Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109,1383 (2008)	1-Mar-2008

Q(β^-)=−1416 *3*; S(n)=9536 *4*; S(p)=5788.2 *24*; Q(α)=−2803 *4* 2012Wa38

Note: Current evaluation has used the following Q record −1417 4 *9536* 4 *5788* 3 −2804 5 2003Au03.

^{107}Ag band properties: E(level), $T_{1/2}$, branching ratio, δ, HF values are compared with rotational-model Coriolis calculation and with ^{105}Ag; see 1979Po13.

^{107}Ag Levels

Cross Reference (XREF) Flags

A	^{107}Pd β^- decay (6.5×10^6 y)	G	^{106}Pd(^{3}He,d)	M	^{107}Ag(α,α')
B	^{107}Ag IT decay (44.3 s)	H	^{107}Ag(γ,γ'):bremsstrahlung	N	Coulomb excitation
C	^{107}Cd ε decay (6.50 h)	I	^{107}Ag(n,n'γ)	O	^{109}Ag(p,t)
D	^{96}Zr(^{14}N,3nγ)	J	^{107}Ag(p,p')	P	^{107}Ag(d,d')
E	^{104}Ru(^{6}Li,3nγ),(^{7}Li,4nγ)	K	^{107}Ag(p,p'γ)	Q	^{106}Pd(p,p),(p,n) IAR
F	^{100}Mo(^{11}B,4nγ)	L	(HI,xnγ)		

E(level)[‡]	J$^\pi$[†]	$T_{1/2}$	XREF	Comments
0.0[e]	1/2$^-$	stable	ABCDEFGH JK MNO	μ=−0.113570 *20* (1989Ra17) μ: other: −0.11367965 *15* (1974Sa25). Δ<r^2>=0.148 *31* (1989Di12). J$^\pi$: 1/2 (1976Fu06) optical, L=0 (p,t), L=1 (^{3}He,d).
93.125 *19*	7/2$^+$	44.3 s *2*	BCDEFG N	%IT=100 μ=(+)4.398 *5* (1985Ed01,1989Ra17); Q=0.98 *11* (1986Be01) $T_{1/2}$: from 1947Br05. Agrees with the last result: 44.5 s *8* (2000Yo07); Others: 40 s *2* (1940Al01),44 s *1* (1951Wo15),43.8 s *6* (1963Ve13), 44.2 s *3* (1967Ab07). J$^\pi$: E3 transition to 1/2$^-$ g.s. μ,Q: μ using radiation detection of NMR method, Q: level mixing resonance on oriented nuclei.
125.59[a] *3*	(9/2)$^+$	2.85 ns *10*	CDEFG L O	E(level): follows regional trend of low-lying 9/2$^+$ states: ^{101}Ag at g.s., ^{103}Ag at 27 keV, ^{105}Ag at 53 keV, ^{109}Ag at 133 keV, ^{111}Ag at 130 keV. $T_{1/2}$: from 1972Ja01 (796γ)(32γ)(t), scin. Others: 1962La10, 1969Be75. B(E2)(9/2$^+$ to 7/2$^+$)=0.24 *9* exp, 0.185 theory (1974Ku09). J$^\pi$: L=4 (^{3}He,d), M1+E2(32γ) to 7/2$^+$ state and syst.
324.81[e] *3*	3/2$^-$	5.0 ps *9*	C EFG J MNO	μ=+0.94 *14* (1984Wo08) μ: others: +1.05 *14* (1984Ba72), +0.92 *18* (1986Ba14). $T_{1/2}$: 5.0 ps *9* (1974Mi02) recoil-distance Doppler shift. J$^\pi$: L=2 (p,t), L=1 (^{3}He,d), Coul. ex., M1+E2(325γ) to 1/2$^-$ g.s.
423.150[e] *24*	5/2$^-$	29.8 ps *21*	CDEFGH J MNO	μ=+1.03 *18* (1989Ra17) μ: others: +1.13 *15* (1984Ba72), +1.03 *18* (1986Ba14), +0.93 *15* (1984Wo08). $T_{1/2}$: 30 ps *2* (1974Mi02) recoil-distance Doppler shift, 35 ps *2* (1989Lo08). J$^\pi$: L=2 (p,t), J=5/2 from $\gamma(\theta)$ in Coul. ex.
773.31[a] *6*	(11/2)$^+$	<15 ns	DEF L	$T_{1/2}$: from (1979Sc30) $\gamma\gamma$(t). J$^\pi$: intraband M1+E2(648γ) to 9/2$^+$ base state.
786.59 *25*	3/2$^-$	0.27 ps *8*	C GH MNO	$T_{1/2}$: 0.27 ps *8* (1970Ro14) DSA. Other: 0.21 ps *7* (1974Er05) DSA.

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Adopted Levels, Gammas (continued)

^{107}Ag Levels (continued)

E(level)[‡]	J^{π}[†]	$T_{1/2}$	XREF	Comments
				J^{π}: L=2 (p,t), L=1 (^{3}He,d), Coul. ex., D+Q(786γ) to $1/2^-$ g.s.
922.06 *3*	$5/2^+$	≤0.6 ns	C G	$T_{1/2}$: from (K x ray)(829γ)(t) (1969Be75). J^{π}: L=2 (^{3}He,d), E1(597γ) to $3/2^-$ state, M1(829γ) to $7/2^+$ state.
949.70 *7*	$5/2^-$	1.36 ps *18*	C H J MNO	$T_{1/2}$: from B(E2)=0.0203 *22*, Iγ(950γ)-branching=12.6% *10*. Others: 1970Ro14, 1974Er05 (DSA). J^{π}: L=2 (p,t), M1+E2 γ decays to $3/2^-$,$5/2^-$ states, E2(950γ) to $1/2^-$ g.s., $T_{1/2}$ from B(E2) and DSA methods agree.
973.3[e] *3*	$(7/2)^-$		C EF NO	J^{π}: L=4 (p,t), γ decays to $3/2^-$.
991.00[a] *6*	$(13/2)^+$	<15 ns	DEF L	$T_{1/2}$: from 1979Sc30 $\gamma\gamma$(t). J^{π}: intraband E2(865γ) crossover, M1+E2(218γ) cascade.
1061.2 *3*	$7/2^+$,$9/2^+$[@]		FG O	
1142 *1*	$1/2^+$		G m	XREF: m(1140). J^{π}: L=0 (^{3}He,d).
1143.06 *8*	$(5/2)^-$		C m O	XREF: m(1140). J^{π}: M1+E2 γ to $5/2^-$ state. D+Q γ to $3/2^-$. γ to $7/2^+$.
1146.9[e] *5*	$(9/2)^-$		DEF J mN	XREF: m(1140). J^{π}: L=4 (p,t), E2 γ to $5/2^-$.
1222 *5*	$(11/2^-,13/2^-)$		O	J^{π}: L(p,t)=(6).
1223.01 *5*	$(5/2)^+$		C G	J^{π}: L=2 (^{3}He,d), M1(301γ) to $5/2^+$ state, E1(898γ) to $3/2^-$ state, γ-decays to $7/2^+$,$9/2^+$ states.
1258.89 *24*	$(3/2)^+$		C GH J	J^{π}: L=2 (^{3}He,d), γ-decays to $1/2^-$,$3/2^-$,$7/2^+$ states.
1325.8 *3*	$(3/2)^+$		C GH	J^{π}: L=2 (^{3}He,d), γ-decays to $1/2^-$,$7/2^+$ states.
1449.01 *21*			D	
1464.7 *10*	$(3/2)^-$	<0.6 ps	G MNO	$T_{1/2}$: from Iγ(1465γ) branching and B(E2) limits (1970Ro14). J^{π}: L=2 (p,t). M1+E2 γ to $3/2^-$, not to $5/2^-$.
1483 *5*			O	J^{π}: L(p,t)=6,5.
1508 *10*	$7/2^+$,$9/2^+$		G J	J^{π}: L=4 (^{3}He,d).
1572 *5*	$7/2^-$,$9/2^-$[@]		J O	
1577.35 *20*	$(15/2)^+$		DE	Unobserved γ feeding in prompt γ(804γ)-coin spectra suggests 1577-keV isomer ($T_{1/2}$=?). J^{π}: γ's to $(13/2)^+$, $(11/2)^+$.
1615 *5*	$1/2^-$		O	J^{π}: L=0 (p,t).
1653 *5*	$1/2^-$		m O	J^{π}: L=0 (p,t).
1656 *10*	$7/2^+$,$9/2^+$		G m	J^{π}: L=4 (^{3}He,d).
1685 *5*	$7/2^-$,$9/2^-$[@]		J O	
1799.69[a] *13*	$(15/2)^+$		DEF L	J^{π}: intraband E2(1026γ) crossover, M1+E2(808γ) cascade.
1820 *10*	$1/2^+$		G	J^{π}: L=0 (^{3}He,d).
1832 *5*	$3/2^-$,$5/2^-$[@]		O	
1846.0 *4*			D	
1851 *5*	$1/2^-$		O	J^{π}: L=0 (p,t).
1875 *5*			G M O	J^{π}: L(p,t)=2,3.
1904 *5*			O	J^{π}: L(p,t)=2,3.
1918 *5*	$7/2^-$,$9/2^-$[@]		G J O	
1924.8[d] *4*	$13/2^-$		F L	
1942 *5*	$3/2^-$,$5/2^-$[@]		O	
1956 *5*	$7/2^-$,$9/2^-$[@]		O	
1975.71 *23*			D	

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Adopted Levels, Gammas (continued)

^{107}Ag Levels (continued)

E(level)[‡]	Jπ[†]	XREF	Comments
2026 *5*	$5/2^+$	G O	Jπ: L=2 (^{3}He,d). L(p,t)=3,4.
2053.54[a] *11*	$(17/2)^+$	DEF L	Jπ: intraband E2(1062γ) crossover, 254γ cascade.
2062 *5*	$5/2^+,7/2^+$[@]	G O	XREF: G(2095).
2065.1[e] *20*	$(13/2^-)$	F	
2066.7 *21*		F	
2111 *5*		G O	XREF: G(2105). Jπ: L(p,t)=4,3.
2140 *5*	$5/2^+,7/2^+$[@]	O	
2171.99 *24*	$15/2^-$	F L	
2176.4 *21*		F	
2177 *5*	$5/2^+,7/2^+$[@]	M O	
2199 *5*	$5/2^+,7/2^+$[@]	G J O	
2227 *5*	$5/2^+,7/2^+$[@]	O	
2254 *5*	$3/2^-,5/2^-$[@]	O	
2284 *5*	$3/2^-,5/2^-$[@]	O	
2297.91[c] *12*	$(15/2)^-$	DEF L	Jπ: E1(1307γ) to $13/2^+$ state.
2306 *5*	$7/2^-,9/2^-$[@]	O	
2320 *5*	$7/2^-,9/2^-$[@]	O	
2347 *5*		O	
2355 *5*	$9/2^+,11/2^+$[@]	O	
2370.5 *21*		F	
2374 *5*	$3/2^-,5/2^-$[@]	O	
2405 *5*	$3/2^-,5/2^-$[@]	O	
2411.88[c] *13*	$(17/2)^-$	DEF L	Jπ: intraband M1+E2(114γ) to $15/2^-$ base state.
2414 *5*	$7/2^-,9/2^-$[@]	O	
2437 *5*	$3/2^-,5/2^-$[@]	O	
2463 *5*	$7/2^-,9/2^-$[@]	O	
2463.5[d] *5*	$(15/2^-)$	F	
2494 *5*	$7/2^-,9/2^-$[@]	O	
2533 *5*	$7/2^-,9/2^-$[@]	O	
2543.08[c] *14*	$(19/2)^-$	DEF L	Jπ: intraband M1+E2(131γ) to $17/2^-$ state.
2590 *5*	$7/2^-,9/2^-$[@]	O	
2664.5[d] *5*	$(17/2^-)$	F	
2666 *5*		O	Jπ: L(p,t)=4,5.
2672 *5*		O	
2701 *5*	$7/2^-,9/2^-$[@]	O	
2717 *5*		O	
2732.9 *24*	$21/2^-$	F	
2733 *5*	$7/2^-,9/2^-$[@]	O	
2733.68 *25*	$^-$	DE	
2748.09[c] *15*	$(21/2)^-$	DEF L	Jπ: intraband M1+E2(205γ) to $19/2^-$ state.
2776 *5*		D	
2790.2 *10*		E	
2808 *5*	$7/2^-,9/2^-$[@]	O	
2844 *5*	$7/2^-,9/2^-$[@]	O	
2883 *5*		O	
2891.91[a] *18*	$(19/2)^+$	F L	
2904 *5*		O	

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Adopted Levels, Gammas (continued)

^{107}Ag Levels (continued)

E(level)[‡]	J^{π}[†]	XREF	Comments
2923.5[d] *5*	(19/2⁻)	F	
3004[d] *1*		F	
3028.58 *23*		D	
3034.4 *4*	23/2⁻	DEF	
3048.3 *8*		L	
3056.25[c] *17*	(23/2)⁻	DEF L	J^{π}: intraband M1+E2(308γ) to 21/2⁻ state.
3111 *5*		O	
3125 *5*		O	
3148.35[a] *14*	(21/2)⁺	DEF L	J^{π}: intraband E2(1095γ) to 17/2⁺ state.
3238.5 *8*		L	
3294.5[d] *5*	(21/2⁻)	F	
3297.84 *22*	(21/2⁻)	D F L	
3460.51[a] *15*	(23/2)⁺	DEF L	J^{π}: M1+E2(312γ) to 21/2⁺ state.
3466.57[c] *25*	(25/2)⁻	DEF	J^{π}: intraband M1+E2(410γ) to 23/2⁻ state.
3520.0 *11*	25/2⁻	EF	
3598.1 *7*		L	
3675.5[d] *5*	(23/2⁻)	F	
3683.02[a] *18*	(25/2)⁺	D F L	J^{π}: (M1+E2) γ to 23/2⁺ state.
3723.7 *8*	27/2⁻	L	
3742.2 *11*		L	
3927.9[c] *4*	(27/2⁻)	D F L	
3954.2 *7*		L	
3977.84[a] *21*	(27/2⁺)	D F L	J^{π}: probable M1+E2 γ to (25/2⁺).
4023.5 *11*		E	
4031.1 *10*		L	
4046.4 *15*		E	
4102.5[d] *5*	(25/2⁻)	F	
4356.4[a] *3*	(29/2)⁺	F L	
4375.1 *3*	(29/2⁺)	D	J^{π}: probable M1+E2 γ to 27/2⁺.
4397.8[c] *4*	(29/2⁻)	F L	
4752.7[a] *3*	(31/2)⁺	F L	
4753.0 *15*		E	
4773.1? *11*		D	
4968.2[b] *4*	29/2⁺	F L	
5006.7[c] *5*	(31/2⁻)	F L	
5246.8[a] *4*	(33/2)⁺	F L	
5257.6[b] *4*	31/2⁺	F L	
5565.3[c] *5*	(33/2⁻)	L	
5575.4[b] *4*	33/2⁺	F L	
5748.0[a] *4*	(35/2)⁺	L	
5944.9[b] *4*	35/2⁺	L	
6319.3[a] *4*	(37/2)⁺	L	
6376.8[b] *4*	37/2⁺	L	
6887.8[b] *5*	39/2⁺	L	
6912.4[a] *4*	(39/2)⁺	L	
7442.1[b] *5*	41/2⁺	L	
8046.6[b] *5*	43/2⁺	L	
8718.1[b] *6*	45/2⁺	L	
12201[#] *3*	(5/2⁺)[&]	Q	
12287[#] *2*	(1/2⁺)[&]	Q	

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Adopted Levels, Gammas (continued)

^{107}Ag Levels (continued)

E(level)‡	J^{π}†	XREF
12595# 2	(3/2$^+$)&	Q
12638# 2	(1/2$^+$)&	Q
12692# 2	(3/2$^+$)&	Q
12794# 2	(5/2$^+$)&	Q

† For (HI,xnγ) excitations, assignments are based partly on γ-excitation functions, $\gamma(\theta)$, $\gamma\gamma(\theta)$ ratios, and on the premise that J(initial)=J(final)+ΔJ is more likely than J(initial)=J(final)-ΔJ.
‡ Level energy from least-squares adjustment.
# IAS.
@ From L in (p,t).
& From J^{π} of parent analog.
[a] Band(A): πg9/2 ,Yrast E(levels), δ, branching ratios, HF, $T_{1/2}$ are compared with rotational-model Coriolis calc and with ^{105}Ag.
[b] Band(B): ΔJ=1 Band based on 29/2$^+$ E(levels), δ, branching ratios, HF, $T_{1/2}$ are compared with rotational-model Coriolis calc and with ^{105}Ag.
[c] Band(C): ΔJ=1 band based on (15/2$^-$).
[d] Band(D): 3 quasi -particle band (1997Es02). J^{π} from cranked-shell model.
[e] Band(E): $p_{1/2}$ hole Band on gs.

$\gamma(^{107}Ag)$

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[†]	δ	α[@]	Comments
93.125	7/2+	93.124 *20*	100	0.0	1/2−	E3		20.4	B(E3)(W.u.)=0.0310 *9*
125.59	(9/2)+	32.46 *2*	100	93.125	7/2+	M1+E2	0.074 *14*	11.6 *2*	B(M1)(W.u.)=0.018 *1*; B(E2)(W.u.)=81 *29*
324.81	3/2−	324.81 *3*	100	0.0	1/2−	M1+E2	−0.207 *10*	0.0180 *1*	B(M1)(W.u.)=0.12 *2*; B(E2)(W.u.)=42 *4*
423.150	5/2−	98.2 *5*	4.6 *4*	324.81	3/2−	(M1+E2)[#]	−0.059 *18*	0.449 *3*	B(M1)(W.u.)=0.033 *4*; B(E2)(W.u.)=11.1 *13*
		330 *1*	0.22 *4*	93.125	7/2+	[E1]			B(E1)(W.u.)=2.7×10^{-7} *4*
		423.150 *25*	100 *4*	0.0	1/2−	E2		0.0104	B(E2)(W.u.)=43 *3*
773.31	(11/2)+	647.71 *5*	100 *5*	125.59	(9/2)+				B(M1)(W.u.)>6.4×10^{-6}; B(E2)(W.u.)>0.0015
		680.3 *3*	6.6 *28*	93.125	7/2+	E2			B(E2)(W.u.)>0.0005
786.59	3/2−	364 *1*	12 *6*	423.150	5/2−				
		461.9 *8*	44 *9*	324.81	3/2−	(M1+E2)[#]	−0.01 *8*		B(M1)(W.u.)=0.23 *8*; B(E2)(W.u.)<7.4
		786.4 *7*	100	0.0	1/2−	(M1+E2)[#]	−0.057 *10*		B(M1)(W.u.)=0.11 *3*; B(E2)(W.u.)=0.5 *3*
922.06	5/2+	597.27 *6*	4.65 *25*	324.81	3/2−	E1			B(E1)(W.u.)>7.5×10^{-8}
		796.462 *25*	39.8 *12*	125.59	(9/2)+	(E2)			B(E2)(W.u.)>0.026 Mult.: α(K)exp allows M1 or E2. ΔJ=2 required by adopted J^{π}'s.
		828.93 *3*	100 *5*	93.125	7/2+	M1			B(M1)(W.u.)>4.4×10^{-5}
949.70	5/2−	162 *2*	2.2 *12*	786.59	3/2−				E_γ: seen only in Coulomb excitation and reported there as possible impurity line.
		526.5 *1*	100 *4*	423.150	5/2−	M1+E2	−0.24 *3*		B(M1)(W.u.)=0.053 *7*; B(E2)(W.u.)=9.5 *26*
		624.91 *10*	78 *4*	324.81	3/2−	M1+E2	−0.28 *3*		B(M1)(W.u.)=0.024 *4*; B(E2)(W.u.)=4.2 *10*
		856.5 *4*	2.0 *4*	93.125	7/2+	[E1]			B(E1)(W.u.)=3.6×10^{-6} *9*
		949.8 *2*	25.9 *19*	0.0	1/2−	E2			B(E2)(W.u.)=2.3 *4*
973.3	(7/2)−	550.1 *4*	100 *8*	423.150	5/2−				
		648.5 *4*	20 *4*	324.81	3/2−				I_γ: Iγ(648γ)/Iγ(550γ)=0.43 *3* in Coulomb excitation.
991.00	(13/2)+	217.7 *2*	14.8 *3*	773.31	(11/2)+				
		865.42 *5*	100 *8*	125.59	(9/2)+	[E2]			B(E2)(W.u.)>0.0033
1143.06	(5/2)−	356.4 *4*	9.5 *14*	786.59	3/2−				
		719.93 *10*	100 *7*	423.150	5/2−	M1+E2	−1.1 *2*		
		818.23 *10*	57 *7*	324.81	3/2−	(M1+E2)[#]	+2.0 *+2−5*		δ: +2.0 *+2−5* or +0.26 *+14−11* from $\gamma(\theta)$ in ε decay.
		1050.0 *4*	5.5 *9*	93.125	7/2+				
1146.9	(9/2)−	723.7 *5*	100	423.150	5/2−	E2			
1223.01	(5/2)+	300.9 *5*	27 *2*	922.06	5/2+	M1(+E2)	<0.63	0.022	
		436.6 *4*	2.7 *4*	786.59	3/2−				
		799.92 *15*	20 *2*	423.150	5/2−				
		898.17 *6*	100 *4*	324.81	3/2−	E1			
		1097.5 *2*	20 *2*	125.59	(9/2)+				
		1129.9 *1*	74 *4*	93.125	7/2+	M1,E2			
1258.89	(3/2)+	934.0 *4*	18 *4*	324.81	3/2−				
		1165.7 *4*	100 *16*	93.125	7/2+				
		1259.0 *4*	12.0 *24*	0.0	1/2−				

$^{107}_{47}Ag_{60}$-6

Adopted Levels, Gammas (continued)

$\gamma(^{107}Ag)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ‡	E_f	J^π_f	Mult.†	δ	α@	Comments
1325.8	(3/2)$^+$	1232.6 4	100 21	93.125	7/2$^+$				
		1325.8 4	17 3	0.0	1/2$^-$				
1449.01		675.7 2	100	773.31	(11/2)$^+$				
1464.7	(3/2)$^-$	1139.9 10	100	324.81	3/2$^-$	M1+E2	−0.12 3		B(M1)(W.u.)>0.024; B(E2)(W.u.)>0.13
1577.35	(15/2)$^+$	586.6 5	43 2	991.00	(13/2)$^+$	M1+E2	−3.0 9		
		804.0 2	100 2	773.31	(11/2)$^+$	E2			
1799.69	(15/2)$^+$	808.5 2	100 11	991.00	(13/2)$^+$	M1+E2	+0.27 8		
		1026.3 2	22 8	773.31	(11/2)$^+$	E2			
1846.0		397.0 3	100	1449.01					
1924.8	13/2$^-$	933.8 4	100	991.00	(13/2)$^+$				
1975.71		526.7 1	100	1449.01		M1+E2	+0.25 5		
2053.54	(17/2)$^+$	254.1 5	6 3	1799.69	(15/2)$^+$				
		1062.6 1	100 10	991.00	(13/2)$^+$	E2			
2065.1	(13/2$^-$)	918.8 3	100	1146.9	(9/2)$^-$				
2066.7		1075.5 3		991.00	(13/2)$^+$				
		1294.0 3		773.31	(11/2)$^+$				
2171.99	15/2$^-$	372.3 2	100	1799.69	(15/2)$^+$				
2176.4		1185.5 3		991.00	(13/2)$^+$				
		1403.4 3		773.31	(11/2)$^+$				
2297.91	(15/2)$^-$	121.2 3		2176.4					
		231.0 3		2066.7					
		498.1 3		1799.69	(15/2)$^+$				
		1306.9 1	100	991.00	(13/2)$^+$	E1			δ: −0.01 2 from $\gamma(\theta)$ in (^{14}N,3nγ). Mult.: γ-rays linear polarization in (^{7}Li,4nγ).
2370.5		444.9 3		1924.8	13/2$^-$				
2411.88	(17/2)$^-$	113.97 7	100 3	2297.91	(15/2)$^-$	M1+E2	+0.05 2	0.294	
		612.3 5	15 3	1799.69	(15/2)$^+$				
2463.5	(15/2$^-$)	397.5 3		2065.1	(13/2$^-$)				
		537.1 3		1924.8	13/2$^-$				
2543.08	(19/2)$^-$	131.20 5	100	2411.88	(17/2)$^-$	(M1+E2)	+0.08 2	0.200	
		171.7 3		2370.5					
2664.5	(17/2$^-$)	201.4 3		2463.5	(15/2$^-$)				
		252.3 3		2411.88	(17/2)$^-$				
		293.4 3		2370.5					
		366.3 3		2297.91	(15/2)$^-$				
2732.9	21/2$^-$	190.6 3	100	2543.08	(19/2)$^-$				
2733.68	$^-$	190.6 2	100	2543.08	(19/2)$^-$	(M1+E2)	+0.08 7	0.072 1	
2748.09	(21/2)$^-$	205.01 6	100 2	2543.08	(19/2)$^-$	(M1+E2)	+0.09 2	0.060	
		336.2 4	9 4	2411.88	(17/2)$^-$				
2790.2		990.5	100	1799.69	(15/2)$^+$				
2891.91	(19/2)$^+$	838.0 4	100 16	2053.54	(17/2)$^+$				
		1091.9 2	33 16	1799.69	(15/2)$^+$				

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Adopted Levels, Gammas (continued)

γ(^{107}Ag) (continued)

E_i(level)	J^π_i	E_γ †	I_γ ‡	E_f	J^π_f	Mult. †	δ	α @
2923.5	(19/2$^-$)	258.6 5	100	2664.5	(17/2$^-$)			
3004		339.9 5	100	2664.5	(17/2$^-$)			
3028.58		280.5 5	28 5	2748.09	(21/2)$^-$			
		485.5 2	100 3	2543.08	(19/2)$^-$			
3034.4	23/2$^-$	300.7 2	100	2733.68	$^-$	(M1+E2)	+0.12 7	0.022
3048.3		300.2 7	100	2748.09	(21/2)$^-$			
3056.25	(23/2)$^-$	308.15 8	100 1	2748.09	(21/2)$^-$	(M1+E2)	+0.12 2	0.020
		514 1	5 2	2543.08	(19/2)$^-$			
3148.35	(21/2)$^+$	120 1	6 2	3028.58				
		1094.9 1	100 3	2053.54	(17/2)$^+$	E2		
3238.5		190.2 1	100	3048.3				
3294.5	(21/2$^-$)	290.8 3		3004				
		371.8 5	100	2923.5	(19/2$^-$)			
3297.84	(21/2$^-$)	1244.3 2	100	2053.54	(17/2)$^+$			
3460.51	(23/2)$^+$	162.8 7	5.6 13	3297.84	(21/2$^-$)			
		312.21 7	100 7	3148.35	(21/2)$^+$	(M1+E2)	+0.17 4	
		568.2 2	10 3	2891.91	(19/2)$^+$			
3466.57	(25/2)$^-$	410.3 2	100 3	3056.25	(23/2)$^-$	(M1+E2)	+0.13 3	
		718.5 5	21 6	2748.09	(21/2)$^-$			
3520.0	25/2$^-$	485.6	100	3034.4	23/2$^-$			
3675.5	(23/2$^-$)	380.3 5	100	3294.5	(21/2$^-$)			
3683.02	(25/2)$^+$	222.5 1	100	3460.51	(23/2)$^+$	(M1+E2)	+0.12 4	0.048
		535.0 5	9 3	3148.35	(21/2)$^+$			
3723.7	27/2$^-$	485.2 2	100	3238.5				
3927.9	(27/2$^-$)	461.3 4	100 12	3466.57	(25/2)$^-$			
		871.8 6	42 4	3056.25	(23/2)$^-$			
3977.84	(27/2$^+$)	294.8 1	100	3683.02	(25/2)$^+$	(M1+E2)	+0.06 4	
		517.0 3		3460.51	(23/2)$^+$			
4023.5		556.9 3	100	3466.57	(25/2)$^-$			
4031.1		288.9 5	100	3742.2				
4046.4		526.4 3	100	3520.0	25/2$^-$			
4102.5	(25/2$^-$)	427.2 5	100	3675.5	(23/2$^-$)			
4356.4	(29/2)$^+$	378.7 3	100 6	3977.84	(27/2$^+$)			
		673.8 5	27 7	3683.02	(25/2)$^+$			
4375.1	(29/2$^+$)	397.3 2	100	3977.84	(27/2$^+$)	(M1+E2)	+0.08 9	
4397.8	(29/2$^-$)	470.0 3	100 10	3927.9	(27/2$^-$)			
		931.1 6	56 11	3466.57	(25/2)$^-$			
4752.7	(31/2)$^+$	396.4 2	100 6	4356.4	(29/2)$^+$			
		774.6 3	19 5	3977.84	(27/2$^+$)			
4753.0		729.5	100	4023.5				
4773.1?		398 1	100	4375.1	(29/2$^+$)			
4968.2	29/2$^+$	937.1 9	73 27	4031.1				

From ENSDF

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Adopted Levels, Gammas (continued)

γ(^{107}Ag) (continued)

E_i(level)	J^π_i	E_γ†	I_γ‡	E_f	J^π_f
4968.2	29/2$^+$	990.4 3	100 9	3977.84	(27/2$^+$)
		1014.0 5	29 13	3954.2	
		1370.1 5	40 7	3598.1	
5006.7	(31/2$^-$)	608.8 3	100 16	4397.8	(29/2$^-$)
		1078.8 4	56 7	3927.9	(27/2$^-$)
5246.8	(33/2)$^+$	494.1 2	100 6	4752.7	(31/2)$^+$
		890.4 3	29 6	4356.4	(29/2)$^+$
5257.6	31/2$^+$	289.4 1	100	4968.2	29/2$^+$
5565.3	(33/2$^-$)	558.5 2	100 12	5006.7	(31/2$^-$)
		1168.0 7	76 17	4397.8	(29/2$^-$)
5575.4	33/2$^+$	317.8 1	100 6	5257.6	31/2$^+$
		606.0 5	42 13	4968.2	29/2$^+$
5748.0	(35/2)$^+$	501.0 2	100 10	5246.8	(33/2)$^+$
		995.3 2	46 11	4752.7	(31/2)$^+$
5944.9	35/2$^+$	369.5 1	100 8	5575.4	33/2$^+$
5944.9	35/2$^+$	687.6 3	25 8	5257.6	31/2$^+$
6319.3	(37/2)$^+$	571.3 2	100 11	5748.0	(35/2)$^+$
		1072.7 4	60 17	5246.8	(33/2)$^+$
6376.8	37/2$^+$	431.8 1	100 8	5944.9	35/2$^+$
		802.7 6	25 9	5575.4	33/2$^+$
6887.8	39/2$^+$	511.1 2	100 18	6376.8	37/2$^+$
		942.9 3	22 10	5944.9	35/2$^+$
6912.4	(39/2)$^+$	593.1 2	100 18	6319.3	(37/2)$^+$
		1164.4 4	58 16	5748.0	(35/2)$^+$
7442.1	41/2$^+$	554.2 2	100 13	6887.8	39/2$^+$
		1065.2 3	100 21	6376.8	37/2$^+$
8046.6	43/2$^+$	604.4 2	100 21	7442.1	41/2$^+$
		1159.2 4	27 14	6887.8	39/2$^+$
8718.1	45/2$^+$	671.3 3	100 21	8046.6	43/2$^+$
		1276.5 5	51 20	7442.1	41/2$^+$

† From ^{107}Cd ε decay, Coul. ex., ^{104}Ru(^{6}Li,3nγ), (^{7}Li,4nγ), ^{97}Zr(^{14}N,3nγ) and (HI,xnγ).

‡ Relative photon branching from each level. Data are averages from ^{107}Cd ε decay, Coul. ex., ^{104}Ru(^{6}Li,3nγ), (^{7}Li,4nγ) and ^{96}Zr(^{14}N,3nγ).

γ(θ) gives D+Q. Δ′ π=no required by Adopted Levels.

@ 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.

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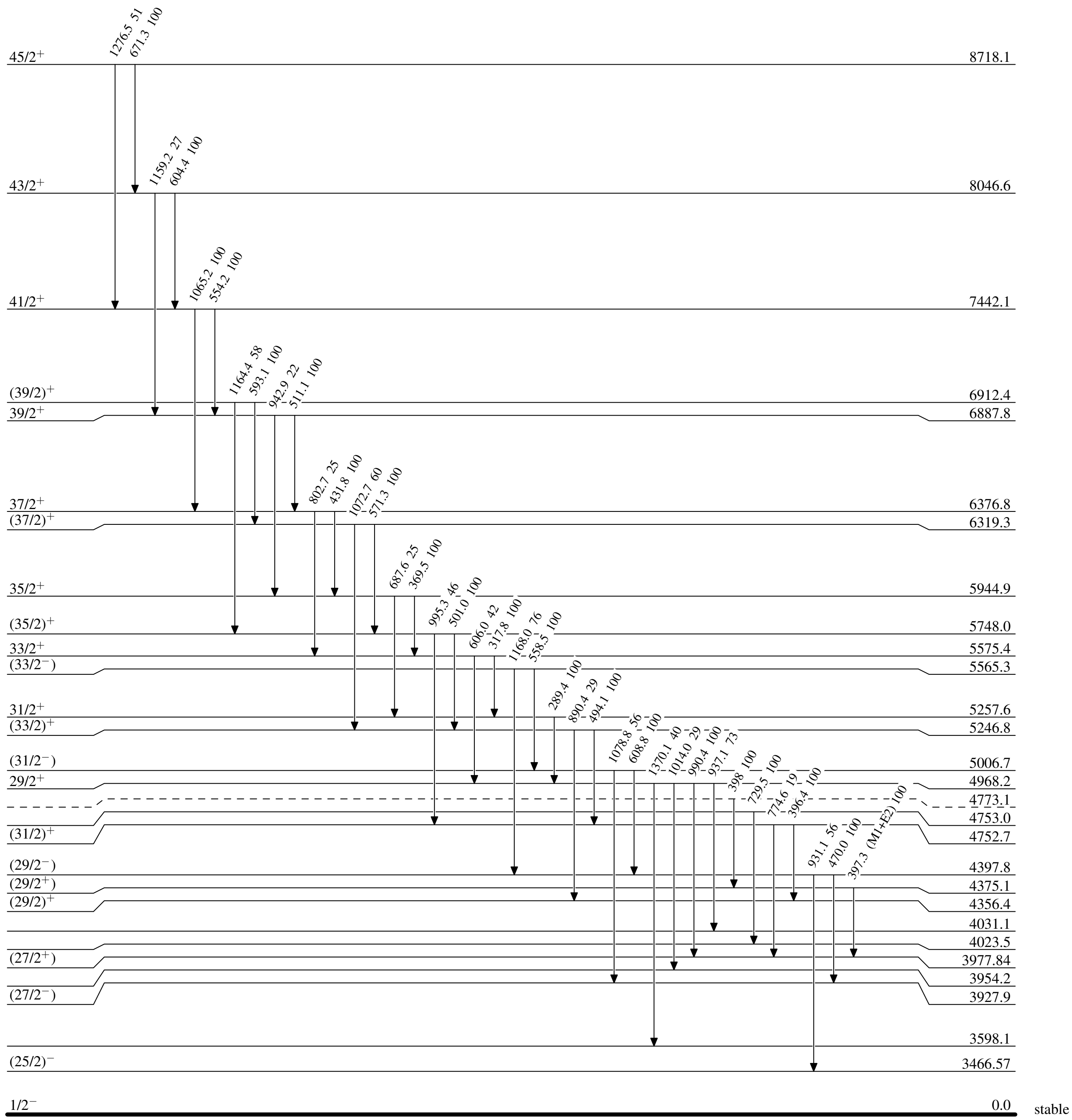
Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level



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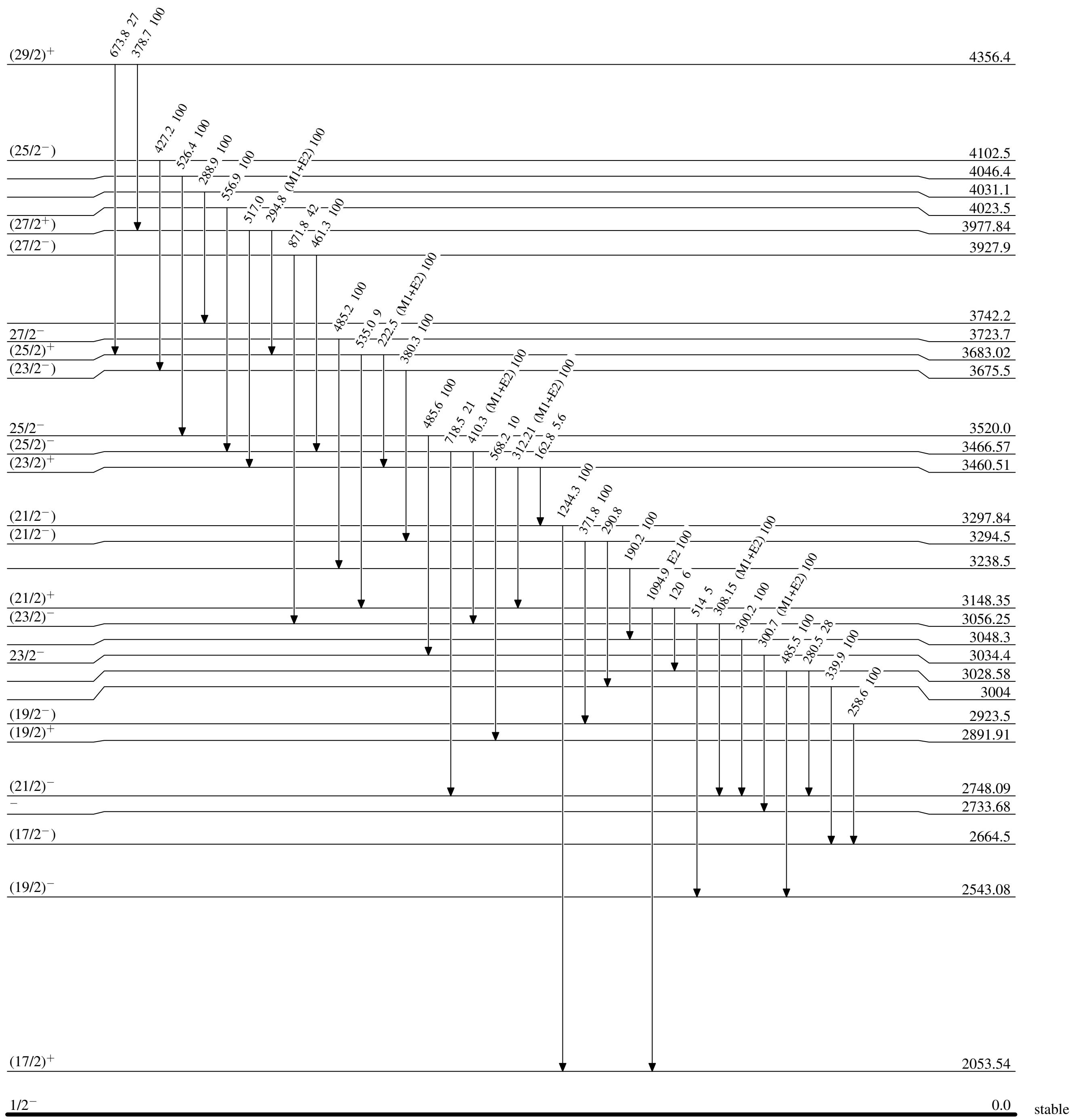
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



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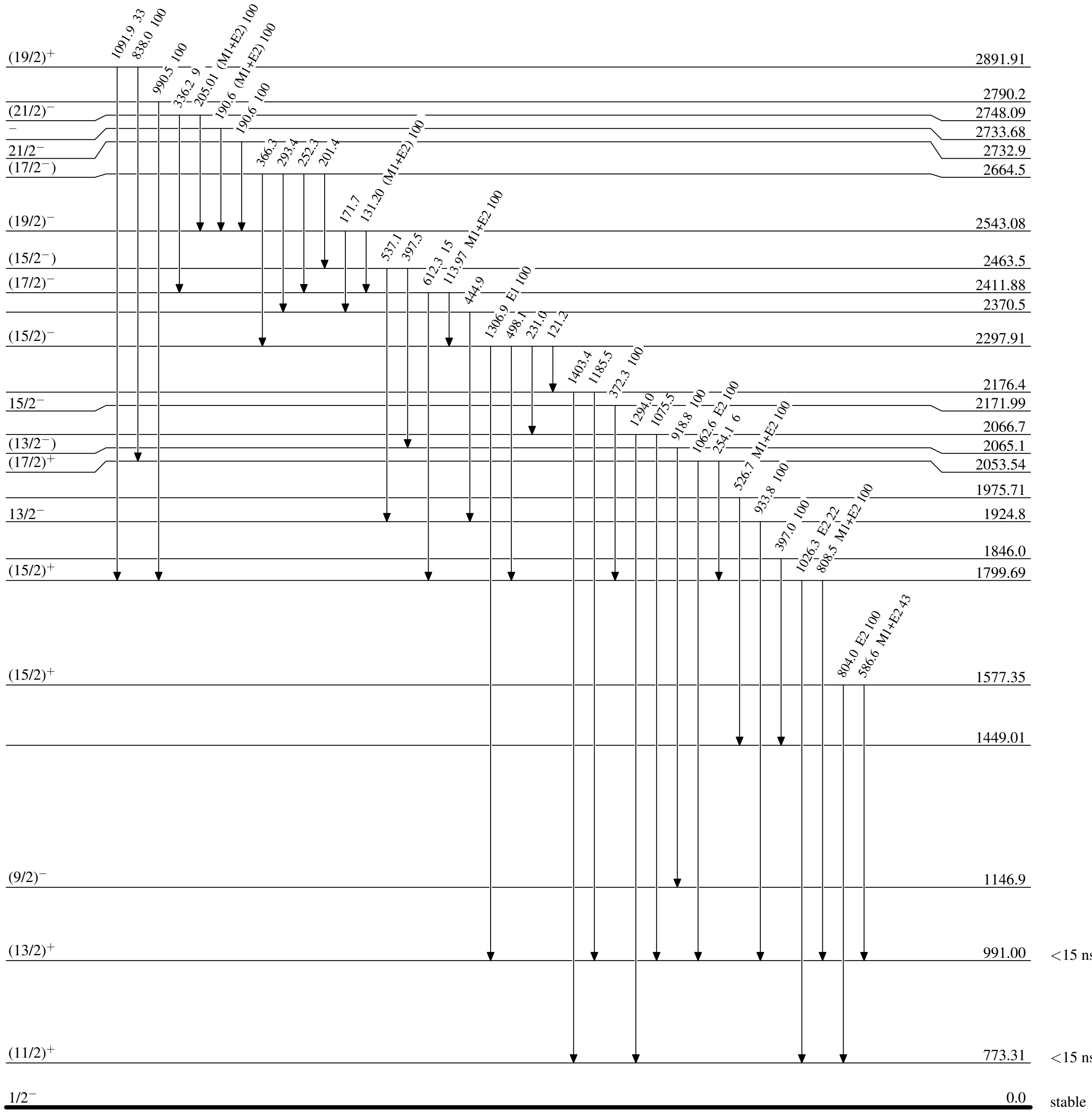
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



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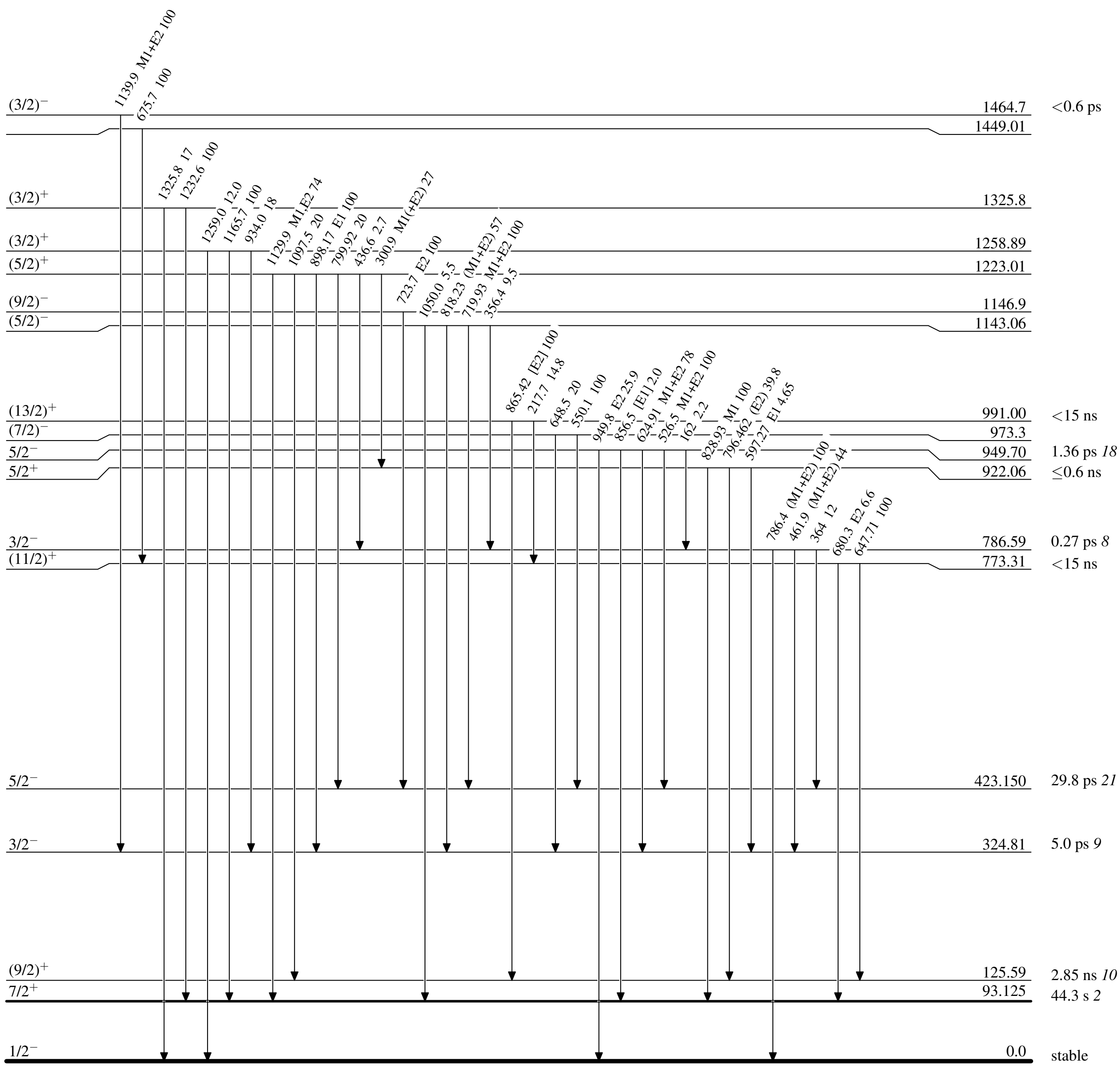
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



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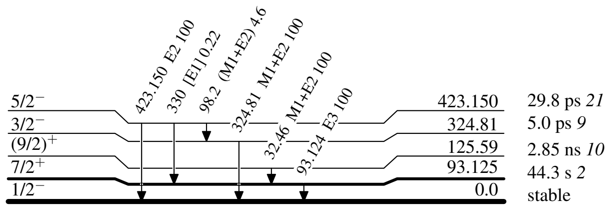
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



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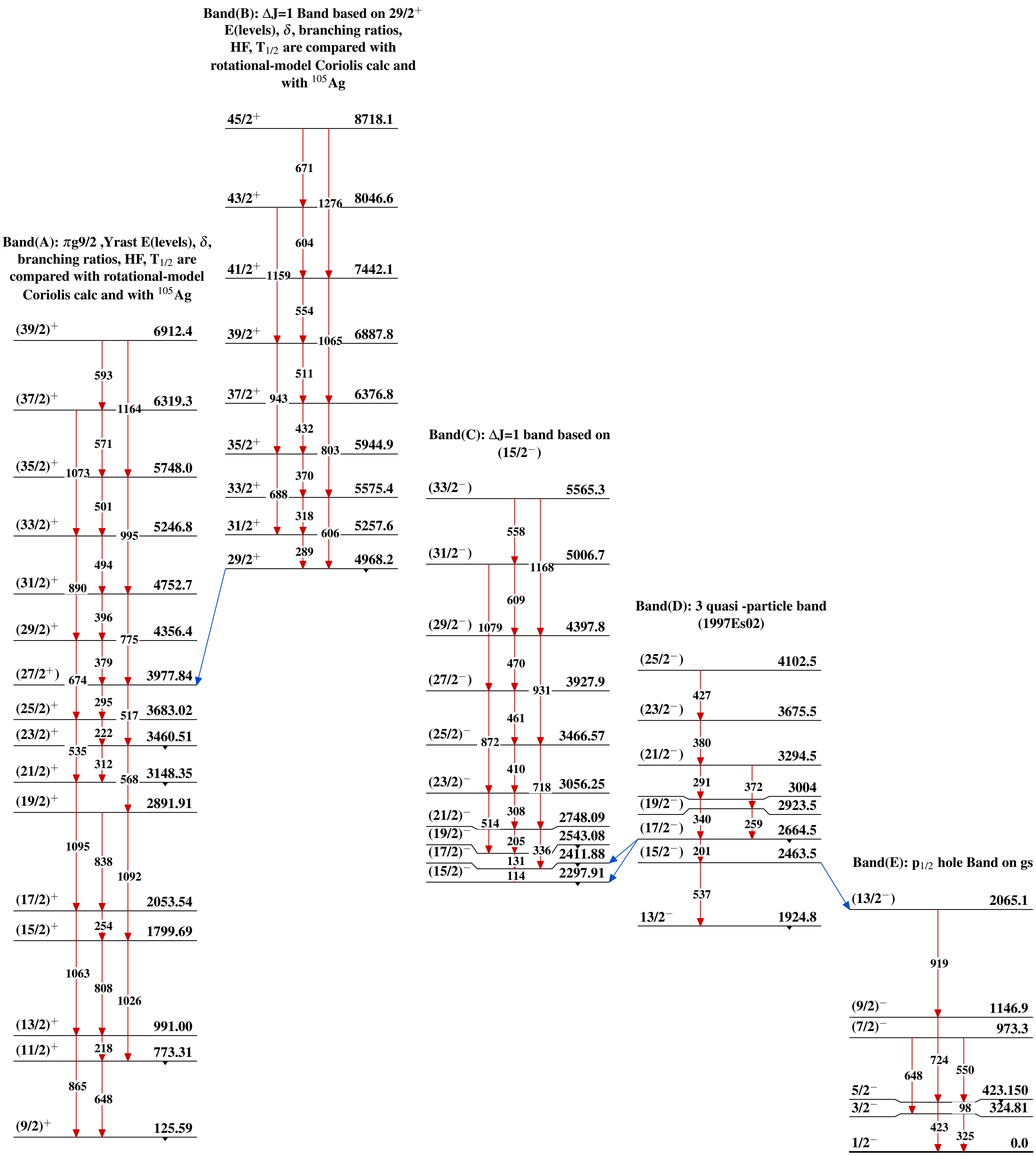
Adopted Levels, Gammas



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