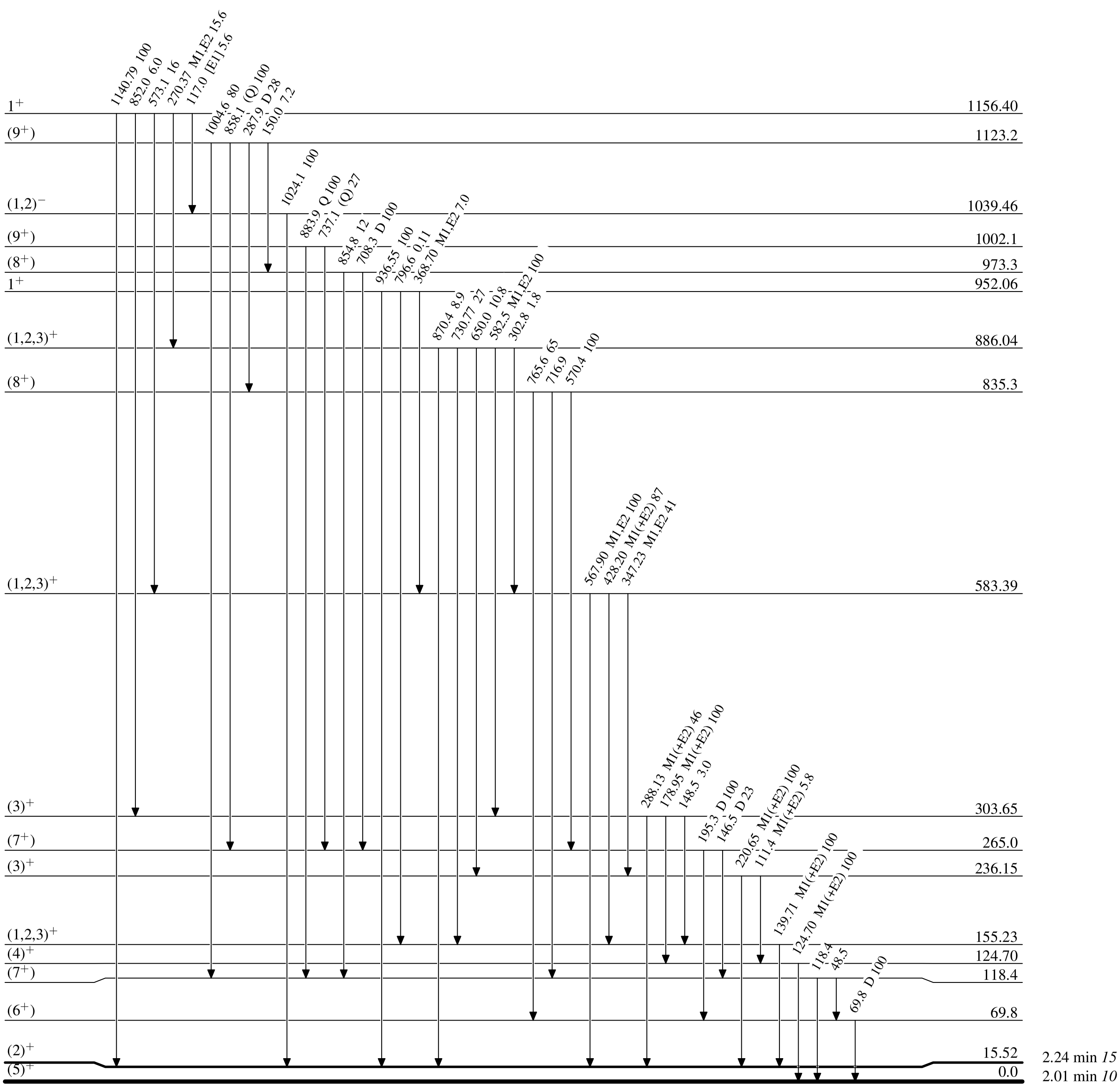


$^{100}_{47}Ag_{53}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{100}_{47}Ag_{53}$