Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

Q(β^-)=−5133 *9*; S(n)=10333.6 *20*; S(p)=8135 *3*; Q(α)=−2282.5 *18* 2012Wa38
Note: Current evaluation has used the following Q record −5137 9 *10339* 8 *8140* 7 −2287 7 2003Au03.
1991De27 have compared properties of the even Cd.

^{108}Cd Levels

Cross Reference (XREF) Flags

A	^{108}Ag β^- decay (2.382 min)	H	^{100}Mo(^{13}C,5nγ)	O	^{108}Cd(α,α')
B	^{108}In ε decay (39.6 min)	I	^{106}Pd(^{3}He,n)	P	Coulomb excitation
C	^{108}In ε decay (58.0 min)	J	^{107}Ag(p,p),(p,n) IAR	Q	^{108}Cd(γ,γ')
D	^{108}In ε decay (58.0 min+39.6 min)	K	^{107}Ag(^{3}He,d)	R	^{109}Ag(p,2nγ)
E	^{105}Pd(α,nγ)	L	^{108}Cd(n,n$'\gamma$)	S	^{112}Sn(d,^{6}Li)
F	^{64}Ni(^{48}Ca,4nγ)	M	^{108}Cd(p,p'),(pol p,p')	T	(HI,xnγ)
G	^{96}Zr(^{16}O,4nγ)	N	^{108}Cd(p,p$'\gamma$)		

E(level)[†]	J$^\pi$[‡]	T$_{1/2}$[@]	XREF	Comments
0.0[g]	0$^+$	stable	ABCDE GHI KLMNOPQRST	
632.988[g] *15*	2$^+$	6.86 ps *7*	ABCDE GH KLMNOPQRST	Q=−0.45 *8* (1989Ra17) μ=+0.68 *18* (1989Ra17) J$^\pi$: E2 γ to 0$^+$. T$_{1/2}$: from B(E2)=0.406 *4*. Other: 7.0 ps *6* in (HI,xnγ). μ: μ, Q are from Coulomb excitation.
1508.466[g] *23*	4$^+$	0.88 ps *11*	BCDE GH KLMNOP RST	J$^\pi$: E2 γ to 2$^+$. T$_{1/2}$: from B(E2) in Coul. ex., other: <3.5 ps in (HI,xnγ).
1601.833 *15*	2$^+$	0.46 ps *7*	BCDE KLMNOPQRS	J$^\pi$: E2 γ to 0$^+$. T$_{1/2}$: from B(E2) in Coul. ex.
1720.646 *24*	0$^+$		DEF I KL N QRS	J$^\pi$: L(^{3}He,d)=1 and $\gamma(\theta)$ in (n,n$'\gamma$).
1913.420 *24*	0$^+$		B DE I KL N QRS	XREF: K(1911). J$^\pi$: E0 γ to g.s.
2145.850 *21*	3$^+$[#]		DE L N R	J$^\pi$: M1 γ to 2$^+$.
2162.738 *23*	2$^+$		B DE KL N QR	J$^\pi$: E2 γ to 0$^+$.
2202.208 *24*	3$^-$		B DE KLMNO RS	β_3=0.207 XREF: S(2228). J$^\pi$: L(^{3}He,d)=2. L(p,p')=3 for E=2228 β_3: from (p,p').
2239.35[j] *7*	4$^+$[#]		CDE L N RST	J$^\pi$: M1+E2 γ's to 4$^+$. E2 γ to 2$^+$.
2365.781 *23*	2$^+$		B kL N R	J$^\pi$: E2 γ to 0$^+$.
2374.57 *4*	(0$^+$)[#]		DE I kL N QR	
2486.31 *3*	2$^+$[#]		DE KL N R	
2500			O	
2541.36[g] *4*	6$^+$		CDE GH L ST	J$^\pi$: E2 γ to 4$^+$ and E2 γ from 6$^+$.
2555.23 *4*	3$^{(-)}$[#]		DE KL	
2565.06[l] *5*	5$^+$	0.2[&] ps *1*	CDE L T	J$^\pi$: feeding from 3816 level which is directly fed in ε decay from 7$^+$ rules out 3$^+$.
2601.58 *3*	5$^-$		CDE KL ST	
2620.02 *7*	2$^+$	83 fs *20*	B DE L Q	J$^\pi$: M1+E2 γ to 2$^+$, γ(pol) in (n,n$'\gamma$) rules out 1$^+$.
2645.62 *4*	4$^+$[#]		L	
2678.01 *4*	1$^-$	27.5 fs *10*	D kL Q	XREF: k(2675). J$^\pi$: L(^{3}He,d)=0 for 2678 and/or 2682 level. T$_{1/2}$: From ^{108}Cd(γ,γ').

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[@]	XREF	Comments
2682.65 *4*	1,2$^+$	0.22 ps *5*	B DE kL	XREF: k(2675). Jπ: log *ft*=6.2 from 2$^+$. γ to 0$^+$.
2707.06 *4*	5$^-$		C KL sT	XREF: s(2738).
2738.72 *6*	4$^+$[#]	0.37 ps *9*	DE L s	XREF: s(2738).
2740 *14*	(0$^+$,1$^+$,2$^+$)		DE K	Jπ: L(^{3}He,d)=(1).
2755.07 *11*	4$^+$,5$^+$	0.23 ps *7*		
2762.83 *5*	3$^+$[#]		DE L s	XREF: s(2738).
2790.79 *6*			G T	
2805.06 *4*	3[#]		DE L	
2807.81 *6*	6$^+$[#]		CDE L ST	Jπ: M1 γ to 5$^+$.
2810.11 *4*	4$^-$[#]		DE L	
2816.51 *9*	2$^+$		DE L S	
2820.18 *11*	2$^{(-)}$[#]		DE KL	XREF: K(2816).
2875.89 *8*	4$^+$[#]		DE L	
2905.87 *8*	5$^+$		DE	
2912.32 *6*	2,3$^+$[#]		L s	XREF: s(2912).
2936.13 *11*	0$^+$,1$^+$,2$^+$[#]		DE KL s	XREF: K(2938)s(2912). Jπ: L(^{3}He,d)=1.
2975.35[l] *5*	6$^-$	0.15[&] ns *10*	CDE T	
2976.48 *12*	4$^+$		DE	
2993.11 *7*	2$^+$		DE KL	Jπ: γ to 0$^+$ g.s, M1+E2 to 2$^+$.
2994.16[j] *10*	6$^+$		CDE T	Jπ: M1,E2 γ to 4$^+$. log *ft*=5.7 from 7$^+$.
2998.09 *9*			D	
3005.65 *10*	1[#]	13.0 fs *6*	D L Q	$T_{1/2}$: From ^{108}Cd(γ,γ′).
3028.30 *10*			D	
3031.55 *6*	2$^+$[#]		DE L	
3048.54 *12*	1$^+$	20.8 fs *14*	B D L Q	Jπ: m1g to 0$^+$. $T_{1/2}$: From ^{108}Cd(γ,γ′).
3057.56[b] *5*	7$^-$	31 ps *24*	CDE L T	
3059.53 *13*			DE	
3059.89 *11*	(4,5)$^+$		DE	
3076 *15*	0$^+$,1$^+$,2$^+$		K	Jπ: L(^{3}He,d)=1.
3077.49 *9*	(4$^+$)		DE	
3081.79 *8*	3$^+$[#]		DE L	
3092.29 *8*	(3)		DE	
3110.64[l] *10*	(8$^+$)	0.3[&] ns *1*	CDE T	Jπ: from γ(θ) and γ(pol) for the 569γ in (HI,xnγ), 1978Sa13 conclude ΔJ(3110-2541 levels)=2 (Jπ 2541=6$^+$). Another solution allowed by γ(θ), namely ΔJ=0, is ruled out by the authors on the basis of γ(pol) (pol exp)=0.60 *20*, pol=0.60 *5* for ΔJ=2 and pol=0.007 to 0.32 for ΔJ=0).
3138 *16*	(0$^-$,1$^-$)		K	Jπ: L(^{3}He,d)=(0).
3139.00 *10*			DEF	
3171.15 *15*	2,3$^+$[#]		DE KL	
3174.17 *15*				
3181.69 *10*			DE L	
3189.72 *14*	(6$^+$,7$^+$,8$^+$)		CDE T	Jπ: log *ft*=5.9 from 7$^+$.
3194.81 *12*	2$^+$[#]		DE L	
3203.6 *10*			DE	
3221.67 *9*	(3,4)$^+$		DE K	
3223.80[c] *6*	8$^-$	0.49 ns *14*	T	

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[@]	XREF		Comments
3227.88 *15*	(2+)		DE		
3248.27 *9*			DE		
3248.71 *13*	7−			T	
3259.7 *7*					
3264.92 *11*	1,2+,3[#]		L		
3267.68 *10*	[#]		L		
3284 *16*	3−,4−,5−		K		Jπ: L(^{3}He,d)=4.
3289.80 *11*					
3292.63 *10*	1[#]	16.6 fs *7*	L	Q	$T_{1/2}$: From ^{108}Cd(γ,γ′).
3294.89 *12*	2,3+[#]		L		
3298.52 *15*			DE		
3303.55 *10*				T	
3316.44 *13*	(3+)[#]		DE	L	
3321.93 *10*			DE		
3326.02 *20*	3,(2+)[#]		DE	L	
3343.99 *8*	1		DE		
3353.35 *11*			DE		
3367.51 *9*	(6+)		CDE		Jπ: γ′s to 4+ and 6+. log *ft*=6.4 from 7+.
3384.91 *9*	2+,3		DE		
3389.43 *20*	(3)			K	E(level): doublet with L=(2+4).
3400.54 *12*			DE		
3407.23 *12*			DE		
3407.92 *11*			DE		
3413.14 *16*	(6+)		DE		
3428.00 *12*			DE		
3430 *17*				K	
3433.07 *16*			DE		
3435.2 *10*			DE		
3437.00 *15*			DE		
3450.05 *8*	2+,3+		DE		
3454.12 *7*	1+	22.9 fs *21*	B DE	Q	$T_{1/2}$: From ^{108}Cd(γ,γ′).
3459.83 *12*	5,6		DE		
3460.60 *10*			DE		
3470.01 *11*	2(+)		DE		
3474.57[a] *11*	8−		DE	T	
3482.21 *11*	2		DE	KL	
3485.20[b] *6*	9−	47.1 ps *21*	DE	T	
3512.27 *15*			DE		
3525.42 *10*			DE		
3530 *18*				K	Jπ: L=2 for 3530+3560.
3535.83? *20*	(3,4)+[#]		DE	L	
3540.26? *13*		0.29 ps *8*	DE	L	
3554.87? *15*	(3+)[#]		DE	L	
3559.61? *18*	(0+,1+)[#]			L	
3560 *18*				K	Jπ: L=2 for 3530+3560.
3566.43 *20*			DE		
3571.84 *7*	2+		D		
3576.26 *12*			DE		
3605.62 *21*			DE		
3611.66 *12*			DE		
3630 *18*				K	Jπ: L=2 for 3630+3670.
3633.73 *20*			DE		
3642.12 *11*			DE		

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[@]	XREF	Comments
3643.22 *15*			DE	
3656.27 *12*			DE	
3656.48 *15*	(8+)		DE	
3667.07 *20*	1	12.9 fs *6*	DE Q	$T_{1/2}$: From ^{108}Cd(γ,γ′).
3670 *18*			K	
3674.74 *11*			DE	
3683.23[g] *8*	8+		DE H T	
3683.36 *21*			DE	
3718.48 *11*			DE	
3724.54 *6*	2+		D	
3726.7 *10*			DE	
3732.0 *10*			DE	
3737.50[d] *7*	9−	6.2 ps *7*	T	
3740.41 *15*			DE	
3750 *19*			K	
3770.4 *7*	(7+)		DE	
3779.8 *7*			DE	
3787.1 *10*			DE	
3788.9 *4*	2+		DE	
≈3800	(0+)		G	Jπ: L(^{3}He,n)=0.
3811.7 *10*			DE	
3812.0 *3*	1+,2+		B DE	Jπ: log *ft*=5.2 from 2+. γ to 0+.
3814.56 *7*	1+	14.6 fs *14*	D Q	$T_{1/2}$: From ^{108}Cd(γ,γ′).
3816.30 *7*	6+		CDE	Jπ: log *ft*=5.7 from 7+. γ to 4+.
3827.87 *5*	1+	26 fs *+6−5*	B DE K Q	$T_{1/2}$: From ^{108}Cd(γ,γ′). Jπ: M1 γ to 0+.
3861.05[j] *20*	8+		T	
3870 *19*			K	
3872.4[c] *3*	10−	5.75 ps *21*	T	
3875.78 *15*			DE	
3881.63 *15*			DE	
3890.71 *15*			DE	
3904.06 *15*			DE	
3946.11 *9*	(2+)		DE	
3968.30 *21*			DE	
3968.67 *21*			DE	
3969.03 *15*			DE	
3984.56 *12*			DE	
4008.8 *7*			DE	
4011.4 *7*			DE	
4011.89 *8*	2+,(3)		D	
4016.6 *10*			DE	
4028.73 *6*	2+		D	
4030.98 *11*			DE	
4043.83 *8*	4,5+		C	
4082.90 *21*			DE	
4083.63 *21*			DE	
4096.20 *21*			DE	
4109.26 *15*			DE	
4152.65[g] *8*	10+	35.4 ps *21*	GH T	
4160.67 *12*			D	
4179.27 *8*			C	
4188.20[b] *8*	11−	3.60 ps *14*	T	
4196.4[a] *8*	10−	5.5 ps *14*	T	
4203.60 *7*	(1+)		D	

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[@]	XREF	Comments
4209.81 *8*	2^+		D	
4224.17 *16*			DE	
4238.90 *7*	1^+		D	
4240.01 *9*			CD	
4251.39 *16*			CD	
4278.7 *6*			D	
4282.4 *10*			DE	
4293.92 *8*			D	
4315.76 *13*			D	
4323.48 *12*	$(1^+,3^+)$		D	
4334.35 *8*			D	
4345.36 *8*	1^+		D	
4351.97 *11*	1		D	
4394.75 *10*	1^+		D	
4400.64 *11*	$(3^+,2^+)$		D	
4414.01 *15*	$(1^+,3^+)$		D	
4468.56 *13*			D	
4471.04 *8*	1		D	
4481.33 *11*	$(3^+,1^+)$		D	
4512.66 *9*	6^+		CD	Jπ: log *ft*=5.30 from 7^+. γ to 5^-.
4525.39 *12*			CD	
4529.14 *11*			D	
4568.7[d] *6*	11^-	1.66 ps *21*	T	
4584.66 *8*	1^+		D	
4618.5 *10*	(10)		T	
4640.39 *11*	1^+,(2)		D	
4649.47 *10*			D	
4656.38 *11*	$(1^+,3^+)$		D	
4663.36 *13*			D	
4663.94 *15*	(2^+)		D	
4698.32 *9*			D	
4708.74[g] *11*	12^+	10.1 ps *3*	GH T	Jπ: E2 γ to 10^+.
4755.58 *11*			D	
4755.9[h] *8*	10^+		D T	
4774.89 *9*			D	
4811.52 *12*	1^+,2,3^+		D	
4811.80 *15*			D	
4826.0[c] *4*	12^-	1.11 ps *7*	T	Jπ: E2 γ to 10^-.
4849.12 *15*			D	
4858.76 *11*			D	
4864.69 *11*			D	
4870.29 *15*			D	
4914.50 *15*			D	
5125.0[a] *8*	12^-	2.1 ps *3*	T	
5179.87[b] *17*	13^-	0.69 ps *7*	T	Jπ: E2 γ to 11^-.
5502.55[g] *13*	14^+	1.52 ps *7*	GH T	Jπ: E2 γ to 12^+. $T_{1/2}$: Other:0.91 ps *9* (2005Da16).
5574.2[d] *7*	13^-		T	
5589.2[e] *15*	11^-		G T	
5591.9[h] *6*	12^+		T	
5639.6[e] *5*	12^-		G T	
5760.6[e] *6*	13^-		G T	
5837.6[i] *9*	(12)		T	
5982.3[c] *9*	14^-		T	

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[@]	XREF	Comments
6076.4[e] 7	14⁻	<2 ps	G T	
6124.3[h] 6	14⁺		R T	
6251.5[a] 8	14⁻		T	
6404.1[b] 11	15⁻		T	
6458.87[g] 24	16⁺	0.40 ps 5	GH T	Jπ: E2 γ to 14⁺. $T_{1/2}$: From 2005Da16.
6488.0[i] 9	(14)		T	
6597.8[e] 8	15⁻	0.48 ps +3–4	G T	$T_{1/2}$: from 2000Ke01 (DSA method), other: >2 ps (1994Th01).
6891.0[h] 8	16⁺		T	
7212.6[c] 14	(16⁻)		T	
7213.5[f] 9	(15⁻)		G T	
7274.9[e] 9	16⁻	0.19 ps +4–6	G T	$T_{1/2}$: from 2000Ke01 (DSA method).
7383.4[i] 13	(16)		T	
7385.9[a] 8	16⁻		T	
7528.6[f] 7	16⁻		G T	
7564.2[g] 11	18⁺	0.229 ps 28	GH T	$T_{1/2}$: From 2005Da16.
7725.3[b] 15	17⁻		T	
7740.4[e] 8	17⁻	0.28 ps 4	G T	$T_{1/2}$: from 2000Ke01 (DSA method).
7796.3 5	17⁻		G	
7861.4[f] 6	17⁻		G T	
7913.3[h] 13	(18⁺)		T	
8102.2[e] 9	18⁻	0.52 ps +3–4	G T	$T_{1/2}$: from 2000Ke01 (DSA method).
8184.7 12	(17)		T	
8283.8[a] 13	18⁻		T	
8316.6[f] 6	18⁻		G	
8354.4 7	18⁻		G	
8534.9[i] 17	(18)		G T	
8543.4 16	(18)		T	
8584.8[e] 9	19⁻	0.201 ps 14	G T	$T_{1/2}$: from 2000Ke01 (DSA method).
8639.8[f] 6	19⁻		G	
8671.0[b] 18	19⁻		T	
8824.5[g] 15	(20⁺)	0.152 ps 28	GH T	$T_{1/2}$: From 2005Da16.
8964.2 19	(19)		T	
8998.7[f] 7	(20⁻)		G	
9174.8[e] 9	(20⁻)	0.14 ps +2–3	G T	$T_{1/2}$: from 2000Ke01 (DSA method).
9325.9[a] 17	(20⁻)		T	
9419.6[f] 7	(21⁻)		G	
9757.3[b] 20	(21⁻)		T	
9879.3[e] 9	(21⁻)	0.208 ps 7	G T	$T_{1/2}$: from 2000Ke01 (DSA method).
9894.3[i] 20	(20)		T	
9896.7[f] 7	(22⁻)		G	
10293.6[g] 18	(22⁺)		G T	
10412.6[f] 8	(23⁻)		G	
10532.6[a] 19	(22⁻)		T	
10677.2[e] 9	(22⁻)		G	
10975.9[f] 8	(24⁻)		G	
11018.5[b] 23	(23⁻)		T	

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

E(level)†	Jπ‡	XREF	Comments
11906.6[a] 22	(24⁻)	T	
11914.8[g] 21	(24⁺)	G T	
12489.2[b] 25	(25⁻)	T	
14270		J	
14533		J	
14565		J	
14645		J	
14717		J	
14737		J	
14797		J	
14877		J	
14897		J	
14962		J	
15103		J	
x[k]	J≈(40)	F	Additional information 1. A weak 1638γ may deexcite this level.
1686.01+x[k] 20	J+2	F	
3421.6+x[k] 3	J+4	F	
5218.7+x[k] 4	J+6	F	
7083.4+x[k] 5	J+8	F	
9021.6+x[k] 6	J+10	F	
11037.5+x[k] 7	J+12	F	
13133.8+x[k] 8	J+14	F	
15310.4+x[k] 9	J+16	F	
17566.4+x[k] 9	J+18	F	
19902.7+x[k] 10	J+20	F	
y[l]		F	Additional information 2. Jπ: I<40.
1534.0+y[l] 10	J+2	F	
3130.0+y[l] 15	J+4	F	
4796.0+y[l] 18	J+6	F	
6540.1+y[l] 20	J+8	F	
8361.1+y[l] 23	J+10	F	
10262.1+y[l] 25	J+12	F	
12244+y[l] 3	J+14	F	
14306+y[l] 3	J+16	F	
16450+y[l] 3	J+18	F	
18676+y[l] 4	J+20	F	
20979+y[l] 4	J+22	F	

† From a least-squares fit to the adopted Eγ.
‡ For levels seen only in (HI,xnγ), J^{π} are from γ(θ), DCO, γ(pol).
# γ(θ) and γ(lin pol) in (n,n′γ).
@ From Doppler shift recoil-distance method in (HI,xnγ), otherwise noted.
& From centroid shift measurement in (HI,xnγ).
[a] Band(A): ΔJ=2 band based on 8⁻.

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Adopted Levels, Gammas (continued)

^{108}Cd Levels (continued)

[b] Band(B): ΔJ=2 band based on 9^-.
[c] Band(C): ΔJ=2 band based on 6^-.
[d] Band(D): band 4.
[e] Band(E): Magnetic-dipole (shears) band, based on (11^-). Configuration=$\pi[g^{-3}_{9/2}g_{7/2}]\nu[h_{11/2}(g_{7/2}d_{5/2})^1]$ before the $\nu h^2_{11/2}$ crossing and $\pi[g^{-3}_{9/2}g_{7/2}]\nu[h^3_{11/2}(g_{7/2}d_{5/2})^1]$ after the crossing.
[f] Band(F): Magnetic-dipole (shears) band, based on (15^-). Tentative configuration=$\pi[g^{-3}_{9/2}g_{7/2}]\nu[h_{11/2}\ (g_{7/2}d_{5/2})^3]$.
[g] Band(G): g.s. (yrast) band.
[h] Band(H): ΔJ=2 band based on 10^+.
[i] Band(I): band 9.
[j] Band(J): band 10.
[k] Band(K): SD-1 band (2001Cl06). Percent population ≈1.4. Q(intrinsic)>9.5.
[l] Band(L): SD-2 band (2002Go03). Percent population ≈0.6. Q(intrinsic)≈8.5.

Adopted Levels, Gammas (continued)

γ(^{108}Cd)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
632.988	2^+	632.97 *2*	100	0.0	0^+	E2		B(E2)(W.u.)=26.6 *3* E_γ: from β^- decay.
1508.466	4^+	875.47 *2*	100	632.988	2^+	E2		B(E2)(W.u.)=41 *6*
1601.833	2^+	968.81 *2*	100	632.988	2^+	M1+E2	−1.5 *+6−15*	B(E2)(W.u.)=17 *5*; B(M1)(W.u.)=0.008 *5*
		1601.84 *2*	92 *3*	0.0	0^+	E2		B(E2)(W.u.)=1.8 *3*
1720.646	0^+	1087.66 *2*	100	632.988	2^+	E2		
1913.420	0^+	311.58 *3*	96 *7*	1601.833	2^+	E2		I_γ: weighted av of Iγ(312γ)/Iγ(1280γ) excluding value of 1975Fl01.
		1280.45 *3*	100	632.988	2^+	E2		
		1913.3 *2*		0.0	0^+	E0		
2145.850	3^+	544.00 *3*	13.8 *6*	1601.833	2^+	M1+E2	−1.22 *12*	
		637.3 *3*	8.4 *25*	1508.466	4^+			
		1512.86 *2*	100 *3*	632.988	2^+	M1+E2	−1.84 *3*	
2162.738	2^+	1529.72 *2*	100	632.988	2^+	M1+E2	0.13 *2*	Mult.: the E1 assignment in ^{108}In ε decay seems to be a mistake.
		2162.7 *2*	6.7 *6*	0.0	0^+	E2		
2202.208	3^-	600.2 *3*	3.8 *6*	1601.833	2^+			
		1569.22 *2*	100	632.988	2^+	E1		
2239.35	4^+	637.5	18 *1*	1601.833	2^+	E2(+M3)	−0.01 *6*	
		730.8	100 *8*	1508.466	4^+	M1+E2	−0.31 *10*	δ: −0.70 *16* or −0.25 *20* in ε decay.
		1606.3	86 *7*	632.988	2^+	E2(+M3)	−0.07 *4*	δ: −0.003 *38* in ε decay.
2365.781	2^+	1732.77 *2*	100	632.988	2^+	M1+E2	−0.151 *14*	
		2365.72 *8*	18.3 *8*	0.0	0^+	E2		
2374.57	(0^+)	772.69[#] *5*	<18	1601.833	2^+			E_γ: from E(level) difference, placed by 1992Ku01 from this level, but the placement in (n,n′γ) is not consistent in energy.
		1741.56 *4*	100	632.988	2^+	(E2)		
2486.31	2^+	884.3 *2*	10.6 *24*	1601.833	2^+	E2+M1	+0.31 *8*	
		1853.30 *3*	100 *3*	632.988	2^+	E2+M1	−0.47 *14*	δ: −0.61 *3* or −6.3 *10*.
		2486.3 *2*	1.6 *4*	0.0	0^+	E2		
2541.36	6^+	1032.92 *3*	100	1508.466	4^+	E2		
2555.23	$3^{(-)}$	353.1 *2*	12 *3*	2202.208	3^-			
		392.5 *2*	<0.6	2162.738	2^+			
		409.1 *2*	3 *2*	2145.850	3^+			
		953.3 *2*	33 *4*	1601.833	2^+	E1(+M2)	−0.03 *9*	
		1922.23 *3*	100	632.988	2^+			
2565.06	5^+	325.7 *2*	46 *4*	2239.35	4^+	M1+E2	−0.08 *4*	B(M1)(W.u.)=1.0 *5*; B(E2)(W.u.)=5.E+1 *+6−5*
		419.2 *2*	0.7 *1*	2145.850	3^+			
		1056.6 *2*	100 *8*	1508.466	4^+	M1+E2	−0.21 *3*	B(M1)(W.u.)=0.06 *4*; B(E2)(W.u.)=2.0 *12* δ: −0.18 *3* in ε decay.
2601.58	5^-	1093.10 *2*	100	1508.466	4^+	E1		
2620.02	2^+	1018.2 *2*	0.9 *3*	1601.833	2^+	M1+E2	−0.13 *10*	B(M1)(W.u.)=0.0022 *9*; B(E2)(W.u.)=0.03 *+5−3*
		1987.0 *2*	100 *8*	632.988	2^+	M1+E2	+0.16 *3*	B(M1)(W.u.)=0.032 *9*; B(E2)(W.u.)=0.18 *8* δ: +0.13 *7* in (α,nγ).

$^{108}_{48}Cd_{60}$-9

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
2620.02	2^+	2620.0 *2*	1.8 *4*	0.0	0^+	E2		B(E2)(W.u.)=0.032 *11*
2645.62	4^+	1043.9 *3*	3.3 *9*	1601.833	2^+			
		1137.14 *3*	100 *3*	1508.466	4^+	D+Q	−0.48 *3*	
		2012.6 *2*	12.0 *11*	632.988	2^+	E2		
2678.01	1^-	2677.95 *4*	100	0.0	0^+	E1		B(E1)(W.u.)=0.000565 *21*
2682.65	$1,2^+$	316.9	<0.5	2365.781	2^+			
		1080.8	2.9 *3*	1601.833	2^+			
		2049.62 *4*	100 *10*	632.988	2^+			
		2682.8	2.7 *3*	0.0	0^+			
2707.06	5^-	1198.60 *3*	100	1508.466	4^+	E1+M2	−0.050 *16*	
2738.72	4^+	536.6 *2*	0.9 *2*	2202.208	3^-			
		575.9 *2*	0.9 *1*	2162.738	2^+			
		1230.3 *2*	100 *9*	1508.466	4^+	M1+E2	+0.16 *8*	B(M1)(W.u.)=0.027 *8*; B(E2)(W.u.)=0.4 *4* δ: +0.22 *11* in ε decay.
		2105.6 *2*	14 *2*	632.988	2^+			
2755.07	$4^+,5^+$	1246.6	100	1508.466	4^+			
2762.83	3^+	1160.91 *6*	100 *5*	1601.833	2^+	D+Q		δ: 3.7 *4* or 0.51 *3*.
		2129.79 *11*	35.5 *22*	632.988	2^+			
2805.06	3	1296.57 *4*	100 *3*	1508.466	4^+	D+Q		δ: −4.5 (+12−9) or −1.09 *5*.
		2172.08 *15*	15.5 *13*	632.988	2^+	D+Q		δ: −3.3(+12−8) or −0.09 *8*.
2807.81	6^+	206.1 *2*	1.23 *23*	2601.58	5^-			
		242.75 *4*	100 *5*	2565.06	5^+	M1		
		266.4 *2*	7.7 *6*	2541.36	6^+			
		1299.4 *2*	38 *4*	1508.466	4^+	E2		
2810.11	4^-	608.1 *2*	18 *2*	2202.208	3^-			
		664.4 *2*	40 *3*	2145.850	3^+	E1+M2	+0.04 *3*	
		1301.63 *3*	100	1508.466	4^+			
2816.51	2^+	450.7 *2*	19 *3*	2365.781	2^+			
		614.4 *2*	38 *4*	2202.208	3^-			
		653.7 *2*	16 *3*	2162.738	2^+			
		670.7 *2*	45 *4*	2145.850	3^+			
		2183.4 *2*	100 *9*	632.988	2^+	M1+E2	+0.22 *8*	
		2816.5 *2*	57 *5*	0.0	0^+			
2820.18	$2^{(-)}$	618.0 *2*	≤6	2202.208	3^-			
		1218.3 *2*	26 *4*	1601.833	2^+	(E1(+M2))	+0.2 *2*	
		2187.2 *2*	100 *10*	632.988	2^+	(E1+M2)	+0.25 *6*	
2875.89	4^+	510.2 *2*	≤12	2365.781	2^+			
		729.9 *2*	15 *4*	2145.850	3^+			
		1367.4 *2*	79 *8*	1508.466	4^+	M1+E2	−0.5 *3*	δ: positive sign in table IV of 2002Ga35 is a misprint.
		2242.9 *2*	100 *9*	632.988	2^+			
2905.87	5^+	364.5 *2*	4 *1*	2541.36	6^+			
		666.5 *2*	38 *3*	2239.35	4^+			

$^{108}_{48}Cd_{60}$-10

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
2905.87	5^+	760.0 *2*	55 *5*	2145.850	3^+	E2(+M3)	−0.012 *40*	δ: uncertainty=0.004 in table III of 2002Ga35 is a misprint.
		1397.4 *2*	100 *8*	1508.466	4^+	M1+E2	−0.73 *14*	
2912.32	$2,3^+$	2279.31 *5*	100	632.988	2^+			
2936.13	$0^+,1^+,2^+$	773.40 *12*	100	2162.738	2^+			
		2303.1 *2*	83 *9*	632.988	2^+			
2975.35	6^-	268.39 *20*	34 *2*	2707.06	5^-	D+Q		δ: δ=0.40 *13* or 4.2 *18*. I_γ: from 1993Th05 in (HI,xnγ). 1978Sa13 report 44 *5*.
		373.77 *5*	100 *5*	2601.58	5^-	M1+E2	+0.56 *6*	B(E2)(W.u.)=2.8 *20*; B(M1)(W.u.)=0.0015 *10*
		433.7 *4*	9.7 *14*	2541.36	6^+			I_γ: from 1993Th05 in (HI,xnγ). 1978Sa13 report 39 *3*. 1980Wi20 report 74 in ε decay, a value inconsistent with non observation by 1984Ro13.
2976.48	4^+	331.0	<10	2645.62	4^+			
		737.3	14 *6*	2239.35	4^+			
		774.6	12 *5*	2202.208	3^-			
		1374.7	44 *7*	1601.833	2^+			
		1468.1	100 *11*	1508.466	4^+	M1(+E2)	−0.17 *31*	δ: −0.36 *21* from (α,n). δ=−0.5 *2* in table III is a misprint (E-mail from A. Gade, November 30, 2002).
2993.11	2^+	1391.4	<25	1601.833	2^+			
		2360.08 *7*	100 *4*	632.988	2^+	M1+E2	−0.91 *+20−25*	
		2993.4 *5*	17.3 *25*	0.0	0^+			
2994.16	6^+	754.7 *2*	60 *14*	2239.35	4^+			
		1485.8 *2*	100	1508.466	4^+	(E2)		Mult.: M1,E2 from conversion data, ΔJ rules out M1.
2998.09		315.3 *2*	100 *8*	2682.65	$1,2^+$			
		320.1 *2*	44 *4*	2678.01	1^-			
		796.1 *2*	19 *3*	2202.208	3^-			
		835.3 *2*	24 *3*	2162.738	2^+			
3005.65	1	3005.58 *13*	100	0.0	0^+			
3028.30		662.5 *2*	4	2365.781	2^+			
		882.5 *2*	12	2145.850	3^+			
		1426.5 *2*	49 *15*	1601.833	2^+			
		2395.3 *2*	100 *17*	632.988	2^+			
3031.55	2^+	829.5 *2*	21	2202.208	3^-			
		868.9 *2*	5	2162.738	2^+			
		1118.3 *2*	9	1913.420	0^+			
		1522.9 *2*	25 *3*	1508.466	4^+			
		2398.42 *8*	100 *4*	632.988	2^+			
3048.54	1^+	1446.6 *2*	19 *3*	1601.833	2^+	M1+E2	+0.17 *3*	B(M1)(W.u.)=0.036 *7*; B(E2)(W.u.)=0.41 *16*
		2415.6 *2*	62 *5*	632.988	2^+	M1+E2	+0.320 *13*	B(M1)(W.u.)=0.023 *3*; B(E2)(W.u.)=0.34 *5*
		3048.5 *2*	100 *8*	0.0	0^+	M1		B(M1)(W.u.)=0.0206 *25*
3057.56	7^-	350.52 *5*	62.3 *17*	2707.06	5^-	E2		B(E2)(W.u.)=32 *25*
		455.87 *8*	100.0 *24*	2601.58	5^-	E2		B(E2)(W.u.)=14 *11*
		516.15 *7*	60 *10*	2541.36	6^+	E1		B(E1)(W.u.)=1.9×10^{-5} *15*

$^{108}_{48}Cd_{60}$-11

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
3059.53		494.4 *2*	34 *14*	2565.06	5^+			
		1551.0 *2*	100 *17*	1508.466	4^+			
3059.89	$(4,5)^+$	252.0 *2*	13	2807.81	6^+			
		414.2 *2*	72	2645.62	4^+			
		518.7 *2*	100	2541.36	6^+			
		914.0 *2*	53	2145.850	3^+			
3077.49	(4^+)	314.5 *2*	9	2762.83	3^+			
		322.4 *2*	<3	2755.07	$4^+,5^+$			
		431.8 *2*	5	2645.62	4^+			
		838.2 *2*	18	2239.35	4^+			
		931.7 *2*	10	2145.850	3^+			
		1569.1 *2*	100	1508.466	4^+	M1+E2	−1.0 *+4−7*	δ: −0.5 *+3−4* in (α,nγ).
3081.79	3^+	2448.76 *8*	100	632.988	2^+	D+Q		δ: 4.4 *9* or 0.51 *5*.
3092.29	(3)	606.0 *2*	10	2486.31	2^+			
		853.0 *2*	22	2239.35	4^+			
		929.6 *2*	4	2162.738	2^+			
		1490.4 *2*	100	1601.833	2^+	D+Q	−0.30 *11*	
		2459.2 *2*	26	632.988	2^+			
3110.64	(8^+)	116.4 *10*		2994.16	6^+			
		302.79 *25*	7.6 *12*	2807.81	6^+			
		569.31 *10*	100 *6*	2541.36	6^+	E2		B(E2)(W.u.)=1.0 *4*
3139.00		328.8 *2*	100	2810.11	4^-			
		583.9 *2*	<4	2555.23	$3^{(-)}$			
		936.8 *2*	40	2202.208	3^-			
		993.2 *2*	17	2145.850	3^+			
		1630.4 *2*	35	1508.466	4^+			
3171.15	$2,3^+$	805.5	5 *2*	2365.781	2^+			
		2538.2	100 *9*	632.988	2^+			
3174.17		1028.3 *2*	15	2145.850	3^+			
		1665.7 *2*	100	1508.466	4^+			
3181.69		2548.67 *9*	100	632.988	2^+			
3189.72	$(6^+,7^+,8^+)$	648.5 *2*	100	2541.36	6^+			
		950.2 *2*	<12	2239.35	4^+			
3194.81	2^+	2561.74 *12*	100 *7*	632.988	2^+			
		3195.3 *4*	44 *6*	0.0	0^+			
3203.6		2570.6	100	632.988	2^+			
3221.67	$(3,4)^+$	466.7 *2*	7	2755.07	$4^+,5^+$			
		483.1 *2*	7	2738.72	4^+			
		1075.9 *2*	14	2145.850	3^+			
		1713.4 *2*	100	1508.466	4^+			
		2588.8 *2*	29	632.988	2^+			
3223.80	8^-	166.25 *5*	100.0 *10*	3057.56	7^-	M1+E2	+0.185 *15*	B(E2)(W.u.)=7.3 *24*; B(M1)(W.u.)=0.0070 *20*

$^{108}_{48}Cd_{60}$-12

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
3223.80	8^-	248.49 *8*	35.6 *19*	2975.35	6^-			
3227.88	(2^+)	1065.0 *2*	30	2162.738	2^+			
		2595.0 *2*	100	632.988	2^+	M1+E2	+0.14 *10*	
3248.27		602.6 *2*	12	2645.62	4^+			
		1008.9 *2*	25	2239.35	4^+			
		1739.8 *1*	100	1508.466	4^+			
3248.71	7^-	191.5	30 *3*	3057.56	7^-			
		273.6	5 *1*	2975.35	6^-			
		707.9	100 *8*	2541.36	6^+	E1(+M2)	−0.01 *4*	
3259.7		1057.5	100	2202.208	3^-			
		1113.8	34	2145.850	3^+			
3264.92	$1,2^+,3$	2631.90 *11*	100	632.988	2^+			
3267.68		1547.0 *2*	40 *5*	1720.646	0^+			
		1665.84 *11*	100 *6*	1601.833	2^+			
3289.80		582.8 *2*	23	2707.06	5^-			
		734.6 *2*	100	2555.23	$3^{(-)}$			
		1087.6 *2*	81	2202.208	3^-			
		1781.2 *2*	93	1508.466	4^+			
3292.63	1	3292.5 *2*	100	0.0	0^+			
3294.89	$2,3^+$	1092.7 *2*	11	2202.208	3^-			
		1132.2 *2*	10	2162.738	2^+			
		2661.8 *2*	100	632.988	2^+	M1+E2	+4.3 *+9−6*	δ: or +0.002 *4*.
3298.52		323.1 *2*	100	2975.35	6^-			
		697.0 *2*	59	2601.58	5^-			
3316.44	(3^+)	1714.5 *2*	13 *6*	1601.833	2^+	M1+E2	+3.7 *+29−12*	
		2683.5 *2*	100 *14*	632.988	2^+	M1+E2	+8.7 *+41−21*	δ: or −0.10 *4*.
3321.93		327.9 *2*	3.5	2994.16	6^+			
		566.8 *2*	21	2755.07	$4^+,5^+$			
		780.6 *2*	76	2541.36	6^+			
		1082.5 *2*	24	2239.35	4^+			
		1813.4 *2*	100	1508.466	4^+			
3326.02	$3,(2^+)$	2693.0 *2*	100	632.988	2^+			
3343.99	1	350.9 *2*	1.3	2993.11	2^+			
		723.9 *2*	1.3	2620.02	2^+			
		978.1 *2*	4	2365.781	2^+			
		1181.2 *2*	6	2162.738	2^+			
		1430.7 *2*	4	1913.420	0^+			
		1623.4 *2*	12	1720.646	0^+			
		1742.2 *2*	100	1601.833	2^+	D+Q	+0.065 *26*	
		2710.9 *2*	<7	632.988	2^+			
3353.35		614.6 *2*	100	2738.72	4^+			
		1207.6 *2*	53	2145.850	3^+			

$^{108}_{48}Cd_{60}$-13

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ [†]	E_f	J_f^π	Mult.[‡]	δ	Comments
3353.35		1751.5 *2*	38	1601.833	2^+			
		1844.8 *2*	44	1508.466	4^+			
3367.51	(6^+)	826.2 *2*	100 *10*	2541.36	6^+			
		1858.9 *2*	55 *6*	1508.466	4^+			
3384.91	$2^+,3$	579.8 *2*	7	2805.06	3			
		898.4 *2*	10	2486.31	2^+			
		1222.2 *2*	80	2162.738	2^+			
		1239.2 *2*	47	2145.850	3^+			
		1783.0 *2*	100	1601.833	2^+			
		2752.0 *2*	99.8	632.988	2^+			
3389.43	(3)	2756.4 *2*	100	632.988	2^+	D+Q	+0.04 *5*	
3400.54		845.4 *2*	95	2555.23	$3^{(-)}$			
		1198.4 *2*	100	2202.208	3^-			
		1891.9 *2*	57	1508.466	4^+			
3407.23		1041.4 *2*	32	2365.781	2^+			
		1244.5 *2*	43	2162.738	2^+			
		1805.4 *2*	100	1601.833	2^+			
3407.92		669.2 *2*	11	2738.72	4^+			
		762.2 *2*	15	2645.62	4^+			
		1262.1 *2*	<13	2145.850	3^+			
		1899.5 *2*	100	1508.466	4^+			
3413.14	(6^+)	223.4 *2*	4	3189.72	$(6^+,7^+,8^+)$			
		871.8 *2*	100	2541.36	6^+	M1+E2	+0.25 *12*	
3428.00		452.6 *2*	29	2975.35	6^-			
		826.4 *2*	9	2601.58	5^-			
		886.7 *2*	100	2541.36	6^+			
3433.07		677.9 *2*	32	2755.07	$4^+,5^+$			
		891.8 *2*	100	2541.36	6^+			
3435.2		1233.0	100	2202.208	3^-			
3437.00		698.4 *2*	19	2738.72	4^+			
		1928.4 *2*	100	1508.466	4^+			
3450.05	$2^+,3^+$	644.9 *2*	11	2805.06	3			
		963.8 *2*	27	2486.31	2^+			
		1084.3 *2*	38	2365.781	2^+			
		1247.8 *2*	5.5	2202.208	3^-			
		1287.3 *2*	11	2162.738	2^+			
		1848.2 *2*	100	1601.833	2^+			
		2817.1 *2*	80	632.988	2^+			
3454.12	1^+	282.9 *2*	0.2	3171.15	$2,3^+$			
		461.0 *2*	0.45	2993.11	2^+			
		771.4 *2*	12	2682.65	$1,2^+$			
		1079.5 *2*	7 *5*	2374.57	(0^+)	M1		B(M1)(W.u.)=0.031 *23*

$^{108}_{48}Cd_{60}$-14

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ †	E_f	J_f^π	Mult. ‡	δ	Comments
3454.12	1^+	1291.3 *2*	7	2162.738	2^+			
		1540.7 *2*	3.3	1913.420	0^+	M1		B(M1)(W.u.)=0.0050 *7*
		1733.6 *2*	4.4	1720.646	0^+	M1		B(M1)(W.u.)=0.0047 *7*
		1852.3 *2*	30 *9*	1601.833	2^+	M1(+E2)	−0.005 *20*	
		2821.1 *2*	8	632.988	2^+	E2(+M1)	≥+11.7	B(M1)(W.u.)<1.6×10^{-5}; B(E2)(W.u.)>0.18
		3454.1 *2*	100 *12*	0.0	0^+	M1		B(M1)(W.u.)=0.0135 *24*
3459.83	5,6	484.4 *2*	17	2975.35	6^-			
		752.8 *2*	20	2740	$(0^+,1^+,2^+)$			
		858.3 *2*	100	2601.58	5^-			
3460.60		652.8 *2*	46	2807.81	6^+			
		895.4 *2*	16	2565.06	5^+			
		919.2 *2*	28	2541.36	6^+			
		1221.3 *2*	39	2239.35	4^+			
		1952.2 *2*	100	1508.466	4^+			
3470.01	$2^{(+)}$	1104.3 *2*	13	2365.781	2^+			
		1307.3 *2*	64	2162.738	2^+			
		1324.1 *2*	38	2145.850	3^+			
		1868.1 *2*	100	1601.833	2^+	M1+E2	−0.4 *3*	
3474.57	8^-	225.87 *7*	37 *4*	3248.71	7^-	D+Q	−0.14 *11*	
		416.96 *10*	100 *5*	3057.56	7^-	D+Q	−0.31 *16*	
		498.5 *3*	25 *11*	2976.48	4^+			
3482.21	2	1880.24 *14*	65 *4*	1601.833	2^+			
		2849.36 *17*	100 *6*	632.988	2^+			
3485.20	9^-	261.49 *15*	100	3223.80	8^-	D+Q	0.06 *3*	
		427.64 *5*	77 *3*	3057.56	7^-	E2		B(E2)(W.u.)=12.0 *8*
3512.27		1366.3 *2*	54.5	2145.850	3^+			
		2003.9 *2*	100	1508.466	4^+			
3525.42		770.4 *2*	19	2755.07	$4^+,5^+$			
		786.6 *2*	16	2738.72	4^+			
		984.1 *2*	100	2541.36	6^+			
		1286.1 *2*	22	2239.35	4^+			
		2016.9 *2*	<16	1508.466	4^+			
3535.83?	$(3,4)^+$	2902.8 *2*	100	632.988	2^+			
3540.26?		1938.2 *3*	18 *4*	1601.833	2^+			
		2031.82 *14*	100 *6*	1508.466	4^+			
3554.87?	(3^+)	2921.84 *15*	100	632.988	2^+			
3559.61?	$(0^+,1^+)$	2926.58 *18*	100	632.988	2^+			
3566.43		2933.4 *2*	100	632.988	2^+			
3571.84	2^+	889.1 *2*	18	2682.65	$1,2^+$			
		951.9 *2*	10	2620.02	2^+			
		1085.4 *2*	23	2486.31	2^+			

$^{108}_{48}Cd_{60}$-15

Adopted Levels, Gammas (continued)

$\gamma(^{108}Cd)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ†	E_f	J_f^π	Mult.‡	δ
3571.84	2^+	1369.6 *2*	4	2202.208	3^-		
		1409.0 *2*	12	2162.738	2^+		
		1426.0 *2*	13	2145.850	3^+		
		1658.4 *2*	11	1913.420	0^+		
		2939.0 *2*	100	632.988	2^+	M1+E2	+0.40 *7*
		3571.8 *2*	47	0.0	0^+	E2	
3576.26		930.6 *2*	36	2645.62	4^+		
		1021.0 *2*	100	2555.23	$3^{(-)}$		
		1374.1 *2*	18	2202.208	3^-		
3605.62		1403.4 *2*	100	2202.208	3^-		
3611.66		1409.5 *2*	<13	2202.208	3^-		
		1465.7 *2*	<19	2145.850	3^+		
		2103.2 *2*	100	1508.466	4^+		
3633.73		3000.7 *2*	100	632.988	2^+		
3642.12		666.7 *2*	56	2975.35	6^-		
		934.9 *2*	100	2740	$(0^+,1^+,2^+)$		
		1040.6 *2*	<52	2601.58	5^-		
		1100.9 *2*	40	2541.36	6^+		
3643.22		1403.9 *2*	87	2239.35	4^+		
		2134.7 *2*	100	1508.466	4^+		
3656.27		680.9 *2*	33	2975.35	6^-		
		949.2 *2*	100	2740	$(0^+,1^+,2^+)$		
		1054.7 *2*	17	2601.58	5^-		
3656.48	(8^+)	432.6 *2*	19	3223.80	8^-		
		1115.2 *2*	100	2541.36	6^+		
3667.07	1	3667.0 *2*	100	0.0	0^+		
3674.74		1119.5 *2*	40	2555.23	$3^{(-)}$		
		1472.4 *2*	41	2202.208	3^-		
		1528.9 *2*	100	2145.850	3^+		
		2073.0 *2*	64	1601.833	2^+		
3683.23	8^+	573.1 *10*	9.0 *6*	3110.64	(8^+)	E2	
		1141.85 *10*	100 *5*	2541.36	6^+	E2	
3683.36		1118.3 *2*	100	2565.06	5^+		
3718.48		979.8 *2*	16	2738.72	4^+		
		1072.8 *2*	<34	2645.62	4^+		
		1572.6 *2*	44	2145.850	3^+		
		2210.0 *2*	100	1508.466	4^+		
3724.54	2^+	692.7 *2*	1	3031.55	2^+		
		919.4 *2*	6	2805.06	3		
		1104.5 *2*	33	2620.02	2^+		
		1238.2 *2*	6.5	2486.31	2^+		
		1358.8 *2*	1.5	2365.781	2^+		

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ [†]	E_f	J_f^π	Mult.[‡]	δ	Comments
3724.54	2+	1522.3 *2*	2	2202.208	3−			
		1561.7 *2*	8	2162.738	2+			
		1578.7 *2*	3	2145.850	3+			
		2003.8 *2*	3	1720.646	0+			
		2123.0 *2*	4	1601.833	2+			
		2216.0 *2*	36	1508.466	4+			
		3091.7 *2*	100	632.988	2+	M1+E2	−0.28 *5*	
		3724.5 *2*	39	0.0	0+			
3726.7		2218.2	100	1508.466	4+			
3732.0		2223.5	100	1508.466	4+			
3737.50	9−	514.0 *2*	100	3223.80	8−			
		679.91 *5*	80 *13*	3057.56	7−	E2		B(E2)(W.u.)=9.1 *20*
3740.41		1001.6 *2*	<24	2738.72	4+			
		2232.0 *2*	100	1508.466	4+			
3770.4	(7+)	795.0	51	2975.35	6−			
		1229.0	100	2541.36	6+	M1+E2	−0.17 *13*	
3779.8		1072.6	<40	2740	(0+,1+,2+)			
		2271.4	100	1508.466	4+			
3787.1		2278.6	100	1508.466	4+			
3788.9	2+	1026.0	14	2762.83	3+			
		1423.0	23	2365.781	2+			
		1626.1	<10	2162.738	2+			
		1643.1	15	2145.850	3+			
		2187.1	100	1601.833	2+	M1(+E2)	+0.06 *8*	
		3155.9	90	632.988	2+	M1+E2	−0.33 *11*	
3811.7		2303.2	100	1508.466	4+			
3812.0	1+,2+	2211.1 *5*	12.7 *18*	1601.833	2+			
		3178.4 *4*	39 *6*	632.988	2+			
		3811.8 *5*	100 *7*	0.0	0+			
3814.56	1+	521.9 *2*	0.2	3292.63	1			
		782.8 *2*	0.3	3031.55	2+			
		816.5 *2*	0.2	2998.09				
		1131.8 *2*	0.5	2682.65	1,2+			
		1194.6 *2*	0.7	2620.02	2+			
		1651.7 *2*	1.6	2162.738	2+			
		1901.1 *2*	4.4	1913.420	0+	M1		B(M1)(W.u.)=0.0064 *7*
		2093.9 *2*	2.8	1720.646	0+	M1		B(M1)(W.u.)=0.0031 *3*
		3181.8 *2*	40	632.988	2+	M1+E2	+0.107 *17*	B(M1)(W.u.)=0.0123 *12*; B(E2)(W.u.)=0.012 *4*
		3814.6 *2*	100	0.0	0+	M1		B(M1)(W.u.)=0.0180 *18*
3816.30	6+	448.7 *2*	57 *6*	3367.51	(6+)			
		839.8 *2*	12	2976.48	4+			
		910.5 *2*	19	2905.87	5+			

$^{108}_{48}Cd_{60}$-17

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
3816.30	6^+	940.4 *2*	17	2875.89	4^+			
		1008.5 *2*	78 *8*	2807.81	6^+			
		1077.6 *2*	16	2738.72	4^+			
		1214.7 *2*	27	2601.58	5^-			
		1251.4 *2*	60 *6*	2565.06	5^+			
		1275.1 *2*	93 *9*	2541.36	6^+			
		2307.5 *2*	100 *10*	1508.466	4^+			
3827.87	1^+	373.7 *2*	1	3454.12	1^+			
		377.9 *2*	0.3	3450.05	$2^+,3^+$			
		535.2 *2*	1	3292.63	1			
		656.8 *2*	4	3171.15	$2,3^+$			
		746.0 *2*	0.5	3081.79	3^+			
		829.8 *2*	1	2998.09				
		1007.7 *2*	1	2820.18	$2^{(-)}$			
		1145.2 *2*	2	2682.65	$1,2^+$			
		1149.8 *2*	0.4	2678.01	1^-			
		1207.8 *2*	1	2620.02	2^+			
		1341.4 *2*	4	2486.31	2^+			
		1453.2 *2*	1	2374.57	(0^+)	M1		B(M1)(W.u.)=0.00123 *+24−29*
		1461.9 *2*	4	2365.781	2^+			
		1665.1 *2*	4	2162.738	2^+			
		1914.5 *2*	18	1913.420	0^+	M1		B(M1)(W.u.)=0.0097 *+19−23*
		2107.3 *2*	1.5	1720.646	0^+	M1		B(M1)(W.u.)=0.00061 *+12−14*
		2226.2 *2*	72	1601.833	2^+	M1+E2	−0.060 *17*	B(M1)(W.u.)=0.02462 *5*; B(E2)(W.u.)=0.015 *9*
		3194.9 *2*	7	632.988	2^+			
		3827.9 *2*	100	0.0	0^+	M1		B(M1)(W.u.)=0.0068 *+13−16*
3861.05	8^+	177.6 *10*	13.8 *23*	3683.23	8^+	D		
		750.6 *10*	100 *23*	3110.64	(8^+)	D		
		866.7 *10*	92 *8*	2994.16	6^+	Q		
		1319.7 *10*	<69	2541.36	6^+			
3872.4	10^-	648.6 *3*	100	3223.80	8^-			
3875.78		1730.0 *2*	<23	2145.850	3^+			
		2367.2 *2*	100	1508.466	4^+			
3881.63		1280.0 *2*	43	2601.58	5^-			
		1340.3 *2*	100	2541.36	6^+			
3890.71		915.4 *2*	62	2975.35	6^-			
		1349.3 *2*	100	2541.36	6^+			
3904.06		1258.4 *2*	7	2645.62	4^+			
		2395.6 *2*	100	1508.466	4^+			
3946.11	(2^+)	1263.3 *2*	8.5	2682.65	$1,2^+$			
		1580.2 *2*	19	2365.781	2^+			
		1783.2 *2*	21	2162.738	2^+			

$^{108}_{48}Cd_{60}$-18

$\gamma(^{108}Cd)$ (continued)

E_i(level)	J^{π}_i	E_{γ}	I_{γ}†	E_f	J^{π}_f	Mult.‡	δ
3946.11	(2^+)	2225.4 *2*	60	1720.646	0^+		
		2344.1 *2*	26	1601.833	2^+		
		3313.7 *2*	100	632.988	2^+	M1+E2	+0.23 *16*
3968.30		2459.8 *2*	100	1508.466	4^+		
3968.67		1822.8 *2*	100	2145.850	3^+		
3969.03		1262.0 *2*	24	2740	$(0^+,1^+,2^+)$		
		1367.4 *2*	100	2601.58	5^-		
3984.56		1179.6 *2*	50	2805.06	3		
		1821.7 *2*	89	2162.738	2^+		
		3351.5 *2*	100	632.988	2^+		
4008.8		1443.8	100	2565.06	5^+		
		1467.4	<8.4	2541.36	6^+		
4011.4		1865.5	<34	2145.850	3^+		
		2503.0	100	1508.466	4^+		
4011.89	$2^+,(3)$	983.7 *2*	2	3028.30			
		1006.2 *2*	6	3005.65	1		
		1206.7 *2*	6.6	2805.06	3		
		1329.1 *2*	10	2682.65	$1,2^+$		
		1646.0 *2*	19	2365.781	2^+		
		1809.6 *2*	33	2202.208	3^-		
		2410.2 *2*	15	1601.833	2^+		
		3379.0 *2*	100	632.988	2^+	D+Q	+0.10 *5*
4016.6		542.0	100	3474.57	8^-		
4028.73	2^+	936.5 *2*	3	3092.29	(3)		
		946.9 *2*	2	3081.79	3^+		
		1035.5 *2*	7	2993.11	2^+		
		1223.5 *2*	12	2805.06	3		
		1346.0 *2*	38	2682.65	$1,2^+$		
		1408.7 *2*	94	2620.02	2^+		
		1542.5 *2*	9	2486.31	2^+		
		1654.1 *2*	7	2374.57	(0^+)		
		1662.8 *2*	4	2365.781	2^+		
		1826.5 *2*	28	2202.208	3^-		
		1866.0 *2*	99	2162.738	2^+		
		1882.8 *2*	8	2145.850	3^+		
		2308.2 *2*	40	1720.646	0^+		
		2426.9 *2*	8	1601.833	2^+		
		2520.3 *2*	28	1508.466	4^+		
		3395.8 *2*	100	632.988	2^+	M1+E2	−0.55 *16*
4030.98		1323.9 *2*	37	2740	$(0^+,1^+,2^+)$		
		1429.3 *2*	15	2601.58	5^-		
		1466.0 *2*	34	2565.06	5^+		

$^{108}_{48}Cd_{60}$-19

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ [†]	E_f	J_f^π	Mult. [‡]	Comments
4030.98		1489.6 *2*	100	2541.36	6^+		
4043.83	$4,5^+$	676.3 *2*	36.6	3367.51	(6^+)		
		1167.9 *2*	31	2875.89	4^+		
		1236.0 *2*	35	2807.81	6^+		
		1305.0 *2*	38.5	2738.72	4^+		
		1336.8 *2*	71.6	2707.06	5^-		
		1398.1 *2*	33.6	2645.62	4^+		
		1442.3 *2*	28.6	2601.58	5^-		
		1478.8 *2*	36	2565.06	5^+		
		1502.6 *2*	100	2541.36	6^+		
4082.90		2574.4 *2*	100	1508.466	4^+		
4083.63		1438.0 *2*	100	2645.62	4^+		
4096.20		2587.7 *2*	100	1508.466	4^+		
4109.26		1946.6 *2*	44	2162.738	2^+		
		2507.3 *2*	100	1601.833	2^+		
4152.65	10^+	280.3 *10*	9.3 *6*	3872.4	10^-	E1	B(E1)(W.u.)=1.11×10^{-5} *11*
		291.60 *20*	34 *3*	3861.05	8^+	E2	B(E2)(W.u.)=26 *3*
		414.97 *20*	100 *6*	3737.50	9^-	D	
		469.42 *5*	99 *4*	3683.23	8^+	E2	B(E2)(W.u.)=7.1 *6*
		667.49 *10*	78 *5*	3485.20	9^-	D	
		1043.2 *10*	1.2 *6*	3110.64	(8^+)	E2	B(E2)(W.u.)=0.0016 *8*
4160.67		1794.9 *2*	51	2365.781	2^+		
		1997.8 *2*	76	2162.738	2^+		
		3527.7 *2*	100	632.988	2^+		
4179.27		1119.6 *2*	32	3059.53			
		1184.9 *2*	44	2994.16	6^+		
		1202.8 *2*	18	2975.35	6^-		
		1371.5 *2*	28	2807.81	6^+		
		1472.2 *2*	36	2707.06	5^-		
		1533.7 *2*	40	2645.62	4^+		
		1614.2 *2*	96	2565.06	5^+		
		1637.9 *2*	100	2541.36	6^+		
		1940.0 *2*	60	2239.35	4^+		
		2670.9 *2*	99	1508.466	4^+		
4188.20	11^-	703.00 *5*	100	3485.20	9^-	E2	B(E2)(W.u.)=30.0 *12*
4196.4	10^-	721.7 *10*	100	3474.57	8^-	E2	B(E2)(W.u.)=17 *5*
4203.60	(1^+)	1525.6 *2*	4	2678.01	1^-		
		1717.3 *2*	16	2486.31	2^+		
		1829.0 *2*	3.6	2374.57	(0^+)		
		1837.8 *2*	9	2365.781	2^+		
		2040.6 *2*	6.6	2162.738	2^+		
		2290.2 *2*	16	1913.420	0^+		

$^{108}_{48}Cd_{60}$-20

$\gamma(^{108}Cd)$ (continued)

E_i(level)	J^π_i	E_γ	I_γ †	E_f	J^π_f	Mult. ‡	δ
4203.60	(1^+)	2482.9 *2*	14	1720.646	0^+		
		2601.8 *2*	100	1601.833	2^+	M1+E2	+0.11 *5*
		3570.7 *2*	43.6	632.988	2^+	M1+E2	−0.20 *7*
		4203.5 *2*	44	0.0	0^+	(M1)	
4209.81	2^+	917.2 *2*	5	3292.63	1		
		1446.7 *2*	13	2762.83	3^+		
		1723.4 *2*	26	2486.31	2^+		
		2063.9 *2*	4	2145.850	3^+		
		2608.0 *2*	100	1601.833	2^+	M1+E2	−0.21 *11*
		2701.4 *2*	<9	1508.466	4^+		
		3576.9 *2*	49	632.988	2^+	M1+E2	−3.0 *+8−15*
		4209.8 *2*	25	0.0	0^+		
4224.17		1230.0 *2*	63	2994.16	6^+		
		1682.8 *2*	100	2541.36	6^+		
4238.90	1^+	1752.5 *2*	18	2486.31	2^+		
		1864.2 *2*	23	2374.57	(0^+)		
		1873.0 *2*	27	2365.781	2^+		
		2076.0 *2*	22	2162.738	2^+		
		2325.6 *2*	14	1913.420	0^+		
		2518.3 *2*	36	1720.646	0^+		
		2637.2 *2*	46	1601.833	2^+	M1+E2	+0.39 *13*
		3605.9 *2*	49	632.988	2^+	M1+E2	−0.14 *8*
		4238.8 *2*	100	0.0	0^+	M1	
4240.01		1334.1 *2*	51	2905.87	5^+		
		1432.1 *2*	100	2807.81	6^+		
		1501.2 *2*	2.4	2738.72	4^+		
		1594.5 *2*	5	2645.62	4^+		
		1638.4 *2*	85	2601.58	5^-		
		1674.9 *2*	61	2565.06	5^+		
		1698.8 *2*	20	2541.36	6^+		
4251.39		1257.3 *2*	100 *10*	2994.16	6^+		
		1443.5 *2*	82 *8*	2807.81	6^+		
4278.7		2132.7	36	2145.850	3^+		
		2676.8	100	1601.833	2^+		
		3645.7	96	632.988	2^+		
4282.4		1741.0	100	2541.36	6^+		
4293.92		926.4 *2*	32	3367.51	(6^+)		
		1317.3 *2*	19	2976.48	4^+		
		1388.0 *2*	96	2905.87	5^+		
		1418.0 *2*	26	2875.89	4^+		
		1555.3 *2*	5	2738.72	4^+		
		1692.3 *2*	100	2601.58	5^-		

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ
4293.92		1728.9 *2*	74	2565.06	5^+		
		1752.6 *2*	<15	2541.36	6^+		
4315.76		948.2 *2*	60	3367.51	(6^+)		
		1750.8 *2*	50	2565.06	5^+		
		1774.3 *2*	100	2541.36	6^+		
4323.48	$(1^+,3^+)$	1957.7 *2*	7	2365.781	2^+		
		2160.6 *2*	23	2162.738	2^+		
		2721.7 *2*	30	1601.833	2^+		
		3690.4	100	632.988	2^+		
4334.35		1242.0 *2*	4	3092.29	(3)		
		1571.2 *2*	10	2762.83	3^+		
		1714.3 *2*	25	2620.02	2^+		
		1848.0[#] *2*	5	2486.31	2^+		
		1968.6 *2*	16	2365.781	2^+		
		2132.1 *2*	33	2202.208	3^-		
		2188.6 *2*	7	2145.850	3^+		
		3701.5 *2*	100	632.988	2^+		
4345.36	1^+	1667.2 *2*	5	2678.01	1^-		
		1859.1 *2*	14	2486.31	2^+		
		1979.4 *2*	26	2365.781	2^+		
		2182.6 *2*	25	2162.738	2^+		
		2624.7 *2*	7	1720.646	0^+		
		2743.6 *2*	36	1601.833	2^+	M1+E2	−0.40 *12*
		3712.4 *2*	100	632.988	2^+	M1+E2	−0.55 *5*
4351.97	1	2189.1 *2*	14	2162.738	2^+		
		2631.4 *2*	9	1720.646	0^+		
		2750.0 *2*	19	1601.833	2^+		
		3719.0 *2*	100	632.988	2^+	D+Q	−0.042 *35*
4394.75	1^+	2028.9 *2*	6	2365.781	2^+		
		2231.9 *2*	43	2162.738	2^+		
		2481.4 *2*	13	1913.420	0^+		
		2674.1 *2*	50	1720.646	0^+		
		3761.8	100	632.988	2^+	M1+E2	+0.31 *8*
4400.64	$(3^+,2^+)$	1661.8 *2*	17	2738.72	4^+		
		2237.8 *2*	50	2162.738	2^+		
		2892.3 *2*	33	1508.466	4^+		
		3767.6 *2*	100	632.988	2^+		
4414.01	$(1^+,3^+)$	2251.2 *2*	13	2162.738	2^+		
		3781.0 *2*	100	632.988	2^+		
4468.56		1660.8 *2*	74	2807.81	6^+		
		1903.4 *2*	100	2565.06	5^+		

$^{108}_{48}Cd_{60}$-22

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
4468.56		1927.2 *2*	54	2541.36	6^+			
4471.04	1	1788.4 *2*	14	2682.65	$1,2^+$			
		1793.0 *2*	3	2678.01	1^-			
		2096.4 *2*	4	2374.57	(0^+)			
		2105.2 *2*	12	2365.781	2^+			
		2557.5 *2*	13	1913.420	0^+			
		2750.5 *2*	15	1720.646	0^+			
		2869.3 *2*	25	1601.833	2^+	D+Q	+0.09 *7*	
		3837.9 *2*	100	632.988	2^+	D(+Q)	+0.022 *25*	
4481.33	$(3^+,1^+)$	2115.5 *2*	26	2365.781	2^+			
		2318.5 *2*	9	2162.738	2^+			
		2879.5 *2*	55	1601.833	2^+			
		3848.3 *2*	100	632.988	2^+			
4512.66	6^+	1145.2 *2*	7	3367.51	(6^+)			
		1704.8 *2*	9.5	2807.81	6^+			
		1805.5 *2*	84	2707.06	5^-			
		1911.1 *2*	34	2601.58	5^-			
		1947.5 *2*	100	2565.06	5^+			
		1971.4 *2*	26	2541.36	6^+			
4525.39		1923.5 *2*	76 *8*	2601.58	5^-			
		1960.3 *2*	100	2565.06	5^+			
		1984.3 *2*	60 *10*	2541.36	6^+			
4529.14		1623.2 *2*	26	2905.87	5^+			
		1927.5 *2*	92	2601.58	5^-			
		1964.1 *2*	18	2565.06	5^+			
		1987.8 *2*	100	2541.36	6^+			
4568.7	11^-	696.5 *10*	25 *3*	3872.4	10^-	M1,E2		B(E2)(W.u.)=6.6 *12*; B(M1)(W.u.)=0.0038 *7*
		831.0 *10*	100 *7*	3737.50	9^-	E2		B(E2)(W.u.)=23 *4*
4584.66	1^+	1292.0 *2*	3	3292.63	1			
		1363.7 *2*	16	3221.67	$(3,4)^+$			
		1906.3 *2*	11	2678.01	1^-			
		2098.2 *2*	83	2486.31	2^+			
		2210.0 *2*	22	2374.57	(0^+)			
		2671.2 *2*	17	1913.420	0^+			
		2982.8 *2*	31	1601.833	2^+	M1(+E2)	+0.09 *9*	
		3951.4 *2*	100	632.988	2^+	M1+E2	−0.73 *7*	
4618.5	(10)	1507.8 *10*	100	3110.64	(8^+)			
4640.39	$1^+,(2)$	2154.0 *2*	14	2486.31	2^+			
		2477.6 *2*	44	2162.738	2^+			
		3038.5 *2*	35	1601.833	2^+	D+Q	−4 *+3−18*	δ: if J(4640.4 level)=1.
		4007.4 *2*	100	632.988	2^+	D+Q	−0.49 *6*	δ: if J(4640.4 level)=1.
4649.47		1886.4 *2*	30	2762.83	3^+			

$^{108}_{48}Cd_{60}$-23

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.[‡]	δ	Comments
4649.47		2283.6 *2*	100	2365.781	2^+			
		2447.4 *2*	37	2202.208	3^-			
		2503.7 *2*	36	2145.850	3^+			
		4016.4 *2*	70	632.988	2^+			
4656.38	$(1^+,3^+)$	1650.7 *2*	8.5	3005.65	1			
		1973.7 *2*	12	2682.65	$1,2^+$			
		2290.6 *2*	22	2365.781	2^+			
		2493.6 *2*	9	2162.738	2^+			
		2743.2[#] *2*	10	1913.420	0^+			
		4023.3	100	632.988	2^+			
4663.36		1346.9 *2*	11	3316.44	(3^+)			
		2461.2 *2*	100	2202.208	3^-			
		2517.4 *2*	23.5	2145.850	3^+			
4663.94	(2^+)	2298.1 *2*	16	2365.781	2^+			
		4030.9 *2*	100	632.988	2^+	M1+E2	−1.0 *+4−6*	
4698.32		2078.3 *2*	28	2620.02	2^+			
		2332.4 *2*	14	2365.781	2^+			
		2535.6 *2*	100	2162.738	2^+			
		2785.1 *2*	7	1913.420	0^+			
		2977.7 *2*	76	1720.646	0^+			
		4065.0 *2*	19	632.988	2^+			
4708.74	12^+	556.08 *7*	100	4152.65	10^+	E2		B(E2)(W.u.)=34.5 *11*
4755.58		1947.9 *2*	14	2807.81	6^+			
		2190.4 *2*	100	2565.06	5^+			
		2214.2 *2*	34	2541.36	6^+			
		3247.0 *2*	17	1508.466	4^+			
4755.9	10^+	1072.6 *10*	100	3683.23	8^+	Q		
4774.89		2400.5 *2*	100	2374.57	(0^+)			
		2409.0 *2*	68	2365.781	2^+			
		2611.9 *2*	37	2162.738	2^+			
		3173.1 *2*	40	1601.833	2^+			
		4141.8 *2*	13	632.988	2^+			
4811.52	$1^+,2,3^+$	2445.7 *2*	100	2365.781	2^+			
		2648.7 *2*	33	2162.738	2^+			
		4178.5 *2*	78	632.988	2^+			
4811.80		2004.0 *2*	100	2807.81	6^+			
		2246.7 *2*	93	2565.06	5^+			
4826.0	12^-	953.64 *25*	100	3872.4	10^-	E2		B(E2)(W.u.)=21.2 *14*
4849.12		2041.3 *2*	89	2807.81	6^+			
		2247.5 *2*	100	2601.58	5^-			
4858.76		1827.2 *2*	14	3031.55	2^+			

$^{108}_{48}Cd_{60}$-24

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ †	E_f	J_f^π	Mult.‡	Comments
4858.76		2492.9 *2*	11	2365.781	2^+		
		3256.9 *2*	65	1601.833	2^+		
		4225.7 *2*	100	632.988	2^+		
4864.69		2059.6 *2*	23	2805.06	3		
		2182.1 *2*	100	2682.65	$1,2^+$		
		2498.8 *2*	31	2365.781	2^+		
		4231.6 *2*	64	632.988	2^+		
4870.29		2504.5 *2*	17	2365.781	2^+		
		2707.5 *2*	100	2162.738	2^+		
4914.50		2312.9 *2*	33	2601.58	5^-		
		2349.4 *2*	100	2565.06	5^+		
5125.0	12^-	928.5 *10*	100	4196.4	10^-	E2	B(E2)(W.u.)=12.8 *19*
5179.87	13^-	991.66 *15*	100	4188.20	11^-	E2	B(E2)(W.u.)=28 *3*
5502.55	14^+	793.80 *7*	100	4708.74	12^+	E2	B(E2)(W.u.)=38.7 *18*
5574.2	13^-	748.1 *10*	18 *4*	4826.0	12^-	D,Q	
		1005.8 *10*	100 *7*	4568.7	11^-	Q	
5589.2	11^-	970.7 *10*	100	4618.5	(10)	D	
5591.9	12^+	836.0 *10*	100 *13*	4755.9	10^+	Q	
		883.0 *10*	75 *6*	4708.74	12^+	D	
		1439.7 *10*	44 *6*	4152.65	10^+	Q	
5639.6	12^-	459.4 *10*		5179.87	13^-	D,Q	
		514.4 *10*		5125.0	12^-		
		1070.7 *10*	100 *10*	4568.7	11^-	D,Q	
		1451.9 *10*	50 *7*	4188.20	11^-	D,Q	
		1767.6 *10*	21 *7*	3872.4	10^-	Q	
5760.6	13^-	121.2 *10*	100 *5*	5639.6	12^-	M1	
		186.4 *10*	33 *4*	5574.2	13^-	D	
		934.4 *10*	100 *11*	4826.0	12^-	D,Q	
		1191.9 *10*	33 *11*	4568.7	11^-	Q	
5837.6	(12)	1129.0 *10*	100	4708.74	12^+	D,Q	
5982.3	14^-	1156.3 *10*	100	4826.0	12^-	Q	
6076.4	14^-	316.0 *10*	100 *7*	5760.6	13^-	M1	B(M1)(W.u.)>0.30
		1250.6 *10*	13.5 *14*	4826.0	12^-	Q	
6124.3	14^+	532.7 *10*	100 *6*	5591.9	12^+	Q	
		621.6 *10*	38 *3*	5502.55	14^+	D,Q	
		1415.5 *10*	41 *3*	4708.74	12^+	Q	
6251.5	14^-	1126.6 *10*	100 *12*	5125.0	12^-	Q	
		1425.5 *10*	59 *6*	4826.0	12^-	Q	
6404.1	15^-	1224.2 *10*	100	5179.87	13^-	Q	
6458.87	16^+	956.3 *2*	100	5502.55	14^+	E2	B(E2)(W.u.)=58 *8* E_γ: a γ with E=963.26 *25* is given in 1978Sa13?
6488.0	(14)	650.6 *10*	100 *7*	5837.6	(12)	Q	

$^{108}_{48}Cd_{60}$-25

Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ [†]	E_f	J_f^π	Mult. [‡]	Comments
6488.0	(14)	985.3 *10*	37 *4*	5502.55	14^+	D	
6597.8	15^-	521.9 *10*	100	6076.4	14^-	M1	B(M1)(W.u.)=0.323 *+27−21*
6891.0	16^+	766.7 *10*	100 *7*	6124.3	14^+	Q	
		1388.5 *10*	15.8 *22*	5502.55	14^+	Q	
7212.6	(16^-)	1230.3 *10*	100	5982.3	14^-		
7213.5	(15^-)	615.4 *10*	100	6597.8	15^-	M1,E2	
7274.9	16^-	676.9 *10*	100	6597.8	15^-	M1	B(M1)(W.u.)=0.37 *+12−8*
7383.4	(16)	895.4 *10*	100	6488.0	(14)	Q	
7385.9	16^-	1134.5 *10*	100 *11*	6251.5	14^-	Q	
		1309.3 *10*	61 *11*	6076.4	14^-	Q	
		1403.6 *10*	<44	5982.3	14^-		
7528.6	16^-	314.0 *5*	100 *10*	7213.5	(15^-)	M1	
		931.0 *5*	93 *8*	6597.8	15^-	M1,E2	
7564.2	18^+	1105.3 *10*	100	6458.87	16^+	E2	B(E2)(W.u.)=49 *6*
7725.3	17^-	1321.2 *10*	100	6404.1	15^-	Q	
7740.4	17^-	212.0 *5*	61 *6*	7528.6	16^-	M1,E2	
		465.5 *3*	100 *6*	7274.9	16^-	M1	B(M1)(W.u.)=0.35 *6*
		526.9 *5*	61 *6*	7213.5	(15^-)	E2	B(E2)(W.u.)=4.5×10^2 *8*
7796.3	17^-	1337.1 *5*	100	6458.87	16^+	E1	
7861.4	17^-	333.0 *5*	100 *10*	7528.6	16^-	M1	
		1403.3 *10*	61 *6*	6458.87	16^+	E1	
7913.3	(18^+)	1022.2 *10*	100	6891.0	16^+		
8102.2	18^-	361.7 *2*	100	7740.4	17^-	M1	B(M1)(W.u.)=0.89 *+7−6*
8184.7	(17)	323.3 *10*	100	7861.4	17^-	D	
8283.8	18^-	897.9 *10*	100	7385.9	16^-	Q	
8316.6	18^-	455.4 *2*	100 *6*	7861.4	17^-	(M1)	
		520.0 *5*	41 *2*	7796.3	17^-	M1,E2	
8354.4	18^-	492.0 *5*	100 *6*	7861.4	17^-	M1,E2	
8534.9	(18)	1151.5 *10*	100	7383.4	(16)	Q	
8543.4	(18)	358.7 *10*	100	8184.7	(17)	D	
8584.8	19^-	482.3 *2*	100 *10*	8102.2	18^-	M1	B(M1)(W.u.)=0.89 *14*
		845.0 *5*	10 *1*	7740.4	17^-	E2	B(E2)(W.u.)=19 *3*
8639.8	19^-	284.4 *5*	40 *4*	8354.4	18^-	M1	
		323.4 *2*	100 *6*	8316.6	18^-	M1	
8671.0	19^-	945.7 *10*	100	7725.3	17^-	Q	
8824.5	(20^+)	1260.3 *10*	100	7564.2	18^+		
8964.2	(19)	420.8 *10*	100	8543.4	(18)		
8998.7	(20^-)	358.8 *2*	100 *8*	8639.8	19^-	M1	
		682.0 *5*	17 *4*	8316.6	18^-	E2	
9174.8	(20^-)	589.5 *5*	100 *9*	8584.8	19^-	M1	B(M1)(W.u.)=0.60 *+15−11*
		1073.9 *5*	29 *3*	8102.2	18^-	(E2)	B(E2)(W.u.)=21 *+6−21*
9325.9	(20^-)	1042.1 *10*	100	8283.8	18^-	Q	

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Adopted Levels, Gammas (continued)

γ(^{108}Cd) (continued)

E_i(level)	J_i^π	E_γ	I_γ [†]	E_f	J_f^π	Mult. [‡]	Comments
9419.6	(21$^-$)	420.8 *2*	100 *8*	8998.7	(20$^-$)	M1	
		780.4 *5*	23 *2*	8639.8	19$^-$	(E2)	
9757.3	(21$^-$)	1086.3 *10*	100	8671.0	19$^-$	Q	
9879.3	(21$^-$)	705.6 *5*	100 *7*	9174.8	(20$^-$)	M1	B(M1)(W.u.)=0.222 *22*
		1293.6 *5*	36 *4*	8584.8	19$^-$	(E2)	B(E2)(W.u.)=6.5 *9*
9894.3	(20)	1359.4 *10*	100	8534.9	(18)		
9896.7	(22$^-$)	476.6 *5*	100 *5*	9419.6	(21$^-$)	M1	
		897.8 *5*	30 *4*	8998.7	(20$^-$)	(E2)	
10293.6	(22$^+$)	1469.1 *10*	100	8824.5	(20$^+$)		
10412.6	(23$^-$)	515.6 *5*		9896.7	(22$^-$)	(M1)	
		993.6 *5*	100	9419.6	(21$^-$)	(E2)	
10532.6	(22$^-$)	1206.7 *10*	100	9325.9	(20$^-$)		
10677.2	(22$^-$)	797.9 *2*	100 *8*	9879.3	(21$^-$)	(M1)	
		1502.2 *5*	31 *5*	9174.8	(20$^-$)	(E2)	
10975.9	(24$^-$)	563.6 *5*	100 *10*	10412.6	(23$^-$)	M1	
		1079.0 *5*	43 *4*	9896.7	(22$^-$)	(E2)	
11018.5	(23$^-$)	1261.2 *10*	100	9757.3	(21$^-$)		
11906.6	(24$^-$)	1374.0 *10*	100	10532.6	(22$^-$)		
11914.8	(24$^+$)	1621.2 *10*	100	10293.6	(22$^+$)		
12489.2	(25$^-$)	1470.7 *10*	100	11018.5	(23$^-$)		
1686.01+x	J+2	1686.0 *2*	100	x	J≈(40)	Q	
3421.6+x	J+4	1735.6 *2*	100	1686.01+x	J+2	Q	
5218.7+x	J+6	1797.1 *2*	100	3421.6+x	J+4	Q	
7083.4+x	J+8	1864.6 *3*	100	5218.7+x	J+6	Q	
9021.6+x	J+10	1938.2 *3*	100	7083.4+x	J+8	Q	
11037.5+x	J+12	2015.9 *4*	100	9021.6+x	J+10	Q	
13133.8+x	J+14	2096.3 *3*	100	11037.5+x	J+12	Q	
15310.4+x	J+16	2176.6 *4*	100	13133.8+x	J+14	Q	
17566.4+x	J+18	2255.9 *3*	100	15310.4+x	J+16	Q	
19902.7+x	J+20	2336.3 *3*	100	17566.4+x	J+18	Q	
1534.0+y	J+2	1534	100	y			
3130.0+y	J+4	1596	100	1534.0+y	J+2		
4796.0+y	J+6	1666	100	3130.0+y	J+4		
6540.1+y	J+8	1744	100	4796.0+y	J+6		
8361.1+y	J+10	1821	100	6540.1+y	J+8		
10262.1+y	J+12	1901	100	8361.1+y	J+10		
12244+y	J+14	1982	100	10262.1+y	J+12		
14306+y	J+16	2062	100	12244+y	J+14		
16450+y	J+18	2144	100	14306+y	J+16		
18676+y	J+20	2226	100	16450+y	J+18		
20979+y	J+22	2303	100	18676+y	J+20		

$^{108}_{48}Cd_{60}$-27

Adopted Levels, Gammas (continued)

$\gamma(^{108}Cd)$ (continued)

† Relative photon branching from each level.

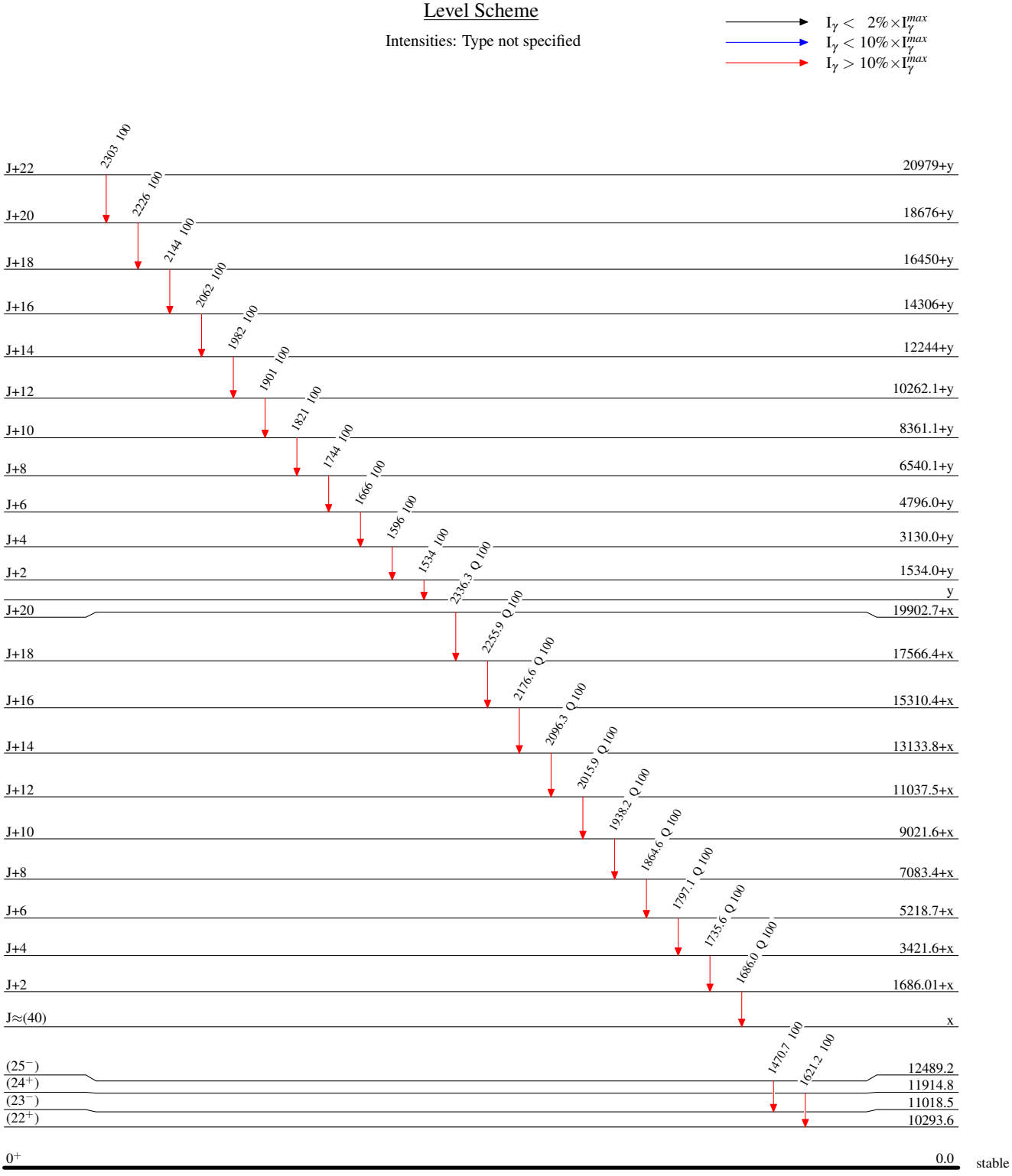
‡ From $\gamma(\theta)$, DCO and γ(pol) in (HI,xnγ) and α(K)exp data in ^{108}In ε decay.

Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

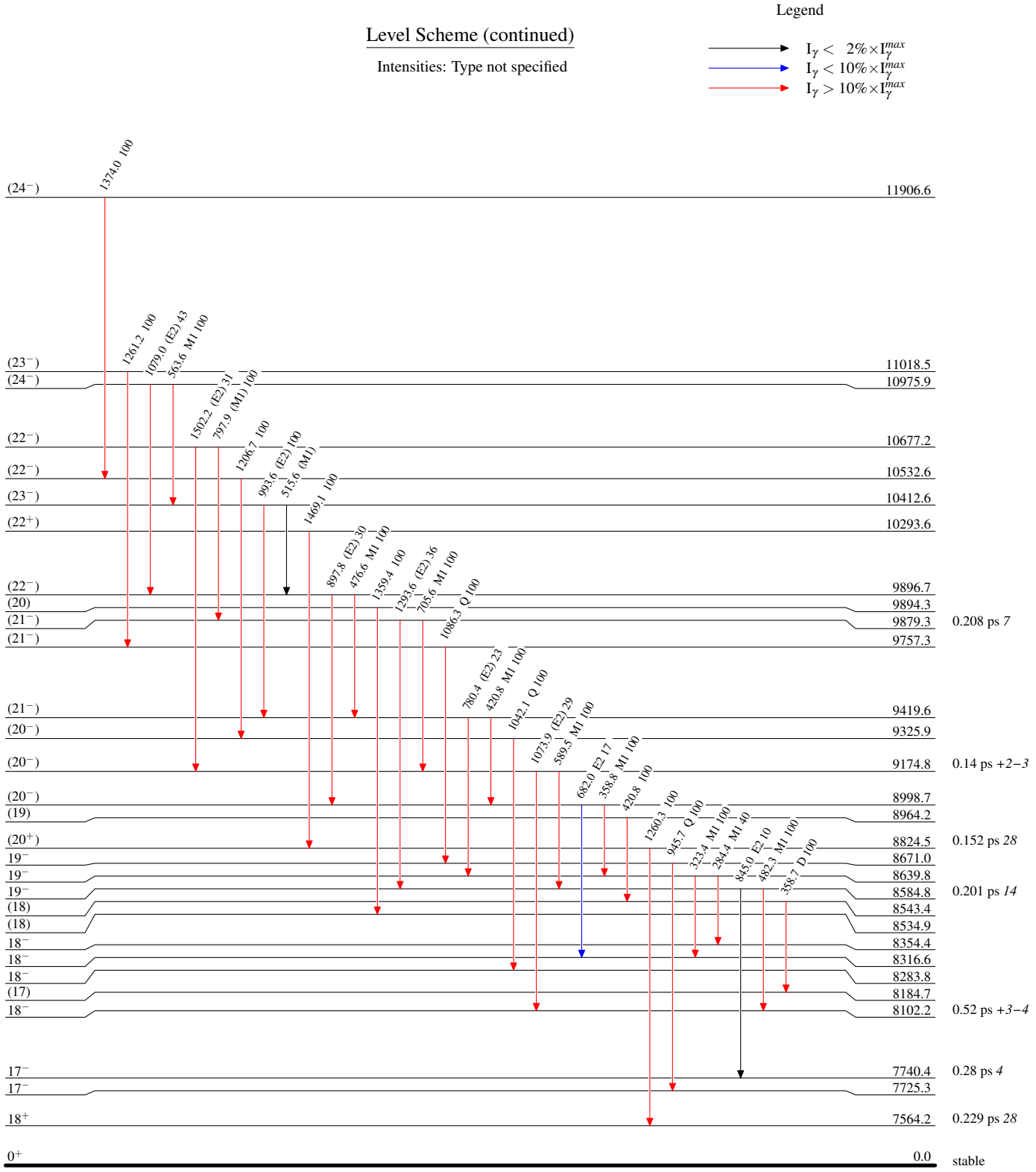


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

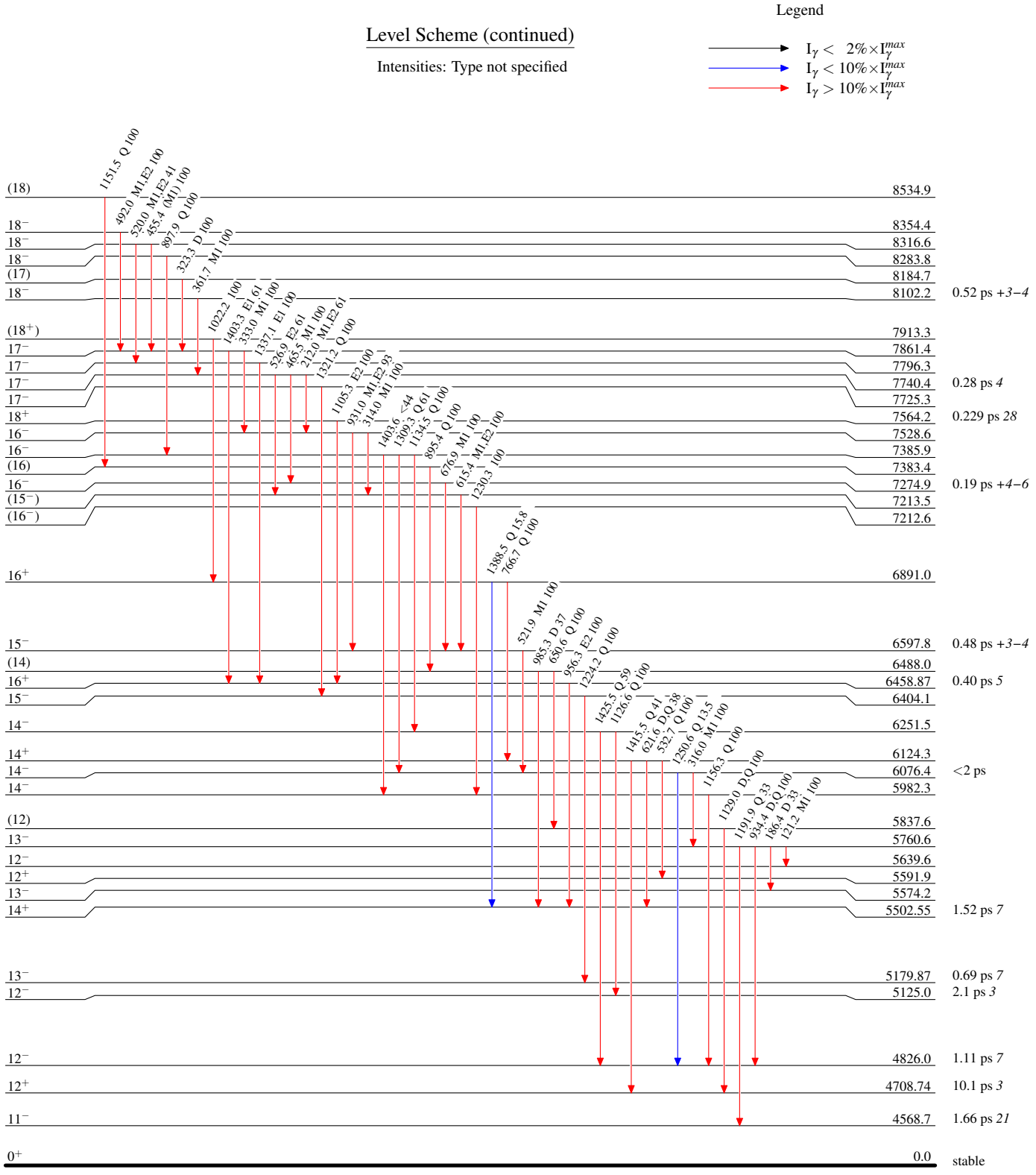


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

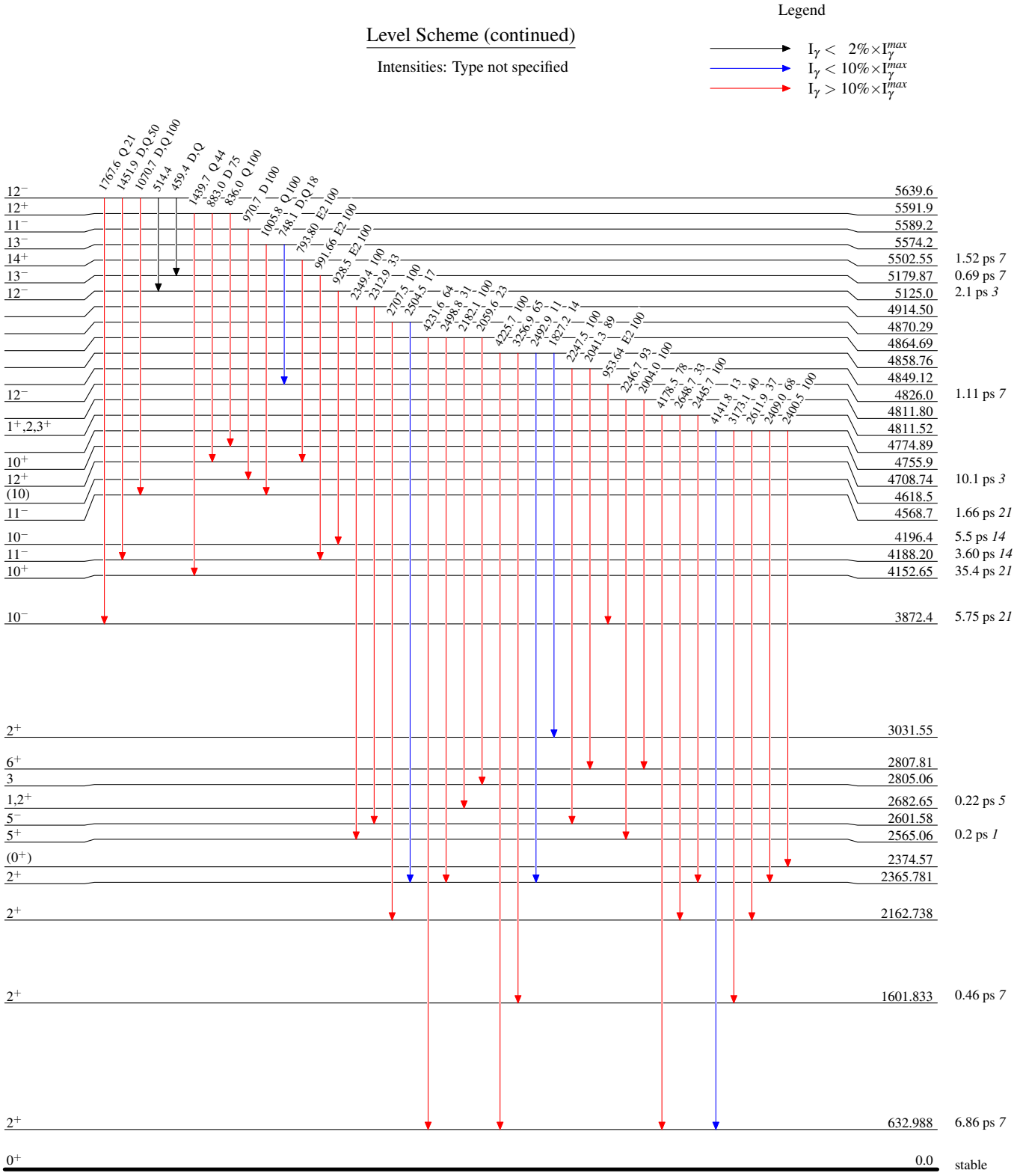


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

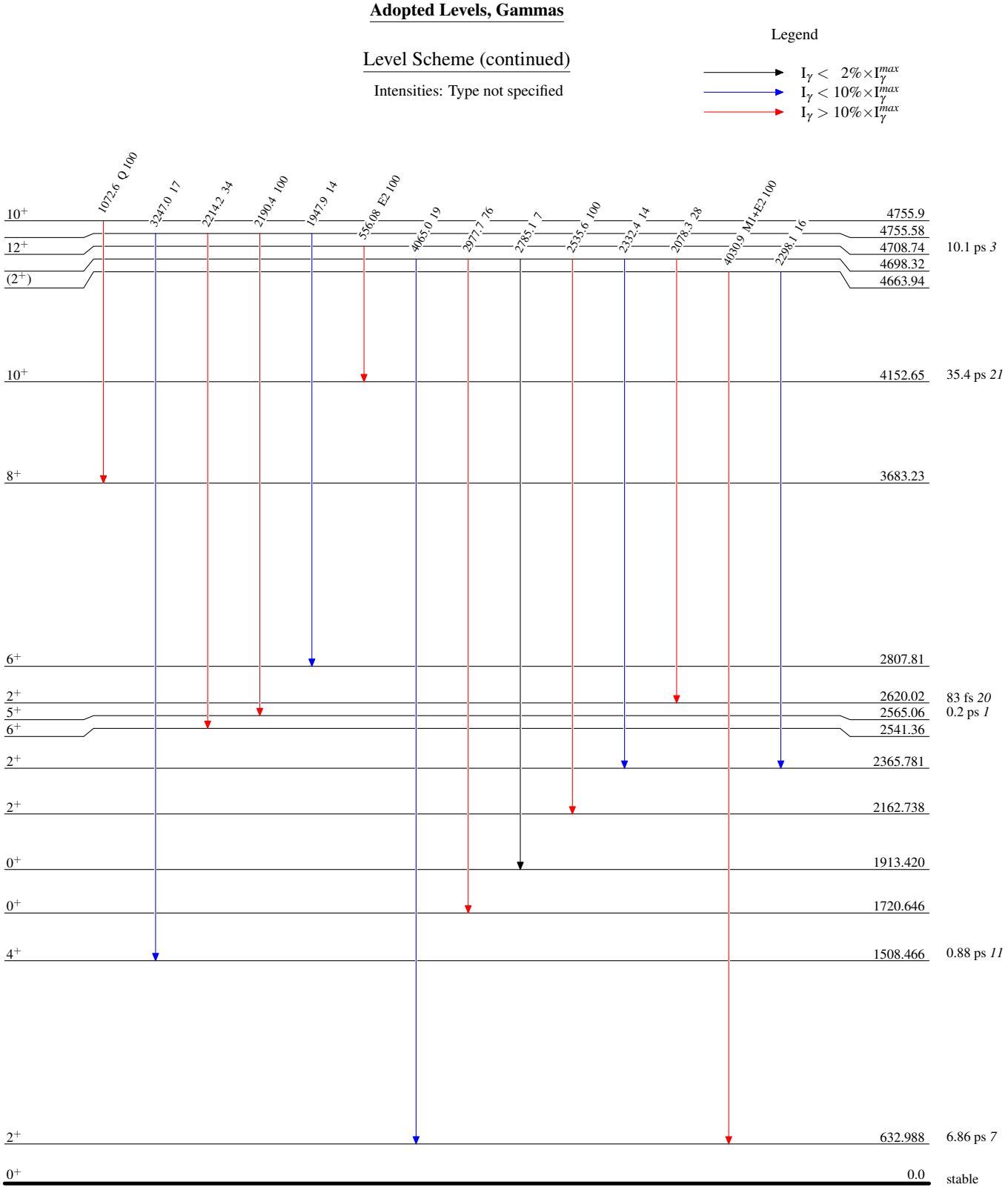


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

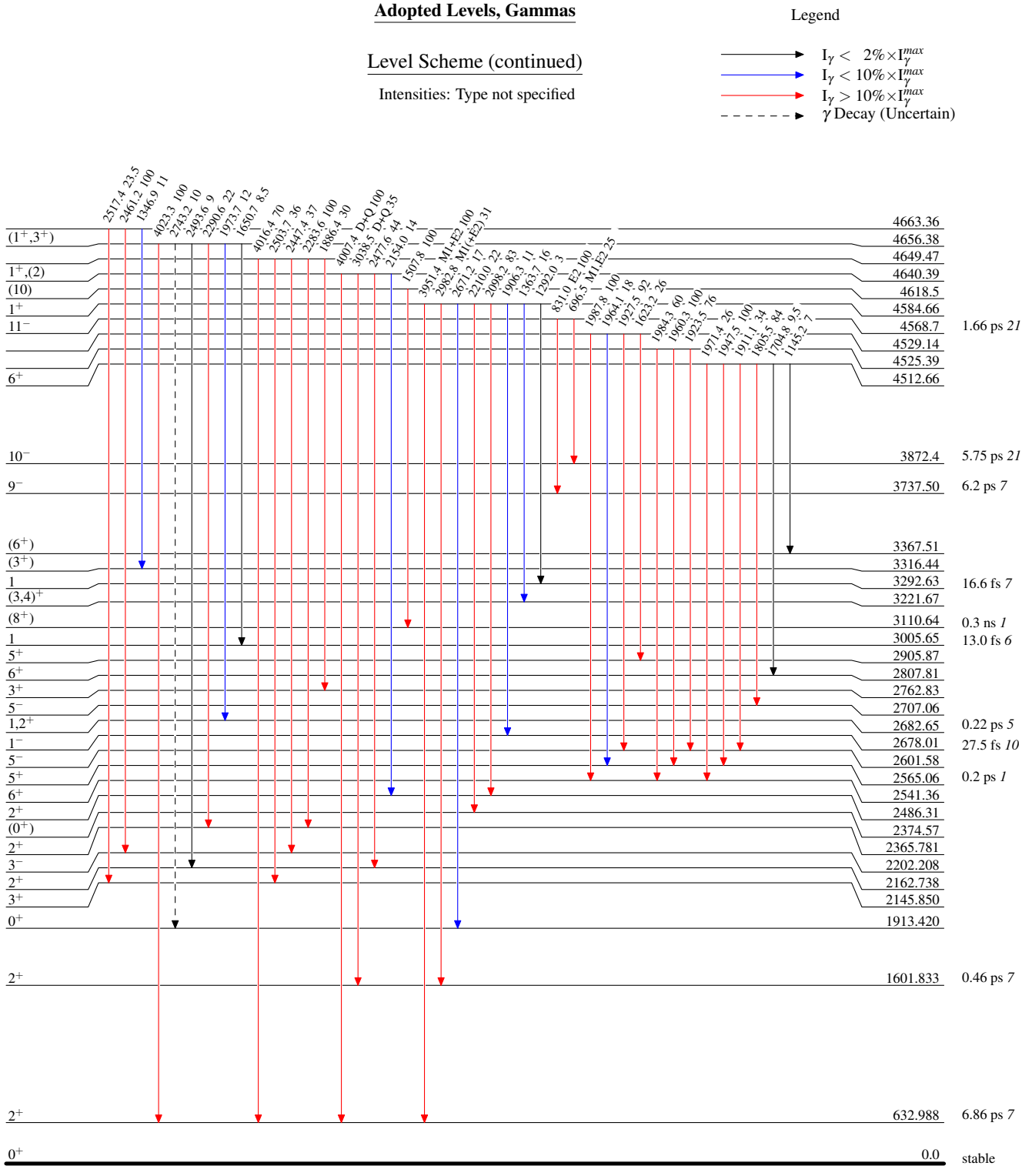


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

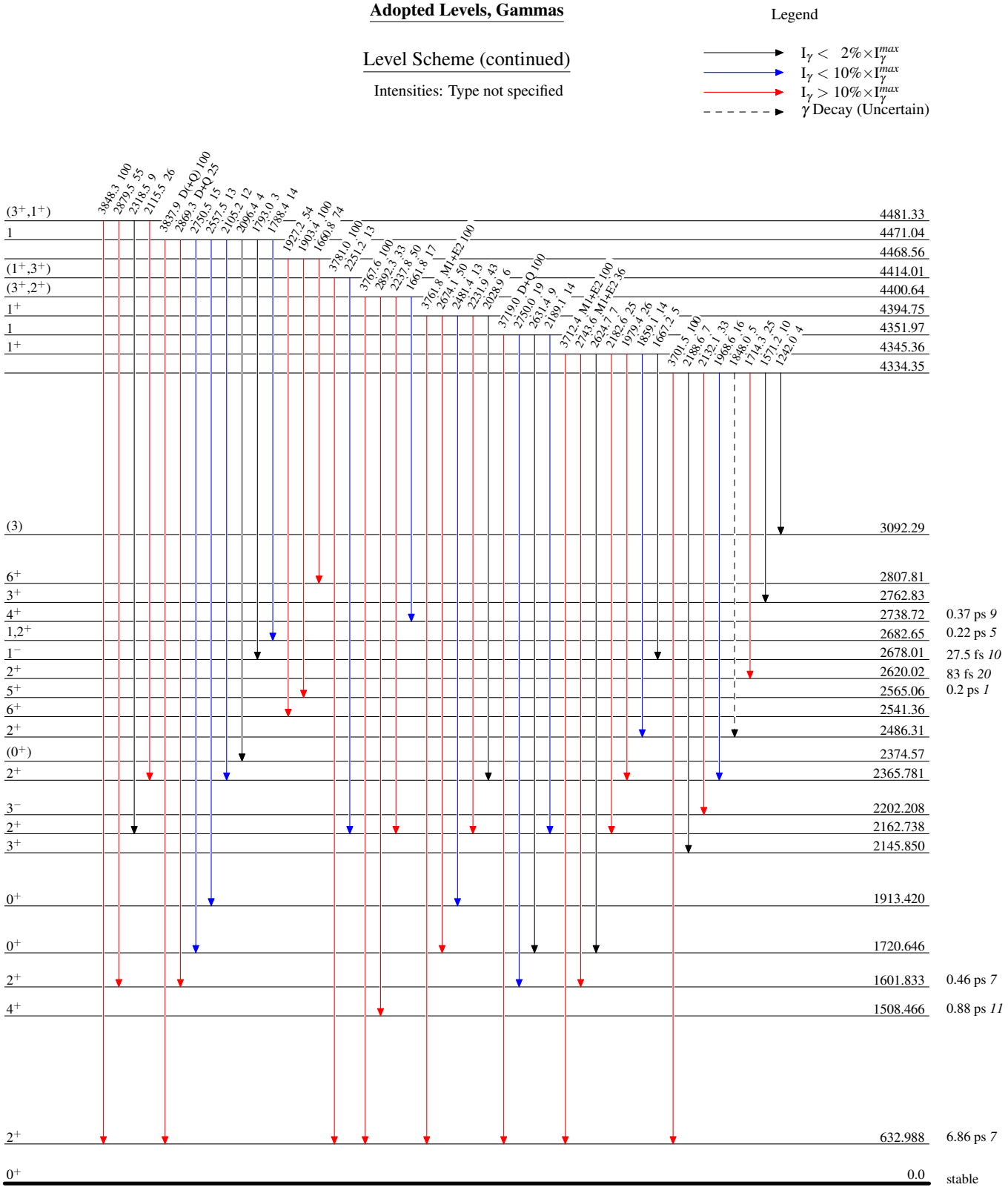


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

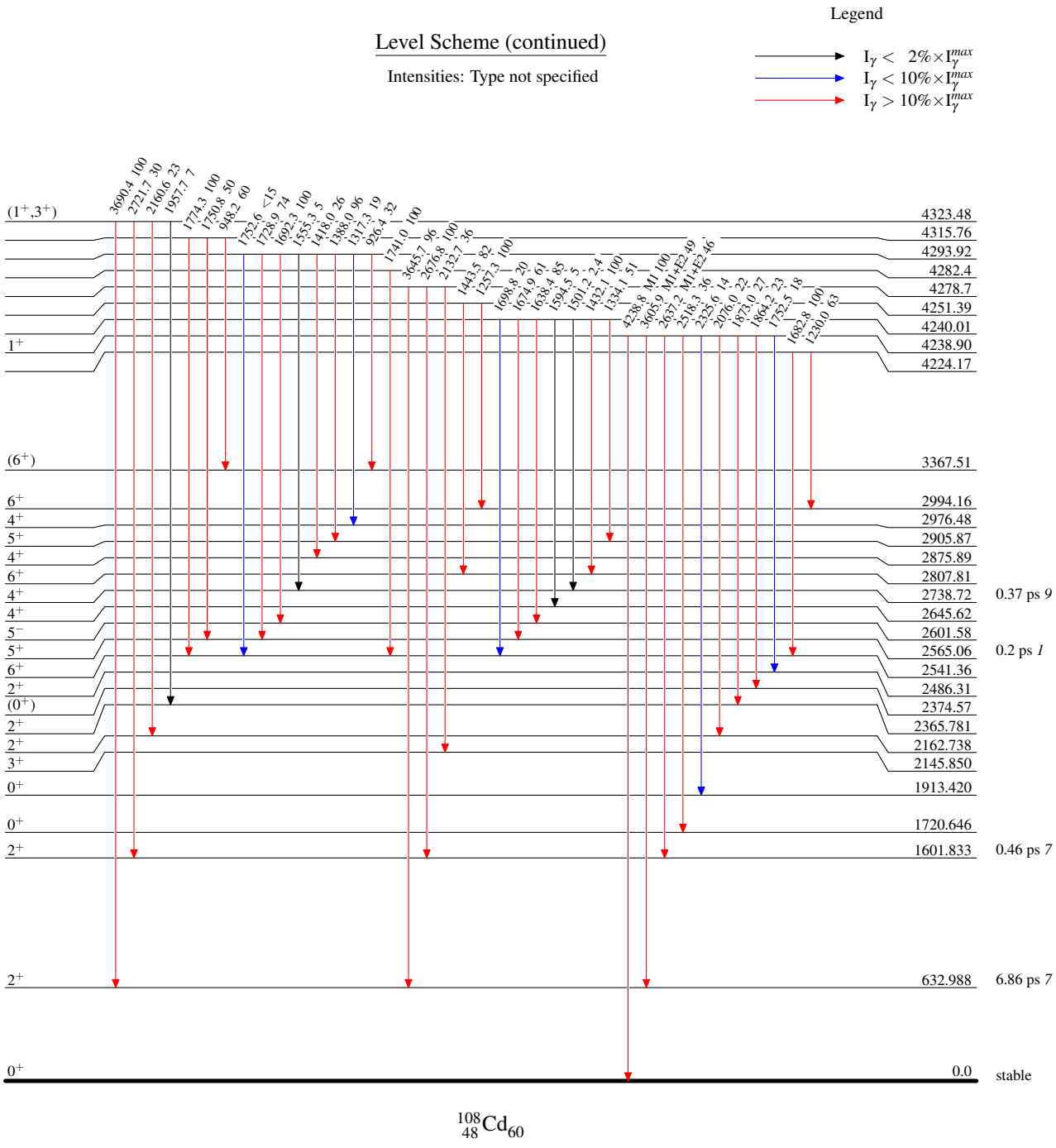


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

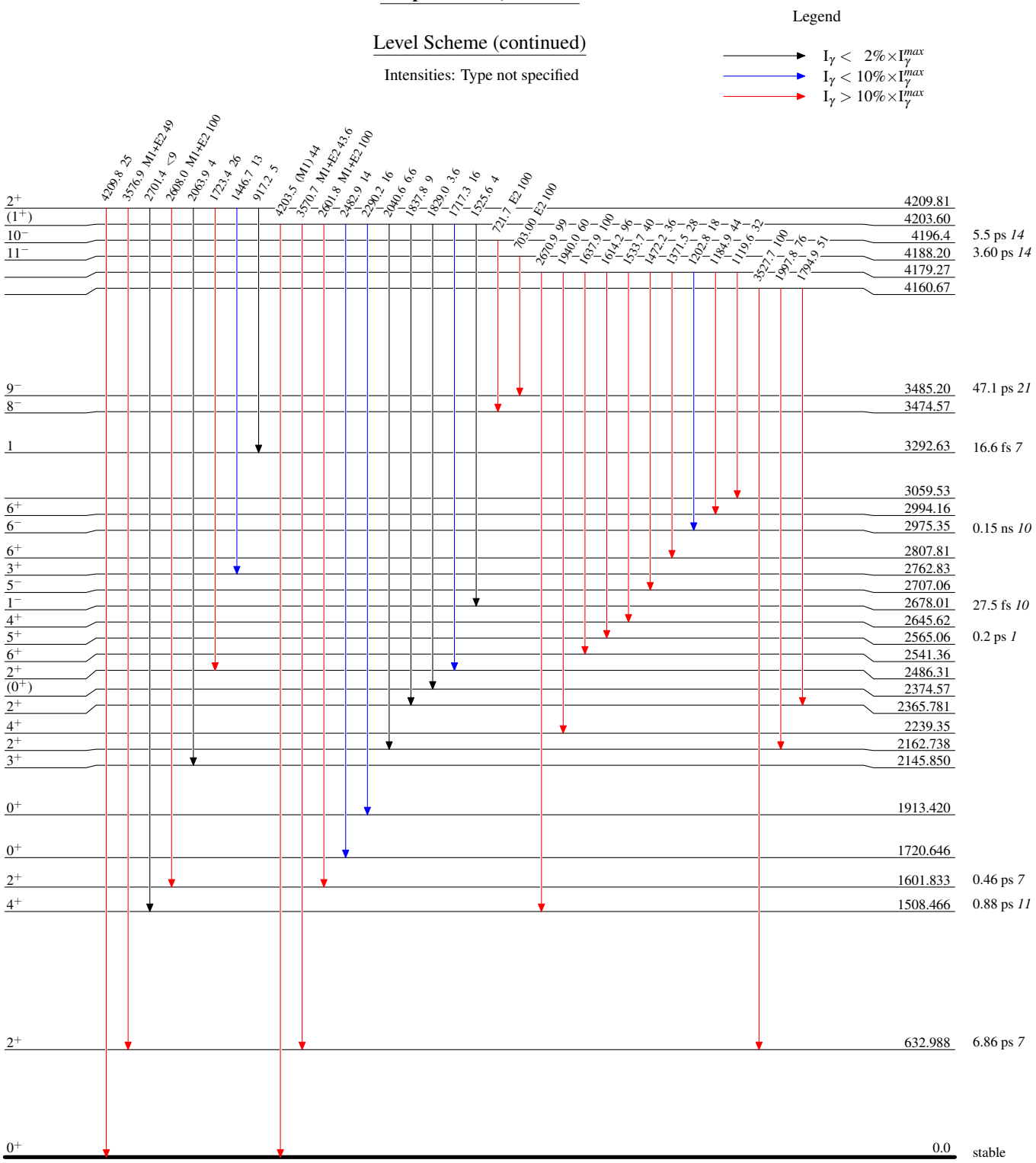
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

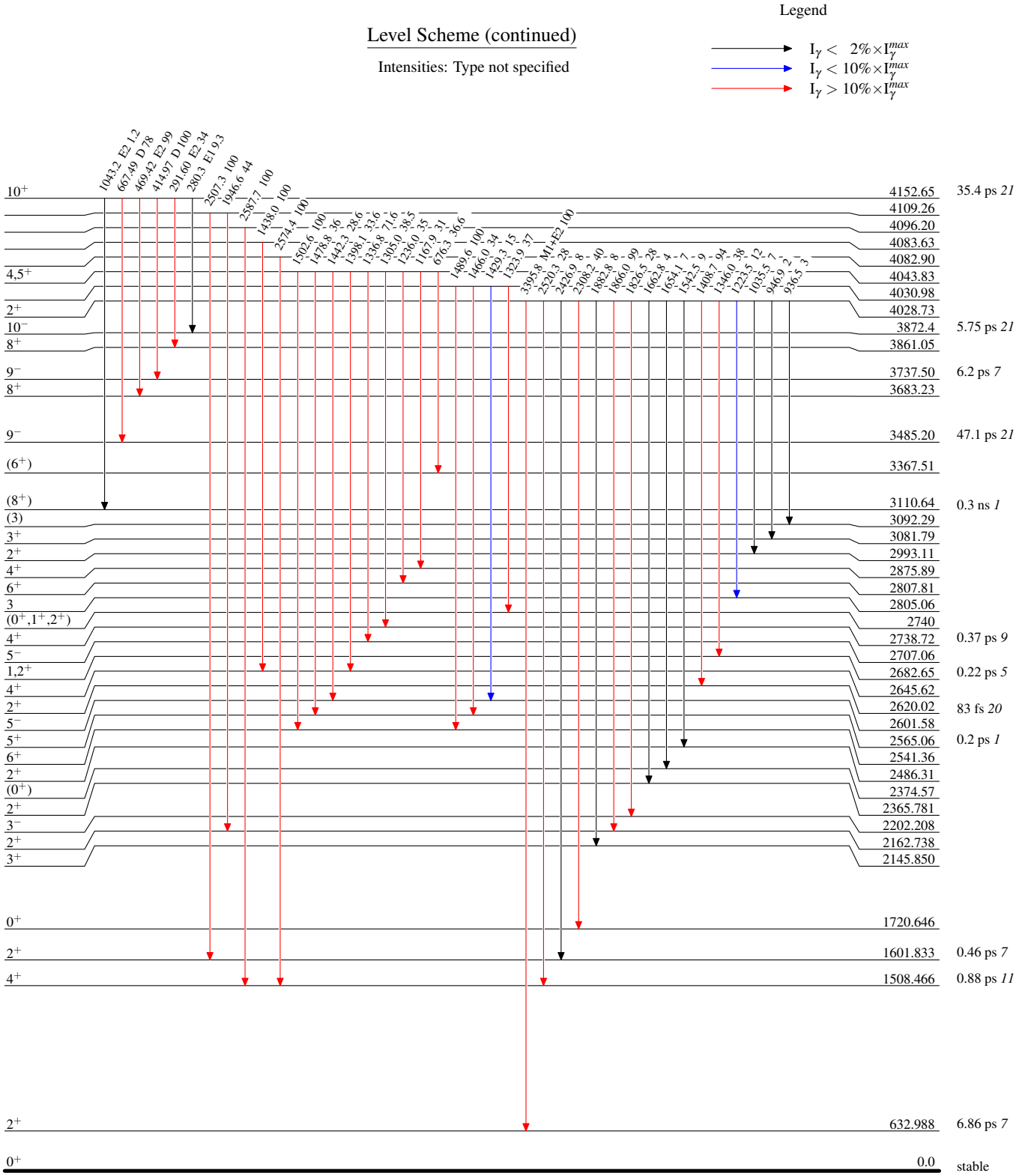


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

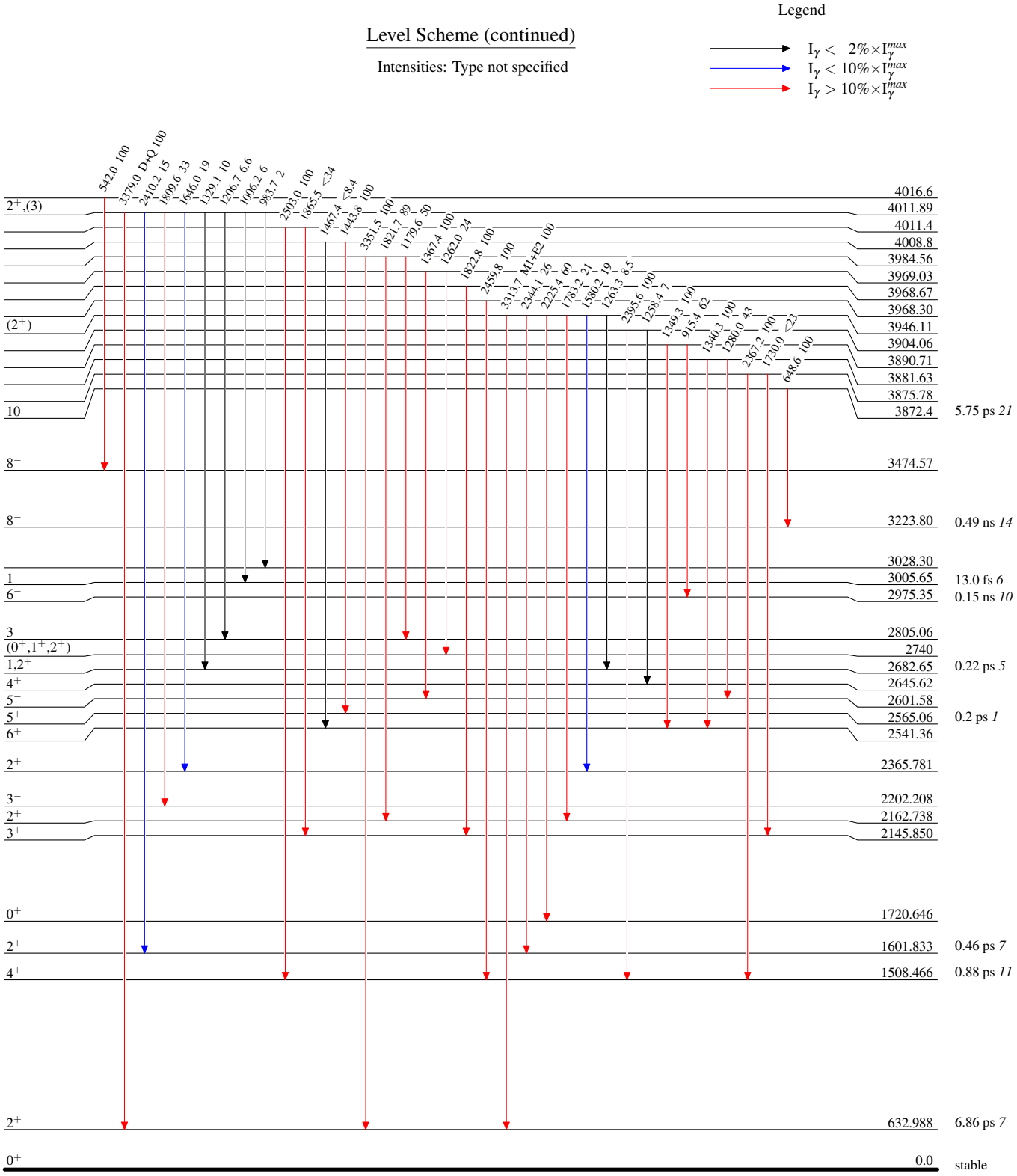


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

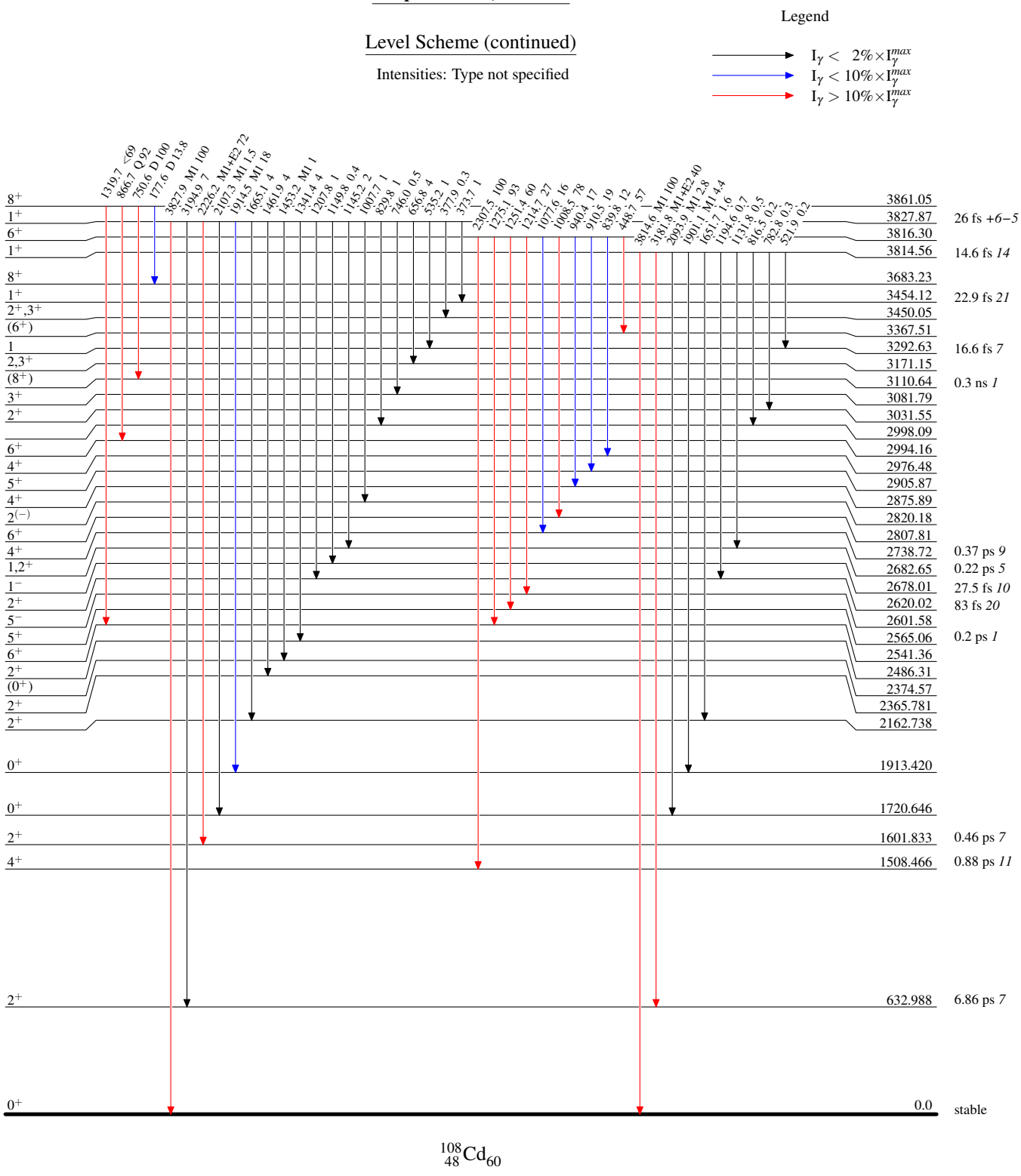


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

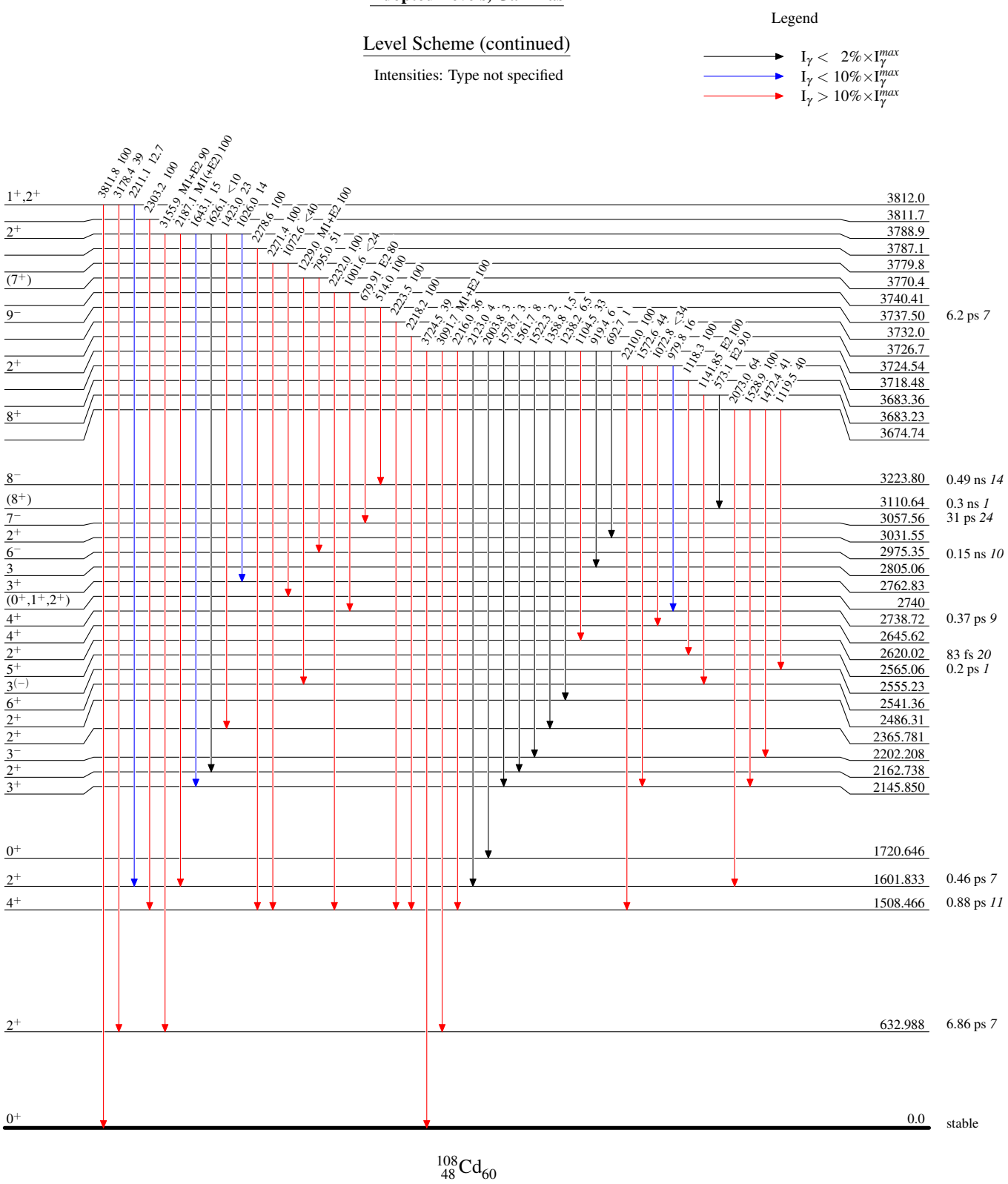
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

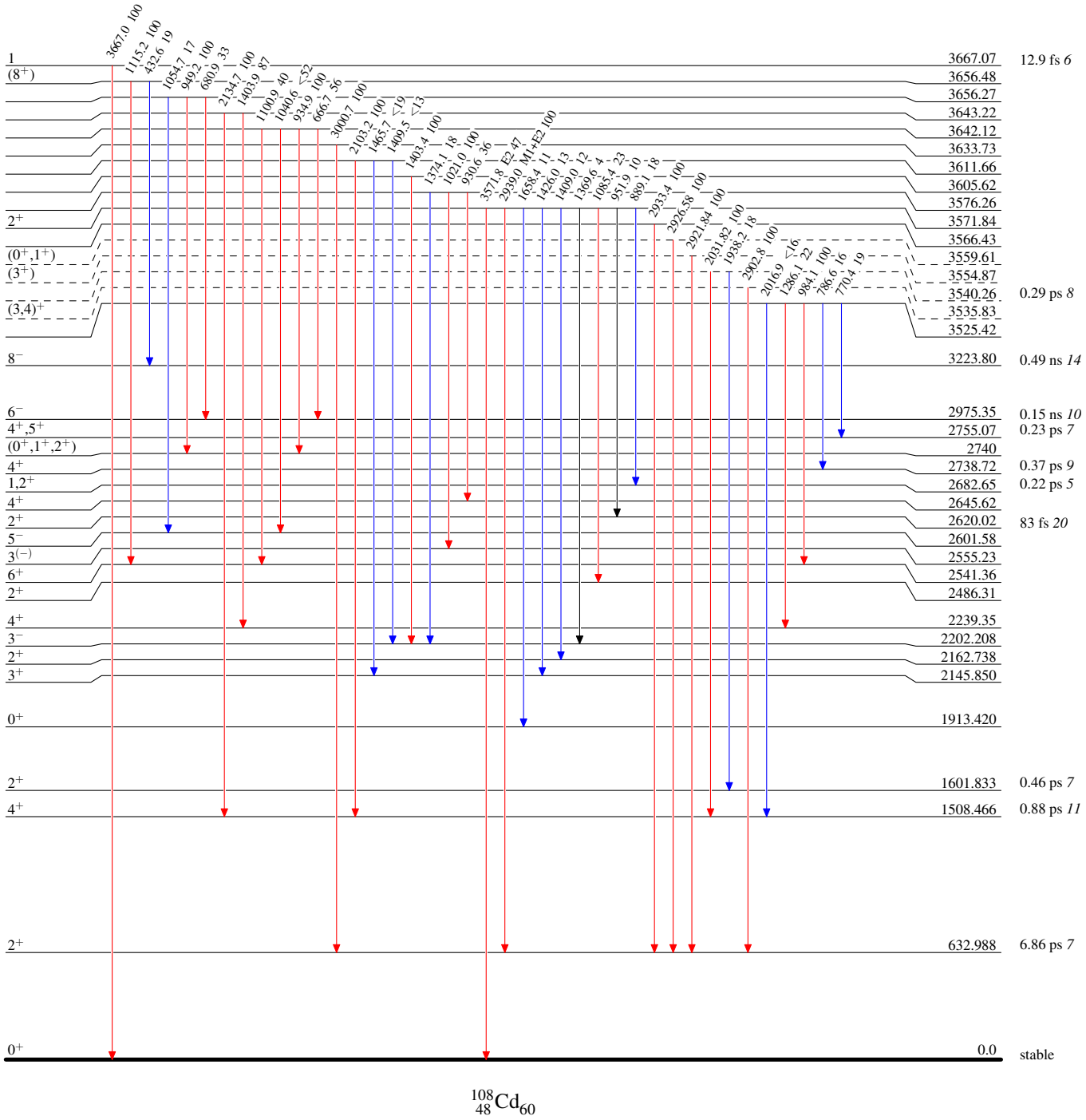


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

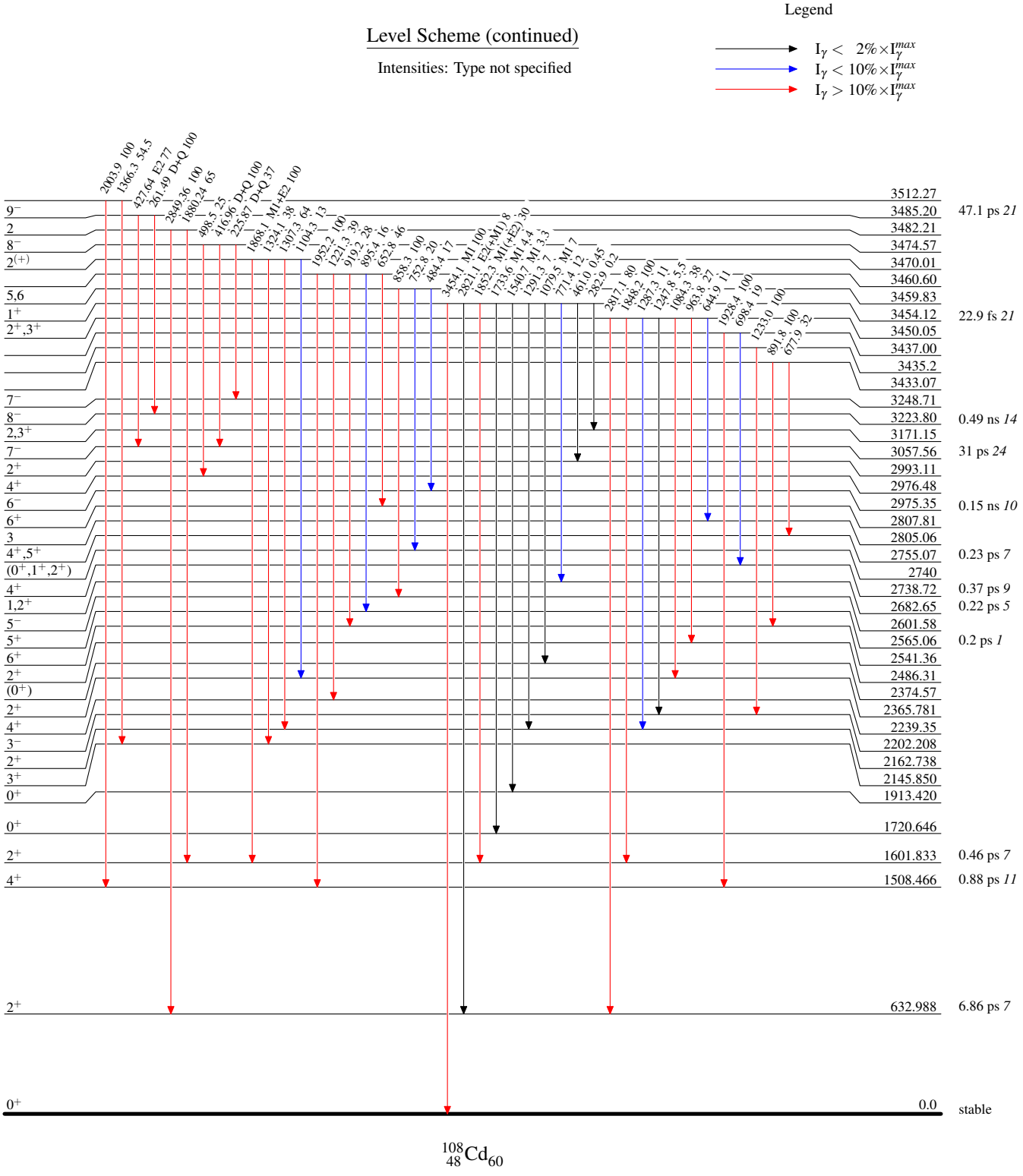
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

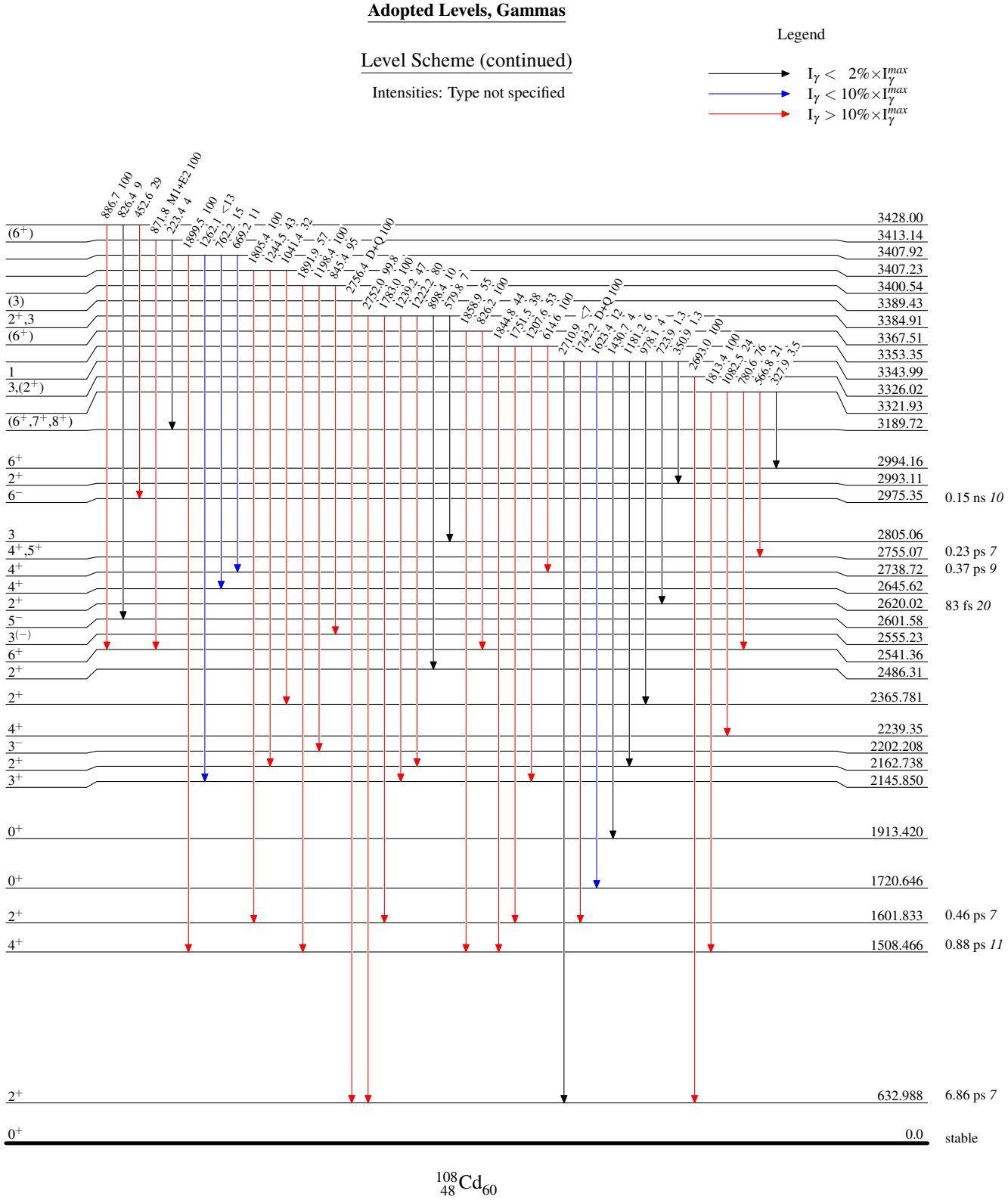
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

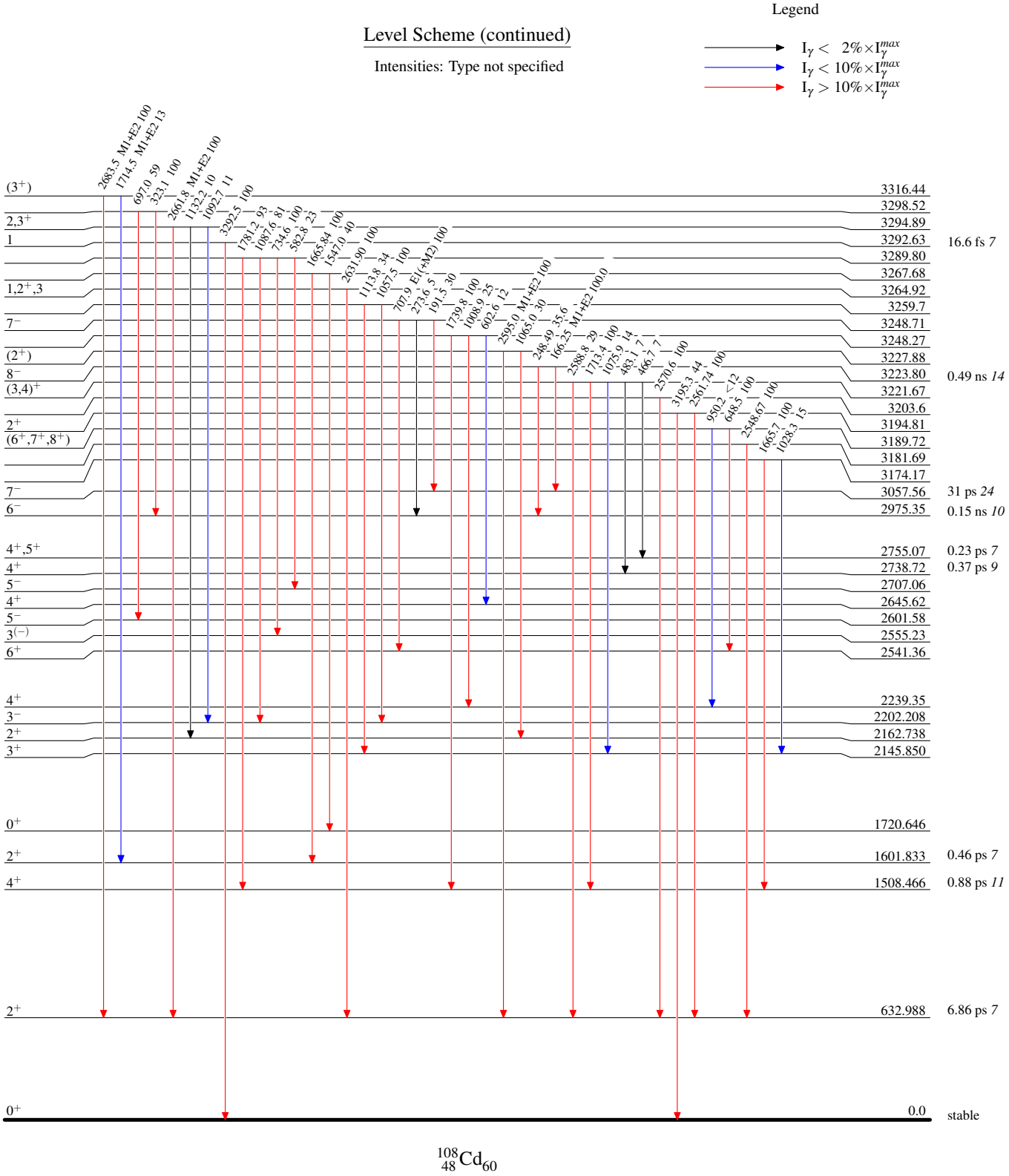


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

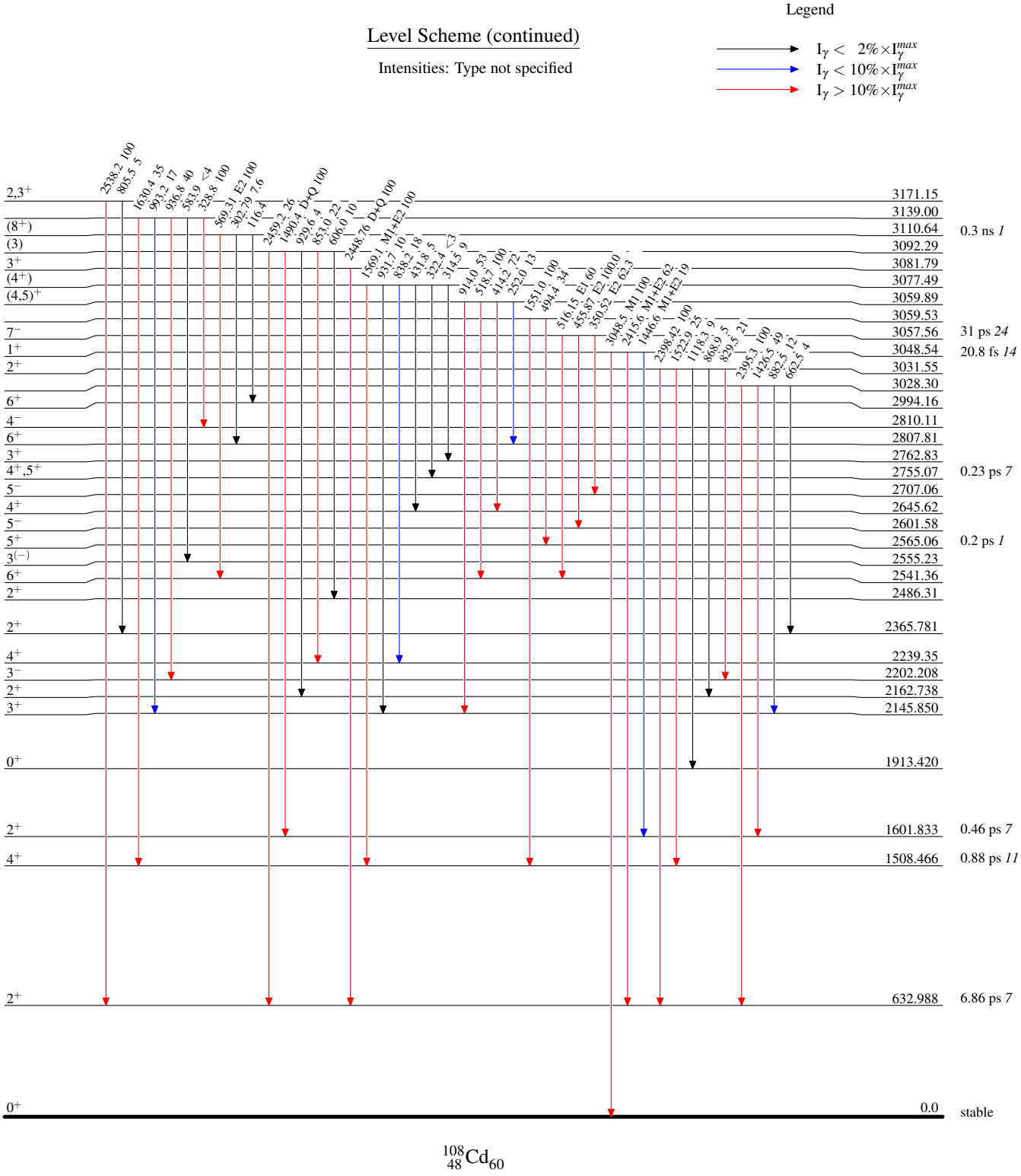


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

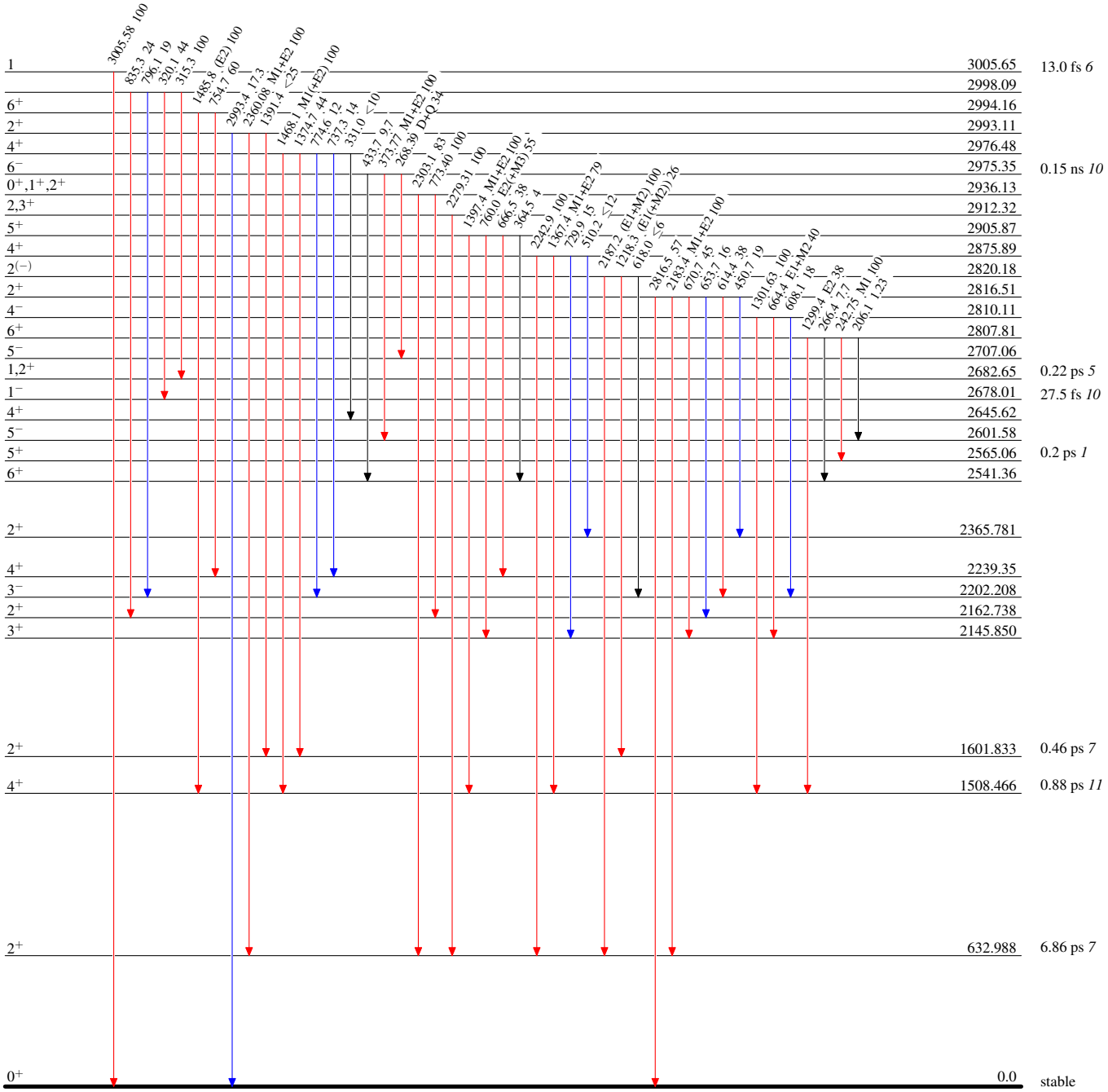
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

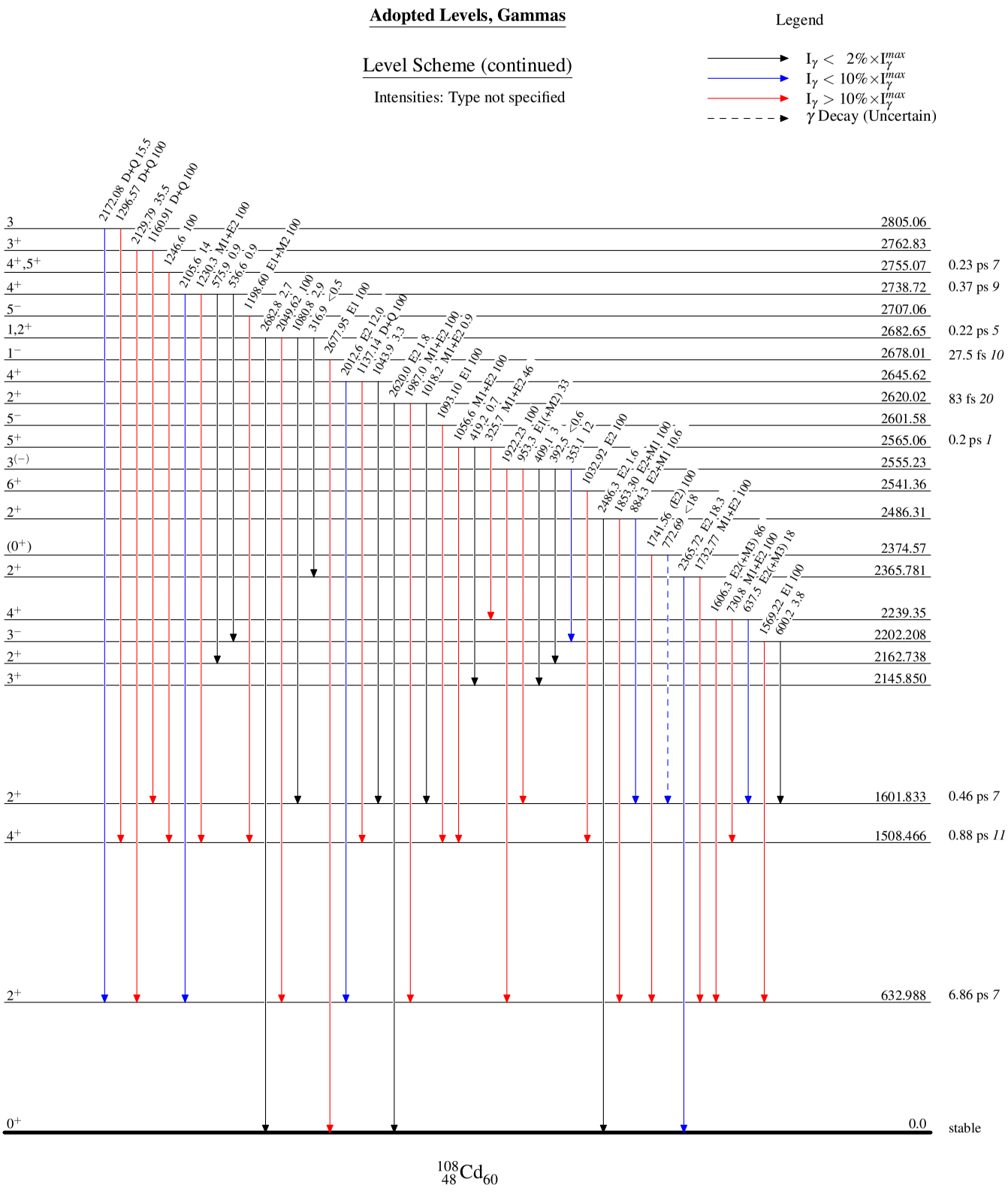


$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas

Level Scheme (continued)

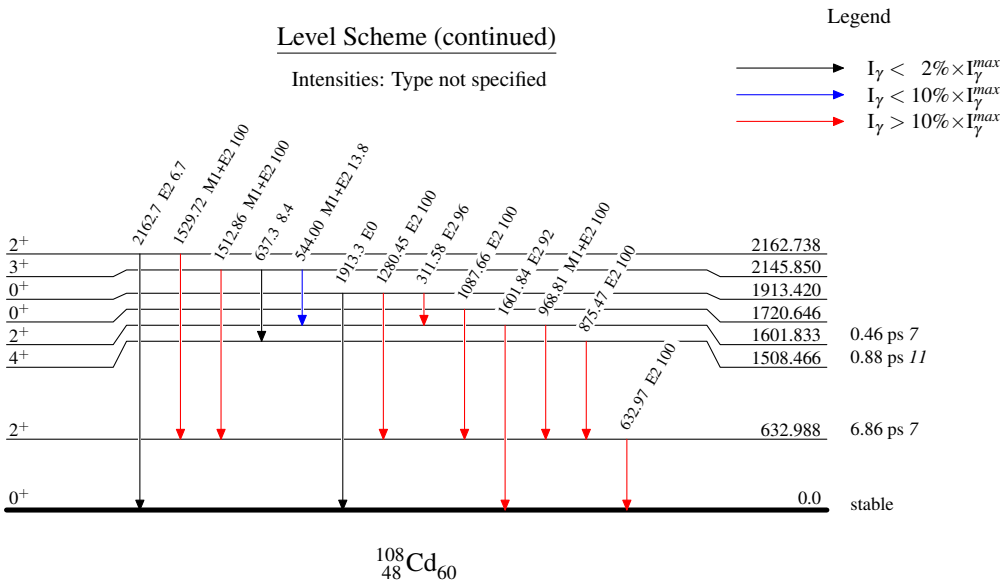
Intensities: Type not specified



Adopted Levels, Gammas

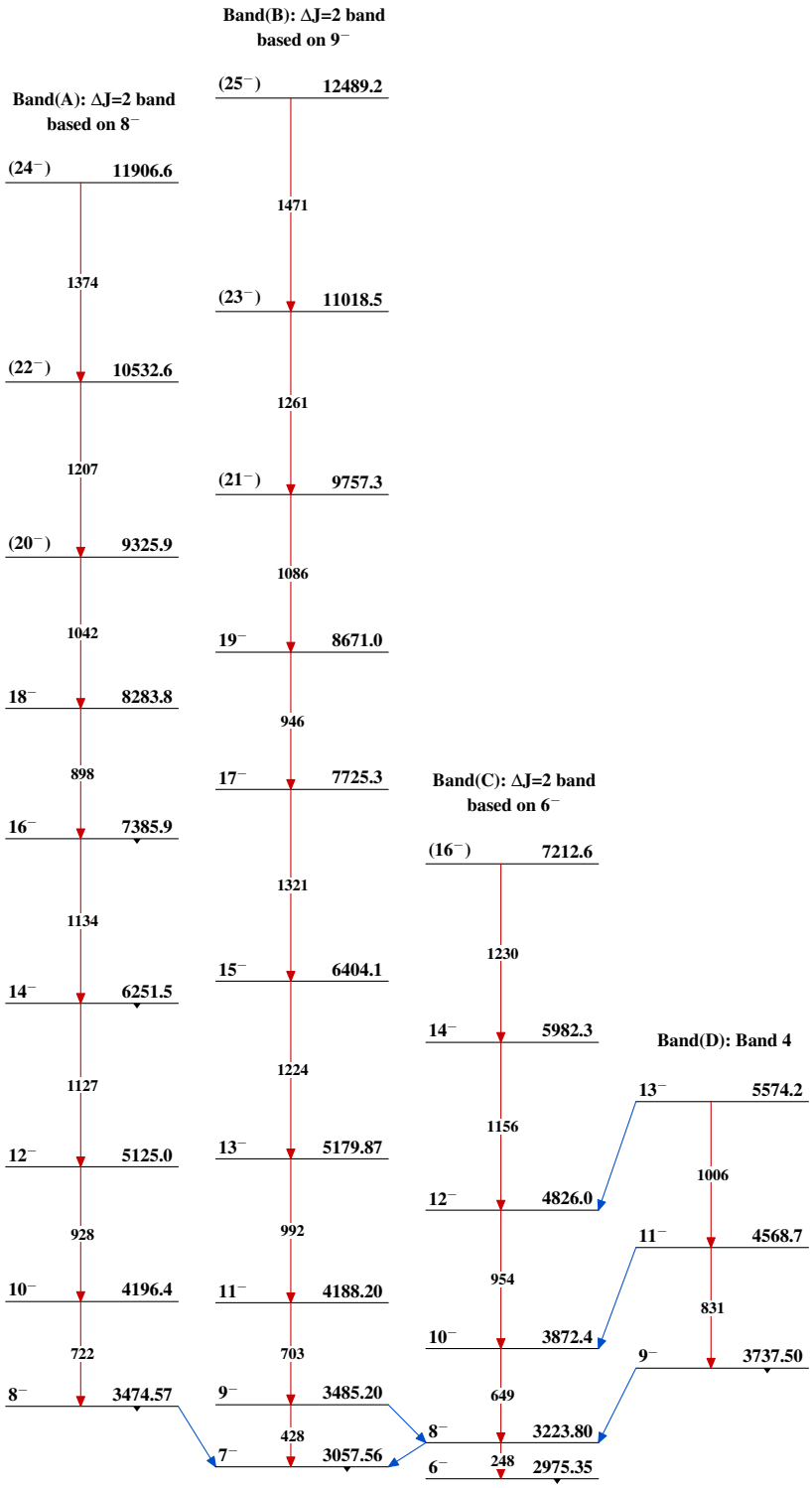
Level Scheme (continued)

Intensities: Type not specified



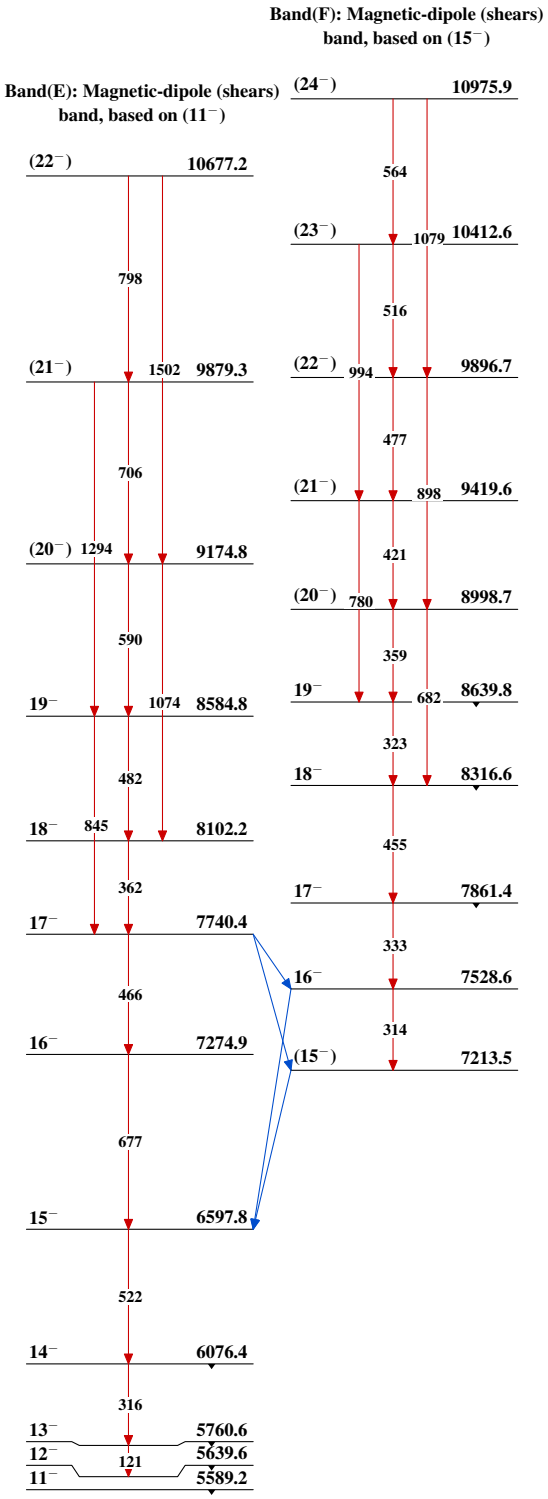
$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas



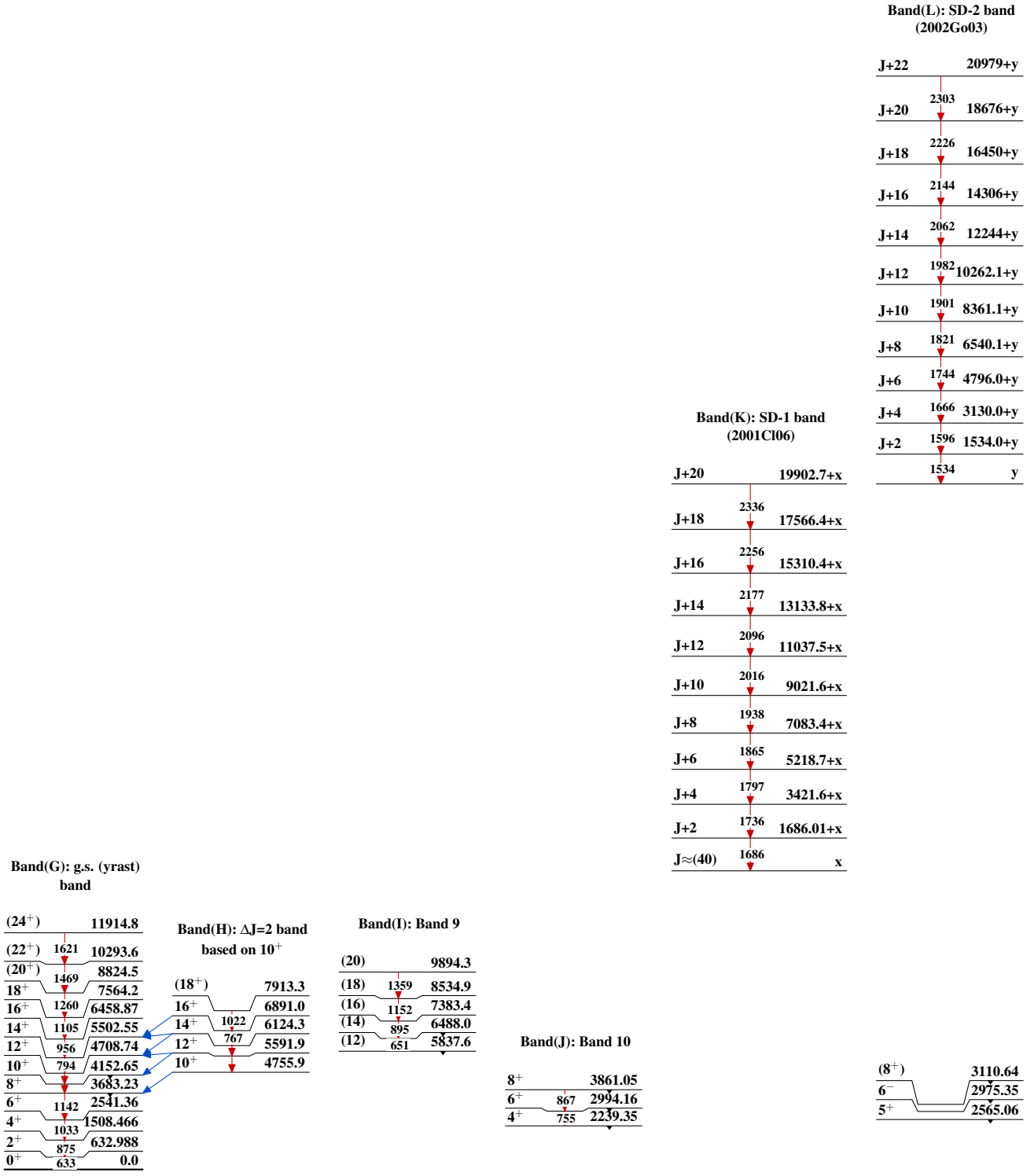
$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas (continued)



$^{108}_{48}Cd_{60}$

Adopted Levels, Gammas (continued)



$^{108}_{48}Cd_{60}$