Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110,1239 (2009)	1-Feb-2008

Q(β^-)=−862 *4*; S(n)=6975.63 *17*; S(p)=9084.3 *13*; Q(α)=−3305.5 *14* 2012Wa38
Note: Current evaluation has used the following Q record −862 5 *6975.85 19*9085.9 *16*−3315 5 2003Au03.

^{111}Cd Levels

Cross Reference (XREF) Flags

A	Coulomb excitation	F	^{111}Cd(d,d′) E=15 MeV	K	^{110}Pd(^{3}He,2nγ)
B	^{110}Cd(d,p), ^{112}Cd(d,t)	G	^{111}Cd(p,p′)	L	^{111}Cd(γ,γ′)
C	^{110}Pd(α,3nγ)	H	^{111}Cd IT decay (48.54 min)	M	^{110}Cd(n,γ) E=0.02-1 keV
D	^{111}Ag β^- decay (64.8 s)	I	^{111}In ε decay	N	^{110}Cd(n,γ):E=th,reactor,res
E	^{111}Ag β^- decay (7.45 d)	J	^{111}Cd(n,n′γ)	O	(HI,xnγ)

E(level)[†]	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	1/2$^+$	stable		μ=−0.5948861 *9* (1989Ra17) J$^\pi$: J=1/2 (1976Fu06), L(d,p)=0.
245.390 *16*	5/2$^+$	84.5 ns *4*	ABCDEF HIJK MN	Q=+0.77 *12* (1989Ra17); μ=−0.7656 *25* Q: others: +0.80 *10* (1983Er01), +0.83 *13* (1983He02). μ: other: −0.76 *5* (1989Be22). T$_{1/2}$: weighted average: 84.1 ns *5* (1957Ma26) $\gamma\gamma$(t), 84.8 ns *+8−5* (1957Si63) $\gamma\gamma$(t) from ε decay, and 85.0 ns *7* (1968Mc04) from β^- decay. J$^\pi$: E2 γ decay to ground state; E3 γ from J=11/2.
342.135 *16*	3/2$^+$	24 ps *3*	AB DEFG JK MN	μ=+0.03 *120* (1989Ra17,1989Be22) T$_{1/2}$: from B(E2)=0.110 *9* in Coul. ex. and δ(342γ)=0.36 *2*. Others: 59 ps *12* (1970Ra16) 62 ps *17* (1961Fr08), 42 ps *6* (1971Sh21) res scattering cross section as a function of temperature. A weighted av of these other values gives 47 ps *5* which requires δ(342γ)=0.53 *5* if B(E2)=0.110 *9*. J$^\pi$: M1+E2 γ decay to 1/2$^+$ state.
396.214[‡] *21*	11/2$^-$	48.50 min *9*	BC HIJKL O	%IT=100 Q=−0.85 *9* (1989Ra17); μ=−1.1051 *4* J$^\pi$: optical double resonance (1976Fu06), L(d,p)=5. Measured moments of odd-mass ^{105}Cd-^{115}Cd are compared with theoretical predictions (1989Be22). T$_{1/2}$: from weighted average with Limitation of Relative Statistical Weight, lrsw, method (1985ZiZY,1992Ra09) of 48.7 m *3* (1945Wi11), 50 m *2* (1948Ho37), 48.6 m *3* (1949He06), 49.4 m *7* (1968Bo28), 48.54 m *5*, (1987Ne01), and 48.30 m *15* [Xiao-qiong Wen et al. Nucl. Instr. & Meth. A379 (1997) 478]. In the lrsw process the uncertainty for the value of 1987Ne01 is increased from 0.05 to 0.12 to decrease its relative weight to 50%. μ: other: −1.1055 (1989Be22).
416.72 *3*	7/2$^+$	0.12 ns *3*	ABCD F IJK	T$_{1/2}$: from 1964Sp07 (ce(K) Auger)(ce(L) 171γ)(t). J$^\pi$: L=4 (d,p),(d,t) and γ to 3/2$^+$.
620.18 *3*	5/2$^+$	9.7 ps	AB DEFG JK	μ=+0.28 *12* (1989Ra17,1989Be22) T$_{1/2}$: from $\gamma\gamma$(t) in Coul. ex. Other: 11 ps *2* (1968Mc04). J$^\pi$: L=2 and cross-section ratio (d,p)/(d,t); allowed β^- transition from 7/2$^+$ excludes 3/2$^+$.
680.48 *5*	(9/2)$^-$		J M	J$^\pi$: M1+E2 γ to 11/2$^-$, $\gamma(\theta)$ and linear polarization in (n,n′γ).
700 *10*	(7/2$^+$,9/2$^+$)		B	J$^\pi$: L=(4) in (d,p), (d,t).

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Adopted Levels, Gammas (continued)

^{111}Cd Levels (continued)

E(level)†	J^π	$T_{1/2}$	XREF	Comments
704.93 *10*	7/2$^+$		J	J^π: $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$).
736 *10*	3/2$^+$,5/2$^+$	>1 ns	G L	$T_{1/2}$: deduced from photoactivation (1988Ne04). J^π: L(p,p$'$)=2.
752.81 *5*	5/2$^+$		D JK M	J^π: based on probable γ decay to 1/2$^+$ g.s. and allowed (log *ft*=4.6) β^- transition from 7/2$^+$ ^{111}Ag isomer.
754.9 *4*	3/2$^+$		A E K	J^π: γ's to 1/2$^+$,5/2$^+$ states, excit in ^{110}Pd(^{3}He,2nγ).
831.26 *9*	(7/2$^-$)		J M	J^π: fed by transitions from 3/2$^-$ and 9/2$^-$ levels. Syst.
853.94 *7*	7/2$^+$		JK M	J^π: γ' s to 5/2$^+$ and 7/2$^+$ and excit in ^{110}Pd(^{3}He,2nγ).
855.6 *10*	3/2$^+$		A	J^π: M1+E2 γ to 1/2$^+$ g.s.
864.8 *3*	3/2$^+$		b E n	J^π: M1 γ to 1/2$^+$ g.s., av res (n,γ).
866.60 *6*	3/2$^+$	2.8 ps +*7*−*4*	Ab E J Mn	J^π: L=2 (d,p), (d,t). M1+E2 γ to 1/2$^+$.
967.90‡ *7*	15/2$^-$		C JK O	J^π: E2 γ to 11/2$^-$, excit in ^{110}Pd(^{3}He,2nγ).
986.53 *9*	9/2$^+$		C JK	J^π: $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$).
1016.76 *8*	3/2$^+$		J MN	J^π: M1+E2 γ to 1/2$^+$ g.s., $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$). E(level): 1991NeZX suggest correspondence with the 1020 level, but this would require the $\gamma(\theta)$ and γ(pol) for the 1016γ giving mult=M1+E2 to be in error.
1020 *10*	1/2$^+$		B	J^π: from L=0 via (d,p),(d,t), IAR.
1046.76 *7*	(7/2$^+$)		K	J^π: γ's to 3/2$^+$ and 5/2$^+$. Excit in (^{3}He,2nγ).
1057.49 *9*			J M	
1078.25 *7*	3/2$^+$		J MN	J^π: M1+E2 γ to 1/2$^+$.
1115.56 *9*	3/2$^+$	0.08 ps *4*	AB JK MN	XREF: B(1130). J^π: L=2 (d,p), M1+E2 to 1/2$^+$ g.s. $T_{1/2}$: from B(E2) in Coul. ex.
1118.41 *7*	7/2$^+$		J M	J^π: E2 γ to 3/2$^+$.
1130 *1*		80 ps	L	$T_{1/2}$: deduced from photoactivation (1988Ne04). J^π: authors suggest a J^π=5/2$^+$.
1151.00 *9*	(5/2$^+$)		J	J^π: M1+E2 γ to 7/2$^+$, $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$).
1185.73 *10*	1/2$^+$		B J MN	J^π: from L=0 (d,p),(d,t).
1189.96 *10*	3/2$^+$		J M	J^π: M1+E2 given in (n,n$'\gamma$) is inconsistent with 1/2$^+$ to 1/2$^+$ placement which requires pure M1.
1256.59 *9*	11/2$^+$		C JK	J^π: γ' s to 7/2$^+$ and (9/2$^+$), excit in ^{110}Pd(^{3}He,2nγ).
1274.68 *8*	(5/2$^+$)		JK M	J^π: γ to 3/2$^+$, $\gamma(\theta)$ in ^{110}Pd(^{3}He,2nγ).
1288.89 *25*			M	
1298.58 *9*			K N	J^π: $\gamma(\theta)$ 5/2$^+$ in (n,n$'\gamma$). (9/2$^+$) in ^{110}Pd(^{3}He,2nγ).
1321.61 *10*			J	
1325.94 *10*	3/2$^+$		J MN	J^π: M1(+E2) γ to 1/2$^+$ g.s.
1326.62 *10*	5/2$^-$		J M	J^π: E2 γ to 9/2$^-$ and E1 γ to 3/2$^+$.
1330		1 ps	L	$T_{1/2}$: deduced from photoactivation (1988Ne04).
1339.72 *12*	(13/2$^-$)		C JK	J^π: γ to 11/2$^-$, excit in ^{110}Pd(^{3}He,2nγ).
1340.67 *6*	1/2,3/2		JK MN	J^π: d, D+Q γ to 1/2$^+$ g.s.
1341.33 *10*	(5/2)		JK M	J^π: based on the (n,γ)/(n,n$'\gamma$) intensity ratio and syst.
1346.19 *10*			M	
1391.81 *7*	3/2$^+$		J MN	J^π: M1 γ to 5/2$^+$ and 3/2$^+$. γ from 1/2$^+$ in (n,γ) E=res.
1472.98 *12*	3/2$^+$		J MN	J^π: M1 γ to 3/2$^+$, $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$).
1506.05 *10*	(9/2$^-$)		J N	J^π: based on the (n,γ)/(n,n$'\gamma$) intensity ratio and syst.
1511.57 *10*			JK N	
1546.33 *10*	3/2$^+$		B J MN	XREF: B(1550). J^π: L=2 (d,p) (d,t). γ's to 1/2$^+$ g.s. and (5/2$^+$). γ from 1/2$^+$ in (n,γ) E=res.
1552.10 *8*	3/2$^+$		B J MN	J^π: M1 γ to 5/2$^+$, $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$).
1552.44 *13*	(7/2$^+$,9/2$^+$)		K	J^π: excit in ^{110}Pd(^{3}He,2nγ).
1565.72 *10*	(11/2$^-$)		C JK	J^π: $\gamma(\theta)$ and linear polarization in (n,n$'\gamma$), excit in

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Adopted Levels, Gammas (continued)

^{111}Cd Levels (continued)

E(level)†	Jπ	XREF	Comments
			^{110}Pd(^{3}He,2nγ).
1613.32 *13*		J	
1660 *10*	(1/2+)	B	Jπ: L=(0) (d,p) (d,t).
1666.00 *15*		C JK M	
1682.75 *12*		J M	
1691.95 *18*	3/2+	FG J	Jπ: γ(θ) and linear polarization in (n,n′γ).
1717.47 *22*	3/2+,5/2+	B J M	XREF: B(1720). Jπ: L=2 (d,p) (d,t).
1739.73 *10*	3/2+	J MN	Jπ: M1 γ to 5/2+ and 3/2+.
1789.30 *12*	3/2+	F J MN	Jπ: M1 γ to 5/2+, γ(θ) and linear polarization in (n,n′γ).
1800.94 *14*	(7/2−)	G J M	Jπ: γ(θ) and linear polarization in (n,n′γ).
1826.71 *17*	9/2,11/2	K	Jπ: γ′s to 7/2+, excit in ^{110}Pd(^{3}He,2nγ).
1828.63 *11*	3/2+	J MN	Jπ: M1 γ to 1/2+, γ(θ) and linear polarization in (n,n′γ).
1842.50 *18*	3/2,1/2	J MN	Jπ: d,D+Q γ to 1/2+ g.s., γ(θ) and linear polarization in (n,n′γ).
1849.0 *4*		M	
1852.1‡ *3*	19/2−	C K O	Jπ: E2 γ to 15/2−, excit in ^{110}Pd(^{3}He,2nγ).
1860 *10*	3/2+,5/2+	B	Jπ: L=2 (d,p) (d,t).
1895.0		J	
1907.4 *3*		JK	
1921.1 *10*	(13/2+)	C K	Jπ: excit in ^{110}Pd(^{3}He,2nγ).
1960		F	
1971.80 *12*	7/2−	J M	Jπ: E2 γ to 11/2− and γ to 7/2−.
1974.75 *15*	3/2+,5/2+	B FG J	Jπ: L=2 (d,p) (d,t).
1992.71 *16*		J M	
2005.8 *3*		J M	
2016.0 *5*	3/2+,5/2+	B M	Jπ: L=2 (d,p) (d,t).
2038.6 *4*		J M	
2045.29 *23*	(3/2+)	J MN	Jπ: M1 γ to 5/2+, γ(θ) and linear polarization in (n,n′γ).
2096.95 *21*	(5/2+,7/2+)	J M	
2134.88 *19*	(1/2,3/2)	B J M	
2147.5 *4*	(17/2−)	C K O	Jπ: γ to (15/2− and 13/2−), excit in ^{110}Pd(^{3}He,2nγ).
2154.21 *14*	(5/2+,7/2+)	J N	
2165.6 *5*		N	
2195.7 *10*	(15/2+)	C K	Jπ: γ to (11/2+), excit in ^{110}Pd(^{3}He,2nγ).
2197		J L	B(E1)↑=0.41×10^{-5} *5*
2200 *10*		B	
2226.3 *11*		K	
2236.1 *3*		C J L N	B(E1)↑=0.18×10^{-5} *3*
2242.5 *4*		N	
2280.5 *4*	1/2+,3/2+	B J MN	Jπ: γ(θ) and linear polarization in (n,n′γ), fed by primary gammas.
2311		L	B(E1)↑=0.32×10^{-5} *3*
2325.6 *5*	1/2,3/2	J MN	Jπ: γ to 3/2+, γ(θ) and linear polarization in (n,n′γ).
2331.5 *6*		C	
2382.9 *3*		N	
2384		L	B(E1)↑=0.04×10^{-5} *1*
2415		L	B(E1)↑=0.19×10^{-5} *6*
2419		L	B(E1)↑=0.63×10^{-5} *5*
2446.1 *4*		J M	
2449		L	B(E1)↑=0.05×10^{-5} *1*
2475.3 *11*		C	
2495.1 *4*		J M	
2538		L	B(E1)↑=0.09×10^{-5} *1*
2556.9 *4*		J M	
2560		L	B(E1)↑=0.27×10^{-5} *2*

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Adopted Levels, Gammas (continued)

^{111}Cd Levels (continued)

E(level)†	J$^{\pi}$	XREF	Comments
2566.2		N	
2588.2 *5*		M	
2653.2 *7*		M	
2659		L	B(E1)↑=0.07×10^{-5} *1*
2671		L	B(E1)↑=0.20×10^{-5} *2*
2690		L	B(E1)↑=0.08×10^{-5} *1*
2692.3 *5*		M	
2698		L	B(E1)↑=0.08×10^{-5} *1*
2708		L	B(E1)↑=0.16×10^{-5} *1*
2709.9 *4*		M	
2714.5 *4*		M	
2730		L	B(E1)↑=0.08×10^{-5} *1*
2733.2 *3*		M	
2740.1 *5*	(19/2)	C O	J$^{\pi}$: D+Q to (17/2$^-$) and γ to 19/2$^-$.
2756		L	B(E1)↑=0.07×10^{-5} *1*
2768.4 *5*		M	
2775		L	B(E1)↑=0.13×10^{-5} *1*
2788		L	B(E1)↑=0.04×10^{-5} *1*
2831		L	B(E1)↑=0.05×10^{-5} *1*
2847.0‡ *6*	23/2$^-$	C O	J$^{\pi}$: E2 γ to 19/2$^-$.
2858		L	B(E1)↑=0.25×10^{-5} *2*
2860.1 *11*		C	
2950.88 *11*		M	
2977.9 *5*		M	
3039		L	B(E1)↑=0.20×10^{-5} *1*
3059		L	B(E1)↑=0.10×10^{-5} *3*
3076.11 *24*		M	
3100.6 *6*		C O	
3113		L	B(E1)↑=0.04×10^{-5} *1*
3126.4 *6*		M	
3131		L	B(E1)↑=0.35×10^{-5} *2*
3147		L	B(E1)↑=0.05×10^{-5} *1*
3173		L	B(E1)↑=0.15×10^{-5} *1*
3185		L	B(E1)↑=0.06×10^{-5} *1*
3207		L	B(E1)↑=0.08×10^{-5} *1*
3230.3 *10*	(23/2$^+$)	C O	J$^{\pi}$: stretched Q to (19/2$^+$).
3246		L	B(E1)↑=0.06×10^{-5} *1*
3259		L	B(E1)↑=0.05×10^{-5} *1*
3302		L	B(E1)↑=0.14×10^{-5} *1*
3323		L	B(E1)↑=0.09×10^{-5} *1*
3351		L	B(E1)↑=0.12×10^{-5} *7*
3362		L	B(E1)↑=0.08×10^{-5} *1*
3384		L	B(E1)↑=0.07×10^{-5} *1*
3394			B(E1)↑=0.06×10^{-5} *1*
3455		L	B(E1)↑=0.19×10^{-5} *2*
3467		L	B(E1)↑=0.48×10^{-5} *2*
3483		L	B(E1)↑=0.25×10^{-5} *2*
3498		L	B(E1)↑=0.19×10^{-5} *1*
3526		L	B(E1)↑=0.61×10^{-5} *6*
3542		L	B(E1)↑=0.11×10^{-5} *1*
3553		L	B(E1)↑=0.05×10^{-5} *1*
3566		L	B(E1)↑=0.06×10^{-5} *1*

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Adopted Levels, Gammas (continued)

^{111}Cd Levels (continued)

E(level)†	Jπ	XREF	Comments
3573		L	B(E1)↑=0.05×10^{-5} *1*
3671		L	B(E1)↑=0.02×10^{-5} *1*
3691		L	B(E1)↑=0.04×10^{-5} *1*
3702		L	B(E1)↑=0.10×10^{-5} *1*
3710		L	B(E1)↑=0.15×10^{-5} *1*
3715			B(E1)↑=0.04×10^{-5} *1*
3717.4 *7*	(27/2$^+$)	C O	Jπ: stretched Q to (23/2$^+$).
3733			B(E1)↑=0.03×10^{-5} *1*
3740		L	B(E1)↑=0.18×10^{-5} *1*
3756		L	B(E1)↑=0.04×10^{-5} *1*
3763.0‡ *7*	27/2$^-$	C O	Jπ: E2 γ to 23/2$^-$.
3781		L	B(E1)↑=0.04×10^{-5} *1*
3801		L	B(E1)↑=0.06×10^{-5} *1*
3828		L	B(E1)↑=0.23×10^{-5} *3*
3856		L	B(E1)↑=0.31×10^{-5} *4*
3900		L	B(E1)↑=0.18×10^{-5} *1*
3921		L	B(E1)↑=0.05×10^{-5} *1*
4555.9‡ *9*	31/2$^-$	C O	Jπ: E2 γ to 27/2$^-$.
5501.7‡ *10*	35/2$^-$	O	Jπ: E2 γ to 31/2$^-$.
6648.8‡ *11*	39/2$^-$	O	Jπ: E2 γ to 35/2$^-$.
7951.2‡ *12*	43/2$^-$	O	Jπ: E2 γ to 39/2$^-$.
9407.2‡ *15*	47/2$^-$	O	Jπ: E2 γ to 43/2$^-$.

† From least-squares fit to Eγ′s.
‡ Band(A): (ν $h_{11/2}$) decoupled band. ΔJ=2 spacing corresponds to ^{110}Cd g.s. band.

Adopted Levels, Gammas (continued)

$\gamma(^{111}Cd)$

E_i(level)	J^{π}_i	E_γ†	I_γ†	E_f	J^{π}_f	Mult.‡	δ‡	α#	Comments
245.390	5/2+	245.395 *20*	100	0.0	1/2+	E2		0.0638	B(E2)(W.u.)=0.2218 *19* Mult.: from α(K)exp and subshell ratios in ^{111}Ag β^- decay. E_γ: from it decay.
342.135	3/2+	96.75 *2*	1.73 *9*	245.390	5/2+	M1+E2	0.12 *4*	0.531 *11*	B(M1)(W.u.)=0.0205 *2* Mult.: from ^{111}Ag β^- decay. $\delta\approx0.1$ (1975Sh29).
		342.13 *2*	100	0.0	1/2+	M1+E2	+0.36 *2*	0.0186 *2*	B(E2)(W.u.)=11.7 *14*; B(M1)(W.u.)=5.7×10^{-3} *12* δ: weighted average of 0.31 *2* and 0.39 *2* in Coul. ex. and 0.39 *2* in (n,n′γ).
396.214	11/2−	150.824 *13*	100	245.390	5/2+	E3		2.30	B(E3)(W.u.)=9.7×10^{-5} *2* Mult.: from α(K)exp in ^{111}Cd it decay. 1987Ne05 report α(K)exp 11% lower than theory.
416.72	7/2+	171.28 *3*	100	245.390	5/2+	M1+E2	−0.144 *3*	0.107	B(E2)(W.u.)=23 *6*; B(M1)(W.u.)=0.0041 *10* δ: from $\gamma\gamma(\theta)$ in ^{111}In ε decay. Other: −0.17 *5* (n,n′γ).
620.18	5/2+	203.29 *12*	0.67 *10*	416.72	7/2+				E_γ,I_γ: from (n,n′γ) and (n,γ).
		278.04 *5*	6.1 *5*	342.135	3/2+	M1+E2			B(E2)(W.u.)=20.5 *2*; B(M1)(W.u.)=0.0019 *1* δ: +0.45 *+25−13* or −1.2 *+2−4*.
		374.75 *5*	28.6 *20*	245.390	5/2+	M1+E2	+2.8 *5*		
		620.26 *13*	100 *9*	0.0	1/2+	E2			Mult.: Q from $\gamma(\theta)$, M2 ruled out by RUL.
680.48	(9/2)−	284.28 *5*	100 *5*	396.214	11/2−	M1+E2	+0.16 *1*		
704.93	7/2+	24.1		680.48	(9/2)−				E_γ: not observed, but required by the level scheme (1991NeZX).
752.81	5/2+	336.16 *10*	14 *3*	416.72	7/2+				E_γ,I_γ: from (n,n′γ).
		410.77 *10*	37 *9*	342.135	3/2+	M1+E2	−0.05 *3*		
		507.6 *3*	100 *5*	245.390	5/2+				
		752.85 *10*	44 *9*	0.0	1/2+	E2			
754.9	3/2+	413.0	40	342.135	3/2+				I_γ: unweighted av of $I\gamma/I\gamma(755\gamma)$ from 1968Mc04 and 1975AnYZ in Coul ex.
		509.4 *5*	50	245.390	5/2+				I_γ: from β^- decay. Others: $I\gamma(509\gamma)/I\gamma(755\gamma)$=10 *6* (^{3}He,2n$\gamma$), 1.8 (1968Mc04 in Coul ex.), and 0.98 (1975AnYZ) in Coul ex. these values are strongly affected by $\gamma\pm$.
		754.9 *5*	100	0.0	1/2+				I_γ: see comment for $I\gamma(509.4\gamma)$.
831.26	(7/2−)	435.06 *10*	100	396.214	11/2−				
853.94	7/2+	437.05 *9*	37 *3*	416.72	7/2+				
		608.68 *9*	100	245.390	5/2+				
855.6	3/2+	855.6	100	0.0	1/2+	M1+E2			
864.8	3/2+	522.4 *4*	61 *9*	342.135	3/2+				
		619.3 *4*	36 *18*	245.390	5/2+	(M1,E2)			Mult.: α(K)exp in ^{111}Ag β^- decay.
		865.9 *8*	100 *18*	0.0	1/2+	M1+E2			
866.60	3/2+	449.81 *10*	5.9 *17*	416.72	7/2+				E_γ,I_γ: from (n,n′γ) only.
		524.33 *20*	34 *4*	342.135	3/2+	M1+E2	+2.4 *4*		
		621.6 *6*	100 *21*	245.390	5/2+	(M1,E2)		0.004	Mult.: from α(K)exp in ^{111}Ag β^- decay.
		866.61 *10*	62 *5*	0.0	1/2+	M1+E2			Mult.: δ=−0.10 *5* or −1.42 *7*.

$^{111}_{48}Cd_{63}$-6

γ(^{111}Cd) (continued)

E$_i$(level)	J$^\pi_i$	E$_\gamma$†	I$_\gamma$†	E$_f$	J$^\pi_f$	Mult.‡	δ‡	Comments
967.90	15/2−	571.72 7	100	396.214	11/2−	E2		
986.53	9/2+	569.8 5	100 9	416.72	7/2+			I$_\gamma$: from (^{3}He,2nγ). Multiply placed in (n,n′γ).
		741.16 10	39 2	245.390	5/2+	E2		
1016.76	3/2+	263.84 15	8.2 10	752.81	5/2+			
		770.9 4	7.5 10	245.390	5/2+			
		1016.77 10	100	0.0	1/2+	M1+E2	−3.2 6	
1046.76	(7/2+)	293.91 8	7 2	752.81	5/2+			
		426.65 15	15 4	620.18	5/2+			
		704.66 15	100 10	342.135	3/2+			
		801.43 20	10 8	245.390	5/2+			
1057.49		304.4 3	2.2	752.81	5/2+			
		437.21 20	<89	620.18	5/2+			
		715.65 15	100 20	342.135	3/2+			
		811.95 15	25 2	245.390	5/2+			
		1057.4 4	13	0.0	1/2+			
1078.25	3/2+	211.7 3	3.1 13	866.60	3/2+			
		458.15 20	6.1 11	620.18	5/2+			
		832.91 10	100 10	245.390	5/2+	M1+E2	+0.20 4	
		1078.35 10	94 15	0.0	1/2+	M1+E2	+0.27 +5−3	
1115.56	3/2+	495.38 15	26 4	620.18	5/2+	M1+E2		δ: +0.09 9 or −9 +60−4. E$_\gamma$,I$_\gamma$: from (n,n′γ) only.
		773.40 20	50 16	342.135	3/2+	M1+E2	+2.8 +6−4	
		1115.57 15	100 20	0.0	1/2+	M1+E2	−0.17 3	
1118.41	7/2+	365.5	10 5	752.81	5/2+	M1+E2		
		498.30 15	23 6	620.18	5/2+	M1+E2		
		701.4 4	≤44	416.72	7/2+	M1+E2		
		776.29 10	86 20	342.135	3/2+	E2		
		873.06 10	100 12	245.390	5/2+			
1151.00	(5/2+)	446.13 5	100 5	704.93	7/2+	M1+E2		δ: δ=−0.29 10 or −2.4 2.
		1150.74 10	9 1	0.0	1/2+			
1185.73	1/2+	1185.72 10	100	0.0	1/2+			
1189.96	3/2+	323.41@ 25	≤2.7@	866.60	3/2+			
		569.0 10	100	620.18	5/2+			δ: −0.29 10 or −2.4 2.
		1190.19 15	3.4 17	0.0	1/2+	M1+E2		δ: +0.19 3 or −2.9 3. I$_\gamma$: from (n,n′γ). Iγ=14 5 in (n,γ).
1256.59	11/2+	270.01 13	5 2	986.53	9/2+			
		839.90 10	100 12	416.72	7/2+			
1274.68	(5/2+)	420.70 20	23 5	853.94	7/2+			
		858.0 4	18 8	416.72	7/2+			
		932.56@ 15	≤230@	342.135	3/2+			
		1029.35 10	100 10	245.390	5/2+			

$^{111}_{48}Cd_{63}$-7

$\gamma(^{111}Cd)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	Comments
1288.89		457.8 *6*	18	831.26	(7/2$^-$)		
		608.4 *3*	100	680.48	(9/2)$^-$		
		892.2 *10*	3 *1*	396.214	11/2$^-$		
1298.58		467.42 *25*		831.26	(7/2$^-$)		
		881.85 *9*	100 *12*	416.72	7/2$^+$		
		1053.2 *5*	80 *40*	245.390	5/2$^+$		
1321.61		979.5 *5*	4 *1*	342.135	3/2$^+$		
		1321.59 *10*	100 *12*	0.0	1/2$^+$		
1325.94	3/2$^+$	1325.93 *10*	100 *12*	0.0	1/2$^+$	M1(+E2)	δ: δ=−0.05 *5* or −1.6 *3*.
1326.62	5/2$^-$	646.13 *10*	100 *15*	680.48	(9/2)$^-$	E2	
		984.55 *20*	25 *1*	342.135	3/2$^+$	E1	
1339.72	(13/2$^-$)	371.90 *20*	3.3 *17*	967.90	15/2$^-$		
		943.42 *15*	100 *17*	396.214	11/2$^-$		
1340.67	1/2,3/2	323.41[@] *25*	≤9.7[@]	1016.76	3/2$^+$		
		588.20 *7*	30.3 *6*	752.81	5/2$^+$		I_γ: complex peak.
		720.02[@] *15*	≤125[@]	620.18	5/2$^+$		
		1340.27 *20*	100 *19*	0.0	1/2$^+$	M1+E2	δ: δ=+0.21 *9* or −3.0 +*7*−*14*.
1341.33	(5/2)	924.7 *4*	34 *9*	416.72	7/2$^+$		
		999.18 *10*	100 *2*	342.135	3/2$^+$		
1346.19		725.4 *4*	100 *35*	620.18	5/2$^+$		
		929.43 *20*	37 *11*	416.72	7/2$^+$		
		1004.14 *15*	9.1 *26*	342.135	3/2$^+$		
		1100.83 *15*	37 *9*	245.390	5/2$^+$		
1391.81	3/2$^+$	638.91[@] *15*	7.9[@] *17*	752.81	5/2$^+$		
		1049.67 *10*	40 *5*	342.135	3/2$^+$	M1+E2	δ: δ=+0.16 *6* or +2.3 +*5*−*3*.
		1146.46 *10*	100 *9*	245.390	5/2$^+$	M1+E2	δ: δ=−0.16 *2* or +14 +*30*−*5*.
		1391.77 *25*	11.8 *17*	0.0	1/2$^+$		
1472.98	3/2$^+$	395.88 *25*	5.6 *22*	1078.25	3/2$^+$		
		455.0 *15*	13 *3*	1016.76	3/2$^+$		
		720.0[@]	≤150[@]	752.81	5/2$^+$		
		1130.56 *15*	100 *11*	342.135	3/2$^+$	M1+E2	δ: δ=−0.21 *3* or +64 *22*.
		1472.8 *3*	61 *10*	0.0	1/2$^+$		
1506.05	(9/2$^-$)	825.64 *10*	100 *9*	680.48	(9/2)$^-$		
		1109.55 *20*	55 *9*	396.214	11/2$^-$		
1511.57		393.24 *20*	44 *8*	1118.41	7/2$^+$		
		891.25 *15*	75 *8*	620.18	5/2$^+$		
		1094.8 *2*	38 *12*	416.72	7/2$^+$		
		1266.58[@] *25*	100[@] *23*	245.390	5/2$^+$		
		1511.4 *3*	7.7 *23*	0.0	1/2$^+$		
1546.33	3/2$^+$	793.39 *10*	100 *22*	752.81	5/2$^+$		

$\gamma(^{111}$Cd) (continued)

E_i(level)	J^π_i	E_γ[†]	I_γ[†]	E_f	J^π_f	Mult.[‡]	δ[‡]	Comments
1546.33	3/2+	926.3 *4*	84 *25*	620.18	5/2+			
		1301.22 *20*	84 *17*	245.390	5/2+			
		1547.0 *4*	75 *38*	0.0	1/2+			
1552.10	3/2+	932.2[@] *4*	<75[@]	620.18	5/2+			
		1135.16[@] *20*	<3.8[@]	416.72	7/2+			
		1209.9 *4*	100 *19*	342.135	3/2+			
		1306.87 *20*	47 *7*	245.390	5/2+			
		1552.09 *10*	24 *5*	0.0	1/2+			
1552.44	(7/2+,9/2+)	932.56[@] *15*	[@]	620.18	5/2+	M1+E2	−0.16 *2*	
		1135.16 *20*		416.72	7/2+			
1565.72	(11/2−)	598.1 *3*	60 *8*	967.90	15/2−			
		1169.48 *10*	100 *10*	396.214	11/2−			
1613.32		746.6 *4*	10 *3*	866.60	3/2+			
		758.8[@] *8*	31[@] *12*	853.94	7/2+			
		993.30[@] *20*	20[@] *6*	620.18	5/2+			
		1271.08 *25*	100 *18*	342.135	3/2+			
		1367.87 *25*	74 *18*	245.390	5/2+			
1666.00		679.65 *20*	100 *4*	986.53	9/2+	D+Q		δ: δ=+0.01 *3* or −10 *+36−2* for J=7/2.
		1249.11 *20*	57 *18*	416.72	7/2+			
1682.75		408.48 *25*	20 *4*	1274.68	(5/2+)			
		976.95 *20*	≈46	704.93	7/2+			
		1266.58[@] *25*	100[@] *23*	416.72	7/2+			
		1437.60 *20*	28 *5*	245.390	5/2+			
1691.95	3/2+	939.3 *6*	15 *4*	752.81	5/2+			
		1349.3 *9*	10 *4*	342.135	3/2+			
		1691.95 *20*	70 *5*	0.0	1/2+	M1+E2		δ: +0.34 *+1−2* or −5.0 *2*.
1717.47	3/2+,5/2+	601.9 *5*	36 *13*	1115.56	3/2+			
		701.3 *7*	≤258	1016.76	3/2+			
		1097.3 *3*	100 *20*	620.18	5/2+			
		1471.8 *8*	≤236	245.390	5/2+			
		1717.2 *5*	97 *20*	0.0	1/2+			
1739.73	3/2+	873.06 *10*	100 *12*	866.60	3/2+	M1+E2		δ: δ=−0.08 *3* or +6.3 *+25−13*.
		1494.60 *20*	41 *11*	245.390	5/2+	M1+E2		δ: δ=−0.10 *+5−8* or −3.0 *7*.
		1740.0 *8*	12 *5*	0.0	1/2+			
1789.30	3/2+	1036.20 *15*	76 *15*	752.81	5/2+	M1+E2		δ: δ=+0.02 *3* or −5.4 *+11−7*.
		1447.4 *3*	100 *21*	342.135	3/2+			
		1544.7 *4*	86 *39*	245.390	5/2+			
		1789.59 *25*	64 *15*	0.0	1/2+			
1800.94	(7/2−)	235.3 *3*	22 *6*	1565.72	(11/2−)			
		969.66 *20*	100 *10*	831.26	(7/2−)			

$\gamma(^{111}Cd)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f	Mult.‡	Comments
1800.94	(7/2−)	1404.7 *2*	53 *9*	396.214	11/2−		
1826.71	9/2,11/2	779.95 *15*	100	1046.76	(7/2+)		
1828.63	3/2+	638.91@ *15*	≤27@	1189.96	3/2+		
		811.95 *15*	100 *20*	1016.76	3/2+	M1+E2	δ: δ=+0.06 *+12−10* or 3.1 *+16−9*.
		1486.01 *25*	73 *22*	342.135	3/2+		
		1828.0 *3*	54 *21*	0.0	1/2+		
1842.50	3/2,1/2	976.95	100 *20*	864.8	3/2+		
		1222.0 *4*	19 *9*	620.18	5/2+		
		1597.1 *10*	26 *6*	245.390	5/2+		
		1842.54 *20*	54 *16*	0.0	1/2+	M1+E2	δ: δ=+0.30 *10* or −4.5 *+3−15*.
1849.0		1432.3 *6*	32 *6*	416.72	7/2+		
		1506.0	100 *35*	342.135	3/2+		
		1849.2 *5*	88 *18*	0.0	1/2+		
1852.1	19/2−	884.2 *3*	100	967.90	15/2−	E2	
1907.4		1053.4	16 *8*	853.94	7/2+		
		1490.7 *3*	100	416.72	7/2+		
1921.1	(13/2+)	934.6 *10*	100	986.53	9/2+		
1971.80	7/2−	1140.53 *20*	57 *10*	831.26	(7/2−)		
		1291.5 *3*	51 *12*	680.48	(9/2)−		
		1575.52 *15*	100 *25*	396.214	11/2−	E2	
1974.75	3/2+,5/2+	784.69 *25*	7 *3*	1189.96	3/2+		
		958.0 *10*	≤27	1016.76	3/2+		
		1222.0 *4*	15 *7*	752.81	5/2+		
		1354.8 *3*	47 *16*	620.18	5/2+		
		1632.5 *3*	100 *16*	342.135	3/2+		
1992.71		666.1 *10*	58 *15*	1325.94	3/2+		
		1161.6	80	831.26	(7/2−)		
		1312.24 *15*	100 *25*	680.48	(9/2)−		
2005.8		680.0 *5*	≤100	1325.94	3/2+		
		1174.0 *8*	32 *12*	831.26	(7/2−)		
		1664.4 *8*	12 *6*	342.135	3/2+		
		2005.6 *4*	68 *16*	0.0	1/2+		
2016.0	3/2+,5/2+	900.2 *10*	20 *8*	1115.56	3/2+		
		1263.0 *8*	100 *30*	752.81	5/2+		
		2016.2 *8*	95 *31*	0.0	1/2+		
2038.6		1697.2 *5*	100 *42*	342.135	3/2+		
		1792.7 *7*	74 *25*	245.390	5/2+		
		2037.9 *6*	23 *6*	0.0	1/2+		
2045.29	(3/2+)	353.4 *5*	41 *7*	1691.95	3/2+		
		493.1 *5*	100 *16*	1552.10	3/2+		
		2045.2 *3*	52 *14*	0.0	1/2+		

$^{111}_{48}Cd_{63}$-10

Adopted Levels, Gammas (continued)

$\gamma(^{111}Cd)$ (continued)

E_i(level)	J^π_i	E_γ †	I_γ †	E_f	J^π_f
2096.95	(5/2+,7/2+)	907.0 8	27 11	1189.96	3/2+
		979.5 5	13 6	1118.41	7/2+
		1243.0 4	100 20	853.94	7/2+
		1343.2 8	32 13	752.81	5/2+
		1391.8 3	≤32	704.93	7/2+
2134.88	(1/2,3/2)	662.7 6	57 30	1472.98	3/2+
		808.9 10	79 30	1325.94	3/2+
		1792.67 20	100 30	342.135	3/2+
		1888.8 10	50 25	245.390	5/2+
2147.5	(17/2−)	807.5 5	40 4	1339.72	(13/2−)
		1180.1 6	100 25	967.90	15/2−
2154.21	(5/2+,7/2+)	964.5 5	60 30	1189.96	3/2+
		1038.7 3	18 6	1115.56	3/2+
		1737.3 2	100 30	416.72	7/2+
		1812.1 4	18 6	342.135	3/2+
		1909.0 3	31 7	245.390	5/2+
2165.6		1299.0 5	100 30	866.60	3/2+
		2165.6 8	33 11	0.0	1/2+
2195.7	(15/2+)	939.1 10	100	1256.59	11/2+
2197		2197		0.0	1/2+
2226.3		374.2	100	1852.1	19/2−
2236.1		762.9 10	20 7	1472.98	3/2+
		1157.7 10	12 6	1078.25	3/2+
		1219.2 8	100 30	1016.76	3/2+
		1483.6 10	42 18	752.81	5/2+
		1990.6 6	44 15	245.390	5/2+
		2236.1 5	100 25	0.0	1/2+
2242.5		1225.6 5	100 35	1016.76	3/2+
		1621.9 8	36 12	620.18	5/2+
		1901.2 9	40 18	342.135	3/2+
2280.5	1/2+,3/2+	1090.4 9	27 9	1189.96	3/2+
		1660.4 4	100 33	620.18	5/2+
		1937.9 10	33 12	342.135	3/2+
2311		2311		0.0	1/2+
2325.6	1/2,3/2	1983.4 5	100 30	342.135	3/2+
		2325.9 10	70 20	0.0	1/2+
2331.5		991.8 5	100	1339.72	(13/2−)
2382.9		1042.5 5	92 23	1340.67	1/2,3/2
		1528.1 6	100 25	853.94	7/2+
		1966.4 4	93 19	416.72	7/2+
2384		2384		0.0	1/2+
2415		2073&		342.135	3/2+
		2170	140 44	245.390	5/2+
		2415	100	0.0	1/2+
2419		2419		0.0	1/2+
2446.1		1105.7 6	57 14	1340.67	1/2,3/2
		1740.0 8	14 6	704.93	7/2+
		1826.4 6	57 25	620.18	5/2+
		2103.6	100 21	342.135	3/2+
2449		2449		0.0	1/2+
2475.3		623.2 10	100	1852.1	19/2−
2495.1		1022.5 10	46 12	1472.98	3/2+
		1155.3 4	37 10	1339.72	(13/2−)
		2152.9 5	100 11	342.135	3/2+
		2495.2 8	79 20	0.0	1/2+
2538		2538		0.0	1/2+
2556.9		1235.1 4	50 12	1321.61	
		2311.7 5	100 25	245.390	5/2+
2560		2560		0.0	1/2+
2588.2		1248.4 8	18.5 21	1340.67	1/2,3/2
		2171.2	100 21	416.72	7/2+
		2245.7 6	86 21	342.135	3/2+
2653.2		2032.8 8	100 29	620.18	5/2+
		2408.2 10	71 23	245.390	5/2+
2659		2659	100	0.0	1/2+
2671		2671		0.0	1/2+
2690		2690		0.0	1/2+
2692.3		1573.7 8	27 9	1118.41	7/2+
		1940.0 10	100 38	752.81	5/2+
		2275.6 10	58 20	416.72	7/2+
		2692.2 10	83 29	0.0	1/2+
2698		2356&		342.135	3/2+
		2698		0.0	1/2+
2708		2708		0.0	1/2+
2709.9		1384.0 5	16 4	1325.94	3/2+
		1421.0 5	100 14	1288.89	
2714.5		1374.6 8	25 7	1340.67	1/2,3/2
		1667.9 7	55 13	1046.76	(7/2+)
		1860.5 10	47 18	853.94	7/2+
		2297.7 7	100 17	416.72	7/2+
2730		2730	100	0.0	1/2+
2733.2		687.1 10	40 14	2045.29	(3/2+)

From ENSDF

$^{111}_{48}Cd_{63}$-11

Adopted Levels, Gammas (continued)

γ(^{111}Cd) (continued)

E_i(level)	J^π_i	E_γ †	I_γ †	E_f	J^π_f	Mult. ‡
2733.2		758.8 8	19 7	1971.80	$7/2^-$	
		993.6 8	43 17	1739.73	$3/2^+$	
		1387.2 5	51 10	1346.19		
		1617.5 5	45 15	1115.56	$3/2^+$	
		2390.9 6	100 20	342.135	$3/2^+$	
2740.1	(19/2)	592.7 6	86 28	2147.5	$(17/2^-)$	D+Q
		887.9 4	100 28	1852.1	$19/2^-$	
2756		2756	100	0.0	$1/2^+$	
2768.4		2351.4 7	87 24	416.72	$7/2^+$	
		2426.9 9	33 8	342.135	$3/2^+$	
		2768.2 9	100 28	0.0	$1/2^+$	
2775		2775	100	0.0	$1/2^+$	
2788		2446&		342.135	$3/2^+$	
		2788		0.0	$1/2^+$	
2831		2489&		342.135	$3/2^+$	
		2831		0.0	$1/2^+$	
2847.0	$23/2^-$	994.9 5	100	1852.1	$19/2^-$	E2
2858		2858	100	0.0	$1/2^+$	
2860.1		664.4 4	2.4 4	2195.7	$(15/2^+)$	
2950.88		2083.1 8	39 10	866.60	$3/2^+$	
		2330.7 1	5.8 20	620.18	$5/2^+$	
		2608.0 10	31 11	342.135	$3/2^+$	
		2705.1 10	100 37	245.390	$5/2^+$	
2977.9		1930.7 10	50 19	1046.76	$(7/2^+)$	
		2124.0 5	100 19	853.94	$7/2^+$	
3039		3039	100	0.0	$1/2^+$	
3059		2814	133 56	245.390	$5/2^+$	
		3059	100	0.0	$1/2^+$	
3076.11		1410.5 9	10 3	1666.00		
		1958.0 5	12 4	1118.41	$7/2^+$	
		2059.0 4	57 9	1016.76	$3/2^+$	
		2455.8 5	71 24	620.18	$5/2^+$	
		2659.6 6	100 19	416.72	$7/2^+$	
3100.6		360.5 4	100	2740.1	(19/2)	
3113		3113		0.0	$1/2^+$	
3126.4		1786.5 10	6.6 25	1340.67	1/2,3/2	
		2373.2 8	26 8	752.81	$5/2^+$	
		2506.1 10	100 27	620.18	$5/2^+$	
3131		2886	31 4	245.390	$5/2^+$	
		3131	100	0.0	$1/2^+$	
3147		3147		0.0	$1/2^+$	
3173		3173	100	0.0	$1/2^+$	
3185		3185	100	0.0	$1/2^+$	
3207		3207	100	0.0	$1/2^+$	
3230.3	$(23/2^+)$	490.2 9	100	2740.1	(19/2)	Q
3246		3246		0.0	$1/2^+$	
3259		3259	100	0.0	$1/2^+$	
3302		3302	100	0.0	$1/2^+$	
3323		3078	62.0 16	245.390	$5/2^+$	
		3323	100	0.0	$1/2^+$	
3351		3106	244 17	245.390	$5/2^+$	
		3351	100	0.0	$1/2^+$	
3362		3362	100	0.0	$1/2^+$	
3384		3384	100	0.0	$1/2^+$	
3394		3394	100	0.0	$1/2^+$	
3455		3455	100	0.0	$1/2^+$	
3467		3222	21.7 24	245.390	$5/2^+$	
		3467	100	0.0	$1/2^+$	
3483		3238	54 7	245.390	$5/2^+$	
		3483	100	0.0	$1/2^+$	
3498		3498	100	0.0	$1/2^+$	
3526		3281	378 27	245.390	$5/2^+$	
		3526	100	0.0	$1/2^+$	
3542		3542		0.0	$1/2^+$	
3553		3553	100	0.0	$1/2^+$	
3566		3566	100	0.0	$1/2^+$	
3573		3573	100	0.0	$1/2^+$	
3671		3671	100	0.0	$1/2^+$	
3691		3691	100	0.0	$1/2^+$	
3702		3702	100	0.0	$1/2^+$	
3710		3710	100	0.0	$1/2^+$	
3715		3715	100	0.0	$1/2^+$	
3717.4	$(27/2^+)$	616.8 3	100	3100.6		Q
3733		3733	100	0.0	$1/2^+$	
3740		3740	100	0.0	$1/2^+$	
3756		3756	100	0.0	$1/2^+$	
3763.0	$27/2^-$	916.0 3	100	2847.0	$23/2^-$	E2
3781		3781	100	0.0	$1/2^+$	
3801		3801	100	0.0	$1/2^+$	
3828		3583	136 20	245.390	$5/2^+$	
		3828	100	0.0	$1/2^+$	
3856		3514	101 15	342.135	$3/2^+$	

$^{111}_{48}$Cd$_{63}$-12

Adopted Levels, Gammas (continued)

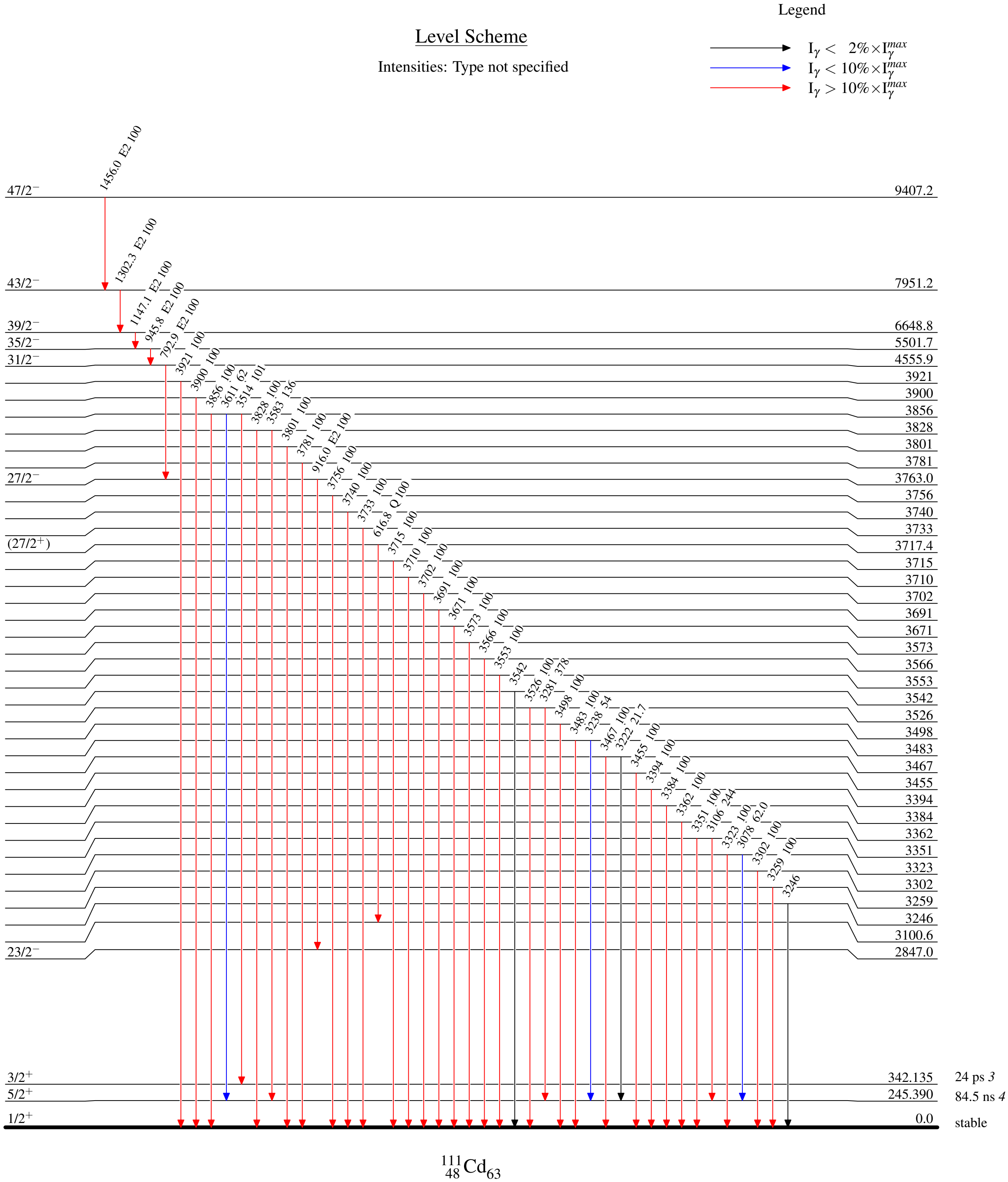
γ(^{111}Cd) (continued)

E$_i$(level)	J$^\pi_i$	E$_\gamma$†	I$_\gamma$†	E$_f$	J$^\pi_f$	Mult.‡
3856		3611	62 *12*	245.390	5/2$^+$	
		3856	100	0.0	1/2$^+$	
3900		3900	100	0.0	1/2$^+$	
3921		3921	100	0.0	1/2$^+$	
4555.9	31/2$^-$	792.9 *6*	100	3763.0	27/2$^-$	E2
5501.7	35/2$^-$	945.8 *3*	100	4555.9	31/2$^-$	E2
6648.8	39/2$^-$	1147.1 *5*	100	5501.7	35/2$^-$	E2
7951.2	43/2$^-$	1302.3 *5*	100	6648.8	39/2$^-$	E2
9407.2	47/2$^-$	1456.0 *8*	100	7951.2	43/2$^-$	E2

† Mainly from 1991NeZX in (n,n′γ).
‡ From ^{111}Cd(n,n′γ), unless otherwise noted.
# 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.
@ Multiply placed with undivided intensity.
& Placement of transition in the level scheme is uncertain.

$^{111}_{48}$Cd$_{63}$-13

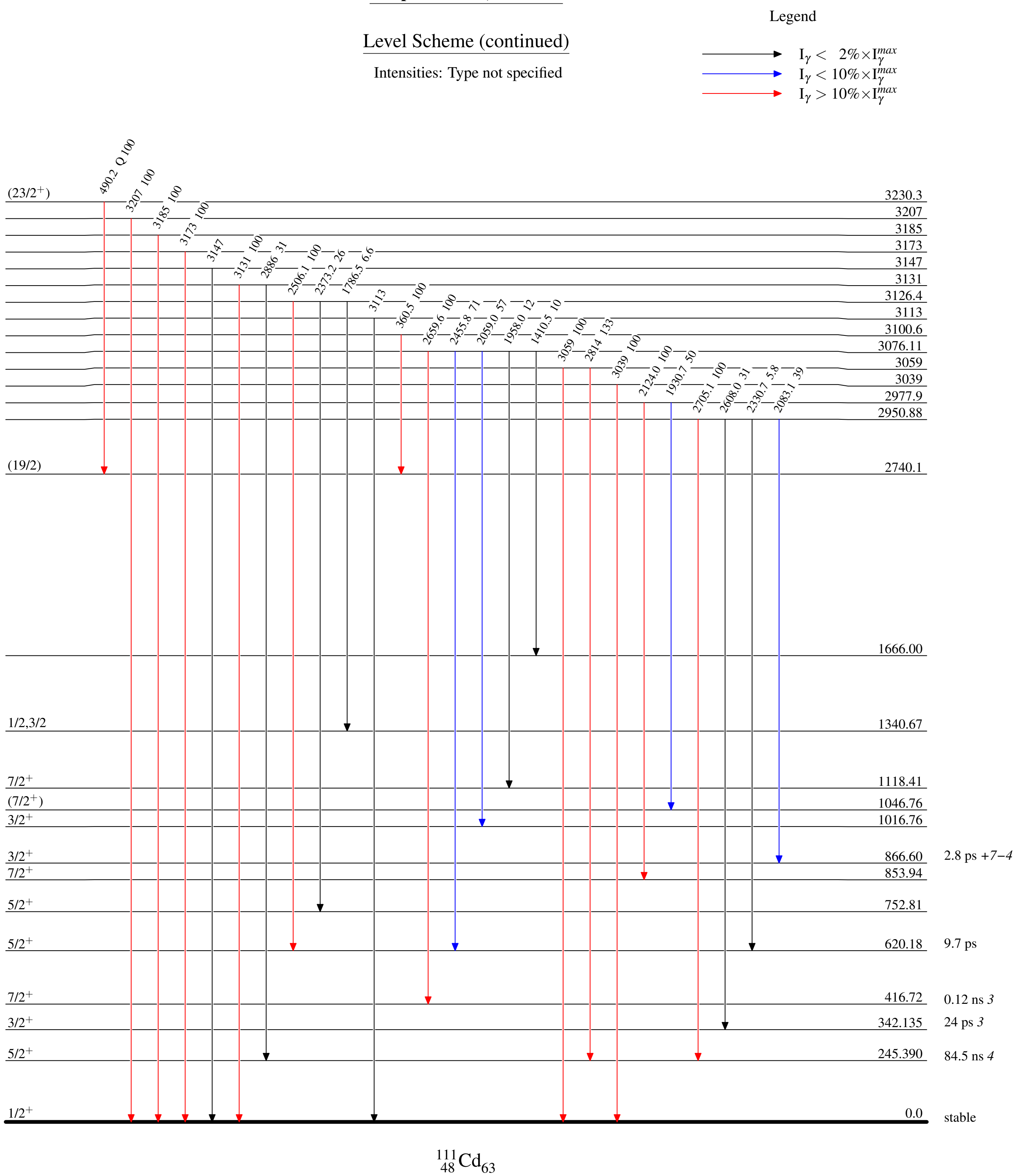
Adopted Levels, Gammas



Adopted Levels, Gammas

Level Scheme (continued)

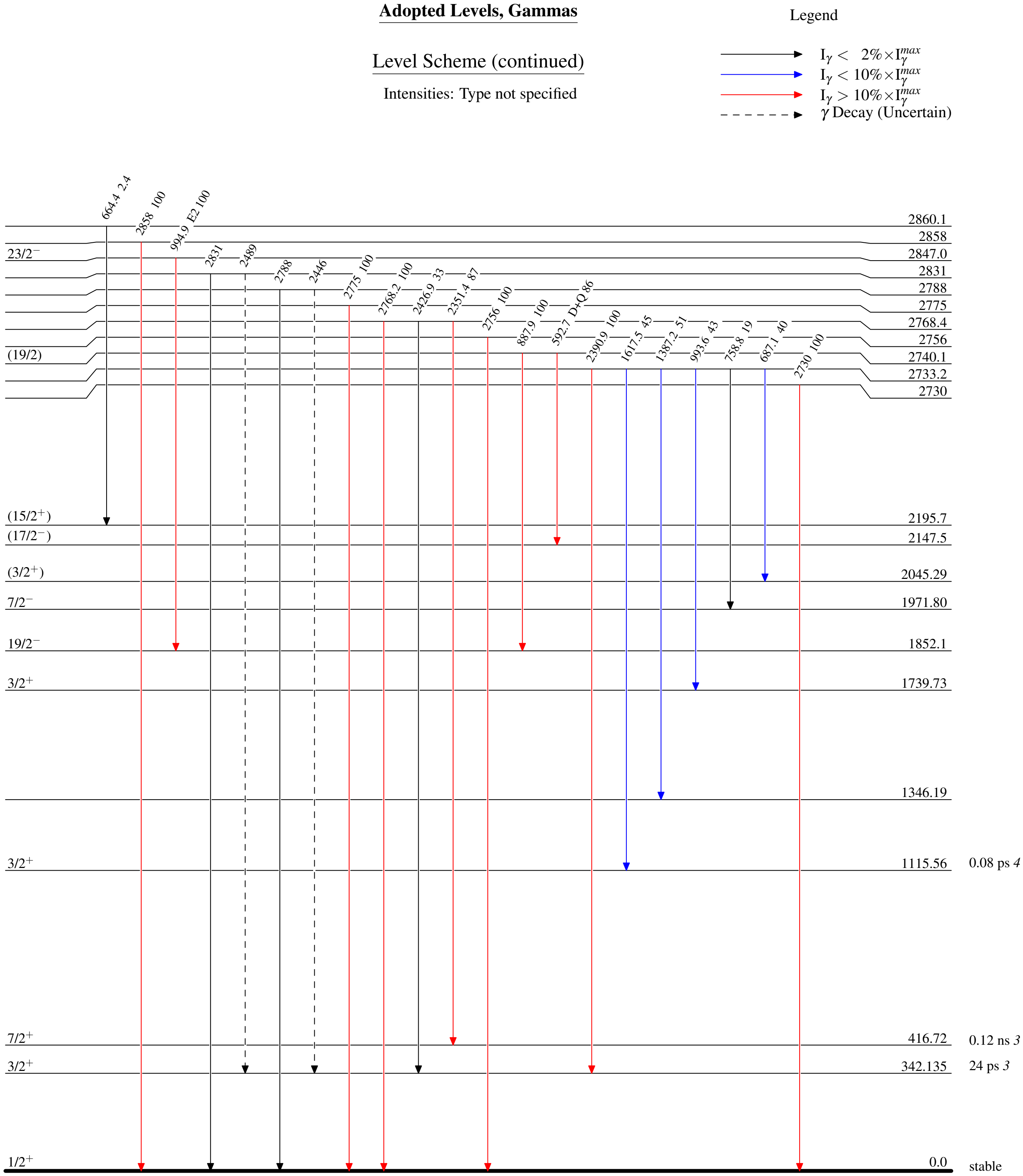
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

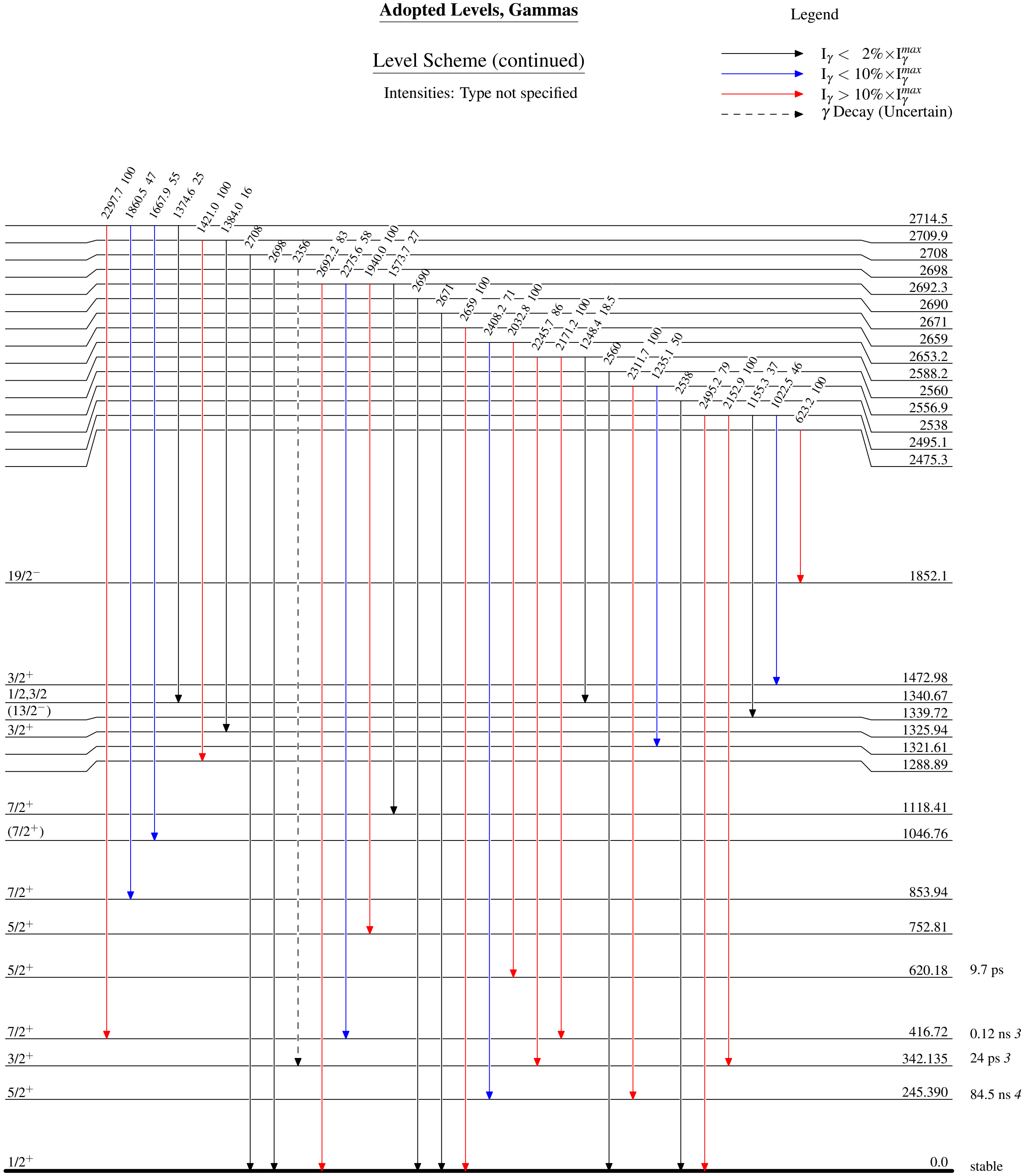


$^{111}_{48}Cd_{63}$

Adopted Levels, Gammas

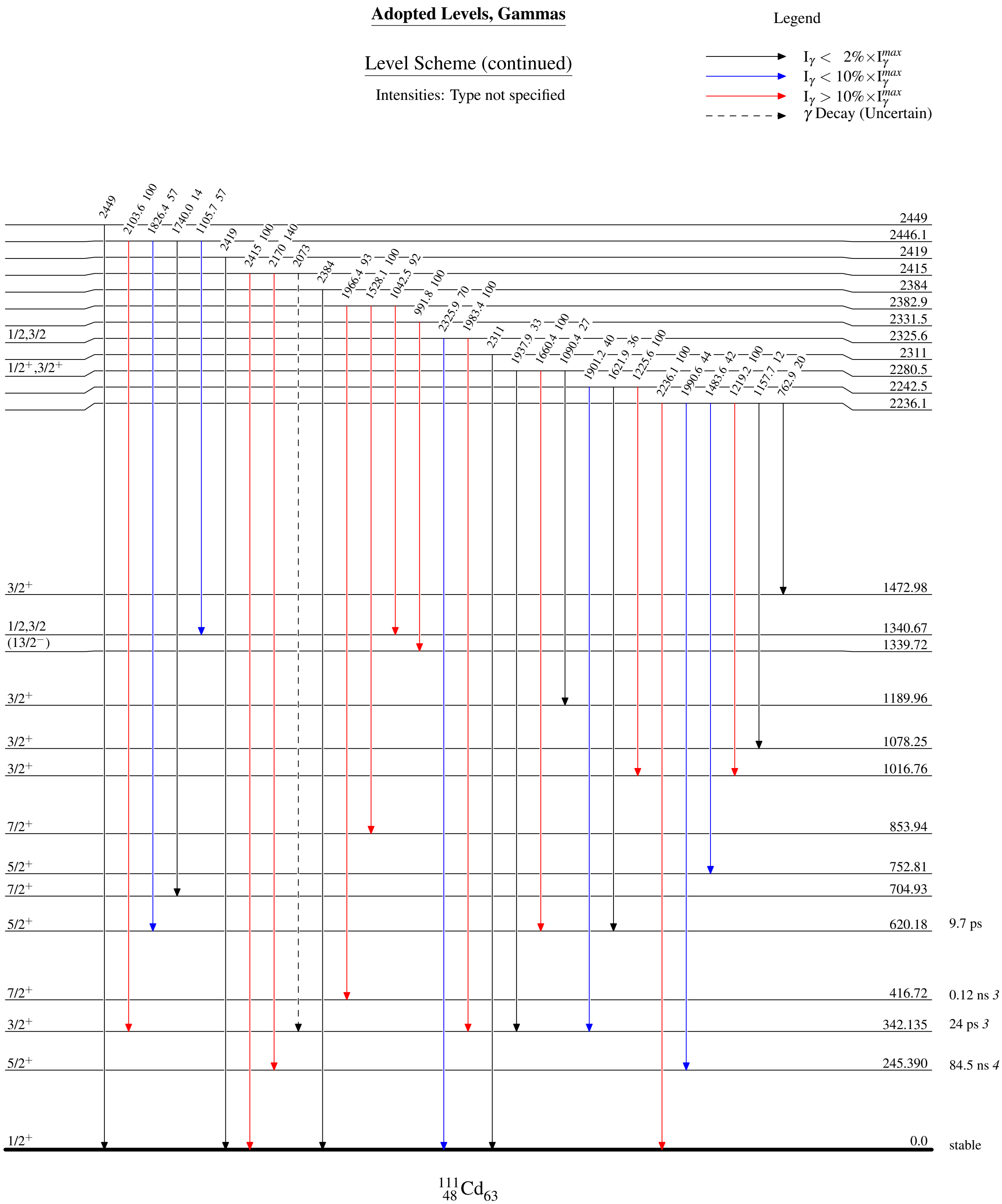
Level Scheme (continued)

Intensities: Type not specified

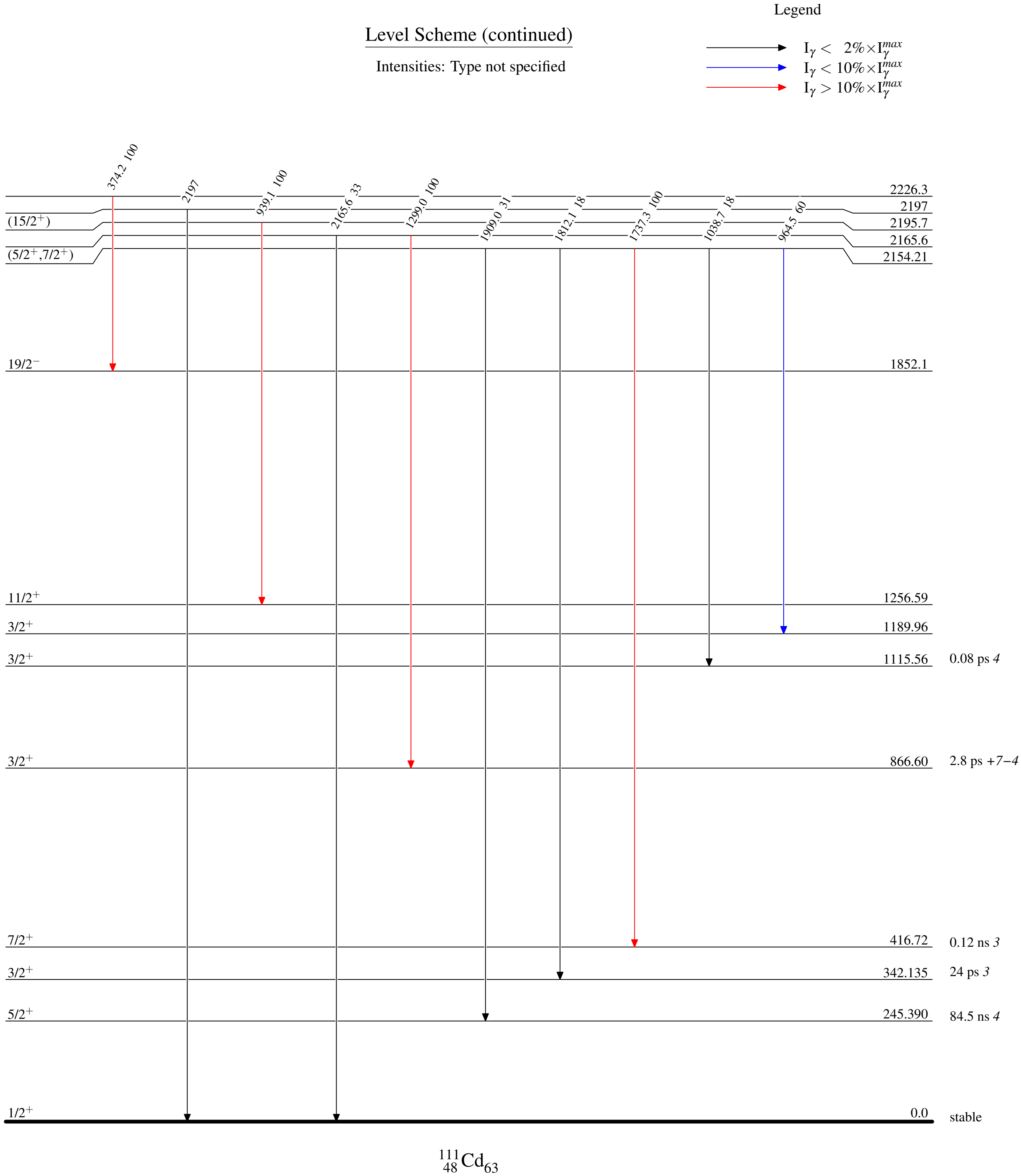


$^{111}_{48}Cd_{63}$

Adopted Levels, Gammas



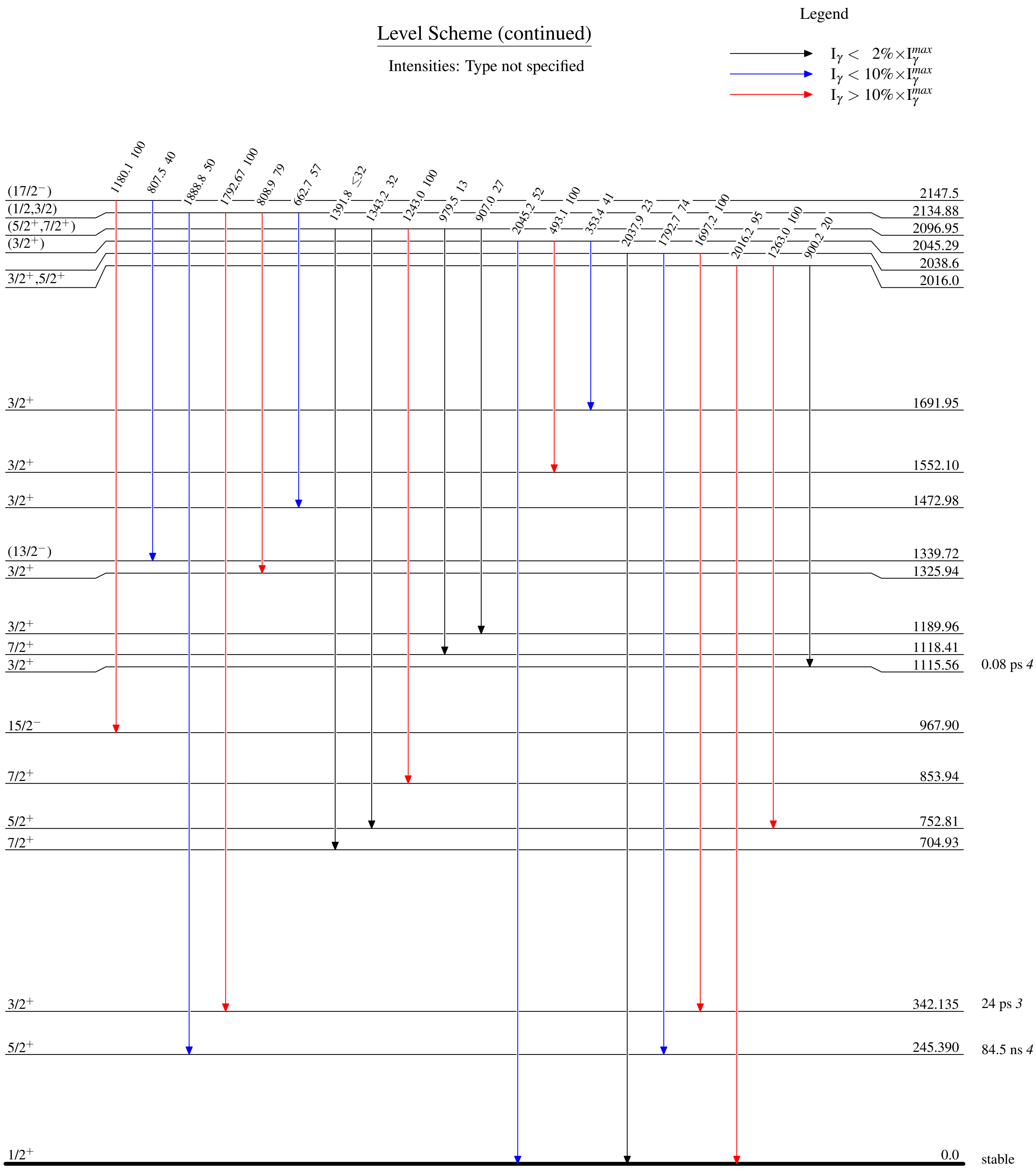
Adopted Levels, Gammas



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



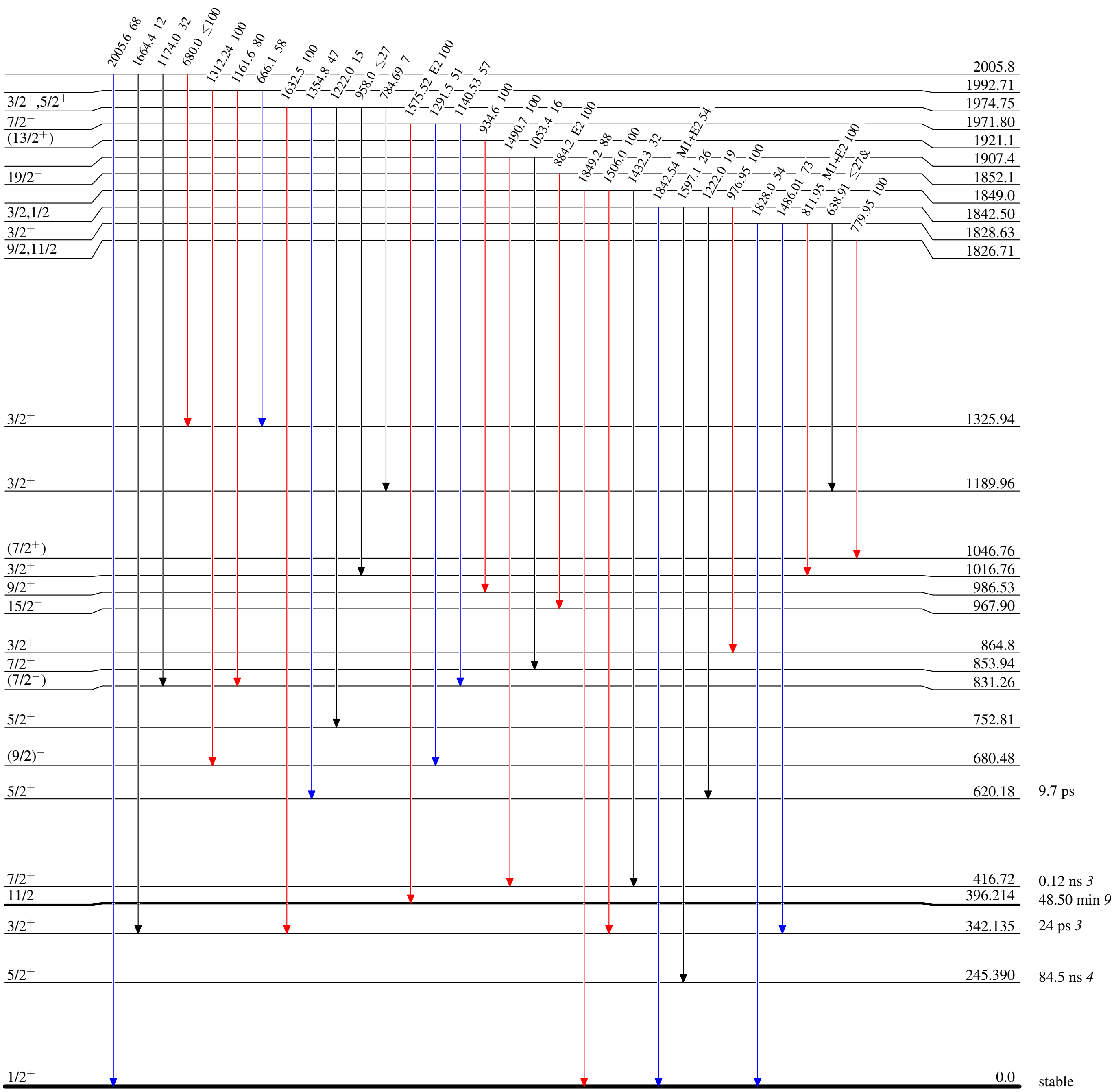
$^{111}_{48}Cd_{63}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{111}_{48}Cd_{63}$

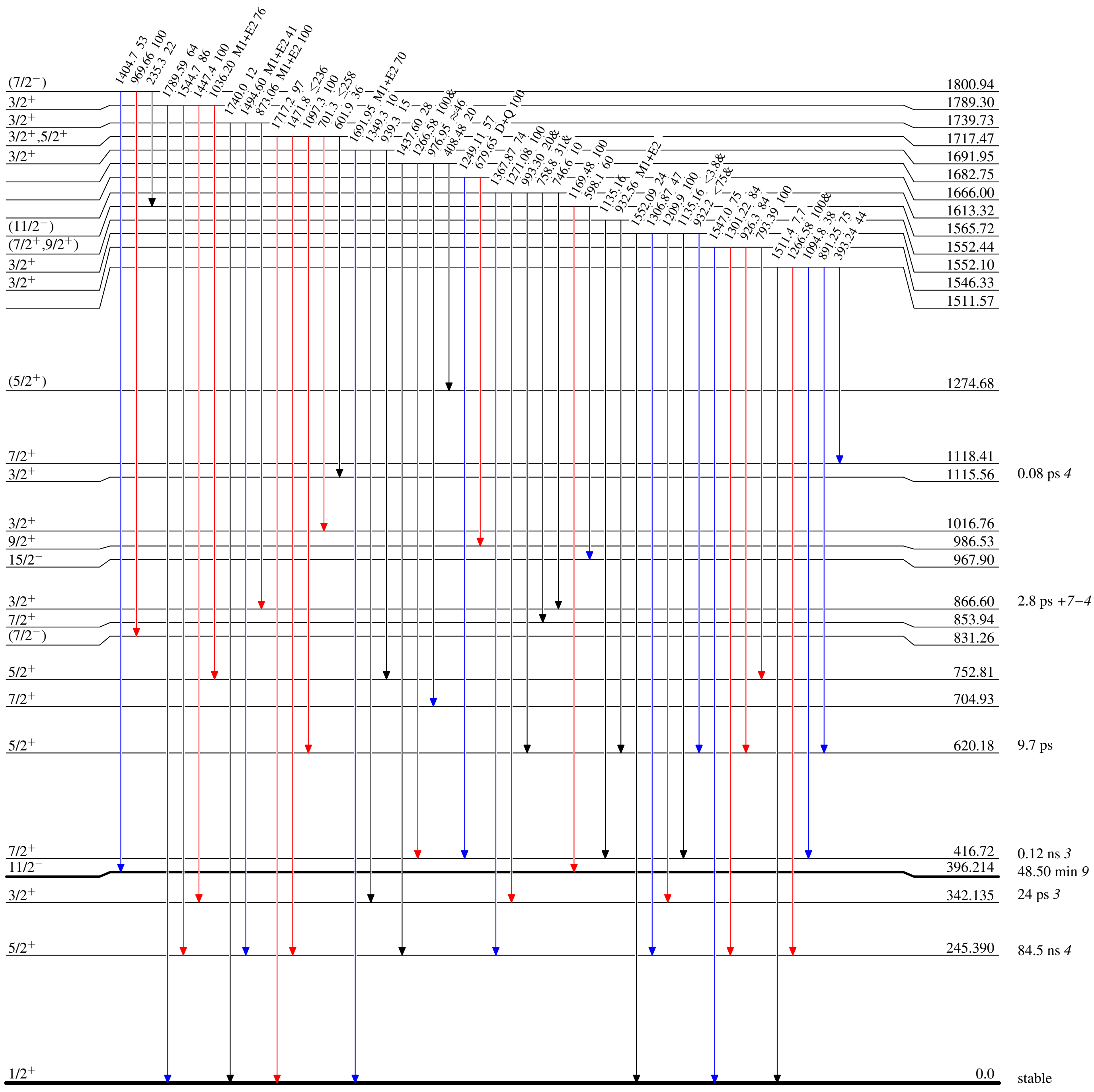
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{111}_{48}Cd_{63}$

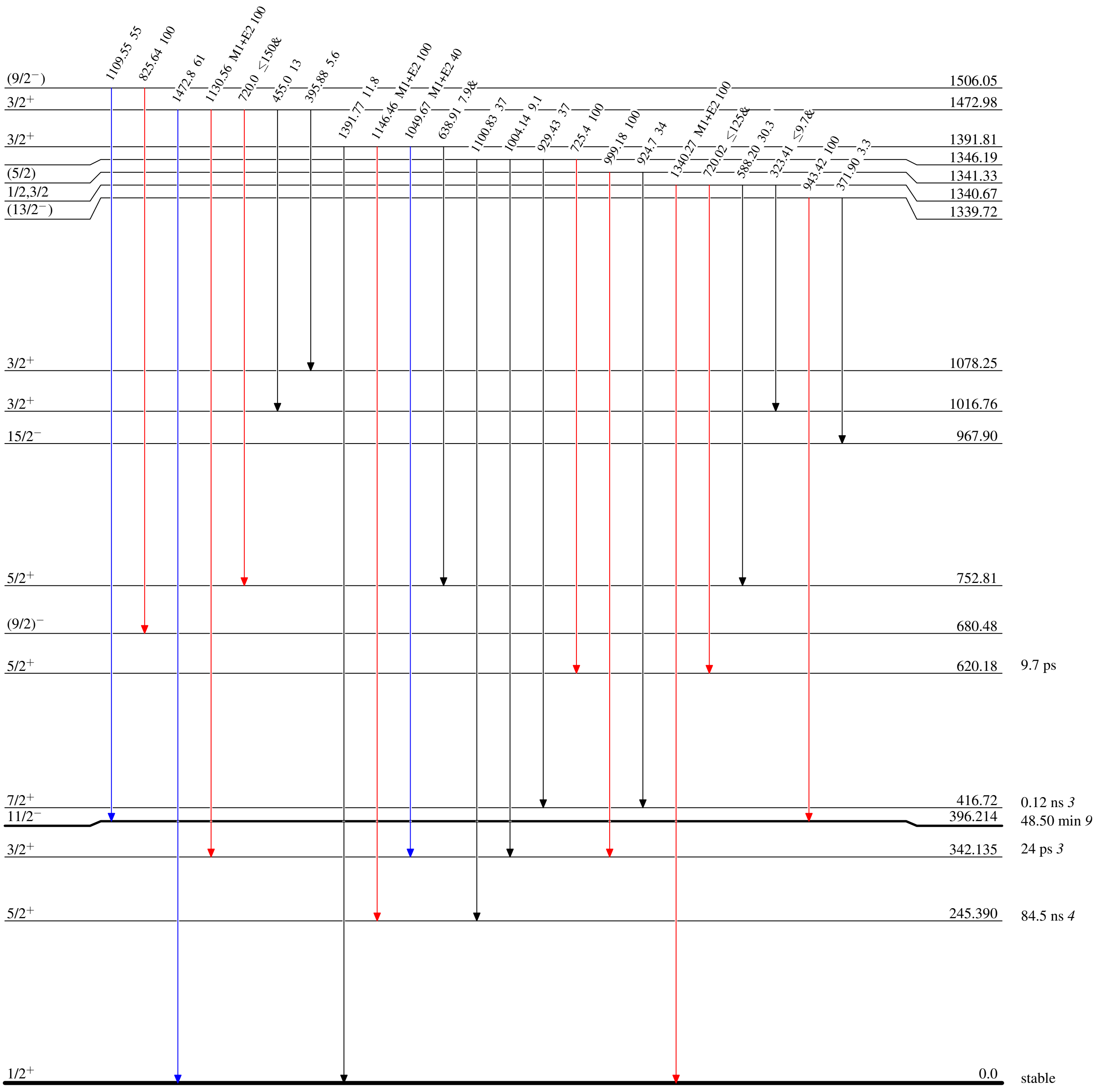
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

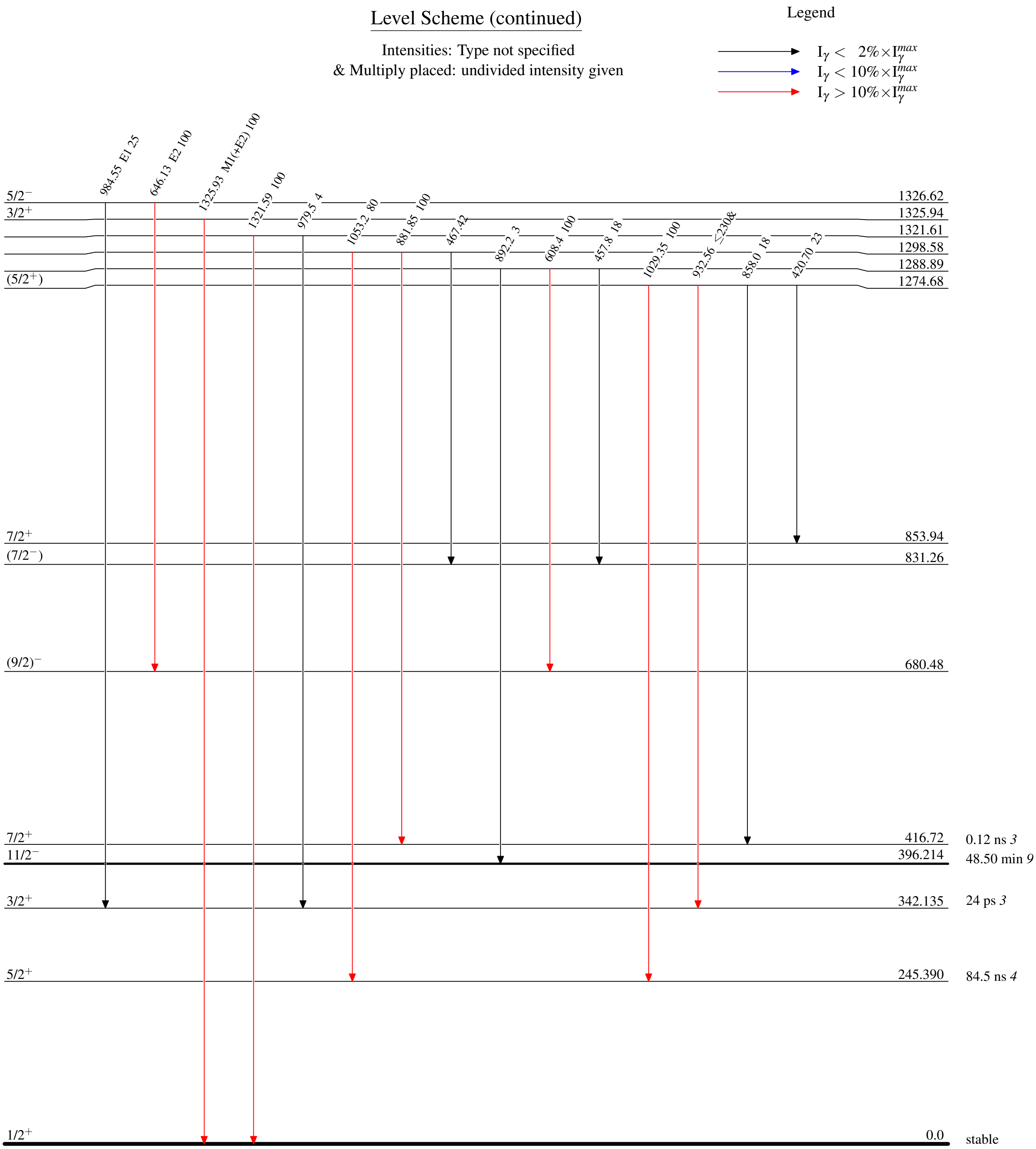


$^{111}_{48}Cd_{63}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given



$^{111}_{48}Cd_{63}$

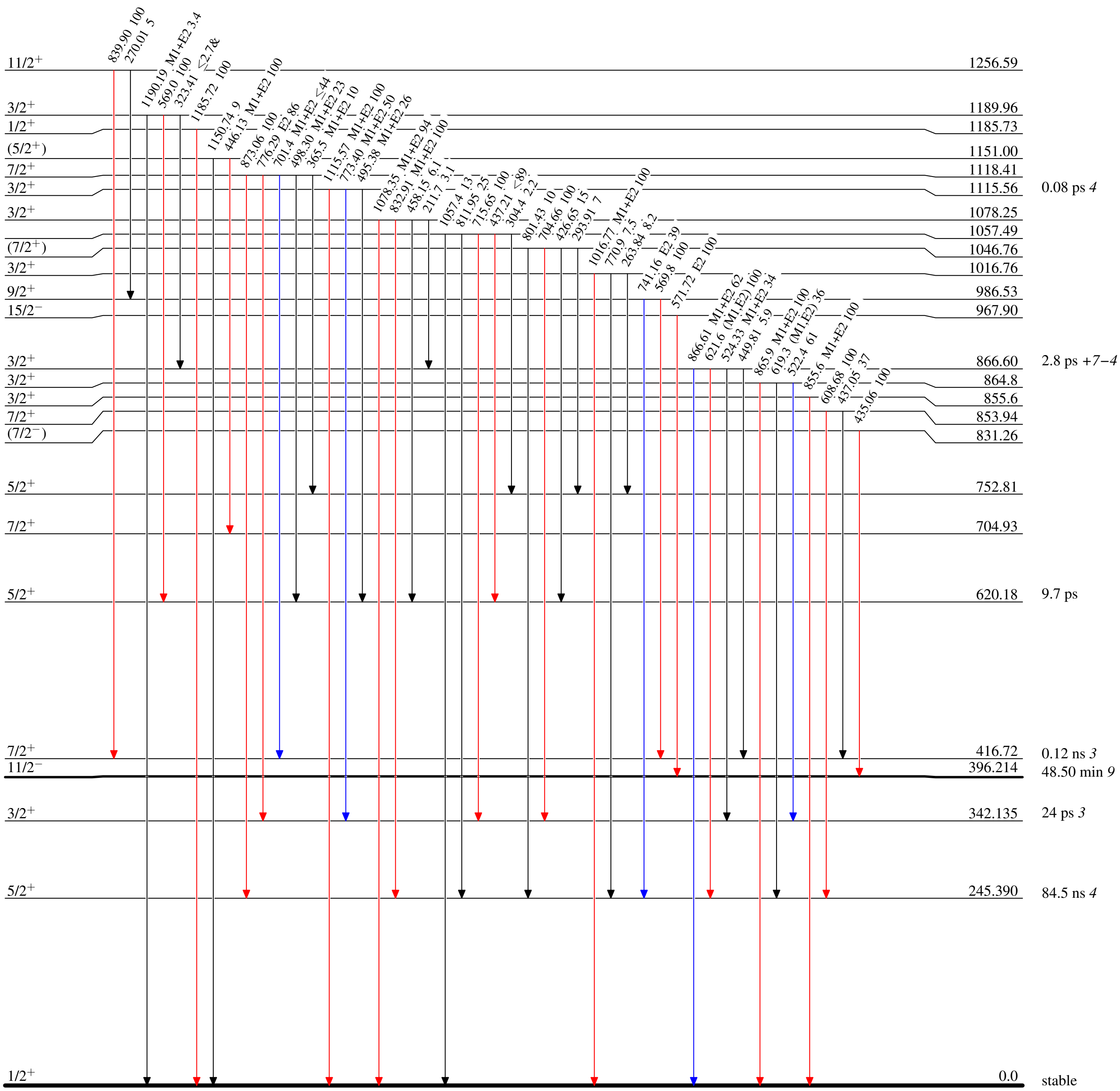
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified
& Multiply placed: undivided intensity given

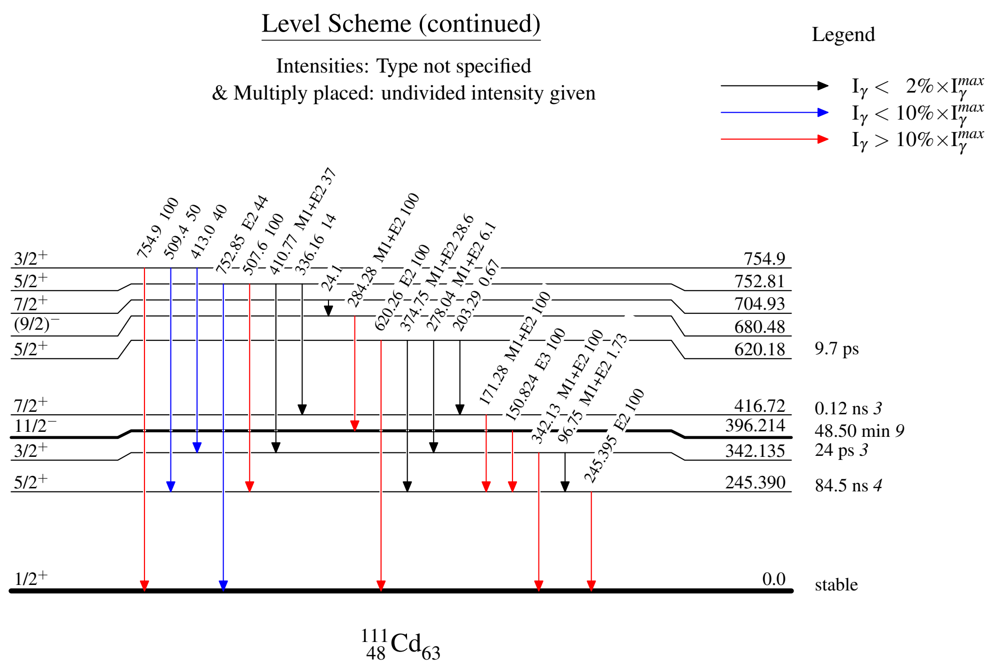
Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

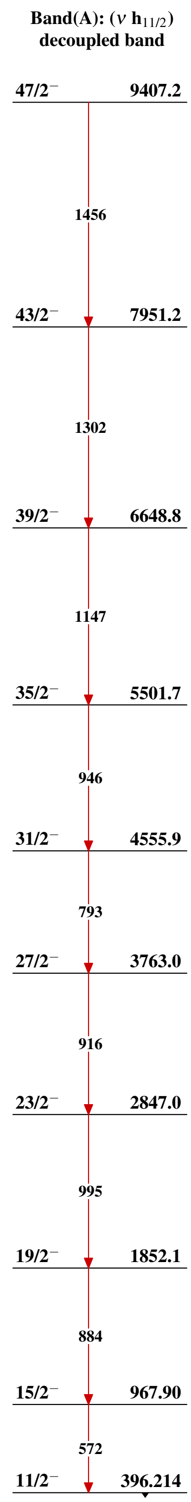


$^{111}_{48}Cd_{63}$

Adopted Levels, Gammas



Adopted Levels, Gammas



$^{111}_{48}Cd_{63}$