Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev	NDS 113,1315 (2012)	1-Aug-2011

Q(β^-)=−3878 *12*; S(n)=9915.7 *17*; S(p)=8917.8 *13*; Q(α)=−2866.3 *13* 2012Wa38
Note: Current evaluation has used the following Q record −3878 129917.3 *218919.8* *15*−2870 4 2011AuZZ.

^{110}Cd Levels

Cross Reference (XREF) Flags

A	^{110}Ag β^- decay (24.56 s)	H	^{110}Cd(e,e′)	O	^{109}Ag(p,p),(p,n) IAR
B	^{110}Ag β^- decay (249.83 d)	I	^{110}Cd(n,n′γ)	P	^{111}Cd(pol d,t),^{111}Cd(d,t)
C	^{110}In ε decay (69.1 min)	J	^{110}Cd(p,p′),(d,d′)	Q	^{110}Cd(γ,γ′)
D	^{110}In ε decay (4.92 h)	K	^{110}Cd(p,p′γ)	R	^{110}Cd(α,α′)
E	(HI,xnγ)	L	Coulomb excitation	S	^{114}Sn(d,^{6}Li)
F	^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)	M	^{112}Cd(p,t)		
G	^{109}Ag(^{3}He,d)	N	^{108}Pd(^{3}He,n)		

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
0.0[d]	0+	stable	ABCDEFGHIJKLMN PQRS	
657.7623[d] *11*	2+	5.42 ps *16*	ABCDEFGHIJKLM PQR	μ=0.52 *4* Q=−0.40 *3* B(E2)↑=0.427 *3* J^π: L((pol d,t),(d,t))=L(α,α′)=L(p,t)=2; 657.7600γ E2 to 0+. $T_{1/2}$: Weighted average of 6.4 ps *4* (recoil-distance technique in 1993Pi16), 6.0 ps *8* (recoil-distance technique in 2001Ha09) and 5.36 ps *9* (extracted from the adopted B(E2)↑=0.427 *3*). μ: Weighted average of 0.57 *11* (using dynamic field technique (1980Br01)), 0.50 *4* (reevaluated value based on the strength of the hyperfine field and the precession angle given at nuclear orientation measurement in ^{110}Ag β^- decay (249.83 d) (1978Wa07), using adopted $T_{1/2}$=5.42 *16*), 0.62 *14* (using recoil gas into vacuum technique in Coulomb excitation (1979LaZL)) and 0.50 *20* (reevaluated value from the reference within 1989Be22, using adopted $T_{1/2}$=5.42 *16*). Other: 0.81 *6* from transient filed technique in 2011Ch23. Q: Weighted average of −0.39 *4* (weighted average of −0.39 *6* (1977Ma41), −0.36 *8* (1976Es02) and −0.42 *10* (1971Be36) in Coulomb excitation) and −0.40 *4* (deduced from fits to the inelastic electron scattering cross sections within the framework of the anharmonic vibrational model in ^{110}Cd(e,e′) (1977Gi13)). Others: −0.55 *8* (or −0.31 *7* in 1971Ha08) and −0.24 *9* (relative to ^{114}Cd in 1970St17). B(E2)↑: Weighted average of 0.45 *4* (1991We15), 0.454 *43* (1977Gi13) from ^{110}Cd(e,e′), 0.427 *3* (weighted average of 0.415 *6* (1985Si01), 0.432 *6* (1972Be66 and 1971Be36) and 0.427 *4* (1976Es02), 0.44 *4* (1971Ha08), 0.467 *19* (1969Mi07), 0.50 *4* (1958St32), 0.41 *6* (1956Te26) and 0.436 *22* (relative to B(E2)↑(^{114}Cd) in 1970St17), in Coulomb excitation). Others: 0.459 (average of 0.474, 0.444, 0.460 and 0.456 in 1965Mc05) and 0.42 (1958Sh01).
1473.07[r] *3*	0+		A C EFG I K N p R	XREF: G(1470)N(1440)p(1474). J^π: E0 to g.s.; 815.31γ E2 to 2+; $\gamma\gamma(\theta)$ in ^{110}Ag β^- decay

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
				(24.56 s) is only consistent with J=0, with J(657 keV level)=2 (1972Ka34). B(E0; 0^+ to 0^+ g.s. level)/B(E2; 0^+ to 657 keV, 2^+ level)=0.027 *4* (1990Gi01, ^{110}In ε decay (69.1 min)).
1475.7900 *14*	2^+	0.68 ps *10*	ABCDEF HIJKL p	B(E2)↑=0.021 *3* XREF: p(1474). J^π: 1475.7792γ E2 to 0^+; 818.0244γ M1+E2 to 2^+. B(E2)↑: Weighted average of 0.021 *3* (1969Mi07) and 0.023 *7* (1961St02) in Coulomb excitation. Other: 0.014 *3* (1991We15) in ^{110}Cd(e,e′). $T_{1/2}$: From adopted B(E2)↑=0.021 *3* and γ branching. Others: 1.02 ps *22* (from B(E2)↑=0.014 *3* (1991We15) in ^{110}Cd(e,e′)), 0.8 ps *+4−2* (1995KuZX) and 0.74 *19* (1999Lo15) (using Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
1542.4441[d] *14*	4^+	0.80 ps *+17−16*	BCDEFGHIJKLM P R	XREF: G(1538)J(1543)L(1543)M(1543)R(1539). J^π: L(pol d,t)=4; 884.6781γ E2 to 2^+; band member. $T_{1/2}$: Weighted average of 0.7 ps *4* (2001Ha09) (from recoil-distance method, differential decay-curve analysis in (HI,xnγ)) and 0.82 ps +22−12 (1999Lo15) (from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)). Other: <2.1 ps (1993Pi16) from (HI,xnγ). μ: 5.4 *+14−13*. μ: From g−factor=1.36 +34 −33 deduced using the strength of the hyperfine field and the precession angle given at nuclear orientation measurement in ^{110}Ag β^- decay (249.83 d) (1978Wa07), and adopted $T_{1/2}$=0.80 *+17−16*. B(E4)↑: 0.5×10^{-3} *5* (1991We15) from ^{110}Cd(e,e′).
1731.31 *3*	0^+		A C FG IJK	XREF: G(1730)J(1735). J^π: E0 to g.s.; 1073.55γ E2 to 2^+; L(^{3}He,d)=1. B(E0; 0^+ to 0^+ g.s. level)/B(E2; 0^+ to 657 keV, 2^+ level)<0.049 (1990Gi01) from ^{110}In ε decay (69.1 min). B(E2; 0^+ to 657 keV, 2^+ level)×B(E2; 0^+ to 0^+ g.s. level)/B(E2; 0^+ to 657 keV, 2^+ level)×B(E2; 0^+ to 1475 keV, 2^+ level)<0.00029 (1990Gi01) from ^{110}In ε decay (69.1 min). B(E0; 0^+ to 1473 keV, 0^+ level)/B(E2; 0^+ to 657 keV, 2^+ level)<7.2 (1990Gi01) from ^{110}In ε decay (69.1 min). B(E0; 0^+ to 1473, 0^+ level)/B(E2; 0^+ to 1475 keV, 2^+ level)<0.042 (1990Gi01) from ^{110}In ε decay (69.1 min).
1783.496[r] *15*	2^+	0.8[&] ps *+3−2*	ABCDEF HIJK N QR	XREF: N(1770)Q(1790)R(1785). J^π: 1783.49γ E2 to 0^+; 1125.709γ M1+E2 to 2^+; band member; γγ(θ) in ^{110}Ag β^- decay (24.56 s) is only consistent with J=2, with J(657 keV level)=2 (1972Ka34). B(E2)↑=0.005 *3* (1990We08) from ^{110}Cd(e,e′).
1809.48? *9*	4^+		H	E(level),J^π: From ^{110}Cd(e,e′). Eγ=1151.9 keV was assigned in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02) to depopulate the 1809.66-keV state (J^π=(2^+)). However, this level was not observed in 1992Ku01, where it was stated that this γ-ray belongs to ^{111}Cd.
2078.548[k] *11*	3^-	0.7 ps *+4−2*	ABCDEFG IJKL R	XREF: G(2076)R(2076). J^π: From L(α,α′)=3; 1421.06γ E1 to 2^+. $T_{1/2}$: From Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1995KuZX and 1999Lo15).

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J^{π}	$T_{1/2}$	XREF	Comments
				Other: 0.46 ps $+15-9$ in ^{110}Cd(n,n′γ) (2001Co01) (using Doppler shift attenuation method). B(E3)↑=0.11 *1* (weighted average of 0.10 *2* (from 1965Mc05, under assumption that only direct E3 excitation is involved) and 0.115 *13* (1985Fe05) in Coulomb excitation). Other: 0.63 (1963Ha20) in ^{110}Cd(α,α′).
2078.80 *5*	0^+		A C F I K P	XREF: P(2081). J^{π}: E0′s to 0^+; 295.30γ E2 to 2^+; γγ(θ) in ^{110}Ag β^- decay (24.56 s) is only consistent with J=0, with J(657 keV level)=2 (1972Ka34).
2162.8015 *15*	3^+	0.8[&] ps $+6-2$	BCDEF IJK P	XREF: J(2164)P(2163). J^{π}: 1505.0280γ M1+E2 to 2^+; 620.3553γ M1+E2 to 4^+.
2184[#] *2*	(1^-)[#]		J	
2198[‡] *2*	$2^+,3^+$[‡]		P	
2220.0683 *14*	4^+	0.7[&] ps $+3-2$	B DEF HIJK P R	XREF: R(2221). J^{π}: 677.6217γ M1+E2 to 4^+; 744.2755γ E2 to 2^+. B(E4)↑=6.2×10^{-3} *16* (1991We15) from ^{110}Cd(e,e′).
2250.554[r] *11*	4^+	0.6[&] ps $+5-2$	B DEF HIJK	J^{π}: 467.01γ E2 to 2^+; 708.133γ M1+E2 to 4^+; band member.
2287.63 *11*	2^+	0.29[&] ps $+7-5$	ABCD FG IJK P	XREF: G(2279)J(2288)P(2288). J^{π}: 1629.65γ E2(+M1) to 2^+; assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t) and ^{110}Cd(p,p′),^{110}Pd(d,d′); L(^{3}He,d)=(1).
2331.92 *4*	$(0)^+$		A C FG IJK P	XREF: G(2346)J(2330)P(2333). J^{π}: 1674.15γ to 2^+ and the absence of γ′s to 0^+; L(d,t)=0.
2355.792 *19*	2^+	0.35[&] ps $+12-7$	BC FG IJK P	XREF: G(2346)J(2357)P(2357). J^{π}: L(^{3}He,d)=(1); 624.47γ E2 to 0^+.
2365[‡] *2*	2^+[‡]		P	
2377[#] *2*	4^+[#]		J	
2381 *2*			P	E(level): From ^{110}Cd(p,p′),(d,d′).
2385[#] *2*	(2^+)[#]		J	
2405[#] *2*	$(0^+,2^-)$[#]		J	
2432[#] *2*	2^+[#]		J P	J^{π}: From L((pol d,t),(d,t))=2.
2433.248 *25*	3^+		BC F I	J^{π}: 957.47γ M1+E2 to 2^+; 890.7γ to 4^+.
2451[#] *2*	[#]		J	E(level): From ^{110}Cd(p,p′),(d,d′).
2477.41 *5*	2^+		C G I P R	XREF: R(2475). J^{π}: 746.19γ E2 to 0^+.
2479.9339[d] *25*	6^+	0.6 ps *4*	B DEF I M	J^{π}: L(p,t)=(6); 937.485γ E2 to 4^+; band member. $T_{1/2}$: Using recoil-distance method, differential decay-curve analysis in (HI,xnγ) (2001Ha09). Others: 0.40 ps $+15-9$ (in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1999Lo15) using Doppler shift attenuation method), 0.2 ps $+8-1$ (in ^{110}Cd(n,n′γ) (2001Co01) using Doppler shift attenuation method), <2.1 ps (in (HI,xnγ) (1993Pi16) using recoil-distance method).
2481.606 *20*	$(2)^+$	0.46[&] ps $+23-12$	F IJ N	XREF: N(2490). J^{π}: 402.84γ (E1) to 3^-; 1823.84γ M1+E2 to 2^+.

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
2539.691[k] *6*	5⁻	0.60 ps *+24−14*	B DEFG IJ R	XREF: R(2544). $T_{1/2}$: Weighted average of 0.6 ps *+4−2* (in ^{110}Cd(n,n′γ) (2001Co01), using Doppler shift attenuation method) and 0.6 ps *+3−2* (in ^{108}Pd(α,2nγ), ^{110}Pd(α,4nγ) (1995KuZX and 1999Lo15), using Doppler shift attenuation method). Jπ: 460.85γ E2 to 3⁻; 997.256γ E1 to 4⁺; L(^{3}He,d)=4.
2561.284 *9*	4⁺	0.9[&] ps *+8−3*	B D F HIJ P	XREF: P(2563). Jπ: 1085.447γ E2 to 2⁺; 1018.94γ M1+E2 to 4⁺.
2566.47 *6*	(2⁻,3)		G I	XREF: G(2570). Jπ: 782.8γ and 1908.7γ to 2⁺; branching ratios would favor dipole transitions; the absence of γ′s to 0⁺ would argue against Jπ=1 and 2⁺.
2633.20 *9*	2⁺	0.139[&] ps *+21−14*	C IJ P	Jπ: 1090.83γ to 4⁺; 1975.2γ E2+M1 to 2⁺; assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t) and ^{110}Cd(p,p′),(d,d′).
2649.95 *6*	1⁻	0.03[&] ps *1*	G IJ Q	XREF: G(2652). Jπ: 2649.92γ E1 to 0⁺. $T_{1/2}$: Other: 0.0203 ps *5* from ^{110}Cd(γ,γ′), deduced using ground state transition width Γ_0 and adopted branching ratios. Note that authors of 2005Ko32 only quote depopulating 2649.92γ, but not the 1176.8γ one resulting in $T_{1/2}$=0.0298 ps *8*.
2659.866[j] *7*	5⁻		B DEF IJ	Jπ: 1117.437γ E1 to 4⁺; 120.154γ M1(+E2) to 5⁻.
2662.13 *10*	0⁺		AB I P	Jπ: 2004.40γ E2 to 2⁺; direct population in ^{110}Ag β⁻ decay (24.56 s) (Jπ=1⁺); γγ(θ) in ^{110}Ag β⁻ decay (24.56 s) is only consistent with J=0, with J(657 keV level)=2 (1972Ka34). Note that L((pol d,t),(d,t))=2+4 would suggest Jπ=3⁺.
2705.669 *10*	(4)⁺		B F IJ	Jπ: 1163.19γ M1+E2 to 4⁺; from ^{111}Cd(pol d,t),^{111}Cd(d,t).
2707.397 *8*	(4)⁺		B F I P	Jπ: 1.60γ M1 to 3⁺; 1164.98γ M1(+E2) to 4⁺.
2757[#] *3*	2⁻[#]		G J	XREF: G(2754).
2758.25 *8*	(1,2,3)⁺	0.23 ps *+9−6*	I P	Jπ: 1282.45γ M1+E2 to 2⁺; 1⁺,2⁺ from ^{111}Cd(pol d,t),^{111}Cd(d,t).
2787.49 *4*	2⁺	0.028 ps *7*	C IJ P	Jπ: L((pol d,t),^{111}Cd(d,t))=2; 2129.52γ M1+E2 to 2⁺, 1314.25γ and 2788.37γ to 0⁺.
2793.441 *7*	(4)⁺		B F I	Jπ: 573.0γ M1+E2 to 4⁺; 630.62γ M1(+E2) 3⁺.
2813 *3*			P	E(level): From ^{111}Cd(pol d,t),^{111}Cd(d,t).
2834[‡] *3*	3⁺,4⁺[‡]		P	
2842.682 *10*	(5)⁻		B EF IJ	XREF: J(2840). Jπ: 182.83γ M1+E2 to 5⁻; 1300.233γ E1(+M2) to 4⁺; 409.36γ to 3⁻.
2869.144 *23*	1⁺,2⁺		C IJ P	Jπ: 2211.33γ M1+E2 to 2⁺; 2869.28γ to 0⁺; direct population in ^{110}In ε decay (69.1 min) (Jπ=2⁺).
2876.812[r] *10*	6⁺		B DEF IJ	Jπ: 626.256γ E2 to 4⁺; band member.
2879.185[f] *9*	7⁻	0.61 ns *8*	EF I	Jπ: 339.498γ E2 to 5⁻; 399.254γ E1(+M2) to 6⁺. $T_{1/2}$: Weighted average of 0.69 ns *42* (from recoil-distance measurement in (HI,xnγ) (1993Pi16)), 0.62 ns *14* (deduced using γγ(t) in

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J$^\pi$	T$_{1/2}$	XREF	Comments
				(HI,xnγ) (1994Ju04)), 0.60 ns *10* (from generalized centroid-shift method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)(1998Ko35)). Other: <0.87 ns in (HI,xnγ) (2001Ha09).
2895.948[j] *13*	6$^-$		EF I	J$^\pi$: 356.255γ M1 to 5$^-$; 415.9γ E1 to 6$^+$; band member.
2917.60 *7*	2$^+$,3,4$^+$		IJ P	XREF: J(2915). J$^\pi$: 356.38γ to 4$^+$; 1441.9γ to 2$^+$.
2926.7474 *16*	5$^+$		B D F I	J$^\pi$: 763.9424γ E2 to 3$^+$; 446.812γ M1+E2 to 4$^+$; 387.075γ to 6$^+$.
2938[‡] *3*	2$^+$[‡]		P	
2975.24 *4*	1$^+$,2$^+$		C G I P	XREF: G(2973)P(2972). J$^\pi$: 2317.41γ M1+E2 to 2$^+$; 2975.29γ to 0$^+$.
2984.46 *14*	2$^+$,3$^+$	0.11[&] ps *+20−5*	IJ R	XREF: J(2982)R(2984). J$^\pi$: 2326.9γ M1+E2 to 2$^+$; 905.7γ to 3$^-$; 1441.9γ to 4$^+$.
2984.48 *6*	(5$^-$)		F J P R	XREF: J(2982)P(2983). J$^\pi$: L((pol d,t),(d,t))=5; 1442.03γ D to 4$^+$.
2991[#] *3*	(5$^-$)[#]		J P	XREF: P(2993).
2993.63 *17*	(0$^+$)		I P	J$^\pi$: 1517.83γ to 2$^+$ in ^{110}Cd(n,n′γ).
2994.07 *8*	(3$^+$,4$^+$)		I	J$^\pi$: 1451.62γ to 4$^+$ in ^{110}Cd(n,n′γ).
3008.4? *7*	1,2$^+$		I	J$^\pi$: 2350.7γ to 2$^+$; 3008.3γ to 0$^+$.
3021[#] *3*	(1$^-$)[#]		J	
3029.077[k] *12*	7$^-$	0.30 ns *10*	EF	J$^\pi$: 369.20γ E2 to 5$^-$; 149.88γ M1(+E2) to 7$^-$; band member. T$_{1/2}$: From centroid-shift method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1998Ko35).
3042.86 *8*	1$^+$	31 fs *4*	I PQ	XREF: P(3040)Q(3044). J$^\pi$: 3042.98γ M1 to 0$^+$. T$_{1/2}$: Deduced from the ground state transition width Γ_0 in ^{110}Cd(γ,γ') (2005Ko32) and the adopted branching ratios.
3052[‡] *3*	2$^+$[‡]		P	
3055.703[j] *12*	8$^-$	2.26 ns *10*	EF	J$^\pi$: 159.746γ E2 to 6$^-$; 176.517γ M1+E2 to 7$^-$; band member. T$_{1/2}$: Weighted average of 2.25 ns *10* (from centroid-shift method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1998Ko35)) and 2.4 ns *4* (from $\gamma\gamma$(t) in (HI,xnγ) (1994Ju04)).
3064.712 *13*	6$^+$		DEF IJ	XREF: J(3061). J$^\pi$: 844.667γ E2 to 4$^+$; 584.21γ M1+E2 to 6$^+$.
3073[‡] *3*	(1$^+$,2$^+$)[‡]		P	E(level): Probably unresolved doublet in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3074.971[r] *17*	6$^-$		EF	J$^\pi$: 535.269γ M1+E2 to (5$^-$); band member.
3078.381 *23*	1$^{(+)}$	187 fs *40*	C I Q	J$^\pi$: 3078.42γ (M1) to 0$^+$; 2420.51γ to 2$^+$; direct population in ^{110}In ε decay (69.1 min) (J$^\pi$=2$^+$). T$_{1/2}$: Deduced from the ground state transition width Γ_0 in ^{110}Cd(γ,γ') (2005Ko32) and the adopted branching ratios.
3101.88 *3*	2$^+$		C G IJ P	XREF: P(3098). J$^\pi$: 3102.00γ to 0$^+$; 1023.05γ to 3$^-$; assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3106[‡] *3*	3$^+$,4$^+$[‡]		P	

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
3118[#] *3*	2+[#]		J	
3121.62 *3*	6+		D F I	J^π: 581.93γ E1 to 5−; 560.32γ E2 to 4+.
3128.41 *7*	1+,2+		C P	XREF: P(3125). J^π: 3128γ to 0+; 1344.88γ to 2+; direct population in ^{110}In ε decay (69.1 min); assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3135.18 *7*	2+,3+		I	J^π: 1592.7γ to 4+; 2477.39γ M1+E2 to 2+.
3142 *2*	2+,3+,4+		J P	E(level): Weighted average of 3141 *3* (from ^{111}Cd(pol d,t),^{111}Cd(d,t)) and 3143 *3* (from ^{110}Cd(p,p′),(d,d′)). J^π: From ^{111}Cd(pol d,t),^{111}Cd(d,t).
3148[‡] *3*	0+[‡]		P	
3171.19 *20*	2+,3+,4+		G I P	J^π: From ^{111}Cd(pol d,t),^{111}Cd(d,t); 2513.4γ to 2+.
3183[#] *3*	(4+)[#]		J P	XREF: P(3179).
3184.53 *3*	5−,6−		F	J^π: 644.82γ M1+E2 to 5−.
3187.337[u] *21*	8+	55[b] ps *6*	DEF	J^π: 707.40γ E2 to 6+.
3193.40 *4*	(3)+		C I P	XREF: P(3190). J^π: 1+,2+,3+ in ^{111}Cd(pol d,t),^{111}Cd(d,t); 1030.0γ to 3+ and 1410.08γ to 2+. The absence of γ′s to 0+ would argue against J^π=1+ and 2+.
3199[#] *3*	(2−)[#]		J	
3203 *3*			P	E(level): Probably J^π=0+ component of unresolved doublet in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3208.69 *7*	2+,3+		C P	XREF: P(3203). E(level): Probably a component of unresolved doublet in ^{111}Cd(pol d,t),^{111}Cd(d,t). J^π: 1666.23γ to 4+; direct population in ^{110}In ε Decay (69.1 min) (J^π=2+); assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3239.56 *5*	6+		D F	J^π: 360.7γ E1 to 7−; 397.18γ E1 to (5)−; 1018.99γ to 4+.
3251[#] *3*	3−[#]		G J	XREF: G(3247).
3256.49 *14*	1+,2+,3+		I P	XREF: P(3253). J^π: 2598.69γ to 2+; assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3262[‡] *3*	1+,2+,3+[‡]		P	
3275.449[d] *17*	8+	0.70 ps *19*	DEF M	J^π: L(p,t)=(8); 795.5γ E2 to 6+; band member. $T_{1/2}$: Weighted average of 0.62 ps *21* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (using Doppler shift attenuation method (1995KuZX)) and 1.0 ps *4* in (HI,xnγ) (using recoil-distance method, differential decay-curve analysis (2001Ha09)). Others: <2.8 ps in (HI,xnγ) (1993Pi16), (using recoil-distance method), >0.83 ps in (1999Lo15) (using Doppler shift attenuation method).
3277.86 *14*	(1+)	37.4 fs *1*	IJ PQ	XREF: P(3279)Q(3281). J^π: 3281γ (M1) to 0+; 2620.00γ to 2+. $T_{1/2}$: From ^{110}Cd(γ,γ′) (2005Ko32), by assuming that only 3281γ depopulate this level.
3298.13 *20*	1−	134 fs *12*	IJ Q	XREF: J(3302). J^π: 3298.1γ D to 0+; 2640.1γ to 2+; assignment in ^{110}Cd(p,p′), ^{110}Cd(d,d′). $T_{1/2}$: From ^{110}Cd(γ,γ′) (2005Ko32), by assuming that

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
				only 3298γ depopulate this level.
3314.334 *24*	2^+		C IJ P	XREF: J(3309)P(3309). J^π: 1235.67γ to 3^-; 1583.18γ to 0^+; 1151.70γ to 3^+; direct population in ^{110}In ε Decay (69.1 min) ($J^\pi=2^+$).
3329 *17*	$(1^-,2^-,3^-)$		G	E(level): unresolved doublet in ^{109}Ag(^{3}He,d). J^π: L(^{3}He,d)=(2).
3334.85[r] *3*	7^-		EF	J^π: 456.0γ M1+E2 to 7^-; 279.142γ M1(+E2) to 8^-; band member.
3340[#] *3*	$(5^-,6^+)$[#]		J	
3340.83 *14*			I	
3345.810[f] *15*	9^-	49[b] ps *3*	EF M	J^π: 290.09γ M1+E2 to 8^-; 466.624γ E2 to 7^-; band member.
3353[‡] *3*	$2^+,3^+$[‡]		P	
3359.06 *20*	1^-	11.7 fs *2*	I Q	J^π: 3359.0γ E1 to 0^+. $T_{1/2}$: Deduced from Γ_0 in ^{110}Cd(γ,γ′) (2005Ko32).
3366.8 *4*	$1^+,2^+,3^+,4^+$		I P	XREF: P(3362). J^π: 2709.0γ to 2^+; assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3373[#] *3*	4^+[#]		J P	
3391.177 *16*	$(7)^-$		EF	J^π: 912.2γ (E1) to 6^+; 495.227γ M1+E2 to 6^-.
3403.29 *6*	(1^-)		C G I P	XREF: G(3410)P(3397). J^π: L(^{3}He,d)=2, 3403.48γ to 0^+; 2745.45γ to 2^+. However, assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t) suggests $J^\pi=1^+,2^+,3^+$.
3413[#] *3*	4^+[#]		J P	XREF: P(3412).
3427[‡] *3*	0^+[‡]		P	
3427.27[g] *11*	8^-	6.0[b] ps *6*	EF I	J^π: 371.6γ M1+E2 to 8^-; 548.2γ M1+E2 to 7^-; 531γ to 6^-; band member.
3439.719 *10*	8^+	0.45 ps *+28−17*	EF	J^π: 959.785γ E2 to 6^+; 164.26γ M1(+E2) to 8^+. $T_{1/2}$: From Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1995KuZX). Others: <2.8 ps in (HI,xnγ) (from recoil distance method (1993Pi16)) and >1.11 ps from Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)(1999Lo15).
3449.6 *3*	(1,2)		IJ P	XREF: J(3447)P(3442). J^π: 1^- in ^{110}Cd(p,p′),(d,d′), but $J^\pi=1^+,2^+$ in ^{111}Cd(pol d,t),^{111}Cd(d,t); 1973.8γ to 2^+.
3460[‡] *4*	$1^+,2^+$[‡]		G J P	
3466.39 *4*	1,2,3		C I	J^π: 2808.59γ to 2^+; direct population in ^{110}In ε Decay (69.1 min) ($J^\pi=2^+$).
3475.416 *24*	1^+	72 fs *4*	C IJ PQ	XREF: J(3476)P(3471). J^π: 3475.34γ (M1) to 0^+; direct population in ^{110}In ε Decay (69.1 min) ($J^\pi=2^+$). Note that $J^\pi=1^-$ in ^{110}Cd(p,p′),(d,d′). $T_{1/2}$: Deduced from Γ_0 in ^{110}Cd(γ,γ′) (2005Ko32), by assuming that only 3475γ depopulate this level.
3489[#] *3*	(0^+)[#]		J	
3492.64 *6*	$(5^-,6^-)$		F P	XREF: P(3487).

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)†	Jπ	T1/2	XREF	Comments
				Jπ: 952.9γ to 5−; 1012.70γ to 6+; assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3493.1 *4*			I	
3499‡ *4*	1+,2+‡		J P	
3510‡ *4*	1+,2+‡		P	
3517 *18*	0−,1−		G	E(level): From ^{109}Ag(^{3}He,d). Jπ: L(^{3}He,d)=0.
3525.34 *5*	6+		D F	Jπ: 460.85γ E2(+M1) to 6+; 1982.77γ to 4+; direct population in ^{110}In ε decay (4.92 h) (Jπ=7+).
3536‡ *4*	1+,2+,3+‡		J P	Jπ: Other:(0+) from ^{110}Cd(p,p′),^{110}Cd(d,d′).
3581 *4*			P	E(level): From ^{111}Cd(pol d,t),^{111}Cd(d,t).
3598.0 *7*	1+	71 fs *6*	I PQ	Jπ: 3596.9γ M1 to 0+. T1/2: Deduced using ground state transition width Γ_0 in ^{110}Cd(γ,γ′) (2005Ko32).
3604# *4*	3−#		J	
3611.041d *15*	10+	0.487 ns *24*	EF	μ=−1.0 *4* T1/2: Weighted average of 0.45 ns *10* (from generalized centroid shift method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1998Ko35)), 0.56 ns *3* (from recoil distance method in (HI,xnγ) (1993Pi16)), 0.49 ns *14* (from γγ(t) in (HI,xnγ)(1994Ju04)) and 0.464 ns *17* (using recoil-distance method, differential decay-curve analysis in (HI,xnγ) (2001Ha09)). Jπ: 335.596γ E2 to 8+; 265.218γ E1(+M2) to 9−. μ: From g-factor=−0.09 *3* in 1995Re15, deduced using the perturbed angular-correlation technique and T1/2=0.56 ns *3*, and the adopted T1/2=0.487 ns *24*.
3614 *18*	0−,1−		G P	E(level): From ^{109}Ag(^{3}He,d). Jπ: L(^{3}He,d)=0. Note that Jπ=1+,2+,3+ in ^{111}Cd(pol d,t),11Cd(d,t).
3634.57 *12*	2+		C J P	XREF: J(3632)P(3630). Jπ: Assignment in ^{110}Cd(p,p′),(d,d′); 1555.76γ to 3−; 1851.15γ to 2+.
3641.10m *4*	8−		EF	Jπ: 566.02γ (E2) to 6−; 761.93 M1+E2 to 7−.
3657‡ *4*	1+,2+,3+‡		G J P	
3668‡ *4*	1+,2+,3+‡		P	
3683.15k *5*	9−		EF	Jπ: 654.00γ E2 to 7−; 627.59γ M1+E2 to 8−; band member.
3686‡ *4*	1+,2+,3+‡		P	
3689# *4*	3−#		J	
3696			P	E(level): From ^{111}Cd(pol d,t),^{111}Cd(d,t).
3713			P	E(level): From ^{111}Cd(pol d,t),^{111}Cd(d,t).
3726.58 *18*	1,2+		C N	XREF: N(3730). Jπ: 3726.51γ to 0+; direct population in ^{110}In ε Decay (69.1 min) (Jπ=2+); L(^{3}He,n)=0+2.
3736# *4*	2+#		G J P	Jπ: Other: 1+,2+,3+ in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3760‡ *4*	1+,2+,3+‡		P	
3772.77 *4*	1+	12.8 fs *1*	C IJ PQ	XREF: J(3776)P(3773). Jπ: 3772γ M1 to 0+. Note, that 1+,2+,3+ in ^{111}Cd(pol d,t),^{111}Cd(d,t) and (2+,3−) ^{110}Cd(p,p′),(d,d′). T1/2: Deduced using ground state transition width Γ_0

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
				given in ^{110}Cd(γ,γ') (2005Ko32) and the adopted branching ratios.
3782.13[n] *4*	9^-		EF	J^π: 902.90γ E2 to 7^-; 726.43γ M1+E2 to 8^-.
3791.62 *5*	8^+		F	J^π: 914.50γ E2 to 6^+; 351.93γ M1(+E2) to 8^+; band member.
3808[‡] *4*	$2^+,3^+$[‡]		P	
3812 *19*	$1^-,2^-,3^-$		G	E(level): From ^{109}Ag(^{3}He,d). J^π: L(^{3}He,d)=2.
3823.247[j] *21*	10^-	3.5[b] ps *3*	EF J	XREF: J(3824). J^π: 767.532γ E2 to 8^-; 477.45γ M1 to 9^-; band member. $T_{1/2}$: Other: >2.1 ps from Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) ((1995KuZX) and (1999Lo15)).
3830[‡] *4*	$1^+,2^+,3^+$[‡]		J P	XREF: J(3824).
3854.1 *10*	(1^+)	46 fs *6*	J PQ	XREF: J(3847)P(3850). E(level): From ^{111}Cd(pol d,t),^{111}Cd(d,t). J^π: 3854γ (M1) to 0^+; $1^+,2^+,3^+$ assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t).
3861.9 *7*	(1^+)	13.3 fs *5*	PQ	XREF: P(3866). J^π: 3862γ (M1) to 0^+; $1^+,2^+,3^+$ assignment in ^{111}Cd(pol d,t),^{111}Cd(d,t). $T_{1/2}$: Deduced using ground state transition width Γ_0 given in ^{110}Cd(γ,γ') (2005Ko32) and adopted branching ratios.
3866[‡] *4*	$1^+,2^+,3^+$[‡]		P	
3888[‡] *4*	$2^+,3^+$[‡]		J P	XREF: J(3891).
3897 *19*	$0^-,1^-$		G	E(level): From ^{109}Ag(^{3}He,d). J^π: L(^{3}He,d)=0.
3924[‡] *4*	$1^+,2^+,3^+$[‡]		J P	XREF: J(3920).
3957 *4*	(2,3,4,5)		G J	XREF: G(3950). E(level): From ^{110}Cd(p,p$'$),^{110}Cd(d,d$'$). J^π: L(^{3}He,d)=(3,4).
3968[‡] *4*	$1^+,2^+,3^+$[‡]		P	
3988[‡] *4*	$1^+,2^+,3^+$[‡]		P	
3992.79[r] *15*	(9^-)		F	J^π: From 1113.60γ (E2) to 7^-; band member.
4005[‡] *4*	$1^+,2^+$[‡]		J P	XREF: J(3997).
4024[‡] *4*	0^+[‡]		P	
4042[‡] *4*	$1^+,2^+,3^+$[‡]		J P	XREF: J(4034).
4067 *5*			J	E(level): From ^{110}Cd(p,p$'$),^{110}Cd(d,d$'$).
4077.176[e] *23*	10^+	0.72 ps *+21−13*	EF	J^π: 801.724 E2 to 8^+. $T_{1/2}$: Weighted average of 0.69 ps *21* (from recoil-distance method in (HI,xnγ) (1993Pi16)) and 0.8 ps *+4−2* (from Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1999Lo15)). Others: >1.4 ps (from Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1995KuZX)), <3.5 ps (from recoil-distance Doppler shift technique, using the differential decay curve method in (HI,xnγ) (2001Ha09)).
4078[‡] *4*	$1^+,2^+,3^+$[‡]		P	

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J$^{\pi}$	T$_{1/2}$	XREF	Comments
4104[‡] *4*	1^{+},2^{+},3^{+}[‡]		J P	XREF: J(4098).
4128[‡] *4*	0^{+}[‡]		P	
4154[‡] *4*	1^{+},2^{+},3^{+}[‡]		J P	XREF: J(4143).
4171[‡] *4*	1^{+},2^{+},3^{+}[‡]		J P	XREF: J(4170).
4172.076[d] *18*	12^{+}	8.1 ps *3*	EF	J$^{\pi}$: 561.034γ E2 to 10^{+}; band member. T$_{1/2}$: Weighted average of 8.3 ps *4* (from recoil-distance method in (HI,xnγ) (1993Pi16)) and 7.9 ps *4* (from recoil-distance Doppler shift technique, using the differential decay curve method in (HI,xnγ) (2001Ha09)).
4172.706[f] *24*	11^{-}	2.08[b] ps *14*	EF	J$^{\pi}$: 826.893γ E2 to 9^{-}; band member. T$_{1/2}$: Other: 1.7 ps *+14−7* from Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1995KuZX and 1999Lo15).
4181 *4*			P	E(level): From ^{111}Cd(pol d,t),^{111}Cd(d,t).
4181.96[g] *9*	10^{-}	1.04[b] ps *14*	EF	J$^{\pi}$: 836.13γ M1+E2 to 9^{-}; 754.69γ E2 to 8^{-}; band member.
4200[#] *5*	2^{+}[#]		J	
4290	0^{+},1^{+}		N	E(level): From ^{108}Pd(^{3}He,n). J$^{\pi}$: L(^{3}He,n)=0.
4334.26[m] *7*	10^{-}		EF	J$^{\pi}$: 988.44γ M1 to 9^{-}; band member.
4421.62 *20*	(10^{+})		F	J$^{\pi}$: From 1075.8γ D to 9^{-}.
4438.37 *7*	9^{+}		EF	J$^{\pi}$: 1251.03γ M1+E2 to 8^{+}.
4559.12[k] *5*	11^{-}	1.7 ps *+14−7*	EF	J$^{\pi}$: 736.7γ M1 to 10^{-}; 877.0γ E2 to 9^{-}; band member. T$_{1/2}$: From Doppler shift attenuation method in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1995KuZX and 1999Lo15).
4620.2[u] *4*	10^{+}		EF	J$^{\pi}$: 1433.0γ to 8^{+}; band member.
4660	0^{+},1^{+}		N	E(level): From ^{108}Pd(^{3}He,n). J$^{\pi}$: L(^{3}He,n)=0.
4736.81[n] *19*	11^{-}		EF	J$^{\pi}$: 954.64γ E2 to 9^{-}; band member.
4888.27[e] *3*	12^{+}	1.39[b] ps *14*	EF	J$^{\pi}$: 811.093γ E2 to 10^{+}; band member. Other: J$^{\pi}$=12^{+} in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ), interpreted as a member of the g.s. band.
4930.26[j] *19*	12^{-}		E	J$^{\pi}$: 1107.0γ E2 to 10^{-}; 757.7γ M1 to 11^{-}; band member.
5026.32[d] *7*	14^{+}	1.39[b] ps *14*	EF	J$^{\pi}$: 854.25γ E2 to 12^{+}; band member. T$_{1/2}$: Other: <2.8 ps (from recoil-distance method, differential decay-curve analysis in (HI,xnγ) (2001Ha09)).
5092.56[g] *22*	12^{-}	3.3[b] ps *4*	E	J$^{\pi}$: 910.6γ E2 to 10^{-}; band member.
5113.6[o] *3*	12^{+}		E	J$^{\pi}$: 1036.7γ E2 to 10^{+}.
5212.7[m] *3*	12^{-}		E	J$^{\pi}$: 878.2γ E2 to 10^{-}; band member.
5215.5[u] *7*	(11^{+})		E	J$^{\pi}$: 595.3γ to 10^{+}; band member.
5248.93[f] *20*	13^{-}	<1.4[b] ps	E	J$^{\pi}$: 1076.1γ E2 to 11^{-}; band member.
5497.29 *25*	13^{-}		E	J$^{\pi}$: 937γ to 11^{-}; 1325.6γ to 12^{+}.
5500.00[s] *24*	13^{+}		E	J$^{\pi}$: 1327.9γ M1 to 12^{+}.
5675.5[p] *3*	14^{+}		E	J$^{\pi}$: 787.1γ E2 to 12^{+}.
5758.52[i] *18*	13^{-}		E	J$^{\pi}$: 828.0γ M1 to 12^{-}; 1198.9γ E2 to 11^{-}; 1586.8γ E1 to 12^{+}.
5789.95[q] *25*	14^{+}		E	J$^{\pi}$: 1617.9γ E2 to 12^{+}.

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
5856.3[e] 3	14+		E	Jπ: 967.7γ E2 to 12+; band member.
5892.9[u] 8	(12+,13+)		E	Jπ: 677.4γ to 11+; band member.
5914.5[o] 3	14+		E	Jπ: 1026.2γ E2 to 12+; band member.
5966.98[g] 21	14−		E	Jπ: 874.4γ E2 to 12−; band member.
5984.2[i] 4	14−		E	Jπ: 225.6γ M1 to 13−; band member.
6079.8[u] 10			E	
6100.87[d] 19	16+	0.250[a] ps 21	E	Jπ: 1074.6γ E2 to 14+; band member.
6101.4[j] 3	14−		E	Jπ: 1171.3γ E2 to 12−; band member.
6178.5[s] 3	15+		E	Jπ: 678.5γ E2 to 13+; 1152.1γ M1 to 14+; band member.
6181.45[f] 19	15−		E	Jπ: 1155.2γ E1 to 14+; 932.3γ E2 to 13−; band member.
6216.9[l] 3	(14)		E	Jπ: 1190.6γ D to 14+.
6354.3[i] 5	15−		E	Jπ: 370.0γ M1 to 14−; band member.
6489.9 6	(1)		Q	Jπ: 6490γ D to 0+.
6543.9 11	(15−)		E	Jπ: 1295γ to 13−.
6568.8 4	14		E	Jπ: From a probable ΔJ=0 *1542*.4γ d to 14+.
6575.6[p] 4	16+		E	Jπ: 900.1γ E2 to 14+; band member.
6584.5[v] 4	14		E	Jπ: From a very probable ΔJ=0 *1558*.1γ D to 14+.
6646.1[q] 6	(16+)		E	Jπ: 856.1γ E2 to 14+.
6671.1[k] 5	(15−)		E	Jπ: 1422γ to 13−, 1645γ to 14+; band structure.
6672.6[g] 3	16−		E	Jπ: 705.7γ E2 to 14−; band member.
6798.0[e] 6	16+		E	Jπ: 941.7γ E2 to 14+; band member.
6836.2[o] 6	16+		E	Jπ: 921.7γ E2 to 14+; band member.
6879.6[v] 4	15		E	Jπ: 295.0γ D to 14; band member.
6962.8[i] 6	16−		E	Jπ: 608.5γ M1 to 15−; band member.
6993.1[f] 3	17−		E	Jπ: 811.6γ E2 to 15−; 892.2γ E1 to 16+; band member.
7047.6[j] 4	16−		E	Jπ: 946.3γ E2 to 14−; band member.
7184.3[s] 5	17+		E	Jπ: 1005.8γ E2 to 15+; band member.
7281.0[v] 5	16		E	Jπ: 401.4γ D to 15; band member.
7285.8[l] 5	(16)		E	Jπ: 1068.9γ (Q) to (14); band member.
7325.3[d] 3	18+	0.159[a] ps 21	E	Jπ: 1224.5γ E2 to 16+; band member.
7341.6[h] 9			E	
7443.3[k] 4	(17−)		E	Jπ: 1261γ to 15−; 770.7γ to 16−; band member.
7523.2[g] 5	18−		E	Jπ: 850.6γ E2 to 16−; band member.
7575.2[i] 6	17−		E	Jπ: 612.4γ M1 to 16−; band member.
7594.2[h] 8			E	
7653.1[p] 5	18+		E	Jπ: 1077.4γ E2 to 16+; band member.
7759.0[v] 6	17		E	Jπ: 477.9γ D to 16; band member.
7777.9[h] 6			E	
7797.7 6	(17)		E	Jπ: 516.8γ D to 16.
7801.1[q] 12	(18+)		E	Jπ: 1155γ (E2) to (16+); band member.
7945.9[f] 4	19−		E	Jπ: 952.8γ E2 to 17−; band member.
7970.3[j] 7	18−		E	Jπ: 922.7γ E2 to 16−; band member.
8016.5[t] 6	17		E	Jπ: From band structure in (HI,xnγ).
8278.0[t] 4	18		E	Jπ: 952.8γ D to 18+; band member.
8292.3 5	(18)		E	Jπ: 967.0γ to 18+.
8372.8[h] 8			E	
8405.3[k] 11	(19−)		E	Jπ: 962γ E2 to (17−); band member.
8481.3[s] 11	(19+)		E	Jπ: 1297γ (E2) to 17+; band member.
8530.7[l] 7	(18)		E	Jπ: 1244.9γ to (16); band member.

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Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

E(level)[†]	J^π	$T_{1/2}$	XREF	Comments
8595.6[t] *5*	19		E	J^π: 317.6γ D to 18; band member.
8629.7[g] *6*	20⁻		E	J^π: 1106.5γ E2 to 18⁻; band member.
8648.3[d] *4*	20⁺	0.118[a] ps *21*	E	J^π: 1323.0γ E2 to 18⁺; band member.
8861.6[p] *5*	20⁺		E	J^π: 1208.5γ E2 to 18⁺; band member.
8967.9[t] *6*	20	0.127[c] ps *+12−15*	E	J^π: 372.3γ D to 19; band member.
9106.8[f] *5*	21⁻		E	J^π: 1160.9γ E2 to 19⁻; band member.
9430.4[t] *7*	21	0.070[c] ps *+10−12*	E	J^π: 462.5γ D to 20; band member.
9574.3[k] *15*	(21⁻)		E	J^π: From band structure in (HI,xnγ).
9962.3[d] *5*	22⁺	0.15 ps *5*	E	J^π: 1314.1γ E2 to 20⁺; band member. $T_{1/2}$: From Doppler shift attenuation method using the line-shape analysis in (HI,xnγ) (2011Ro01). The quoted uncertainty does not include additional systematics error in the stopping powers that may be as large as 20%. Note that $T_{1/2}$=0.11 ps *4* was deduced by including 1100γ. However, authors of 2011Ro01 stated that 1100-keV γ was not confirmed in their γγ-coincidence gated spectra (see XUNDL compilation dated on January 5th, 2011) and they reported $T_{1/2}$=0.15 ps *5*.
9971.7[g] *12*	22⁻		E	J^π: 1342γ E2 to 20⁻; band member.
9991.4[t] *12*	22	0.065[c] ps *+10−12*	E	J^π: 561γ D to 21; band member.
10228.7[p] *12*	(22⁺)		E	J^π: From band structure in (HI,xnγ).
10495.8[f] *12*	23⁻		E	J^π: 1389γ E2 to 21⁻; band member.
10665.2[t] *13*	23	0.064[c] ps *+12−16*	E	J^π: 673.8γ D to 22; band member.
11320.3[d] *6*	24⁺	0.19[a] ps *5*	E	J^π: 1358.0γ E2 to 22⁺; band member.
11451.2[t] *16*	24		E	J^π: 786γ D to 23; band member.
11454.8[g] *15*	(24⁻)		E	J^π: From band structure in (HI,xnγ).
12081.8[f] *15*	(25⁻)		E	J^π: From band structure in (HI,xnγ).
12763.3[d] *12*	26⁺	0.24 ps	E	J^π: 1443γ E2 to 24⁺; band member. $T_{1/2}$: Effective $T_{1/2}$ from Doppler shift attenuation method using the line-shape analysis in (HI,xnγ) (2011Ro01). 1443γ which depopulate 12763 keV J^π=26⁺ and 14206 keV J^π=28⁺ levels was used to deduce the effective $T_{1/2}$.
13032.8[g] *18*	(26⁻)		E	J^π: From band structure in (HI,xnγ).
14206.4[d] *16*	28⁺		E	J^π: 1443γ E2 to 26⁺; band member.
15356[@]		31 keV	O	E(p)(c.m)=6437 keV.
15586[@]		36 keV	O	E(p)(c.m)=6667 keV. Possible IAS of ^{110}Ag(236.9) level.
15644[@]		≈15 keV	O	E(p)(c.m)=(6725) keV.
15679[@]		17 keV	O	E(p)c.m)=6760 keV. Possible IAS of ^{110}Ag(338.9) level.
15737[@]		23 keV	O	E(p)(c.m)=6818 keV.Possible IAS of ^{110}Ag(381.2) level.
15780[@]		25 keV	O	E(p)(c.m)=6861 keV. Possible IAS of ^{110}Ag(424.7) level.
15877[@]		45 keV	O	E(p)(c.m)=6958 keV. Possible IAS of ^{110}Ag(525.7 or 527.5) level.
15943[@]		15 keV	O	E(p)(c.m)=7024 keV. Possible IAS of ^{110}Ag(594) level.
16004[@]		10 keV	O	E(p)(c.m)=7085 keV. Possible IAS of ^{110}Ag(653.9) level.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{110}Cd Levels (continued)

† From least-squares fit to Eγ′s, unless otherwise stated.
‡ From ^{111}Cd(pol d,t),^{111}Cd(d,t).
# From ^{110}Cd(p,p′),(d,d′).
@ From ^{109}Ag(p,p),(p,n) IAR.
& From Doppler shift attenuation method in ^{110}Cd(n,n′γ) (2001Co01).
[a] From Doppler shift attenuation method using the line-shape analysis in (HI,xnγ) (2011Ro01). The quoted uncertainties do not include additional systematics error in the stopping powers that may be as large as 20%.
[b] From recoil-distance method in (HI,xnγ) (1993Pi16).
[c] From Doppler shift attenuation method in (HI,xnγ) (1999Cl03).
[d] Band(A): g.s. rotational band.
[e] Band(B): band based on 10^+, 4077.176-keV.
[f] Band(C): band based on 7^-, 2879.185-keV.
[g] Band(D): band based on 8-, 3427.27-keV.
[h] Band(E): band based on 7341.6-keV.
[i] Band(F): band based on 13-, 5758.52-keV.
[j] Band(G): band based on 5^-, 2659.866-keV.
[k] Band(H): band based on 3^-, 2078.548-keV.
[l] Band(I): band based on (14), 6216.9-keV.
[m] Band(J): band based on 8-, 3641.10-keV.
[n] Band(K): band based on 9-, 3782.13-keV.
[o] Band(L): band based on 12^+, 5113.6-keV.
[p] Band(M): band based on 14^+, 5675.5-keV.
[q] Band(N): band based on 14^+, 5789.95-keV.
[r] Band(O): band based on 0^+, 1473.07-keV.
[s] Band(P): band based on 13^+, 5500.0-keV.
[t] Band(Q): band based on 17, 8016.5-keV.
[u] Band(R): band based on 8^+, 3187.337-keV.
[v] Band(S): band based on 14, 6584.5-keV.

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
657.7623	2+	657.7600[#] *11*	100[#]	0.0	0+	E2		0.00314	α(K)=0.00272 *4*; α(L)=0.000342 *5*; α(M)=6.57×10^{-5} *10*; α(N+..)=1.224×10^{-5} *18* α(N)=1.161×10^{-5} *17*; α(O)=6.26×10^{-7} *9* B(E2)(W.u.)=27.0 *8* Mult.: α(K)exp=0.00264 *10* (1964Ne05), K/L=8.1 *7*, (M+N)/L=0.23 *6* in ^{110}Ag β^- decay (249.83 d) (1993Ka37). Other: A_2=+0.23 *2*, A_4=−0.15 *3* (1992Ku01) from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
1473.07	0+	815.31[&] *4*	100[&]	657.7623	2+	E2		0.00183	α(K)=0.001592 *23*; α(L)=0.000195 *3*; α(M)=3.74×10^{-5} *6*; α(N+..)=7.01×10^{-6} *10* α(N)=6.64×10^{-6} *10*; α(O)=3.69×10^{-7} *6* Mult.: α(K)exp=0.0016 *2*, sum of 815.31 keV and 818.05 keV transitions in ^{110}In ε decay (69.1 min) (1992Ku01). Other: A_2=0.277 *30*, A_4=0.990 *50*, 657.76γ gated (0-2-0 spin sequence) in ^{110}Ag β^- decay (24.56 s) (1972Ka34).
		1473.1 *11*		0.0	0+	E0			E_γ,Mult.: From ^{110}In ε decay (69.1 min) (1990Gi01). The uncertainty of the electron energy was estimated by the evaluators based on the energy resolution (2.6 keV at 1450 keV electron energy) given by the authors. Mult. from ce. Iγ(1473γ)/Ice(K)(1473γ)<3.4×10^{-4} (1990Gi01).
1475.7900	2+	818.0244[#] *18*	100.0[#] *5*	657.7623	2+	M1+E2	−1.36 *6*	0.00191	α(K)=0.001666 *24*; α(L)=0.000201 *3*; α(M)=3.86×10^{-5} *6*; α(N+..)=7.25×10^{-6} *11* α(N)=6.86×10^{-6} *10*; α(O)=3.91×10^{-7} *6* B(M1)(W.u.)=0.0134 *22*; B(E2)(W.u.)=30 *5* Mult.: From α(K)exp=0.00172 *19* (1967Mo12). Other:0.00191 *15* (1980Ba58) from ^{110}In ε decay (4.92 h); A_2=−0.23 *1*, A_4=−0.10 *1* (1992Ku01). δ: Weighted average of −1.20 *15* (1970Kr03), −1.36 *10* (1973Jo08), −1.2 *5* (1978Wa07), −1.25 *+22−10* (1979Ve03), and −1.44 *10* (1980Ru03) (from ^{110}Ag β^- decay (249.83 d)), −1.5 *+9−4* (1969Mi07) (from Coulomb excitation), −1.4 *+10−4* (1992De41), −1.4 *+4−10* (1990Ar20), 1.5 *+3−4* (2001Co01) (from ^{110}Cd(n,n′γ)), and −1.5 *4* (1990Ke02) (from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)).
		1475.7792[#] *23*	55.0[#] *6*	0.0	0+	E2		5.77×10^{-4}	α(K)=0.000440 *7*; α(L)=5.16×10^{-5} *8*; α(M)=9.87×10^{-6} *14*; α(N+..)=7.51×10^{-5} *11* α(N)=1.760×10^{-6} *25*; α(O)=1.029×10^{-7} *15*; α(IPF)=7.32×10^{-5} *11* B(E2)(W.u.)=1.35 *20*

$^{110}_{48}Cd_{62}$-14

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									Mult.: From α(K)exp=0.00043 *6* (1967Mo12) in ^{110}Ag β^- decay (249.83 d) and 0.00036 *7* (1980Ba58) from ^{110}In ε decay (4.92 h)). Other: A_2=0.18 *3*, A_4=−0.11 *4* (1992Ku01) from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
1542.4441	4⁺	884.6781[#] *13*	100[#]	657.7623	2⁺	E2		1.51×10^{-3}	α(K)=0.001313 *19*; α(L)=0.0001597 *23*; α(M)=3.06×10^{-5} *5*; α(N+..)=5.74×10^{-6} *8* α(N)=5.44×10^{-6} *8*; α(O)=3.05×10^{-7} *5* B(E2)(W.u.)=42 *9* Mult.: From α(K)exp=0.00126 *6* (1964Ne05) and K/L=7.6 (1963Su07) in ^{110}Ag β^- decay (249.83 d). K/(L+M)=7.7 *13* (1962Ka08) from ^{110}In ε decay (4.9 h). Other: A_2=0.289, A_4=−0.069 *10* in (HI,xnγ) (1974Lu01).
1731.31	0⁺	255.4[&] *3*	11.3[&] *19*	1475.7900	2⁺	E2		0.0556	α(K)=0.0467 *7*; α(L)=0.00719 *11*; α(M)=0.001397 *21*; α(N+..)=0.000251 *4* α(N)=0.000241 *4*; α(O)=9.98×10^{-6} *15* Mult.: From α(K)exp=0.023 *7* in ^{110}In ε decay (69.1 min) (1992Ku01) and from decay pattern.
		258.3 *1*		1473.07	0⁺	E0			E_γ: From ^{110}In ε decay (69.1 min) (1992Ku01). The uncertainty of the electron energy was estimated from another close transition given by the authors. Iγ(258γ)/Ice(K)(258γ)<6.5×10^{-3} from ^{110}In ε decay (69.1 min) (1990Gi01). Mult.: From ^{110}In ε decay (69.1 min) (1990Gi01).
		1073.55[&] *4*	100[&] *5*	657.7623	2⁺	E2		9.75×10^{-4}	α(K)=0.000850 *12*; α(L)=0.0001017 *15*; α(M)=1.95×10^{-5} *3*; α(N+..)=3.66×10^{-6} *6* α(N)=3.47×10^{-6} *5*; α(O)=1.98×10^{-7} *3* Mult.: α(K)exp=0.00085 *8* (1992Ku01) in ^{110}In ε decay (69.1 min).
		1731.4 *11*		0.0	0⁺	E0			E_γ: From ^{110}In ε decay (69.1 min) (1992Ku01). The uncertainty of the electron energy was estimated by the evaluators based on the energy resolution (2.6 keV at 1450 keV electron energy) given by the authors. Iγ(1731γ)/Ice(K)(1731γ)<2.1×10^{-4} (1990Gi01). Mult.: From ^{110}In ε decay (69.1 min) (1990Gi01).
1783.496	2⁺	310.4[@] *6*	0.29[@] *14*	1473.07	0⁺				
		1125.709[#] *20*	100[#] *5*	657.7623	2⁺	M1+E2	+0.28 *4*	1.01×10^{-3}	α(K)=0.000886 *13*; α(L)=0.0001038 *15*; α(M)=1.98×10^{-5} *3*; α(N+..)=4.78×10^{-6} *7*

$^{110}_{48}Cd_{62}$-15

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(N)=3.55×10^{-6} *5*; α(O)=2.11×10^{-7} *3*; α(IPF)=1.020×10^{-6} *15* B(M1)(W.u.)=0.013 *+4−6*; B(E2)(W.u.)=0.7 *+3−4* Mult.: From α(K)exp=0.0009 *2* (1979Sy02) in ^{110}In ε decay (4.9 h), from A_2=+0.36 *2*, A_4=+0.02 *4* (1992De41) in ^{110}Cd(n,n′γ) and from A_2=0.21 *10*, A_4=−0.07 *14*, 657.50γ gated (2-2-0 spin sequence) in ^{110}Ag β^- decay (24.56 s) (1972Ka34). Other: α(K)exp=0.00043 *5* (1992Ku01) in ^{110}In ε decay (69.1 min). δ: Weighted average of +0.13 *+3−2* (2001Co01), +0.33 *+7−4* (1992De41), +0.33 *8* (1990Ar20) (from ^{110}Cd(n,n′γ)), −0.06 *+7−12* (1972Ka34) (from ^{110}Ag β^- decay (24.56 s)) and 0.3 *2* (1976De23). Other: 1.7 *3* (1976De23).
1783.496	2$^+$	1783.49[#] *3*	33.2[#] *16*	0.0	0$^+$	E2		5.49×10^{-4}	α(K)=0.000306 *5*; α(L)=3.56×10^{-5} *5*; α(M)=6.79×10^{-6} *10*; α(N+..)=0.000201 *3* α(N)=1.212×10^{-6} *17*; α(O)=7.15×10^{-8} *10*; α(IPF)=0.000200 *3* B(E2)(W.u.)=0.31 *+8−12* Mult.: From A_2=+0.29 *3*, A_4=−0.07 *4* (1992De41) in ^{110}Cd(n,n′γ) and from α(K)exp=0.00018 *3* (1992Ku01) in ^{110}In ε decay (69.1 min).
2078.548	3$^-$	295.42[a] *18*	3.77[a] *22*	1783.496	2$^+$	(E1)		0.00805	α(K)=0.00702 *10*; α(L)=0.000836 *12*; α(M)=0.0001597 *23*; α(N+..)=2.98×10^{-5} *5* α(N)=2.83×10^{-5} *4*; α(O)=1.563×10^{-6} *22* B(E1)(W.u.)=0.00052 *+15−30* Mult.: From A_2=0.04 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		603.03[a] *4*	15.4[a] *9*	1475.7900	2$^+$	E1(+M2)	−0.14 *22*	0.0016 *11*	α(K)=0.0014 *10*; α(L)=0.00017 *12*; α(M)=3.2×10^{-5} *24*; α(N+..)=6.E−6 *5* α(N)=6.E−6 *5*; α(O)=3.2×10^{-7} *24* B(E1)(W.u.)=(0.00024 *+8−14*); B(M2)(W.u.)=(6.E+1 *+19−6*) Mult.: From A_2=−0.3 *2*, A_4=−0.3 *3* (1992Ku01) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: From 1990Ke02.
		1421.06[a] *4*	100.0[a] *22*	657.7623	2$^+$	E1(+M2)	+0.01 *8*	4.32×10^{-4} *10*	α(K)=0.000226 *9*; α(L)=2.59×10^{-5} *10*;

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^{π}_i	E_{γ}[‡]	I_{γ}[‡]	E_f	J^{π}_f	Mult.[b]	δ[c]	α[†]	Comments
									α(M)=4.94×10^{-6} *19*; α(N+..)=0.000175 *3* α(N)=8.8×10^{-7} *4*; α(O)=5.23×10^{-8} *20*; α(IPF)=0.000174 *3* B(E1)(W.u.)=(0.00012 *+4−7*) Mult.: α(K)exp=0.00019 *2* (1992Ku01) in ^{110}In ε decay (69.1 min) and from A_2=−0.28 *3*, A_4=−0.04 *5* (1992Ku01) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: From 1990Ke02.
2078.80	0$^+$	295.30 *8*	100	1783.496	2$^+$	E2		0.0342	α(K)=0.0290 *4*; α(L)=0.00426 *6*; α(M)=0.000826 *12*; α(N+..)=0.0001496 *21* α(N)=0.0001433 *21*; α(O)=6.29×10^{-6} *9* E_{γ},I_{γ}: From ^{110}Ag β^- decay (24.56 s). Mult.: From α(K)exp=0.028 *5* in ^{110}In ε decay (69.1 min) (1992Ku01) and A_2=0.259 *17*, A_4=0.753 *26*, 1783.6γ gated (0-2-0 spin sequence) in ^{110}Ag β^- decay (24.56 s) (1972Ka34).
		605.4 *3*		1473.07	0$^+$	E0			E_{γ},Mult.: From ^{110}In ε Decay (69 min).
		2078.4 *3*		0.0	0$^+$	E0			E_{γ},Mult.: From ^{110}In ε Decay (69 min).
2162.8015	3$^+$	620.3553[#] *17*	20.5[#] *6*	1542.4441	4$^+$	M1+E2	−0.50 *5*	0.00391	B(M1)(W.u.)=0.011 *+3−9*; B(E2)(W.u.)=5.9 *+18−46* α(K)=0.00341 *5*; α(L)=0.000410 *6*; α(M)=7.86×10^{-5} *11*; α(N+..)=1.482×10^{-5} *21* α(N)=1.401×10^{-5} *20*; α(O)=8.11×10^{-7} *12* Mult.: From α(K)exp=0.0031 *6* (1967Mo12). δ: Weighted average of −0.50 *8* (1980Ru03), −0.8 *5* (1970Kr03), −0.85 *25* (1979Ve03) (from ^{110}Ag β^- decay (249.83 d)) and −0.46 *+7−6* (2001Co01) (from ^{110}Cd(n,n′γ)). Others: −1.2 *5* or −0.7 *3* (1978Wa07) (from ^{110}Ag β^- decay (249.83 d)).
		687.0091[#] *18*	49.00[#] *22*	1475.7900	2$^+$	M1+E2	−1.69 *+2−4*	0.00289	α(K)=0.00251 *4*; α(L)=0.000309 *5*; α(M)=5.93×10^{-5} *9*; α(N+..)=1.111×10^{-5} *16* α(N)=1.052×10^{-5} *15*; α(O)=5.85×10^{-7} *9* B(M1)(W.u.)=0.0064 *+16−48*; B(E2)(W.u.)=32 *+8−24* Mult.: From α(K)exp=0.0022 *5* and from A_2=−0.70 *5*, A_4=−0.01 *2* (1992Ku01, in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)). δ: Weighted average of −1.80 *5* (1973Jo08), −1.65 *9* (1978Wa07), and −1.27 *38* (1980Ru03), −1.1 *+8−4* (1970Kr03) and −1.5 *+6−22* (1979Ve03) (from ^{110}Ag β^- decay (249.83 d)), −1.66 *+9−8* (2001Co01), −1.48 *10* (1992De41), −1.48 *15* (1990Ar20), and −1.3 *4* (1992Ku01)

$^{110}_{48}Cd_{62}$-17

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E$_i$(level)	J$^\pi_i$	E$_\gamma$[‡]	I$_\gamma$[‡]	E$_f$	J$^\pi_f$	Mult.[b]	δ[c]	α[†]	Comments
									(from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)). Others: 0.4 *+1−2* (1976De23) (from ^{110}Cd(n,n′γ)), −0.40 *4* (1992De41) (from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)).
2162.8015	3$^+$	1505.0280[#] *20*	100.0[#] *12*	657.7623	2$^+$	M1+E2	−1.27 *3*	5.90×10^{-4}	α(K)=0.000446 *7*; α(L)=5.20×10^{-5} *8*; α(M)=9.94×10^{-6} *14*; α(N+..)=8.21×10^{-5} *12* α(N)=1.776×10^{-6} *25*; α(O)=1.048×10^{-7} *15*; α(IPF)=8.02×10^{-5} *12* B(M1)(W.u.)=0.0018 *+5−14*; B(E2)(W.u.)=1.1 *+3−8* Mult.: From α(K)exp=0.00046 *4* (1967Mo12). δ: Weighted average of −1.05 *16* (1988Kr03), −1.24 *7* (1988Kr03), −1.24 *20* (1980Ru03), −1.09 *9* (1978Wa07), and −1.26 *6* (1973Jo08) (from ^{110}Ag β^- decay (249.83 d)), −1.37 *8* (1992De41), −1.37 *15* (1990Ar20), −1.52 *+11−14* (2001Co01) from ^{110}Cd(n,n′γ)), −1.48 *23* (1990Ke02) (from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)). Others: −0.55 *10* (1970Kr03), −0.48 *3* (1973Jo08), −0.40 *+9−17* (1979Ve03) (from ^{110}Ag β^- decay (249.83 d)), −0.30 *7* (1980Ba58) (from ^{110}In ε decay (4.92 h)), −0.1 *1* or 3 *+2−1* (1976De23) (from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ)).
2220.0683	4$^+$	677.6217[#] *12*	100.0[#] *5*	1542.4441	4$^+$	M1+E2	−0.34 *2*	0.00320	α(K)=0.00279 *4*; α(L)=0.000332 *5*; α(M)=6.37×10^{-5} *9*; α(N+..)=1.203×10^{-5} *17* α(N)=1.136×10^{-5} *16*; α(O)=6.65×10^{-7} *10* B(M1)(W.u.)=0.058 *+17−25*; B(E2)(W.u.)=12 *+4−6* Mult.: From α(K)exp=0.0025 *4* (1967Mo12). δ: Unweighted average of −0.25 *20* (1970Kr03), −0.44 *5* (1973Jo08), −0.36 *3* (1978Wa07), −0.25 *15* (1979Ve03), −0.28 *5* (1980Ru03) from ^{110}Ag β^- decay (249.83 d), −0.40 *7* (1990Ke02) from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ), −0.34 *3* (1992De41), −0.34 *4* (1990Ar20), −0.41 *2* (2001Co01) from ^{110}Cd(n,n′γ)).
		744.2755[#] *18*	44.6[#] *3*	1475.7900	2$^+$	E2		0.00229	α(K)=0.00199 *3*; α(L)=0.000246 *4*; α(M)=4.72×10^{-5} *7*; α(N+..)=8.83×10^{-6} *13* α(N)=8.37×10^{-6} *12*; α(O)=4.60×10^{-7} *7* B(E2)(W.u.)=32 *+10−14* Mult.: From α(K)exp=0.0021 *4* in ^{110}Ag β^- decay (249.83 d) (1967Mo12); A$_2$=0.28 *1*, A$_4$=−0.27 *1* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		1562.2940[#] *18*	11.4[#] *3*	657.7623	2$^+$	E2		5.56×10^{-4}	α(K)=0.000394 *6*; α(L)=4.61×10^{-5} *7*; α(M)=8.80×10^{-6} *13*; α(N+..)=0.0001067 *15*

From ENSDF

$^{110}_{48}$Cd$_{62}$-18

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(N)=1.570×10^{-6} *22*; α(O)=9.21×10^{-8} *13*; α(IPF)=0.0001050 *15* B(E2)(W.u.)=0.20 *+6−9* Mult.: From A_2=0.22 *6*, A_4=−0.19 *8* (1992Ku01) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) and from α(K)exp=0.00046 *7* (1967Mo12). Other: E2(+M3) with δ=−0.10 *+2−3* from $\gamma\gamma(\theta)$ in ^{110}Ag β^- Decay (249.83 d) (1979Ve03). δ= Infinite (1970Kr03).
2250.554	4$^+$	467.01[#] *4*	11.0[#] *8*	1783.496	2$^+$	E2		0.00812	α(K)=0.00698 *10*; α(L)=0.000926 *13*; α(M)=0.0001785 *25*; α(N+..)=3.29×10^{-5} *5* α(N)=3.14×10^{-5} *5*; α(O)=1.580×10^{-6} *23* B(E2)(W.u.)=1.2×10^2 *+5−11* Mult.: From A_2=+0.22 *6*, A_4=−0.10 *8* (1992De41) in ^{110}Cd(n,n′γ) and from α(K)exp=0.013 *4* (1979Sy02) in ^{110}In ε Decay (4.9 h) (1979Sy02).
		708.133[#] *20*	100[#] *21*	1542.4441	4$^+$	M1+E2	−0.14 *3*	0.00291	α(K)=0.00254 *4*; α(L)=0.000301 *5*; α(M)=5.76×10^{-5} *8*; α(N+..)=1.090×10^{-5} *16* α(N)=1.029×10^{-5} *15*; α(O)=6.07×10^{-7} *9* B(M1)(W.u.)=0.08 *+4−8*; B(E2)(W.u.)=2.6 *+16−26* Mult.: From A_2=+0.22 *6*, A_4=−0.10 *8* (1992De41) from ^{110}Cd(n,n′γ). δ: Weighted average of −0.15 *9* (1992De41), −0.15 *9* (1990Ar20), 0.13 *+4−3* (2001Co01) (from ^{110}Cd(n,n′γ)). Other: −0.7 *3* (1990Ke02) from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		774.71[#] *7*	2.5[#] *13*	1475.7900	2$^+$	E2		0.00207	α(K)=0.00180 *3*; α(L)=0.000222 *4*; α(M)=4.26×10^{-5} *6*; α(N+..)=7.97×10^{-6} *12* α(N)=7.55×10^{-6} *11*; α(O)=4.17×10^{-7} *6* B(E2)(W.u.)=2.2 *+14−22* Mult.: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors of 1992De41.
		1592.77[#] *6*	9.1[#] *3*	657.7623	2$^+$	E2		5.51×10^{-4}	α(K)=0.000379 *6*; α(L)=4.43×10^{-5} *7*; α(M)=8.47×10^{-6} *12*; α(N+..)=0.0001188 *17* α(N)=1.511×10^{-6} *22*; α(O)=8.87×10^{-8} *13*; α(IPF)=0.0001172 *17* B(E2)(W.u.)=0.22 *+9−19* Mult.: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors of 1992De41.
2287.63	2$^+$	1629.90[#] *14*	100[#]	657.7623	2$^+$	M1+E2	+0.06 *3*	5.86×10^{-4}	α(K)=0.000407 *6*; α(L)=4.73×10^{-5} *7*; α(M)=9.03×10^{-6} *13*;

$^{110}_{48}Cd_{62}$-19

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(N+..)=0.0001228 *18* α(N)=1.615×10^{-6} *23*; α(O)=9.66×10^{-8} *14*; α(IPF)=0.0001211 *17* B(M1)(W.u.)=0.017 *+3−5*; B(E2)(W.u.)=0.019 *+20−19* Mult.: From A_2=+0.24 *3*, A_4=+0.01 *4* (1992De41) in ^{110}Cd(n,n′γ). δ: From 1992De41 and 1990Ar20 using $\gamma(\theta)$ in ^{110}Cd(n,n′γ). Other: −0.01 *2* (2001Co01) from ^{110}Cd(n,n′γ).
2331.92	(0)$^+$	548.4[@] *2*	24[@] *6*	1783.496	2$^+$				
		1674.15[@] *4*	100[@] *6*	657.7623	2$^+$				
2355.792	2$^+$	624.47 *9*		1731.31	0$^+$	E2		0.00360	α(K)=0.00311 *5*; α(L)=0.000394 *6*; α(M)=7.58×10^{-5} *11*; α(N+..)=1.411×10^{-5} *20* α(N)=1.339×10^{-5} *19*; α(O)=7.16×10^{-7} *10* E_γ: From ^{110}Cd(n,n′γ) (2001Co01). Mult.: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors of 2001Co01.
		1698.02[@] *2*	100[@]	657.7623	2$^+$	M1+E2	+1.75 *15*	5.53×10^{-4}	α(K)=0.000345 *5*; α(L)=4.02×10^{-5} *6*; α(M)=7.67×10^{-6} *12*; α(N+..)=0.0001597 *23* α(N)=1.370×10^{-6} *20*; α(O)=8.10×10^{-8} *12*; α(IPF)=0.0001582 *23* B(M1)(W.u.)=0.0032 *+8−12*; B(E2)(W.u.)=2.8 *+6−10* Mult.: From A_2=+0.27 *3*, A_4=−0.01 *3* (1992De41) in ^{110}Cd(n,n′γ). δ: From 1992De41. Others: +0.11 *4* (1992De41), 0.1 *+2−1* or 1.7 *+6−5* (1976De23), 1.8 *2* or +0.10 *5* (1990Ar20) in ^{110}Cd(n,n′γ).
2433.248	3$^+$	651.3[@][d] *5*	29[@] *4*	1783.496	2$^+$				
		890.7[@] *5*	9[@] *3*	1542.4441	4$^+$				
		957.38[#] *6*	100[#] *7*	1475.7900	2$^+$	M1+E2	−0.9 *7*	0.00137 *9*	α(K)=0.00120 *8*; α(L)=0.000142 *8*; α(M)=2.72×10^{-5} *15*; α(N+..)=5.1×10^{-6} *3* α(N)=4.9×10^{-6} *3*; α(O)=2.83×10^{-7} *21* Mult.: From A_2=−0.58 *3*, A_4=+0.07 *3* (1992De41) in ^{110}Cd(n,n′γ). δ: Others: −0.45 *5* or −1.38 *14* (1992De41), −0.43 *8* or −1.38 *20* (1990Ar20) in ^{110}Cd(n,n′γ).
		1775.42[#] *4*	70[#] *3*	657.7623	2$^+$	M1+E2	−0.35 *10*	5.69×10^{-4}	α(K)=0.000338 *6*; α(L)=3.92×10^{-5} *6*; α(M)=7.49×10^{-6} *12*; α(N+..)=0.000184 *3*

$^{110}_{48}Cd_{62}$-20

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	α[†]	Comments
								α(N)=1.339×10^{-6} *21*; α(O)=8.00×10^{-8} *13*; α(IPF)=0.000183 *3* Mult.: From A_2=−0.56 *8*, A_4=0.00 *3* (1992De41) in ^{110}Cd(n,n′γ). δ: −0.35 *10* or −1.6 *3* (1992De41), −0.35 *10* or −1.6 *4* (1990Ar20) in ^{110}Cd(n,n′γ).
2477.41	2$^+$	746.19[@] *17*	[@]	1731.31	0$^+$	E2	0.00227	α(K)=0.00197 *3*; α(L)=0.000245 *4*; α(M)=4.69×10^{-5} *7*; α(N+..)=8.77×10^{-6} *13* α(N)=8.32×10^{-6} *12*; α(O)=4.57×10^{-7} *7* Mult.: From γ(θ) in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors of 2001Co01.
		1001.71[&] *6*	98[&] *10*	1475.7900	2$^+$			
		1819.82[@] *24*	[@]	657.7623	2$^+$			
		2477.16[&] *8*	100[&] *4*	0.0	0$^+$	E2	7.24×10^{-4}	α(K)=0.0001686 *24*; α(L)=1.94×10^{-5} *3*; α(M)=3.70×10^{-6} *6*; α(N+..)=0.000532 *8* α(N)=6.61×10^{-7} *10*; α(O)=3.94×10^{-8} *6*; α(IPF)=0.000532 *8* Mult.: From ^{110}Cd(n,n′γ).
2479.9339	6$^+$	229.420[#d] *22*	0.03[#]	2250.554	4$^+$	[E2]	0.0801	α(K)=0.0670 *10*; α(L)=0.01070 *15*; α(M)=0.00208 *3*; α(N+..)=0.000373 *6* α(N)=0.000358 *5*; α(O)=1.410×10^{-5} *20* B(E2)(W.u.)=14 *10*
		937.485[#] *3*	100[#]	1542.4441	4$^+$	E2	1.32×10^{-3}	α(K)=0.001149 *16*; α(L)=0.0001390 *20*; α(M)=2.66×10^{-5} *4*; α(N+..)=5.00×10^{-6} *7* α(N)=4.73×10^{-6} *7*; α(O)=2.67×10^{-7} *4* B(E2)(W.u.)=4.E+1 *3* Mult.: From α(K)exp=0.0012 *8* (1964Ne05) in ^{110}Ag β^- Decay (249.83 d) and 0.00114 *8* (1980Ba58) in ^{110}In ε Decay (4.92 h)). K/(L+M)=6.6 *14* from ^{110}In ε decay (4.92 h) (1962Ka08) and A_2=+0.34 *2*, A_4=−0.08 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
2481.606	(2)$^+$	402.84[@] *17*	[@]	2078.548	3$^-$	(E1)	0.00361	α(K)=0.00315 *5*; α(L)=0.000373 *6*; α(M)=7.12×10^{-5} *10*; α(N+..)=1.335×10^{-5} *19* α(N)=1.263×10^{-5} *18*; α(O)=7.12×10^{-7} *10* E_γ: From ^{110}Cd(n,n′γ). Mult.: From γ(θ) in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors (2001Co01).
		698.0[@] *2*	27[@] *3*	1783.496	2$^+$			

From ENSDF

$^{110}_{48}Cd_{62}$-21

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
2481.606	(2)$^+$	1005.58[@] *10*	51[@] *3*	1475.7900	2$^+$	M1(+E2)	−0.41 *10*	1.29×10^{-3} *2*	α(K)=0.001124 *19*; α(L)=0.0001323 *22*; α(M)=2.53×10^{-5} *4*; α(N+..)=4.79×10^{-6} *8* α(N)=4.52×10^{-6} *8*; α(O)=2.67×10^{-7} *5* B(M1)(W.u.)=(0.012 *+4−6*); B(E2)(W.u.)=(1.6 *+8−11*) Mult.: From A_2=+0.07 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: From 1992De41 in ^{110}Cd(n,n′γ).
		1823.84[@] *2*	100[@] *6*	657.7623	2$^+$	M1+E2		5.73×10^{-4}	α(K)=0.000324 *5*; α(L)=3.75×10^{-5} *6*; α(M)=7.16×10^{-6} *10*; α(N+..)=0.000204 *3* α(N)=1.280×10^{-6} *18*; α(O)=7.66×10^{-8} *11*; α(IPF)=0.000203 *3* Mult.: From A_2=−0.15 *3*, A_4=0.02 *4* in ^{110}Cd(n,n′γ) (1992De41). δ: −0.70 *9* or −4.9 *+24−11* (1992De41), −0.70 *10* or −5.2 *20* (1990Ar20) in ^{110}Cd(n,n′γ).
2539.691	5$^-$	460.85[a] *8*	4.00[a] *11*	2078.548	3$^-$	E2		0.00845	α(K)=0.00726 *11*; α(L)=0.000965 *14*; α(M)=0.000186 *3*; α(N+..)=3.43×10^{-5} *5* α(N)=3.27×10^{-5} *5*; α(O)=1.641×10^{-6} *23* B(E2)(W.u.)=56 *+13−23* Mult.: From A_2=+0.31 *6*, A_4=−0.14 *9* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		997.256[a] *8*	100.0[a] *8*	1542.4441	4$^+$	E1(+M2)	−0.03 *5*	4.91×10^{-4} *17*	α(K)=0.000430 *15*; α(L)=4.97×10^{-5} *18*; α(M)=9.5×10^{-6} *4*; α(N+..)=1.79×10^{-6} *7* α(N)=1.69×10^{-6} *6*; α(O)=9.9×10^{-8} *4* B(E1)(W.u.)=(0.00048 *+12−19*); B(M2)(W.u.)=(2 *+7−2*) Mult.: α(K)exp=0.00041 *5* (1980Ba58) in ^{110}In ε decay (4.92 h). δ: From 1990Ke02 in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
2561.284	4$^+$	341.3[#][d] *1*	3.0[#] *7*	2220.0683	4$^+$	[M1]		0.01715	α(K)=0.01493 *21*; α(L)=0.00181 *3*; α(M)=0.000347 *5*; α(N+..)=6.55×10^{-5} *10* α(N)=6.19×10^{-5} *9*; α(O)=3.61×10^{-6} *5* B(M1)(W.u.)=0.013 *+6−12*
		1018.94[#] *4*	19.6[#] *9*	1542.4441	4$^+$	M1+E2	−0.6 *4*	0.00123 *5*	α(K)=0.00107 *4*; α(L)=0.000126 *5*; α(M)=2.42×10^{-5} *8*; α(N+..)=4.57×10^{-6} *16* α(N)=4.32×10^{-6} *15*; α(O)=2.54×10^{-7} *11* B(M1)(W.u.)=0.0023 *+12−22*; B(E2)(W.u.)=0.7 *7* Mult.: From A_2=+0.01 *6* (1990Ke02)

$^{110}_{48}Cd_{62}$-22

γ(^{110}Cd) (continued)

E_i(level)	J^{π}_i	E_γ ‡	I_γ ‡	E_f	J^{π}_f	Mult. b	α †	Comments
								^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: Other: −0.49 +*16*−*19* in ^{110}Cd(n,n′γ) (2001Co01).
2561.284	4$^+$	1085.447# *14*	100# *5*	1475.7900	2$^+$	E2	9.52×10^{-4}	α(K)=0.000830 *12*; α(L)=9.92×10^{-5} *14*; α(M)=1.90×10^{-5} *3*; α(N+..)=3.57×10^{-6} *5* α(N)=3.38×10^{-6} *5*; α(O)=1.94×10^{-7} *3* B(E2)(W.u.)=9 +*4*−*9* Mult.: From A_2=+0.36 *4*, A_4=−0.10 *5* (1992De41) in ^{110}Cd(n,n′γ) and α(K)exp=0.0008 *2* in ^{110}In ε decay (4.9 h) (1980Ba58).
		1903.53# *3*	22.2# *9*	657.7623	2$^+$	E2	5.65×10^{-4}	α(K)=0.000271 *4*; α(L)=3.14×10^{-5} *5*; α(M)=6.00×10^{-6} *9*; α(N+..)=0.000256 *4* α(N)=1.071×10^{-6} *15*; α(O)=6.33×10^{-8} *9*; α(IPF)=0.000255 *4* B(E2)(W.u.)=0.12 +*5*−*11* Mult.: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors of 2001Co01.
2566.47	(2$^-$,3)	782.8@ *2*	29@ *4*	1783.496	2$^+$			
		1908.70@ *6*	100@ *6*	657.7623	2$^+$			
2633.20	2$^+$	1090.83@ *10*	42@ *4*	1542.4441	4$^+$	[E2]	9.42×10^{-4}	α(K)=0.000821 *12*; α(L)=9.81×10^{-5} *14*; α(M)=1.88×10^{-5} *3*; α(N+..)=3.54×10^{-6} *5* α(N)=3.34×10^{-6} *5*; α(O)=1.92×10^{-7} *3* B(E2)(W.u.)=25 +*4*−*5*
		1157.24 *17*		1475.7900	2$^+$	[M1]	9.66×10^{-4}	α(K)=0.000843 *12*; α(L)=9.85×10^{-5} *14*; α(M)=1.88×10^{-5} *3*; α(N+..)=6.00×10^{-6} *9* α(N)=3.37×10^{-6} *5*; α(O)=2.01×10^{-7} *3*; α(IPF)=2.43×10^{-6} *4* E_γ: From ^{110}Cd(n,n′γ).
		1975.2@ *3*	100@ *9*	657.7623	2$^+$	E2+M1	5.87×10^{-4}	α(K)=0.000276 *4*; α(L)=3.18×10^{-5} *5*; α(M)=6.08×10^{-6} *9*; α(N+..)=0.000274 *4* α(N)=1.088×10^{-6} *16*; α(O)=6.52×10^{-8} *10*; α(IPF)=0.000272 *4* Mult.: E2 from A_2=+0.43 *4*, A_4=0.00 *4* (1992De41) in ^{110}Cd(n,n′γ).
2649.95	1$^-$	1176.8@ *2*	32@ *4*	1473.07	0$^+$	[E1]	3.84×10^{-4}	α(K)=0.000315 *5*; α(L)=3.62×10^{-5} *5*; α(M)=6.91×10^{-6} *10*; α(N+..)=2.61×10^{-5} *4* α(N)=1.232×10^{-6} *18*; α(O)=7.26×10^{-8} *11*; α(IPF)=2.48×10^{-5} *4* B(E1)(W.u.)=0.0015 *6*
		2649.92@ *6*	100@ *9*	0.0	0$^+$	E1	1.12×10^{-3}	α(K)=8.53×10^{-5} *12*; α(L)=9.68×10^{-6} *14*; α(M)=1.84×10^{-6} *3*; α(N+..)=0.001026 *15* α(N)=3.30×10^{-7} *5*; α(O)=1.97×10^{-8} *3*; α(IPF)=0.001026 *15* B(E1)(W.u.)=0.00040 *15*

$^{110}_{48}Cd_{62}$-23

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									Mult.: From A_2=−0.09 *4*, A_4=0.00 *5* (1992De41) in $^{110}Cd(n,n'\gamma)$ and from $^{110}Cd(\gamma,\gamma')$ (2005Ko32), deduced using $\gamma(\theta)$ and π from linear polarization measurements.
2659.866	5⁻	120.154[a] *25*	33.3[a] *18*	2539.691	5⁻	M1(+E2)	−0.1 *3*	0.28 *7*	α(K)=0.24 *5*; α(L)=0.031 *14*; α(M)=0.006 *3*; α(N+..)=0.0011 *5* α(N)=0.0011 *5*; α(O)=5.9×10^{-5} *8* I_γ: Other: 58 *10* in $^{110}Cd(n,n'\gamma)$. Mult.: From A_2=0.26 *13* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
		409.36[a] *8*	10.4[a] *4*	2250.554	4⁺	E1(+M2)	−0.029 *23*	0.00350 *9*	α(K)=0.00305 *8*; α(L)=0.000361 *10*; α(M)=6.90×10^{-5} *18*; α(N+..)=1.29×10^{-5} *4* α(N)=1.23×10^{-5} *4*; α(O)=6.91×10^{-7} *18* Mult.: From α(K)exp=0.0027 *10* (1970Ko12) in ^{110}In ε decay (4.9 h) and A_2=−0.25 *2* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$ (1990Ke02).
		1117.437[a] *10*	100.0[a] *11*	1542.4441	4⁺	E1		4.01×10^{-4}	α(K)=0.000346 *5*; α(L)=3.98×10^{-5} *6*; α(M)=7.60×10^{-6} *11*; α(N+..)=8.05×10^{-6} *12* α(N)=1.356×10^{-6} *19*; α(O)=7.98×10^{-8} *12*; α(IPF)=6.61×10^{-6} *10* Mult.: From α(K)exp=0.00033 *7* (1990Ke02) in ^{110}In ε decay (4.9 h) (1980Ba58) and A_2=−0.18 *2* in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
2662.13	0⁺	1186.30 *12*	75 *16*	1475.7900	2⁺				E_γ,I_γ: From ^{110}Ag β^- decay (24.56 s).
		2004.40 *15*	100 *10*	657.7623	2⁺	E2		5.85×10^{-4}	α(K)=0.000246 *4*; α(L)=2.85×10^{-5} *4*; α(M)=5.44×10^{-6} *8*; α(N+..)=0.000305 *5* α(N)=9.72×10^{-7} *14*; α(O)=5.76×10^{-8} *8*; α(IPF)=0.000304 *5* E_γ,I_γ: From ^{110}Ag β^- decay (24.56 s). Mult.: From A_2=0.177 *28*, A_4=0.986 *47*, 657.50γ gated (0-2-0 spin sequence) (1972Ka34) in ^{110}Ag β^- decay (24.56 s).
2705.669	(4)⁺	1163.19[#] *5*	100[#]	1542.4441	4⁺	M1+E2	−0.03 *+6−9*	9.56×10^{-4}	α(K)=0.000834 *12*; α(L)=9.74×10^{-5} *14*; α(M)=1.86×10^{-5} *3*; α(N+..)=6.34×10^{-6} *9* α(N)=3.33×10^{-6} *5*; α(O)=1.98×10^{-7} *3*; α(IPF)=2.81×10^{-6} *4* Mult.: From A_2=+0.32 *5*, A_4=−0.03 *6* (1992De41) in $^{110}Cd(n,n'\gamma)$. δ: From $\gamma(\theta)$ in $^{110}Cd(n,n'\gamma)$ (1992De41).
2707.397	(4)⁺	1.60 *10*		2705.669	(4)⁺	M1			E_γ: From measured Ice in ^{110}Ag β^- decay

$^{110}_{48}Cd_{62}$-24

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[c]	α[†]	Comments
									(249.83 d). Mult.: From M1/M2/M3=10 *2*/1.0/0.35 *10* in ^{110}Ag β^- decay (249.83 d) (1993Ka37).
2707.397	$(4)^+$	544.56[#] *4*	41[#] *7*	2162.8015	3^+	M1+E2	+0.21 *11*	0.00541	α(K)=0.00472 *7*; α(L)=0.000565 *8*; α(M)=0.0001083 *16*; α(N+..)=2.05×10^{-5} *3* α(N)=1.93×10^{-5} *3*; α(O)=1.131×10^{-6} *17* I_γ: Other: 62 *3* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ), 56 *5* in ^{110}Cd(n,n′γ). Mult.: From A_2=+0.02 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: Other:−0.03 *5* or −5.5 *+24−10* (1992De41) from ^{110}Cd(n,n′γ).
		1164.98[#] *7*	100[#] *7*	1542.4441	4^+	M1(+E2)	<+0.3	9.48×10^{-4} *15*	α(K)=0.000826 *13*; α(L)=9.66×10^{-5} *15*; α(M)=1.85×10^{-5} *3*; α(N+..)=6.46×10^{-6} *9* α(N)=3.30×10^{-6} *5*; α(O)=1.96×10^{-7} *3*; α(IPF)=2.96×10^{-6} *5* Mult.: From A_2=+0.17 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). Other: A_2=+0.39 *11*, A_4=+0.02 *14* (1992De41) from ^{110}Cd(n,n′γ). δ: Other:−0.07 *+10−7* (1992De41) from ^{110}Cd(n,n′γ).
2758.25	$(1,2,3)^+$	402.4[@d] *2*	45[@] *7*	2355.792	2^+	[M1]		0.01135	α(K)=0.00988 *14*; α(L)=0.001191 *17*; α(M)=0.000228 *4*; α(N+..)=4.31×10^{-5} *6* α(N)=4.08×10^{-5} *6*; α(O)=2.38×10^{-6} *4* B(M1)(W.u.)=0.37 *+12−16*
		1282.45[@] *8*	100[@] *7*	1475.7900	2^+	M1+E2	+0.32 *5*	7.80×10^{-4} *12*	α(K)=0.000667 *10*; α(L)=7.78×10^{-5} *12*; α(M)=1.488×10^{-5} *22*; α(N+..)=2.07×10^{-5} *3* α(N)=2.66×10^{-6} *4*; α(O)=1.583×10^{-7} *24*; α(IPF)=1.79×10^{-5} *3* B(M1)(W.u.)=0.023 *+7−10*; B(E2)(W.u.)=1.2 *+5−6* Mult.: From A_2=+0.39 *11*, A_4=+0.02 *14* (1992De41) in ^{110}Cd(n,n′γ). δ: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ) (1992De41).
		2100.6[@] *5*	33[@] *10*	657.7623	2^+	[M1]		6.10×10^{-4}	α(K)=0.000244 *4*; α(L)=2.81×10^{-5} *4*; α(M)=5.37×10^{-6} *8*; α(N+..)=0.000333 *5* α(N)=9.61×10^{-7} *14*; α(O)=5.76×10^{-8} *8*; α(IPF)=0.000332 *5* B(M1)(W.u.)=0.0019 *+8−10*
2787.49	2^+	305.8[@] *2*	16[@] *5*	2481.606	$(2)^+$	[M1]		0.0227	α(K)=0.0197 *3*; α(L)=0.00240 *4*; α(M)=0.000460 *7*;

$^{110}_{48}Cd_{62}$-25

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(N+..)=8.69×10^{-5} *13* α(N)=8.21×10^{-5} *12*; α(O)=4.77×10^{-6} *7* B(M1)(W.u.)=3.3 *14*
2787.49	2^+	1314.25[&] *10*	1.91[&] *14*	1473.07	0^+	[E2]		6.63×10^{-4}	α(K)=0.000555 *8*; α(L)=6.56×10^{-5} *10*; α(M)=1.254×10^{-5} *18*; α(N+..)=2.92×10^{-5} *4* α(N)=2.23×10^{-6} *4*; α(O)=1.298×10^{-7} *19*; α(IPF)=2.68×10^{-5} *4* B(E2)(W.u.)=2.3 *7*
		2129.52[@] *5*	100[@] *7*	657.7623	2^+	M1+E2		6.17×10^{-4}	α(K)=0.000237 *4*; α(L)=2.74×10^{-5} *4*; α(M)=5.23×10^{-6} *8*; α(N+..)=0.000347 *5* α(N)=9.35×10^{-7} *13*; α(O)=5.61×10^{-8} *8*; α(IPF)=0.000346 *5* Mult.: From A_2=−0.31 *5*, A_4=−0.02 *5* (1992De41) in ^{110}Cd(n,n′γ). δ: +0.18 *+10−7* or +1.5 *3* (1992De41) in ^{110}Cd(n,n′γ).
		2788.37[@] *10*	16[@] *5*	0.0	0^+	[E2]		8.31×10^{-4}	α(K)=0.0001374 *20*; α(L)=1.575×10^{-5} *22*; α(M)=3.00×10^{-6} *5*; α(N+..)=0.000675 *10* α(N)=5.37×10^{-7} *8*; α(O)=3.21×10^{-8} *5*; α(IPF)=0.000675 *10* B(E2)(W.u.)=0.46 *19* I_γ: 3.27 *14* in ^{110}In ε decay (69.1 min).
2793.441	$(4)^+$	360.23[#] *8*	23[#] *14*	2433.248	3^+				I_γ: Other: 8.1 *12* from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		573.0[#] *4*	51[#] *3*	2220.0683	4^+	M1+E2	−0.3 *3*	0.00478 *9*	α(K)=0.00416 *8*; α(L)=0.000499 *7*; α(M)=9.57×10^{-5} *14*; α(N+..)=1.81×10^{-5} *3* α(N)=1.707×10^{-5} *24*; α(O)=9.96×10^{-7} *24* I_γ: Other: 17.4 *14* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ), <63 in ^{110}Cd(n,n′γ). Mult.: From A_2=+0.10 *14* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		630.62[#] *5*	100[#] *15*	2162.8015	3^+	M1(+E2)	+0.02 *7*	0.00382	α(K)=0.00334 *5*; α(L)=0.000396 *6*; α(M)=7.59×10^{-5} *11*; α(N+..)=1.436×10^{-5} *21* α(N)=1.356×10^{-5} *19*; α(O)=8.00×10^{-7} *12* Mult.: From A_2=−0.11 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		714.94[#] *1*	28[#] *7*	2078.548	3^-				
		1251.06[#] *4*	80[#] *9*	1542.4441	4^+				
2842.682	$(5)^-$	182.83[a] *6*	3.5[a] *4*	2659.866	5^-	M1+E2		0.0876	α(K)=0.0760 *11*; α(L)=0.00939 *14*; α(M)=0.00181 *3*; α(N+..)=0.000340 *5*

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(N)=0.000322 *5*; α(O)=1.85×10^{-5} *3* Mult.: From A_2=+0.79 *11* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
2842.682	(5)$^-$	409.36[a] *8*	20.3[a] *7*	2433.248	3$^+$				
		1300.233[a] *10*	100.0[a] *21*	1542.4441	4$^+$	E1(+M2)	+0.0 *1*	3.93×10^{-4} *14*	α(K)=0.000264 *13*; α(L)=3.03×10^{-5} *15*; α(M)=5.8×10^{-6} *3*; α(N+..)=9.35×10^{-5} *16* α(N)=1.03×10^{-6} *6*; α(O)=6.1×10^{-8} *3*; α(IPF)=9.24×10^{-5} *16* Mult.: From A_2=−0.21 *2* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) and from $\gamma(\theta)$ in ^{110}Cd(n,n′γ) (2001Co01).
2869.144	1$^+$,2$^+$	1085.57[&] *4*	2.2[&] *7*	1783.496	2$^+$	E2+M1		1.11×10^{-3}	α(K)=0.000969 *14*; α(L)=0.0001135 *16*; α(M)=2.17×10^{-5} *3*; α(N+..)=4.11×10^{-6} *6* α(N)=3.88×10^{-6} *6*; α(O)=2.31×10^{-7} *4* Mult.: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ), but A_2 and A_4 coefficients were not given by the authors (2001Co01).
		1393.63[&] *7*	3.03[&] *22*	1475.7900	2$^+$				
		2211.33[&] *3*	100[&] *2*	657.7623	2$^+$	M1+E2		6.38×10^{-4}	α(K)=0.000220 *3*; α(L)=2.54×10^{-5} *4*; α(M)=4.85×10^{-6} *7*; α(N+..)=0.000387 *6* α(N)=8.67×10^{-7} *13*; α(O)=5.20×10^{-8} *8*; α(IPF)=0.000386 *6* Mult.: From $\gamma(\theta)$ in ^{110}Cd(n,n′γ) but A_2 and A_4 coefficients were not given by the authors (1992De41). δ: +1.8 *7* or +0.10 *+22−13* (1992De41).
		2869.28[&] *10*	1.85[&] *11*	0.0	0$^+$				I_γ: Other: 14 *6* from ^{110}Cd(n,n′γ).
2876.812	6$^+$	396.894[#] *22*	17.2[#] *18*	2479.9339	6$^+$	M1+E2		0.01174	α(K)=0.01023 *15*; α(L)=0.001233 *18*; α(M)=0.000236 *4*; α(N+..)=4.47×10^{-5} *7* α(N)=4.22×10^{-5} *6*; α(O)=2.47×10^{-6} *4* Mult.: From A_2=+0.29 *6* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		626.256[#] *10*	100[#] *8*	2250.554	4$^+$	E2		0.00357	α(K)=0.00309 *5*; α(L)=0.000391 *6*; α(M)=7.52×10^{-5} *11*; α(N+..)=1.400×10^{-5} *20* α(N)=1.329×10^{-5} *19*; α(O)=7.11×10^{-7} *10* Mult.: From α(K)exp=3.0×10^{-3} *4* (1980Ba58) in ^{110}In ε decay (4.92 h) and from A_2=+0.35 *2*, A_4=−0.04 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).

From ENSDF

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γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
2876.812	6+	1334.348[#] *16*	66.1[#] *22*	1542.4441	4+	E2		6.48×10^{-4}	α(K)=0.000539 *8*; α(L)=6.35×10^{-5} *9*; α(M)=1.214×10^{-5} *17*; α(N+..)=3.37×10^{-5} *5* α(N)=2.16×10^{-6} *3*; α(O)=1.259×10^{-7} *18*; α(IPF)=3.14×10^{-5} *5* Mult.: From A_2=+0.33 *4* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) and DCO=1.02 *14* in (HI,xnγ).
2879.185	7−	219.31[a] *2*	1.94[a] *6*	2659.866	5−	E2		0.0935	α(K)=0.0780 *11*; α(L)=0.01268 *18*; α(M)=0.00247 *4*; α(N+..)=0.000441 *7* α(N)=0.000424 *6*; α(O)=1.632×10^{-5} *23* B(E2)(W.u.)=0.84 *12* Mult.: From A_2=+0.37 *3*, A_4=−0.09 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) and from DCO=1.38 *13* (1994Ju04) in (HI,xnγ).
		339.498[a] *15*	32.2[a] *3*	2539.691	5−	E2		0.0217	α(K)=0.0185 *3*; α(L)=0.00262 *4*; α(M)=0.000507 *7*; α(N+..)=9.24×10^{-5} *13* α(N)=8.84×10^{-5} *13*; α(O)=4.07×10^{-6} *6* B(E2)(W.u.)=1.56 *21* Mult.: From A_2=+0.34 *2*, A_4=−0.08 *2* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		399.254[a] *15*	100.0[a] *6*	2479.9339	6+	E1(+M2)	−0.01 *3*	0.00369 *8*	α(K)=0.00323 *7*; α(L)=0.000382 *9*; α(M)=7.29×10^{-5} *17*; α(N+..)=1.37×10^{-5} *4* α(N)=1.29×10^{-5} *3*; α(O)=7.29×10^{-7} *17* B(E1)(W.u.)=(5.6×10^{-6} *8*); B(M2)(W.u.)=(0.016 *+97−16*) Mult.: From A_2=−0.25 *1* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: Other:<0.06 in (HI,xnγ).
2895.948	6−	236.04[a] *4*	23.1[a] *7*	2659.866	5−	M1+E2	−0.09 *4*	0.0446	α(K)=0.0388 *6*; α(L)=0.00477 *8*; α(M)=0.000916 *16*; α(N+..)=0.000173 *3* α(N)=0.000163 *3*; α(O)=9.40×10^{-6} *14* Mult.: From A_2=−0.36 *1* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		356.255[a] *15*	100.0[a] *7*	2539.691	5−	M1		0.01539	α(K)=0.01340 *19*; α(L)=0.001620 *23*; α(M)=0.000311 *5*; α(N+..)=5.87×10^{-5} *9* α(N)=5.55×10^{-5} *8*; α(O)=3.24×10^{-6} *5* Mult.: From DCO=0.66 *5* in (HI,xnγ); A_2=−0.35 *1* with δ=−0.09 *4* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		415.9[a] *1*	8.59[a] *22*	2479.9339	6+	E1		0.00333	α(K)=0.00291 *4*; α(L)=0.000344 *5*; α(M)=6.57×10^{-5}

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$\gamma(^{110}$Cd) (continued)

E_i(level)	J^π_i	E_γ‡	I_γ‡	E_f	J^π_f	Mult.[b]	δ[c]	α†	Comments
									10; α(N+..)=1.232×10^{-5} *18*
									α(N)=1.166×10^{-5} *17*; α(O)=6.59×10^{-7} *10*
									Mult.: From A_2=0.26 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
2917.60	2+,3,4+	356.38@ *8*	50@ *7*	2561.284	4+				
		1441.9@	100@	1475.7900	2+				
		2259.5@ *2*	43@ *7*	657.7623	2+				
2926.7474	5+	133.333# *7*	0.30# *1*	2793.441	(4)+				
		219.348# *8*	0.29# *2*	2707.397	(4)+				
		221.078# *10*	0.27#	2705.669	(4)+				
		266.914# *12*	0.16# *2*	2659.866	5−				
		365.448# *11*	0.37# *2*	2561.284	4+				
		387.075# *9*	0.2#	2539.691	5−				
		446.812# *3*	14.77# *19*	2479.9339	6+	M1+E2	−0.39 *2*	0.00883	α(K)=0.00768 *11*; α(L)=0.000936 *14*; α(M)=0.000180 *3*; α(N+..)=3.38×10^{-5} *5* α(N)=3.20×10^{-5} *5*; α(O)=1.83×10^{-6} *3* I_γ: Other:3.2 *3* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). Mult.: From α(K)exp=0.0070 *11* (1967Mo12). δ: Weighted average of −0.40 *6* (1978Wa07), −0.39 *+2−1* (1979Ve03), −0.35 *5* (1980Ru03) and −0.45 *20* (1970Kr03) from ^{110}Ag β^- decay (249.83 d).
		493.38# *5*	0.04#	2433.248	3+				
		706.6760# *15*	66.6# *3*	2220.0683	4+	M1+E2	−1.15 *+5−6*	0.00275	α(K)=0.00239 *4*; α(L)=0.000291 *5*; α(M)=5.58×10^{-5} *8*; α(N+..)=1.048×10^{-5} *15* α(N)=9.92×10^{-6} *14*; α(O)=5.61×10^{-7} *9* Mult.: From α(K)exp=0.00262 *23* (1967Mo12). K/L=4.7 (1963Su07). δ: Weighted average of −1.42 *7* (1978Wa07), −1.0 *3* (1970Kr03), −0.58 *2* (1973Jo08), −1.8 *+7−9* (1979Ve03) and −1.1 *3* (1980Ru03) from ^{110}Ag β^- decay (249.83 d).
		763.9424# *17*	90.2# *3*	2162.8015	3+	E2		0.00215	α(K)=0.00186 *3*; α(L)=0.000230 *4*; α(M)=4.42×10^{-5} *7*; α(N+..)=8.26×10^{-6} *12* α(N)=7.83×10^{-6} *11*; α(O)=4.32×10^{-7} *6* Mult.: From A_2=+0.31 *1*, A_4=−0.13 *1* (1990Ke02) in

$^{110}_{48}$Cd$_{62}$-29

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[c]	α[†]	Comments
									^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). Other:E2(+M3) with δ=−0.10 +2−3 (1979Ve03) in ^{110}Ag β^- decay (249.83 d). Other δ=Infinite (1970Kr03).
2926.7474	5+	1384.2931[#] 20	100.0[#] 19	1542.4441	4+	M1+E2	−0.44 1	6.82×10^{-4}	α(K)=0.000562 8; α(L)=6.55×10^{-5} 10; α(M)=1.252×10^{-5} 18; α(N+..)=4.25×10^{-5} 6 α(N)=2.24×10^{-6} 4; α(O)=1.331×10^{-7} 19; α(IPF)=4.01×10^{-5} 6 Mult.: From α(K)exp=0.00055 4 (1967Mo12). δ: Weighted average of −0.37 3 (1970Kr03), −0.46 1 (1973Jo08), −0.39 2 (1978Wa07), −0.42 +7−6 (1979Ve03), and −0.44 2 (1980Ru03) in ^{110}Ag β^- decay (249.83 d).
2975.24	1+,2+	2317.41[&] 4	100.0[&] 17	657.7623	2+	M1+E2	−0.16 12	6.67×10^{-4}	α(K)=0.000201 3; α(L)=2.31×10^{-5} 4; α(M)=4.41×10^{-6} 7; α(N+..)=0.000439 7 α(N)=7.90×10^{-7} 12; α(O)=4.74×10^{-8} 7; α(IPF)=0.000438 7 Mult.: From ^{110}In ε decay (69.1 min). δ: From 1992De41.
		2975.29[&] 6	8.5[&] 3	0.0	0+				I_γ: 15 5 in ^{110}In ε decay (69.1 min).
2984.46	2+,3+	905.7[@] 2	27[@] 7	2078.548	3−	[E1]		5.88×10^{-4}	α(K)=0.000515 8; α(L)=5.97×10^{-5} 9; α(M)=1.138×10^{-5} 16; α(N+..)=2.15×10^{-6} 3 α(N)=2.03×10^{-6} 3; α(O)=1.187×10^{-7} 17 B(E1)(W.u.)=0.0006 +3−6
		1441.9[@] 6	100[@]	1542.4441	4+	[M1,E2]		6.56×10^{-4}	α(K)=0.000526 8; α(L)=6.12×10^{-5} 9; α(M)=1.170×10^{-5} 17; α(N+..)=5.73×10^{-5} 9 α(N)=2.09×10^{-6} 3; α(O)=1.249×10^{-7} 18; α(IPF)=5.51×10^{-5} 8
		2326.9[@] 2	40[@] 7	657.7623	2+	M1+E2		6.70×10^{-4}	α(K)=0.000199 3; α(L)=2.30×10^{-5} 4; α(M)=4.38×10^{-6} 7; α(N+..)=0.000443 7 α(N)=7.84×10^{-7} 11; α(O)=4.71×10^{-8} 7; α(IPF)=0.000442 7 Mult.: From A_2=−0.50 18, A_4=+0.02 18 (1992De41) in ^{110}Cd(n,n′γ). δ: −1.9 +12−7 or −0.3 +3−2 (1992De41) in ^{110}Cd(n,n′γ).
2984.48	(5−)	1442.03[a] 6	100[a]	1542.4441	4+	D			Mult.: From A_2=−0.17 4 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: −0.01 9 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
2993.63	(0+)	1517.83[@] 17	100[@]	1475.7900	2+				

$^{110}_{48}Cd_{62}$-30

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
2994.07	$(3^+,4^+)$	1451.62[@] *8*	100[@]	1542.4441	4^+				
3008.4?	$1,2^+$	2350.7[@] *10*	100[@] *40*	657.7623	2^+				
		3008.3[@] *10*	80[@] *40*	0.0	0^+				
3029.077	7^-	149.88[@] *30*	15.7[@] *10*	2879.185	7^-	M1(+E2)	−0.08 *22*	0.152 *16*	α(K)=0.131 *12*; α(L)=0.016 *3*; α(M)=0.0032 *6*; α(N+..)=0.00059 *11* α(N)=0.00056 *10*; α(O)=3.20×10^{-5} *20* B(M1)(W.u.)=(0.0016 *6*); B(E2)(W.u.)=(0.4 *+21−4*) Mult.: From A_2=0.33 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		369.20[@] *10*	14.4[@] *16*	2659.866	5^-	E2		0.01662	α(K)=0.01420 *20*; α(L)=0.00197 *3*; α(M)=0.000381 *6*; α(N+..)=6.98×10^{-5} *10* α(N)=6.66×10^{-5} *10*; α(O)=3.15×10^{-6} *5* B(E2)(W.u.)=0.61 *22* Mult.: From A_2=+0.60 *9*, A_4=−0.35 *10* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		489.382[@] *15*	75.0[@] *7*	2539.691	5^-	E2		0.00708	α(K)=0.00610 *9*; α(L)=0.000802 *12*; α(M)=0.0001545 *22*; α(N+..)=2.86×10^{-5} *4* α(N)=2.72×10^{-5} *4*; α(O)=1.384×10^{-6} *20* B(E2)(W.u.)=0.8 *3* Mult.: From A_2=+0.34 *2*, A_4=−0.08 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		549.141[@] *17*	100.0[@] *20*	2479.9339	6^+	E1(+M2)	−0.04 *6*	0.00174 *13*	α(K)=0.00152 *11*; α(L)=0.000178 *14*; α(M)=3.4×10^{-5} *3*; α(N+..)=6.4×10^{-6} *6* α(N)=6.1×10^{-6} *5*; α(O)=3.5×10^{-7} *3* B(E1)(W.u.)=(2.8×10^{-6} *10*); B(M2)(W.u.)=(0.07 *+21−7*) Mult.: From A_2=−0.27 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: From ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02).
3042.86	1^+	1566.92 *10*		1475.7900	2^+				E_γ: From ^{110}Cd(n,n′γ).
		2385.22 *11*	18.3 *24*	657.7623	2^+				E_γ,I_γ: Eγ from ^{110}Cd(n,n′γ), Iγ from ^{110}Cd(γ,γ′).
		3042.98 *28*	100	0.0	0^+	M1		9.12×10^{-4}	α(K)=0.0001198 *17*; α(L)=1.374×10^{-5} *20*; α(M)=2.62×10^{-6} *4*; α(N+..)=0.000775 *11* α(N)=4.69×10^{-7} *7*; α(O)=2.82×10^{-8} *4*; α(IPF)=0.000775 *11* B(M1)(W.u.)=0.021 *3*

$^{110}_{48}Cd_{62}$-31

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									E_γ,I_γ: Eγ from $^{110}Cd(n,n'\gamma)$, Iγ from $^{110}Cd(\gamma,\gamma')$. Mult.: From $\gamma(\theta)$ and linear polarization in $^{110}Cd(\gamma,\gamma')$ (2005Ko32).
3055.703	8⁻	159.746[a] *15*	42.2[a] *7*	2895.948	6⁻	E2		0.283	α(K)=0.230 *4*; α(L)=0.0435 *6*; α(M)=0.00853 *12*; α(N+..)=0.001493 *21* α(N)=0.001447 *21*; α(O)=4.59×10⁻⁵ *7* B(E2)(W.u.)=19.2 *11* Mult.: From A_2=+0.34 *2*, A_4=−0.08 *3* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
		176.517[a] *12*	100.0[a] *11*	2879.185	7⁻	M1+E2	−1.03 *54*	0.15 *4*	α(K)=0.12 *3*; α(L)=0.020 *6*; α(M)=0.0039 *12*; α(N+..)=0.00070 *21* α(N)=0.00067 *20*; α(O)=2.7×10⁻⁵ *5* B(M1)(W.u.)=0.0005 *3*; B(E2)(W.u.)=14 *8* Mult.: From A_2=−0.96 *1*, A_4=+0.17 *2* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
3064.712	6⁺	270.4[@] *2*	70[@] *20*	2793.441	(4)⁺				
		584.21[&] *8*	100[&] *3*	2479.9339	6⁺	M1+E2	+0.0 *3*	0.00458	α(K)=0.00400 *6*; α(L)=0.000476 *7*; α(M)=9.12×10⁻⁵ *13*; α(N+..)=1.725×10⁻⁵ *25* α(N)=1.629×10⁻⁵ *23*; α(O)=9.59×10⁻⁷ *16* Mult.: K/(L+M)=9 *3* in ^{110}In ε decay (4.9 h)(1962Ka08). Other: A_2=+0.29 *2*, A_4=+0.19 *4* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$. δ: From $\gamma\gamma(\theta)$ in ^{110}In ε decay (4.92 h) (1980Ba58).
		844.667[&] *13*	50.0[&] *15*	2220.0683	4⁺	E2		1.68×10⁻³	α(K)=0.001463 *21*; α(L)=0.000179 *3*; α(M)=3.43×10⁻⁵ *5*; α(N+..)=6.43×10⁻⁶ *9* α(N)=6.09×10⁻⁶ *9*; α(O)=3.40×10⁻⁷ *5* Mult.: α(K)exp=0.00146 *8* in ^{110}In ε decay (4.92 h) (1980Ba58).
		1521.66[&] *20*	2.6[&] *5*	1542.4441	4⁺				
3074.971	6⁻	232.30[a] *4*	40.7[a] *12*	2842.682	(5)⁻	M1(+E2)	−0.044 *50*	0.0463	α(K)=0.0403 *6*; α(L)=0.00494 *8*; α(M)=0.000950 *15*; α(N+..)=0.000179 *3* α(N)=0.000169 *3*; α(O)=9.78×10⁻⁶ *14* Mult.: From A_2=−0.28 *2* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
		535.269[a] *18*	100.0[a] *23*	2539.691	5⁻	M1+E2	+1.4 *7*	0.00554 *10*	α(K)=0.00480 *10*; α(L)=0.000605 *12*;

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(M)=0.0001162 *24*; α(N+..)=2.17×10^{-5} *4* α(N)=2.06×10^{-5} *4*; α(O)=1.11×10^{-6} *4* Mult.: From A_2=+0.63 *2*, A_4=+0.14 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3074.971	6⁻	595.49[a] *14*	30.2[a] *12*	2479.9339	6⁺				
3078.381	1$^{(+)}$	790.81[&] *18*	3.4[&] *6*	2287.63	2⁺	[M1]		0.00226	α(K)=0.00197 *3*; α(L)=0.000233 *4*; α(M)=4.46×10^{-5} *7*; α(N+..)=8.44×10^{-6} *12* α(N)=7.97×10^{-6} *12*; α(O)=4.72×10^{-7} *7* B(M1)(W.u.)=0.0046 *13* I_γ: Other: 55 *18* in ^{110}Cd(n,n′γ).
		1602.57[&] *4*	23.0[&] *8*	1475.7900	2⁺	[M1]		5.93×10^{-4}	α(K)=0.000422 *6*; α(L)=4.90×10^{-5} *7*; α(M)=9.36×10^{-6} *14*; α(N+..)=0.0001123 *16* α(N)=1.674×10^{-6} *24*; α(O)=1.001×10^{-7} *14*; α(IPF)=0.0001105 *16* B(M1)(W.u.)=0.0037 *9*
		2420.51[&] *4*	100[&] *2*	657.7623	2⁺	[M1]		6.98×10^{-4}	α(K)=0.000185 *3*; α(L)=2.13×10^{-5} *3*; α(M)=4.06×10^{-6} *6*; α(N+..)=0.000488 *7* α(N)=7.26×10^{-7} *11*; α(O)=4.36×10^{-8} *7*; α(IPF)=0.000487 *7* B(M1)(W.u.)=0.0047 *11*
		3078.42[&] *4*	49.5[&] *15*	0.0	0⁺	(M1)		9.24×10^{-4}	α(K)=0.0001173 *17*; α(L)=1.345×10^{-5} *19*; α(M)=2.57×10^{-6} *4*; α(N+..)=0.000791 *11* α(N)=4.59×10^{-7} *7*; α(O)=2.76×10^{-8} *4*; α(IPF)=0.000790 *11* B(M1)(W.u.)=0.00114 *25* I_γ: Other:73 *18* in ^{110}Cd(n,n′γ). Mult.: D from γ(θ) in ^{110}Cd(γ,γ′) (2005Ko32).
3101.88	2⁺	184.4[@] *2*	77[@] *15*	2917.60	2⁺,3,4⁺				E_γ: Only observed in ^{110}Cd(n,n′γ).
		1023.05[&] *5*	21[&] *4*	2078.80	0⁺				
		1626.17[&] *6*	18.4[&] *13*	1475.7900	2⁺				
		2444.05[&] *4*	100[&] *2*	657.7623	2⁺				
		3102.00[&] *18*	1.7[&] *3*	0.0	0⁺				
3121.62	6⁺	461.80[&] *13*	18[&]	2659.866	5⁻				
		560.32[&] *11*	7.2[&] *4*	2561.284	4⁺	E2		0.00483	α(K)=0.00417 *6*; α(L)=0.000536 *8*; α(M)=0.0001032 *15*; α(N+..)=1.92×10^{-5} *3* α(N)=1.82×10^{-5} *3*; α(O)=9.54×10^{-7} *14* Mult.: α(K)exp=3.8×10^{-3} *5* (1980Ba58) from ^{110}In ε decay (4.9 h).
		581.93[&] *9*	33.0[&] *11*	2539.691	5⁻	E1(+M2)	−0.01 *10*	0.00150 *15*	α(K)=0.00131 *13*; α(L)=0.000154 *17*; α(M)=2.9×10^{-5} *4*; α(N+..)=5.5×10^{-6} *6* α(N)=5.2×10^{-6} *6*; α(O)=3.0×10^{-7} *4* Mult.: From A_2=−0.19 *7* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). δ: From 1990Ke02 in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).

$^{110}_{48}Cd_{62}$-33

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E_i(level)	J^{π}_i	E_{γ}[‡]	I_{γ}[‡]	E_f	J^{π}_f	Mult.[b]	δ[c]	α[†]	Comments
		641.68[&] *5*	100.0[&] *23*	2479.9339	6^+	M1(+E2)		0.00367	α(K)=0.00320 *5*; α(L)=0.000380 *6*; α(M)=7.28×10^{-5} *11*;

$^{110}_{48}Cd_{62}$-34

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(N+..)=1.378×10^{-5} *20* α(N)=1.301×10^{-5} *19*; α(O)=7.68×10^{-7} *11* Mult.: α(K)exp=2.96×10^{-3} *21* (1980Ba58) from ^{110}In ε decay (4.9 h). Other: From A_2=+0.39 *5*, A_4=+0.11 *8* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3121.62	6^+	871.08[&] *5*	1.21[&] *15*	2250.554	4^+				
		901.53[&] *5*	7.6[&] *4*	2220.0683	4^+				
		1579.07[&] *12*	0.98[&] *23*	1542.4441	4^+				
3128.41	$1^+,2^+$	1344.88[&] *15*	63[&] *13*	1783.496	2^+				
		1652.70[&] *9*	93[&] *10*	1475.7900	2^+				
		3128.25[&] *10*	100[&] *7*	0.0	0^+				
3135.18	$2^+,3^+$	1592.7[@] *3*	30[@] *7*	1542.4441	4^+				
		2477.39[@] *7*	100[@] *7*	657.7623	2^+	M1+E2		7.16×10^{-4}	α(K)=0.0001766 *25*; α(L)=2.03×10^{-5} *3*; α(M)=3.88×10^{-6} *6*; α(N+..)=0.000515 *8* α(N)=6.94×10^{-7} *10*; α(O)=4.17×10^{-8} *6*; α(IPF)=0.000514 *8* Mult.: From A_2=+0.31 *7*, A_4=−0.02 *7* (2001Co01) in ^{110}Cd(n,n′γ).
3171.19	$2^+,3^+,4^+$	2513.4[@] *2*	100[@]	657.7623	2^+				
3184.53	$5^-,6^-$	342.02[a] *9*	42.5[a] *13*	2842.682	$(5)^-$	M1+E2	+0.23 *5*	0.0173 *3*	α(K)=0.01501 *23*; α(L)=0.00184 *3*; α(M)=0.000353 *6*; α(N+..)=6.64×10^{-5} *11* α(N)=6.28×10^{-5} *11*; α(O)=3.61×10^{-6} *6* Mult.: From A_2=+0.08 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		644.82[a] *3*	100[a] *4*	2539.691	5^-	M1+E2	+0.26 *7*	0.00361 *6*	α(K)=0.00315 *5*; α(L)=0.000375 *6*; α(M)=7.18×10^{-5} *11*; α(N+..)=1.358×10^{-5} *20* α(N)=1.282×10^{-5} *18*; α(O)=7.53×10^{-7} *11* Mult.: From A_2=+0.11 *6* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3187.337	8^+	707.40[&] *2*	100[&]	2479.9339	6^+	E2		0.00260	α(K)=0.00226 *4*; α(L)=0.000281 *4*; α(M)=5.40×10^{-5} *8*; α(N+..)=1.008×10^{-5} *15* α(N)=9.56×10^{-6} *14*; α(O)=5.21×10^{-7} *8* B(E2)(W.u.)=1.85 *21* Mult.: α(K)exp=2.61×10^{-3} *16* (1980Ba58), 2.9×10^{-3} *6* (1970Ko12). K/(L+M)=6.0 *5* (1962Ka08). DCO=1.47 *6* (1994Ju04).
3193.40	$(3)^+$	1030.0[@] *5*	50[@] *17*	2162.8015	3^+				E_γ: Only observed in ^{110}Cd(n,n′γ).
		1410.08[&] *8*	15.1[&] *18*	1783.496	2^+				
		1717.70[&] *10*	13.7[&] *14*	1475.7900	2^+				

From ENSDF

$^{110}_{48}Cd_{62}$-35

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
3193.40	$(3)^+$	2535.55[&] *4*	100.0[&] *23*	657.7623	2^+				
3208.69	$2^+,3^+$	1666.23[&] *7*	100[&]	1542.4441	4^+				
3239.56	6^+	360.7[a] *4*	8.8[a] *13*	2879.185	7^-	E1		0.00478	α(K)=0.00417 *6*; α(L)=0.000494 *7*; α(M)=9.44×10^{-5} *14*; α(N+..)=1.77×10^{-5} *3* α(N)=1.674×10^{-5} *24*; α(O)=9.38×10^{-7} *14* Mult.: From A_2=−0.02 *9* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		397.18[ad] *15*	52[a] *3*	2842.682	$(5)^-$	E1		0.00374	α(K)=0.00327 *5*; α(L)=0.000386 *6*; α(M)=7.38×10^{-5} *11*; α(N+..)=1.383×10^{-5} *20* α(N)=1.309×10^{-5} *19*; α(O)=7.37×10^{-7} *11* Mult.: From A_2=+0.29 *6* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		760.0[a] *6*	100[a] *3*	2479.9339	6^+	M1+E2	+0.29 *10*	0.00245	α(K)=0.00214 *4*; α(L)=0.000254 *4*; α(M)=4.86×10^{-5} *8*; α(N+..)=9.18×10^{-6} *14* α(N)=8.67×10^{-6} *13*; α(O)=5.11×10^{-7} *9* Mult.: From A_2=+0.36 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). M1 from α(K)exp=2.2×10^{-3} *1* (1980Ba58) in ^{110}In ε decay (4.9 h).
		1018.99[a] *6*	39.1[a] *16*	2220.0683	4^+			0.001094 *16*	α(K)=0.000953 *14*; α(L)=0.0001145 *16*; α(M)=2.19×10^{-5} *3*; α(N+..)=4.12×10^{-6} α(N)=3.90×10^{-6} *6*; α(O)=2.22×10^{-7} *4*
		1697.77[&] *7*	8.1[&] *3*	1542.4441	4^+				
3256.49	$1^+,2^+,3^+$	2598.69[@] *14*	100[@]	657.7623	2^+				
3275.449	8^+	398.5 *5*	1.05 *14*	2876.812	6^+	[E2]		0.01310	α(K)=0.01122 *17*; α(L)=0.001534 *23*; α(M)=0.000296 *5*; α(N+..)=5.43×10^{-5} *8* α(N)=5.18×10^{-5} *8*; α(O)=2.51×10^{-6} *4* B(E2)(W.u.)=27 *8*
		795.5 *1*	100.0 *9*	2479.9339	6^+	E2		0.00194	α(K)=0.001688 *24*; α(L)=0.000208 *3*; α(M)=3.98×10^{-5} *6*; α(N+..)=7.46×10^{-6} *11* α(N)=7.07×10^{-6} *10*; α(O)=3.92×10^{-7} *6* B(E2)(W.u.)=80 *22* Mult.: From A_2=0.327 *14*, A_4=−0.077 *21* and linear polarization measurements (1974Lu01).
3277.86	(1^+)	2620.00 *14*		657.7623	2^+	[M1]		7.63×10^{-4}	α(K)=0.0001587 *23*; α(L)=1.82×10^{-5} *3*; α(M)=3.48×10^{-6} *5*; α(N+..)=0.000582 *9* α(N)=6.23×10^{-7} *9*; α(O)=3.74×10^{-8} *6*; α(IPF)=0.000582 *9*

$^{110}_{48}Cd_{62}$-36

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
3277.86	(1$^+$)	3281		0.0	0$^+$	(M1)		9.96×10^{-4}	α(K)=0.0001044 *15*; α(L)=1.195×10^{-5} *17*; α(M)=2.28×10^{-6} *4*; α(N+..)=0.000878 *13* α(N)=4.08×10^{-7} *6*; α(O)=2.45×10^{-8} *4*; α(IPF)=0.000877 *13* E_γ,Mult.: From ^{110}Cd(γ,γ′) (2005Ko32); POL=+0.03 *6*.
3298.13	1$^-$	2640.1[@] *7*	67[@] *22*	657.7623	2$^+$	[E1]		1.12×10^{-3}	α(K)=8.58×10^{-5} *12*; α(L)=9.73×10^{-6} *14*; α(M)=1.85×10^{-6} *3*; α(N+..)=0.001020 *15* α(N)=3.31×10^{-7} *5*; α(O)=1.98×10^{-8} *3*; α(IPF)=0.001020 *15* B(E1)(W.u.)=4.8×10^{-5} *19*
		3298.1[@] *2*	100[@] *22*	0.0	0$^+$	(E1)		1.43×10^{-3}	α(K)=6.27×10^{-5} *9*; α(L)=7.09×10^{-6} *10*; α(M)=1.351×10^{-6} *19*; α(N+..)=0.001364 *19* α(N)=2.41×10^{-7} *4*; α(O)=1.448×10^{-8} *21*; α(IPF)=0.001363 *19* B(E1)(W.u.)=3.7×10^{-5} *11* Mult.: D from the intensity ratios W(90°)/W(127°) in ^{110}Cd(γ,γ′).
3314.334	2$^+$	958.56[&] *5*	17.0[&] *12*	2355.792	2$^+$				
		1151.70[&] *6*	12.3[&] *10*	2162.8015	3$^+$				
		1235.67[&] *4*	73.2[&] *20*	2078.548	3$^-$				
		1583.18[&] *20*	3.2[&] *12*	1731.31	0$^+$				
		1838.2[@] *4*	50[@] *25*	1475.7900	2$^+$				E_γ: Only observed in ^{110}Cd(n,n′γ).
		2656.55[&] *4*	100[&] *2*	657.7623	2$^+$				
		3315.2[@d] *7*	35.0[@] *7*	0.0	0$^+$				E_γ: Only observed in ^{110}Cd(n,n′γ).
3334.85	7$^-$	279.142[a] *25*	82.0[a] *16*	3055.703	8$^-$	M1(+E2)	+0.045 *40*	0.0287	α(K)=0.0250 *4*; α(L)=0.00304 *5*; α(M)=0.000585 *9*; α(N+..)=0.0001103 *16* α(N)=0.0001042 *15*; α(O)=6.04×10^{-6} *9* Mult.: From A_2=−0.205 *15* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		456.0[a] *2*	100[a] *7*	2879.185	7$^-$	M1+E2	−0.28 *19*	0.00836 *13*	α(K)=0.00728 *11*; α(L)=0.000881 *19*; α(M)=0.000169 *4*; α(N+..)=3.19×10^{-5} *7* α(N)=3.01×10^{-5} *6*; α(O)=1.74×10^{-6} *3* Mult.: From A_2=+0.25 *13* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3340.83		2683.03[@] *14*	100[@]	657.7623	2$^+$				
3345.810	9$^-$	290.09[a] *3*	10.38[a] *23*	3055.703	8$^-$	M1+E2	+0.54 *19*	0.0283 *14*	α(K)=0.0244 *11*; α(L)=0.00315 *23*;

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^{π}_i	E_{γ}[‡]	I_{γ}[‡]	E_f	J^{π}_f	Mult.[b]	δ[c]	α[†]	Comments
									α(M)=0.00061 *5*; α(N+..)=0.000113 *8* α(N)=0.000107 *8*; α(O)=5.74×10^{-6} *17* B(M1)(W.u.)=0.00133 *23*; B(E2)(W.u.)=3.8 *21* Mult.: From A_2=+0.43 *3*, A_4=+0.19 *3* in (1990Ke02) ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3345.810	9$^-$	466.624[a] *20*	100.0[a] *12*	2879.185	7$^-$	E2		0.00814	α(K)=0.00700 *10*; α(L)=0.000928 *13*; α(M)=0.000179 *3*; α(N+..)=3.30×10^{-5} *5* α(N)=3.14×10^{-5} *5*; α(O)=1.583×10^{-6} *23* B(E2)(W.u.)=15.0 *10* Mult.: From A_2=+0.36 *2*, A_4=−0.10 *2* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02).
3359.06	1$^-$	3359.0[@] *2*	100[@]	0.0	0$^+$	E1		1.46×10^{-3}	α(K)=6.11×10^{-5} *9*; α(L)=6.91×10^{-6} *10*; α(M)=1.317×10^{-6} *19*; α(N+..)=0.001394 *20* α(N)=2.35×10^{-7} *4*; α(O)=1.412×10^{-8} *20*; α(IPF)=0.001394 *20* B(E1)(W.u.)=0.000664 *12* Mult.: From $\gamma(\theta)$ and POL in ^{110}Cd(γ,γ') (2005Ko32).
3366.8	1$^+$,2$^+$,3$^+$,4$^+$	2709.0[@] *4*	100[@]	657.7623	2$^+$				
3391.177	(7)$^-$	316.25[ad] *25*	12.2[a] *13*	3074.971	6$^-$	M1+E2		0.0208	α(K)=0.0181 *3*; α(L)=0.00220 *4*; α(M)=0.000422 *6*; α(N+..)=7.97×10^{-5} *12* α(N)=7.53×10^{-5} *11*; α(O)=4.38×10^{-6} *7* Mult.: From A_2=+0.30 *11* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). No δ given by 1990Ke02.
		495.227[a] *10*	100.0[a] *22*	2895.948	6$^-$	M1+E2	+0.16 *2*	0.00682	α(K)=0.00594 *9*; α(L)=0.000713 *10*; α(M)=0.0001366 *20*; α(N+..)=2.58×10^{-5} *4* α(N)=2.44×10^{-5} *4*; α(O)=1.427×10^{-6} *20* Mult.: From A_2=+0.01 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		512.3 *7*		2879.185	7$^-$				
		912.2[a] *4*	54[a] *7*	2479.9339	6$^+$	(E1)		5.80×10^{-4}	α(K)=0.000508 *8*; α(L)=5.88×10^{-5} *9*; α(M)=1.122×10^{-5} *16*; α(N+..)=2.12×10^{-6} *3* α(N)=2.00×10^{-6} *3*; α(O)=1.170×10^{-7} *17* Mult.: From A_2=−0.19 *19* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3403.29	(1$^-$)	2745.45[&] *6*	100[&] *3*	657.7623	2$^+$				
		3403.48[&] *15*	24.4[&] *22*	0.0	0$^+$				

$^{110}_{48}Cd_{62}$-38

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[c]	α[†]	Comments
3427.27	8^-	371.6 *5*	11 *4*	3055.703	8^-	M1+E2	−0.25 *15*	0.0140 *3*	α(K)=0.01216 *23*; α(L)=0.00148 *5*; α(M)=0.000285 *9*; α(N+..)=5.37×10^{-5} *15* α(N)=5.07×10^{-5} *15*; α(O)=2.92×10^{-6} *5* B(M1)(W.u.)=0.006 *3*; B(E2)(W.u.)=2.4 *+29−24* I_γ: 16.7 *9* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). Mult.: From A_2=+0.28 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		531 *1*	3.7 *19*	2895.948	6^-	[E2]		0.00561	α(K)=0.00484 *8*; α(L)=0.000628 *10*; α(M)=0.0001208 *19*; α(N+..)=2.24×10^{-5} *4* α(N)=2.13×10^{-5} *4*; α(O)=1.103×10^{-6} *17* B(E2)(W.u.)=2.3 *13*
		548.2 *3*	100 *11*	2879.185	7^-	M1+E2	−0.14 *4*	0.00533	α(K)=0.00465 *7*; α(L)=0.000555 *8*; α(M)=0.0001064 *15*; α(N+..)=2.01×10^{-5} *3* α(N)=1.90×10^{-5} *3*; α(O)=1.115×10^{-6} *16* B(M1)(W.u.)=0.019 *4*; B(E2)(W.u.)=1.0 *6* Mult.: Other: DCO=0.50 *5* in (HI,xnγ).
3439.719	8^+	164.26[a] *2*	11.5[a] *4*	3275.449	8^+	M1(+E2)	+0.22 *27*	0.123 *21*	α(K)=0.106 *16*; α(L)=0.014 *4*; α(M)=0.0027 *8*; α(N+..)=0.00050 *13* α(N)=0.00047 *13*; α(O)=2.6×10^{-5} *3* B(M1)(W.u.)=0.8 *+4−6* Mult.: From A_2=0.42 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) Other:DCO=1.39 *9* in (HI,xnγ).
		562.907[a] *25*	30.7[a] *7*	2876.812	6^+	E2		0.00477	α(K)=0.00412 *6*; α(L)=0.000529 *8*; α(M)=0.0001018 *15*; α(N+..)=1.89×10^{-5} *3* α(N)=1.80×10^{-5} *3*; α(O)=9.42×10^{-7} *14* B(E2)(W.u.)=1.5×10^2 *+6−10* Mult.: From A_2=+0.46 *3*, A_4=−0.08 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		959.785[a] *10*	100.0[a] *14*	2479.9339	6^+	E2		1.25×10^{-3}	α(K)=0.001089 *16*; α(L)=0.0001316 *19*; α(M)=2.52×10^{-5} *4*; α(N+..)=4.73×10^{-6} *7* α(N)=4.48×10^{-6} *7*; α(O)=2.54×10^{-7} *4* B(E2)(W.u.)=34 *+13−22* Mult.: From A_2=+0.36 *3*, A_4=−0.12 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3449.6	(1,2)	1973.8[@] *3*	100[@]	1475.7900	2^+				
3466.39	1,2,3	2808.59[&] *4*	100[&]	657.7623	2^+				
3475.416	1^+	1744.10[&] *7*	8.5[&] *5*	1731.31	0^+	[M1]		5.73×10^{-4}	α(K)=0.000355 *5*; α(L)=4.11×10^{-5} *6*; α(M)=7.85×10^{-6} *11*; α(N+..)=0.0001690 *24*

$^{110}_{48}Cd_{62}$-39

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^{π}_i	E_γ[‡]	I_γ[‡]	E_f	J^{π}_f	Mult.[b]	δ[c]	α[†]	Comments
									α(K)=0.000355 *5*; α(L)=4.11×10^{-5} *6*; α(M)=7.85×10^{-6} *11*; α(N+..)=0.0001690 *24* α(N)=1.403×10^{-6} *20*; α(O)=8.40×10^{-8} *12*; α(IPF)=0.0001675 *24* B(M1)(W.u.)=0.0035 *3*
3475.416	1$^+$	2002.37[&] *5*	22.4[&] *5*	1473.07	0$^+$	[M1]		5.91×10^{-4}	α(K)=0.000268 *4*; α(L)=3.10×10^{-5} *5*; α(M)=5.92×10^{-6} *9*; α(N+..)=0.000286 *4* α(N)=1.058×10^{-6} *15*; α(O)=6.34×10^{-8} *9*; α(IPF)=0.000285 *4* B(M1)(W.u.)=0.0061 *4*
		2817.61[&] *7*	9.8[&] *5*	657.7623	2$^+$	[M1]		8.32×10^{-4}	α(K)=0.0001383 *20*; α(L)=1.587×10^{-5} *23*; α(M)=3.03×10^{-6} *5*; α(N+..)=0.000675 *10* α(N)=5.42×10^{-7} *8*; α(O)=3.26×10^{-8} *5*; α(IPF)=0.000674 *10* B(M1)(W.u.)=0.00095 *8*
		3475.34[&] *3*	100[&] *3*	0.0	0$^+$	(M1)		1.06×10^{-3}	α(K)=9.41×10^{-5} *14*; α(L)=1.076×10^{-5} *15*; α(M)=2.05×10^{-6} *3*; α(N+..)=0.000958 *14* α(N)=3.67×10^{-7} *6*; α(O)=2.21×10^{-8} *3*; α(IPF)=0.000958 *14* B(M1)(W.u.)=0.0052 *4* Mult.: D from intensity ratios W(90°)/W(127°) in ^{110}Cd(γ,γ') (2005Ko32).
3492.64	(5$^-$,6$^-$)	566.02[ad] *12*	43.9[a] *18*	2926.7474	5$^+$				
		952.9[a] *4*	100[a] *5*	2539.691	5$^-$				
		1012.70[a] *6*	42[a] *5*	2479.9339	6$^+$				
3493.1		2835.3[@] *4*	100[@]	657.7623	2$^+$				
3525.34	6$^+$	460.85[a] *8*	100[a] *3*	3064.712	6$^+$	E2(+M1)		0.00812	α(K)=0.00708 *10*; α(L)=0.000849 *12*; α(M)=0.0001628 *23*; α(N+..)=3.08×10^{-5} *5* α(N)=2.91×10^{-5} *4*; α(O)=1.704×10^{-6} *24* Mult.: From A$_2$=+0.31 *6*, A$_4$=−0.14 *9* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		648.58[&] *8*	17[&] *4*	2876.812	6$^+$	M1+E2	+0.20 +*10*−*12*	0.00357 *6*	α(K)=0.00311 *5*; α(L)=0.000370 *6*; α(M)=7.09×10^{-5} *10*; α(N+..)=1.341×10^{-5} *19* α(N)=1.266×10^{-5} *18*; α(O)=7.45×10^{-7} *12* Mult.: From α(K)exp=4.2×10^{-3} *12* (1979Sy02) in ^{110}In ε decay (4.9 h).

From ENSDF

$^{110}_{48}Cd_{62}$-40

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									α(K)=0.00311 *5*; α(L)=0.000370 *6*; α(M)=7.09×10^{-5} *10*; α(N+..)=1.341×10^{-5} *19* α(N)=1.266×10^{-5} *18*; α(O)=7.45×10^{-7} *12* Mult.: From α(K)exp=4.2×10^{-3} *12* (1979Sy02) in ^{110}In ε decay (4.9 h). δ: From $\gamma\gamma(\theta)$ in ^{110}In ε decay (4.9 h) (1980Ba58).
3525.34	6$^+$	1045.24[&] *9*	35.7[&] *17*	2479.9339	6$^+$	M1(+E2)	+0.3 *3*	0.00119 *4*	α(K)=0.00104 *4*; α(L)=0.000122 *4*; α(M)=2.34×10^{-5} *7*; α(N+..)=4.43×10^{-6} *13* α(N)=4.18×10^{-6} *12*; α(O)=2.48×10^{-7} *9* Mult.: From α(K)exp=1.0×10^{-3} *2* (1980Ba58). δ: From $\gamma\gamma(\theta)$ in ^{110}In ε decay (4.9 h) (1980Ba58).
		1305.11[&] *9*	15.2[&] *13*	2220.0683	4$^+$				
		1982.77[&] *18*	17.0[&] *4*	1542.4441	4$^+$				
3598.0	1$^+$	3597.9[@] *7*	100[@]	0.0	0$^+$	M1		1.11×10^{-3}	B(M1)(W.u.)=0.0067 *6* α(K)=8.85×10^{-5} *13*; α(L)=1.011×10^{-5} *15*; α(M)=1.93×10^{-6} *3*; α(N+..)=0.001008 *15* α(N)=3.45×10^{-7} *5*; α(O)=2.08×10^{-8} *3*; α(IPF)=0.001007 *15* Mult.: From $\gamma(\theta)$ and linear polarization measurements in ^{110}Cd(γ,γ') (2005Ko32).
3611.041	10$^+$	171.33 *2*	14.81 *11*	3439.719	8$^+$	E2		0.221	α(K)=0.181 *3*; α(L)=0.0329 *5*; α(M)=0.00645 *9*; α(N+..)=0.001134 *16* α(N)=0.001097 *16*; α(O)=3.65×10^{-5} *6* B(E2)(W.u.)=29.1 *15* E_γ: From ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). I_γ: From (HI,xnγ). Mult.: From A_2=+0.22 *2*, A_4=−0.08 *3* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		265.218 *20*	5.23 *22*	3345.810	9$^-$	E1(+M2)	−0.014 *16*	0.01078 *19*	α(K)=0.00940 *16*; α(L)=0.001123 *21*; α(M)=0.000214 *4*; α(N+..)=4.00×10^{-5} *8* α(N)=3.79×10^{-5} *7*; α(O)=2.08×10^{-6} *4* B(E1)(W.u.)=(1.33×10^{-6} *9*); B(M2)(W.u.)=(0.017 *+39−17*) E_γ: From ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). I_γ: From (HI,xnγ). Mult.: From A_2=−0.27 *2* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).

$^{110}_{48}Cd_{62}$-41

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
3611.041	10+	335.596 15	100.0 10	3275.449	8+	E2		0.0225	α(K)=0.0192 3; α(L)=0.00273 4; α(M)=0.000528 8; α(N+..)=9.61×10^{-5} 14 α(N)=9.19×10^{-5} 13; α(O)=4.22×10^{-6} 6 B(E2)(W.u.)=6.8 4 E_γ: From ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). I_γ: From (HI,xnγ). Mult.: From A_2=+0.35 2, A_4=−0.10 3 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) and A_2=0.333 11, A_4=−0.093 16 in (HI,xnγ).
		423.5 3	2.27 22	3187.337	8+	E2		0.01088	α(K)=0.00933 14; α(L)=0.001260 18; α(M)=0.000243 4; α(N+..)=4.47×10^{-5} 7 α(N)=4.26×10^{-5} 6; α(O)=2.10×10^{-6} 3 B(E2)(W.u.)=0.048 6 Mult.: DCO=1.7 4 in (HI,xnγ).
3634.57	2+	1555.76[&] 21	28[&] 9	2078.548	3−				
		1851.15[&] 13	100[&] 9	1783.496	2+				
3641.10	8−	566.02[ad] 12	43.1[a] 17	3074.971	6−	(E2)		0.00469	α(K)=0.00405 6; α(L)=0.000521 8; α(M)=0.0001002 14; α(N+..)=1.86×10^{-5} 3 α(N)=1.767×10^{-5} 25; α(O)=9.28×10^{-7} 13 I_γ: Iγ for unresolved doublet in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		611.80[a] 15	24[a] 7	3029.077	7−	M1+E2		0.00411	α(K)=0.00358 5; α(L)=0.000426 6; α(M)=8.16×10^{-5} 12; α(N+..)=1.544×10^{-5} 22 α(N)=1.458×10^{-5} 21; α(O)=8.59×10^{-7} 12 Mult.: From ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02) but no δ given.
		761.93[a] 4	100[a] 4	2879.185	7−	M1+E2	+0.057 24	0.00246	α(K)=0.00215 3; α(L)=0.000254 4; α(M)=4.86×10^{-5} 7; α(N+..)=9.20×10^{-6} 13 α(N)=8.68×10^{-6} 13; α(O)=5.14×10^{-7} 8 Mult.: From A_2=−0.14 3 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3683.15	9−	255.74[ad] 15	4.77[a] 25	3427.27	8−	M1+E2	−0.12 11	0.0363 9	α(K)=0.0315 7; α(L)=0.00387 14; α(M)=0.00074 3; α(N+..)=0.000140 5 α(N)=0.000133 5; α(O)=7.62×10^{-6} 14 Mult.: From A_2=−0.42 1 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		337.40 7	15.6 5	3345.810	9−	M1+E2		0.01765	α(K)=0.01537 22; α(L)=0.00186 3; α(M)=0.000357 5; α(N+..)=6.75×10^{-5} 10 α(N)=6.37×10^{-5} 9; α(O)=3.71×10^{-6} 6

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
									Mult.: From A_2=+0.67 *9* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$. No reliable δ could be obtained by 1990Ke02.
3683.15	9−	627.59[a] *12*	65.8[a] *20*	3055.703	8−	M1+E2	−0.21 *7*	0.00385	α(K)=0.00336 *5*; α(L)=0.000400 *6*; α(M)=7.67×10^{-5} *11*; α(N+..)=1.450×10^{-5} *21* α(N)=1.370×10^{-5} *20*; α(O)=8.05×10^{-7} *12* Mult.: From DCO=0.90 *10* in (HI,xnγ) and A_2=−0.57 *4* (1990Ke02), in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
		654.00 *10*	100.0 *15*	3029.077	7−	E2		0.00318	α(K)=0.00276 *4*; α(L)=0.000347 *5*; α(M)=6.67×10^{-5} *10*; α(N+..)=1.243×10^{-5} *18* α(N)=1.180×10^{-5} *17*; α(O)=6.35×10^{-7} *9* Mult.: From A_2=+0.37 *3*, A_4=−0.06 *6* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
3726.58	1,2+	3726.51[&] *18*	100[&]	0.0	0+				
3772.77	1+	3114	30 *3*	657.7623	2+	[M1]		9.37×10^{-4}	α(K)=0.0001149 *16*; α(L)=1.316×10^{-5} *19*; α(M)=2.51×10^{-6} *4*; α(N+..)=0.000806 *12* α(N)=4.49×10^{-7} *7*; α(O)=2.70×10^{-8} *4*; α(IPF)=0.000806 *12* B(M1)(W.u.)=0.0131 *14* E_γ,I_γ: From $^{110}Cd(\gamma,\gamma')$.
		3772.70[@] *4*	100[@]	0.0	0+	M1		1.17×10^{-3}	α(K)=8.13×10^{-5} *12*; α(L)=9.29×10^{-6} *13*; α(M)=1.772×10^{-6} *25*; α(N+..)=0.001076 *15* α(N)=3.17×10^{-7} *5*; α(O)=1.91×10^{-8} *3*; α(IPF)=0.001076 *15* B(M1)(W.u.)=0.0246 *6* Mult.: Deduced from $\gamma(\theta)$ and linear polarization measurements in $^{110}Cd(\gamma,\gamma')$ (2005Ko32).
3782.13	9−	726.43[a] *4*	100.0[a] *22*	3055.703	8−	M1+E2	+0.15 *2*	0.00274	α(K)=0.00239 *4*; α(L)=0.000283 *4*; α(M)=5.42×10^{-5} *8*; α(N+..)=1.026×10^{-5} *15* α(N)=9.69×10^{-6} *14*; α(O)=5.72×10^{-7} *8* Mult.: From A_2=−0.00 *2* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.
		902.90[a] *15*	68.9[a] *15*	2879.185	7−	E2		1.44×10^{-3}	α(K)=0.001252 *18*; α(L)=0.0001521 *22*; α(M)=2.91×10^{-5} *4*; α(N+..)=5.47×10^{-6} *8* α(N)=5.18×10^{-6} *8*; α(O)=2.91×10^{-7} *4* I_γ: Other: 100 *12* in (HI,xnγ). Mult.: From A_2=+0.36 *2*, A_4=−0.18 *3* (1990Ke02) in $^{108}Pd(\alpha,2n\gamma)$,$^{110}Pd(\alpha,4n\gamma)$.

Adopted Levels, Gammas (continued)

γ(^{110}Cd) (continued)

E$_i$(level)	J$^\pi_i$	E$_\gamma$[‡]	I$_\gamma$[‡]	E$_f$	J$^\pi_f$	Mult.[b]	δ[c]	α[†]	Comments
3791.62	8$^+$	351.93[a] *7*	25.0[a] *16*	3439.719	8$^+$	M1(+E2)	−0.15 *24*	0.0159 *5*	α(K)=0.0139 *4*; α(L)=0.00169 *8*; α(M)=0.000324 *15*; α(N+..)=6.10×10^{-5} *25* α(N)=5.77×10^{-5} *25*; α(O)=3.34×10^{-6} *6* Mult.: From A$_2$=+0.30 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		914.50[a] *15*	100[a] *5*	2876.812	6$^+$	E2		1.40×10^{-3}	α(K)=0.001216 *17*; α(L)=0.0001475 *21*; α(M)=2.83×10^{-5} *4*; α(N+..)=5.30×10^{-6} *8* α(N)=5.02×10^{-6} *7*; α(O)=2.83×10^{-7} *4* Mult.: From A$_2$=+0.42 *11* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		1311.70[a] *6*	78[a] *3*	2479.9339	6$^+$	E2		6.65×10^{-4}	α(K)=0.000558 *8*; α(L)=6.58×10^{-5} *10*; α(M)=1.259×10^{-5} *18*; α(N+..)=2.87×10^{-5} *4* α(N)=2.24×10^{-6} *4*; α(O)=1.303×10^{-7} *19*; α(IPF)=2.63×10^{-5} *4* Mult.: From A$_2$=+0.30 *4* in (1990Ke02) ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3823.247	10$^-$	477.45[a] *4*	20.0[a] *6*	3345.810	9$^-$	M1+E2	−0.24 *8*	0.00746	α(K)=0.00650 *9*; α(L)=0.000783 *12*; α(M)=0.0001501 *22*; α(N+..)=2.83×10^{-5} *4* α(N)=2.68×10^{-5} *4*; α(O)=1.558×10^{-6} *22* B(M1)(W.u.)=0.0091 *9*; B(E2)(W.u.)=1.9 *12* I$_\gamma$: Other: 14.8 *9* in (HI,xnγ). Mult.: From DCO=0.60 *6* in (HI,xnγ) and A$_2$=−0.61 *4*, A$_4$=+0.13 *6* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02).
		767.532[a] *20*	100.0[a] *12*	3055.703	8$^-$	E2		0.00212	α(K)=0.00184 *3*; α(L)=0.000227 *4*; α(M)=4.36×10^{-5} *7*; α(N+..)=8.16×10^{-6} *12* α(N)=7.74×10^{-6} *11*; α(O)=4.27×10^{-7} *6* B(E2)(W.u.)=16.1 *14* Mult.: From A$_2$=−0.36 *3*, A$_4$=−0.13 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
3854.1	(1$^+$)	3854	100	0.0	0$^+$	(M1)		1.19×10^{-3}	α(K)=7.83×10^{-5} *11*; α(L)=8.95×10^{-6} *13*; α(M)=1.706×10^{-6} *24*; α(N+..)=0.001105 *16* α(N)=3.05×10^{-7} *5*; α(O)=1.84×10^{-8} *3*; α(IPF)=0.001105 *16* B(M1)(W.u.)=0.0084 *11* E$_\gamma$,I$_\gamma$: From ^{110}Cd(γ,γ′). Mult.: POL=+0.09 *7* for the 3854+3862 keV doublet.
3861.9	(1$^+$)	3204	12 *4*	657.7623	2$^+$	[M1]		9.69×10^{-4}	α(K)=0.0001090 *16*; α(L)=1.249×10^{-5} *18*; α(M)=2.38×10^{-6} *4*; α(N+..)=0.000845 *12*

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	α[†]	Comments
								α(K)=0.0001090 *16*; α(L)=1.249×10^{-5} *18*; α(M)=2.38×10^{-6} *4*; α(N+..)=0.000845 *12* α(N)=4.26×10^{-7} *6*; α(O)=2.56×10^{-8} *4*; α(IPF)=0.000845 *12* B(M1)(W.u.)=0.0054 *19* E_γ,I_γ: From ^{110}Cd(γ,γ').
3861.9	(1$^+$)	3862	100	0.0	0$^+$	(M1)	1.20×10^{-3}	α(K)=7.81×10^{-5} *11*; α(L)=8.91×10^{-6} *13*; α(M)=1.700×10^{-6} *24*; α(N+..)=0.001108 *16* α(N)=3.04×10^{-7} *5*; α(O)=1.83×10^{-8} *3*; α(IPF)=0.001107 *16* B(M1)(W.u.)=0.0256 *14* E_γ,I_γ: From ^{110}Cd(γ,γ'). Mult.: Deduced from $\gamma(\theta)$ and linear polarization measurements in ^{110}Cd(γ,γ') (2005Ko32).
3992.79	(9$^-$)	1113.60[a] *15*	100[a]	2879.185	7$^-$	(E2)	9.01×10^{-4}	α(K)=0.000785 *11*; α(L)=9.37×10^{-5} *14*; α(M)=1.79×10^{-5} *3*; α(N+..)=4.19×10^{-6} *6* α(N)=3.19×10^{-6} *5*; α(O)=1.83×10^{-7} *3*; α(IPF)=8.12×10^{-7} *12* Mult.: From A_2=+0.53 *10* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4077.176	10$^+$	637.2 *5*	6.8 *9*	3439.719	8$^+$	E2	0.00341	α(K)=0.00295 *5*; α(L)=0.000373 *6*; α(M)=7.17×10^{-5} *11*; α(N+..)=1.335×10^{-5} *19* α(N)=1.267×10^{-5} *18*; α(O)=6.79×10^{-7} *10* B(E2)(W.u.)=15 *+4−5* Mult.: From DCO=1.5 *2*.
		801.724[a] *15*	100[a] *1*	3275.449	8$^+$	E2	0.00191	α(K)=0.001657 *24*; α(L)=0.000204 *3*; α(M)=3.91×10^{-5} *6*; α(N+..)=7.31×10^{-6} *11* α(N)=6.93×10^{-6} *10*; α(O)=3.84×10^{-7} *6* B(E2)(W.u.)=71 *+13−21* Mult.: From DCO=1.40 *6*.
4172.076	12$^+$	561.034[a] *10*	100[a]	3611.041	10$^+$	E2	0.00481	α(K)=0.00415 *6*; α(L)=0.000534 *8*; α(M)=0.0001028 *15*; α(N+..)=1.91×10^{-5} *3* α(N)=1.81×10^{-5} *3*; α(O)=9.50×10^{-7} *14* B(E2)(W.u.)=40.0 *15* Mult.: A_2=+0.36 *2*, A_4=−0.09 *3* (1990Ke02) from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4172.706	11$^-$	826.893[a] *18*	100[a]	3345.810	9$^-$	E2	1.77×10^{-3}	α(K)=0.001539 *22*; α(L)=0.000188 *3*; α(M)=3.61×10^{-5} *5*; α(N+..)=6.77×10^{-6} *10* α(N)=6.41×10^{-6} *9*; α(O)=3.57×10^{-7} *5* B(E2)(W.u.)=22.4 *16* Mult.: From A_2=+0.37 *1*, A_4=−0.13 *2* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4181.96	10$^-$	499.1 *5*	20 *7*	3683.15	9$^-$	D		Mult.: From DCO < 0.6.

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	δ[c]	α[†]	Comments
4181.96	10^-	754.69[a] *6*	100[a] *3*	3427.27	8^-	E2		0.00221	α(K)=0.00192 *3*; α(L)=0.000237 *4*; α(M)=4.56×10^{-5} *7*; α(N+..)=8.52×10^{-6} *12* α(N)=8.08×10^{-6} *12*; α(O)=4.45×10^{-7} *7* B(E2)(W.u.)=43 *7* Mult.: From A_2=+0.39 *1*, A_4=−0.13 *2* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		836.13[a] *10*	46.3[a] *18*	3345.810	9^-	M1+E2	−0.27 *8*	0.00197	α(K)=0.00172 *3*; α(L)=0.000203 *3*; α(M)=3.89×10^{-5} *6*; α(N+..)=7.36×10^{-6} *11* α(N)=6.95×10^{-6} *11*; α(O)=4.10×10^{-7} *7* B(M1)(W.u.)=0.0094 *15*; B(E2)(W.u.)=0.8 *5* I_γ: Other: 33 *7* from (HI,xnγ). Mult.: From DCO=0.46 *4* in (HI,xnγ) and A_2=−0.66 *4* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4334.26	10^-	694[d] *1*		3641.10	8^-				
		988.44[a] *6*	100[a]	3345.810	9^-	M1+E2	0.57 *12*	1.32×10^{-3} *2*	α(K)=0.001150 *21*; α(L)=0.0001358 *24*; α(M)=2.60×10^{-5} *5*; α(N+..)=4.91×10^{-6} *9* α(N)=4.64×10^{-6} *8*; α(O)=2.73×10^{-7} *6* Mult.: From DCO=1.6 *2*. Other: M1+E2 from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02). δ=0.57 *12* reported by 1990Ke02.
4421.62	(10^+)	1075.8[a] *2*	100[a]	3345.810	9^-	D			Mult.: From A_2=+0.35 *6* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4438.37	9^+	1251.03[a] *6*	100[a]	3187.337	8^+	M1+E2		8.27×10^{-4}	α(K)=0.000712 *10*; α(L)=8.31×10^{-5} *12*; α(M)=1.589×10^{-5} *23*; α(N+..)=1.571×10^{-5} *22* α(N)=2.84×10^{-6} *4*; α(O)=1.693×10^{-7} *24*; α(IPF)=1.270×10^{-5} *18* Mult.: From A_2=+0.06 *3* (1990Ke02) ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) but no δ given.
4559.12	11^-	735.83 *5*	38 *10*	3823.247	10^-	M1+E2	−0.07 *5*	0.00266	α(K)=0.00233 *4*; α(L)=0.000275 *4*; α(M)=5.27×10^{-5} *8*; α(N+..)=9.97×10^{-6} *14* α(N)=9.42×10^{-6} *14*; α(O)=5.57×10^{-7} *8* B(M1)(W.u.)=0.009 *+5−8*; B(E2)(W.u.)=0.07 *+10−7* E_γ: from ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). I_γ: From (HI,xnγ). Other: 17.4 *14* in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ). Mult.: From DCO=0.73 *14* in (HI,xnγ) and A_2=−0.37 *5* (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
		876.00[a] *5*	100[a] *5*	3683.15	9^-	E2		1.54×10^{-3}	α(K)=0.001343 *19*; α(L)=0.0001636 *23*; α(M)=3.14×10^{-5}

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$\gamma(^{110}Cd)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[b]	α[†]	Comments
								5; α(N+..)=5.88×10^{-6} 9 α(N)=5.57×10^{-6} 8; α(O)=3.12×10^{-7} 5 B(E2)(W.u.)=15 +7−13 Mult.: From A_2=+0.32 3, A_4=−0.10 4 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4620.2	10$^+$	1344.5 5	40 20	3275.449	8$^+$			
		1433.0 5	100 20	3187.337	8$^+$			Mult.: Note that mult.=M1+E2 was suggested in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02), while the decay scheme requires mult.=E2.
4736.81	11$^-$	954.64[a] 20	100[a]	3782.13	9$^-$	E2	1.27×10^{-3}	α(K)=0.001103 16; α(L)=0.0001332 19; α(M)=2.55×10^{-5} 4; α(N+..)=4.79×10^{-6} 7 α(N)=4.54×10^{-6} 7; α(O)=2.57×10^{-7} 4 Mult.: From DCO=1.7 4 in (HI,xnγ) and A_2=+0.35 5, A_4=−0.11 7 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4888.27	12$^+$	811.093[a] 20	100[a]	4077.176	10$^+$	E2	0.00185	α(K)=0.001611 23; α(L)=0.000198 3; α(M)=3.79×10^{-5} 6; α(N+..)=7.10×10^{-6} 10 α(N)=6.73×10^{-6} 10; α(O)=3.74×10^{-7} 6 B(E2)(W.u.)=37 4 Mult.: From DCO=1.46 6 in (HI,xnγ) and A_2=+0.35 2, A_4=−0.10 3 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
4930.26	12$^-$	757.7 5	6 1	4172.706	11$^-$	M1	0.00249	α(K)=0.00218 3; α(L)=0.000257 4; α(M)=4.92×10^{-5} 7; α(N+..)=9.32×10^{-6} 14 α(N)=8.80×10^{-6} 13; α(O)=5.21×10^{-7} 8 Mult.: From DCO=0.42 13.
		1107.0 3	100 10	3823.247	10$^-$	E2	9.13×10^{-4}	α(K)=0.000796 12; α(L)=9.50×10^{-5} 14; α(M)=1.82×10^{-5} 3; α(N+..)=4.07×10^{-6} 6 α(N)=3.24×10^{-6} 5; α(O)=1.86×10^{-7} 3; α(IPF)=6.50×10^{-7} 12 Mult.: From DCO=1.44 9.
5026.32	14$^+$	854.25[a] 7	100[a]	4172.076	12$^+$	E2	1.64×10^{-3}	α(K)=0.001425 20; α(L)=0.0001739 25; α(M)=3.33×10^{-5} 5; α(N+..)=6.25×10^{-6} 9 α(N)=5.92×10^{-6} 9; α(O)=3.31×10^{-7} 5 B(E2)(W.u.)=29 3 Mult.: From DCO=1.41 3 in (HI,xnγ) and A_2=+0.32 2, A_4=−0.14 3 (1990Ke02) in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
5092.56	12$^-$	910.6 3	100	4181.96	10$^-$	E2	1.41×10^{-3}	α(K)=0.001228 18; α(L)=0.0001490 21; α(M)=2.86×10^{-5} 4; α(N+..)=5.36×10^{-6} 8 α(N)=5.07×10^{-6} 8; α(O)=2.86×10^{-7} 4 B(E2)(W.u.)=8.7 11 Mult.: From DCO=1.48 10.

γ(^{110}Cd) (continued)

E$_i$(level)	J$^\pi_i$	E$_\gamma$‡	I$_\gamma$‡	E$_f$	J$^\pi_f$	Mult.[b]	α†	Comments
5113.6	12$^+$	941 1	<13	4172.076	12$^+$			
		1036.7 3	100 7	4077.176	10$^+$	E2	1.05×10^{-3}	α(K)=0.000917 13; α(L)=0.0001101 16; α(M)=2.11×10^{-5} 3; α(N+..)=3.96×10^{-6} 6 α(N)=3.75×10^{-6} 6; α(O)=2.14×10^{-7} 3 Mult.: From DCO=1.29 11.
5212.7	12$^-$	878.2 3	100	4334.26	10$^-$	E2	1.53×10^{-3}	α(K)=0.001335 19; α(L)=0.0001626 23; α(M)=3.12×10^{-5} 5; α(N+..)=5.85×10^{-6} 9 α(N)=5.53×10^{-6} 8; α(O)=3.10×10^{-7} 5 Mult.: From DCO=1.46 12.
5215.5	(11$^+$)	595.3 5	100	4620.2	10$^+$			
5248.93	13$^-$	1076.1 3	100	4172.706	11$^-$	E2	9.70×10^{-4}	α(K)=0.000846 12; α(L)=0.0001012 15; α(M)=1.94×10^{-5} 3; α(N+..)=3.64×10^{-6} 6 α(N)=3.45×10^{-6} 5; α(O)=1.97×10^{-7} 3 B(E2)(W.u.)>8.9 Mult.: From DCO=1.40 8.
5497.29	13$^-$	937 1	100 10	4559.12	11$^-$			
		1324.6 5	40 10	4172.706	11$^-$			
		1325.6 5	80 20	4172.076	12$^+$			
5500.00	13$^+$	1327.9 3	100	4172.076	12$^+$	M1	7.42×10^{-4}	α(K)=0.000627 9; α(L)=7.30×10^{-5} 11; α(M)=1.396×10^{-5} 20; α(N+..)=2.88×10^{-5} 4 α(N)=2.50×10^{-6} 4; α(O)=1.489×10^{-7} 21; α(IPF)=2.62×10^{-5} 4 Mult.: From DCO=1.05 14.
5675.5	14$^+$	787.1 3	100 4	4888.27	12$^+$	E2	0.00199	α(K)=0.001732 25; α(L)=0.000213 3; α(M)=4.09×10^{-5} 6; α(N+..)=7.66×10^{-6} 11 α(N)=7.26×10^{-6} 11; α(O)=4.02×10^{-7} 6 Mult.: From DCO=1.50 6.
		1504 1	48 6	4172.076	12$^+$	E2	5.68×10^{-4}	α(K)=0.000424 6; α(L)=4.97×10^{-5} 7; α(M)=9.50×10^{-6} 14; α(N+..)=8.49×10^{-5} 13 α(N)=1.694×10^{-6} 24; α(O)=9.92×10^{-8} 14; α(IPF)=8.31×10^{-5} 13 Mult.: From DCO=1.7 3.
5758.52	13$^-$	509.8 5	31 6	5248.93	13$^-$	M1	0.00635	α(K)=0.00554 8; α(L)=0.000662 10; α(M)=0.0001270 18; α(N+..)=2.40×10^{-5} 4 α(N)=2.27×10^{-5} 4; α(O)=1.332×10^{-6} 19 Mult.: From DCO=1.32 12.
		545 1	16 3	5212.7	12$^-$	M1	0.00541	α(K)=0.00472 7; α(L)=0.000563 9; α(M)=0.0001079 16; α(N+..)=2.04×10^{-5} 3 α(N)=1.93×10^{-5} 3; α(O)=1.133×10^{-6} 17 Mult.: From DCO=0.63 8.
		666.0 5	19 6	5092.56	12$^-$	M1	0.00336	α(K)=0.00294 5; α(L)=0.000348 5; α(M)=6.67×10^{-5} 10;

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γ(^{110}Cd) (continued)

E_i(level)	J_i^π	E_γ‡	I_γ‡	E_f	J_f^π	Mult.[b]	α†	Comments
								α(N+..)=1.262×10^{-5} *18* α(N)=1.191×10^{-5} *17*; α(O)=7.03×10^{-7} *10* Mult.: From DCO=0.83 *11*.
5758.52	13$^-$	828.0 *3*	75 *25*	4930.26	12$^-$	M1	0.00203	α(K)=0.001776 *25*; α(L)=0.000209 *3*; α(M)=4.01×10^{-5} *6*; α(N+..)=7.59×10^{-6} *11* α(N)=7.16×10^{-6} *10*; α(O)=4.24×10^{-7} *6* Mult.: From DCO=1.0 *2*.
		1021.5 *5*	16 *3*	4736.81	11$^-$	E2	1.09×10^{-3}	α(K)=0.000948 *14*; α(L)=0.0001139 *16*; α(M)=2.18×10^{-5} *3*; α(N+..)=4.10×10^{-6} *6* α(N)=3.88×10^{-6} *6*; α(O)=2.21×10^{-7} *4* Mult.: From DCO=1.9 *4*.
		1198.9 *5*	19 *6*	4559.12	11$^-$	E2	7.76×10^{-4}	α(K)=0.000672 *10*; α(L)=7.97×10^{-5} *12*; α(M)=1.526×10^{-5} *22*; α(N+..)=9.86×10^{-6} *15* α(N)=2.72×10^{-6} *4*; α(O)=1.568×10^{-7} *22*; α(IPF)=6.98×10^{-6} *12* Mult.: From DCO=1.6 *2*.
		1586 *1*	31 *6*	4172.706	11$^-$	E2	5.52×10^{-4}	α(K)=0.000383 *6*; α(L)=4.47×10^{-5} *7*; α(M)=8.54×10^{-6} *12*; α(N+..)=0.0001161 *17* α(N)=1.524×10^{-6} *22*; α(O)=8.95×10^{-8} *13*; α(IPF)=0.0001144 *17* Mult.: From DCO=1.3 *2*.
		1586.8 *3*	100 *6*	4172.076	12$^+$	E1	5.14×10^{-4}	α(K)=0.000188 *3*; α(L)=2.15×10^{-5} *3*; α(M)=4.10×10^{-6} *6*; α(N+..)=0.000300 *5* α(N)=7.32×10^{-7} *11*; α(O)=4.34×10^{-8} *6*; α(IPF)=0.000299 *5* Mult.: From DCO=0.71 *9*.
5789.95	14$^+$	289.9 *5*	13 *7*	5500.00	13$^+$			
		1617.9 *3*	100 *7*	4172.076	12$^+$	E2	5.48×10^{-4}	α(K)=0.000368 *6*; α(L)=4.30×10^{-5} *6*; α(M)=8.21×10^{-6} *12*; α(N+..)=0.0001290 *18* α(N)=1.465×10^{-6} *21*; α(O)=8.61×10^{-8} *12*; α(IPF)=0.0001274 *18* Mult.: From DCO=1.1 *2*.
5856.3	14$^+$	743.5 *5*	24 *6*	5113.6	12$^+$			
		967.7 *3*	100 *12*	4888.27	12$^+$	E2	1.23×10^{-3}	α(K)=0.001069 *15*; α(L)=0.0001291 *18*; α(M)=2.47×10^{-5} *4*; α(N+..)=4.64×10^{-6} *7* α(N)=4.39×10^{-6} *7*; α(O)=2.49×10^{-7} *4* Mult.: From DCO=1.41 *10*.
5892.9	(12$^+$,13$^+$)	677.4 *5*	<100	5215.5	(11$^+$)			
5914.5	14$^+$	1026.2 *3*	100	4888.27	12$^+$	E2	1.08×10^{-3}	α(K)=0.000938 *14*; α(L)=0.0001127 *16*; α(M)=2.16×10^{-5} *3*; α(N+..)=4.06×10^{-6} *6* α(N)=3.84×10^{-6} *6*; α(O)=2.19×10^{-7} *3* Mult.: From DCO=1.51 *13*.
5966.98	14$^-$	718.1 *5*	15 *3*	5248.93	13$^-$			

$^{110}_{48}$Cd$_{62}$-49

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	α[†]	Comments
5966.98	14^-	753.8 *5*	21 *5*	5212.7	12^-	E2	0.00222	α(K)=0.00193 *3*; α(L)=0.000238 *4*; α(M)=4.57×10^{-5} *7*; α(N+..)=8.55×10^{-6} *12* α(N)=8.10×10^{-6} *12*; α(O)=4.46×10^{-7} *7* Mult.: From DCO=1.64 *8*.
		874.4 *3*	100 *16*	5092.56	12^-	E2	1.55×10^{-3}	α(K)=0.001349 *19*; α(L)=0.0001643 *23*; α(M)=3.15×10^{-5} *5*; α(N+..)=5.91×10^{-6} *9* α(N)=5.59×10^{-6} *8*; α(O)=3.14×10^{-7} *5* Mult.: From DCO=1.5 *2*.
		1036.8 *3*	37 *3*	4930.26	12^-	E2	1.05×10^{-3}	α(K)=0.000917 *13*; α(L)=0.0001101 *16*; α(M)=2.11×10^{-5} *3*; α(N+..)=3.96×10^{-6} *6* α(N)=3.75×10^{-6} *6*; α(O)=2.14×10^{-7} *3* Mult.: From DCO=1.38 *13*.
5984.2	14^-	225.6 *3*	100	5758.52	13^-	M1	0.0500	α(K)=0.0434 *7*; α(L)=0.00533 *8*; α(M)=0.001025 *15*; α(N+..)=0.000193 *3* α(N)=0.000183 *3*; α(O)=1.056×10^{-5} *16* Mult.: From DCO=0.84 *3*.
		1055 *1*		4930.26	12^-			
6079.8		186.9 *5*	100	5892.9	$(12^+,13^+)$			
6100.87	16^+	1074.6 *2*	100	5026.32	14^+	E2	9.73×10^{-4}	α(K)=0.000848 *12*; α(L)=0.0001015 *15*; α(M)=1.94×10^{-5} *3*; α(N+..)=3.66×10^{-6} *6* α(N)=3.46×10^{-6} *5*; α(O)=1.98×10^{-7} *3* B(E2)(W.u.)=50 *5* Mult.: From DCO=1.47 *5*.
6101.4	14^-	1009 *1*	20 *4*	5092.56	12^-			
		1171.3 *3*	100 *23*	4930.26	12^-	E2	8.12×10^{-4}	α(K)=0.000705 *10*; α(L)=8.39×10^{-5} *12*; α(M)=1.605×10^{-5} *23*; α(N+..)=7.03×10^{-6} *11* α(N)=2.86×10^{-6} *4*; α(O)=1.647×10^{-7} *23*; α(IPF)=4.01×10^{-6} *7* B(E2)(W.u.)>6.8 Mult.: From DCO=1.3 *2*.
6178.5	15^+	388.6 *5*	18 *5*	5789.95	14^+	(M1)	0.01238	α(K)=0.01078 *16*; α(L)=0.001300 *19*; α(M)=0.000249 *4*; α(N+..)=4.71×10^{-5} *7* α(N)=4.45×10^{-5} *7*; α(O)=2.60×10^{-6} *4* Mult.: From DCO<0.7.
		678.5 *3*	100 *27*	5500.00	13^+	E2	0.00289	α(K)=0.00251 *4*; α(L)=0.000314 *5*; α(M)=6.04×10^{-5} *9*; α(N+..)=1.126×10^{-5} *16* α(N)=1.068×10^{-5} *15*; α(O)=5.79×10^{-7} *9* Mult.: From DCO=1.23 *10*.
		1152.1 *5*	46 *18*	5026.32	14^+	M1	9.75×10^{-4}	α(K)=0.000851 *12*; α(L)=9.95×10^{-5} *14*; α(M)=1.90×10^{-5} *3*; α(N+..)=5.74×10^{-6} *9* α(N)=3.40×10^{-6} *5*; α(O)=2.03×10^{-7} *3*; α(IPF)=2.13×10^{-6} *4* Mult.: From DCO=1.2 *2*.

$^{110}_{48}Cd_{62}$-50

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J_i^π	E_γ‡	I_γ‡	E_f	J_f^π	Mult.[b]	α†	Comments
6181.45	15⁻	684.2 *3*	36 *4*	5497.29	13⁻	E2	0.00283	α(K)=0.00246 *4*; α(L)=0.000307 *5*; α(M)=5.90×10⁻⁵ *9*; α(N+..)=1.101×10⁻⁵ *16* α(N)=1.044×10⁻⁵ *15*; α(O)=5.67×10⁻⁷ *8* Mult.: From DCO=1.3 *2*.
		932.3 *3*	91 *5*	5248.93	13⁻	E2	1.34×10⁻³	α(K)=0.001163 *17*; α(L)=0.0001409 *20*; α(M)=2.70×10⁻⁵ *4*; α(N+..)=5.07×10⁻⁶ *8* α(N)=4.80×10⁻⁶ *7*; α(O)=2.71×10⁻⁷ *4* Mult.: From DCO=1.40 *6*.
		1155.2 *3*	100 *7*	5026.32	14⁺	E1	3.88×10⁻⁴	α(K)=0.000325 *5*; α(L)=3.75×10⁻⁵ *6*; α(M)=7.15×10⁻⁶ *10*; α(N+..)=1.77×10⁻⁵ *3* α(N)=1.275×10⁻⁶ *18*; α(O)=7.51×10⁻⁸ *11*; α(IPF)=1.64×10⁻⁵ *3* Mult.: From DCO=0.81 *6*.
6216.9	(14)	1190.6 *3*	100	5026.32	14⁺	D		Mult.: From DCO=1.39 *14*.
6354.3	15⁻	370.0 *3*	100	5984.2	14⁻	M1	0.01399	α(K)=0.01218 *18*; α(L)=0.001472 *21*; α(M)=0.000282 *4*; α(N+..)=5.33×10⁻⁵ *8* α(N)=5.04×10⁻⁵ *8*; α(O)=2.94×10⁻⁶ *5* Mult.: From DCO=0.77 *3*.
6489.9	(1)	4707		1783.496	2⁺			E_γ: From ^{110}Cd(γ,γ').
		5831		657.7623	2⁺			E_γ: From ^{110}Cd(γ,γ').
		6490		0.0	0⁺	D		E_γ,Mult.: From ^{110}Cd(γ,γ'). Iγ(150°)/Iγ(90°)=1.66 *8*, 1.75 expected for 0(1)1(1)0 transition (1969Mi13).
6543.9	(15⁻)	1295 *1*	100	5248.93	13⁻			
6568.8	14	1542.4 *5*	100	5026.32	14⁺	D		Mult.: From DCO=1.4 *2*, very probably a ΔJ=0 transition.
6575.6	16⁺	900.1 *3*	100.0 *23*	5675.5	14⁺	E2	1.45×10⁻³	α(K)=0.001261 *18*; α(L)=0.0001532 *22*; α(M)=2.94×10⁻⁵ *5*; α(N+..)=5.51×10⁻⁶ *8* α(N)=5.22×10⁻⁶ *8*; α(O)=2.93×10⁻⁷ *5* Mult.: From DCO=1.33 *7*.
		1549 *1*	25 *5*	5026.32	14⁺	E2	5.58×10⁻⁴	α(K)=0.000401 *6*; α(L)=4.69×10⁻⁵ *7*; α(M)=8.95×10⁻⁶ *13*; α(N+..)=0.0001016 *15* α(N)=1.597×10⁻⁶ *23*; α(O)=9.36×10⁻⁸ *14*; α(IPF)=9.99×10⁻⁵ *15* Mult.: From DCO=1.3 *2*.
6584.5	14	1558.1 *5*	100	5026.32	14⁺	D		Mult.: From DCO=1.5 *2*, very probably a ΔJ=0 transition.
6646.1	(16⁺)	856.1 *5*	100	5789.95	14⁺	(E2)	1.63×10⁻³	α(K)=0.001417 *20*; α(L)=0.0001730 *25*; α(M)=3.32×10⁻⁵ *5*; α(N+..)=6.22×10⁻⁶ *9* α(N)=5.89×10⁻⁶ *9*; α(O)=3.29×10⁻⁷ *5* Mult.: From DCO=1.69 *14*.
6671.1	(15⁻)	1422 *1*	67 *33*	5248.93	13⁻			
		1645 *1*	100 *33*	5026.32	14⁺			
6672.6	16⁻	491.2 *5*	12.1 *14*	6181.45	15⁻			

$^{110}_{48}Cd_{62}$-51

Adopted Levels, Gammas (continued)

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[b]	α[†]	Comments
6672.6	16⁻	705.7 *3*	100 *7*	5966.98	14⁻	E2	0.00262	α(K)=0.00227 *4*; α(L)=0.000283 *4*; α(M)=5.43×10⁻⁵ *8*; α(N+..)=1.015×10⁻⁵ *15* α(N)=9.62×10⁻⁶ *14*; α(O)=5.24×10⁻⁷ *8* Mult.: From DCO=1.40 *7*.
6798.0	16⁺	941.7 *5*	100	5856.3	14⁺	E2	1.31×10⁻³	α(K)=0.001137 *16*; α(L)=0.0001376 *20*; α(M)=2.64×10⁻⁵ *4*; α(N+..)=4.95×10⁻⁶ *7* α(N)=4.68×10⁻⁶ *7*; α(O)=2.65×10⁻⁷ *4* Mult.: From DCO=1.3 *2*.
6836.2	16⁺	921.7 *5*	100	5914.5	14⁺	E2	1.37×10⁻³	α(K)=0.001194 *17*; α(L)=0.0001448 *21*; α(M)=2.77×10⁻⁵ *4*; α(N+..)=5.21×10⁻⁶ *8* α(N)=4.93×10⁻⁶ *7*; α(O)=2.78×10⁻⁷ *4* Mult.: From DCO=1.3 *2*.
6879.6	15	295.0 *3*	100 *10*	6584.5	14	D		Mult.: From DCO=0.78 *3*.
		310.7 *5*	60 *10*	6568.8	14			
6962.8	16⁻	608.5 *3*	100	6354.3	15⁻	M1	0.00416	α(K)=0.00363 *5*; α(L)=0.000432 *6*; α(M)=8.27×10⁻⁵ *12*; α(N+..)=1.564×10⁻⁵ *22* α(N)=1.477×10⁻⁵ *21*; α(O)=8.71×10⁻⁷ *13* Mult.: From DCO=0.84 *6*.
6993.1	17⁻	811.6 *3*	100 *4*	6181.45	15⁻	E2	0.00185	α(K)=0.001609 *23*; α(L)=0.000197 *3*; α(M)=3.79×10⁻⁵ *6*; α(N+..)=7.09×10⁻⁶ *10* α(N)=6.72×10⁻⁶ *10*; α(O)=3.73×10⁻⁷ *6* Mult.: From DCO=1.46 *12*.
		892.2 *3*	20.2 *20*	6100.87	16⁺	E1	6.06×10⁻⁴	α(K)=0.000531 *8*; α(L)=6.15×10⁻⁵ *9*; α(M)=1.173×10⁻⁵ *17*; α(N+..)=2.21×10⁻⁶ *4* α(N)=2.09×10⁻⁶ *3*; α(O)=1.222×10⁻⁷ *18* Mult.: From DCO=0.77 *6*.
7047.6	16⁻	946.3 *3*	100 *20*	6101.4	14⁻	E2	1.29×10⁻³	α(K)=0.001125 *16*; α(L)=0.0001360 *19*; α(M)=2.61×10⁻⁵ *4*; α(N+..)=4.89×10⁻⁶ *7* α(N)=4.63×10⁻⁶ *7*; α(O)=2.62×10⁻⁷ *4* Mult.: From DCO=1.7 *3*.
		1080.2 *5*	70 *16*	5966.98	14⁻			
7184.3	17⁺	1005.8 *3*	100	6178.5	15⁺	E2	1.13×10⁻³	α(K)=0.000981 *14*; α(L)=0.0001180 *17*; α(M)=2.26×10⁻⁵ *4*; α(N+..)=4.25×10⁻⁶ *6* α(N)=4.02×10⁻⁶ *6*; α(O)=2.29×10⁻⁷ *4* Mult.: From DCO=1.36 *10*.
7281.0	16	401.4 *3*	100	6879.6	15	D		Mult.: From DCO=0.87 *5*.
7285.8	(16)	1068.9 *3*	100	6216.9	(14)	(Q)		Mult.: From DCO=1.48 *13*.
7325.3	18⁺	1224.5 *2*	100	6100.87	16⁺	E2	7.47×10⁻⁴	α(K)=0.000643 *9*; α(L)=7.62×10⁻⁵ *11*; α(M)=1.458×10⁻⁵ *21*; α(N+..)=1.325×10⁻⁵ *19*

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ‡	I_γ‡	E_f	J^π_f	Mult.b	α†	Comments
								α(K)=0.000643 *9*; α(L)=7.62×10^{-5} *11*; α(M)=1.458×10^{-5} *21*; α(N+..)=1.325×10^{-5} *19* α(N)=2.60×10^{-6} *4*; α(O)=1.501×10^{-7} *21*; α(IPF)=1.051×10^{-5} *15* B(E2)(W.u.)=41 *6* Mult.: From DCO=1.46 *4*.
7341.6		1358 *1*	100	5984.2	14$^-$			
7443.3	(17$^-$)	770.7 *3*	100 *17*	6672.6	16$^-$			
		772.2 *5*		6671.1	(15$^-$)			
		1261 *1*	17 *8*	6181.45	15$^-$			
7523.2	18$^-$	850.6 *3*	100	6672.6	16$^-$	E2	1.65×10^{-3}	α(K)=0.001439 *21*; α(L)=0.0001758 *25*; α(M)=3.37×10^{-5} *5*; α(N+..)=6.32×10^{-6} *9* α(N)=5.98×10^{-6} *9*; α(O)=3.34×10^{-7} *5* Mult.: From DCO=1.43 *5*.
7575.2	17$^-$	612.4 *3*	100	6962.8	16$^-$	M1	0.00410	α(K)=0.00357 *5*; α(L)=0.000425 *6*; α(M)=8.14×10^{-5} *12*; α(N+..)=1.540×10^{-5} *22* α(N)=1.455×10^{-5} *21*; α(O)=8.57×10^{-7} *12* Mult.: From DCO=0.87 *12*.
7594.2		631.4 *5*	100	6962.8	16$^-$			
7653.1	18$^+$	1077.4 *3*	100	6575.6	16$^+$	E2	9.67×10^{-4}	α(K)=0.000843 *12*; α(L)=0.0001009 *15*; α(M)=1.93×10^{-5} *3*; α(N+..)=3.63×10^{-6} *5* α(N)=3.44×10^{-6} *5*; α(O)=1.97×10^{-7} *3* Mult.: From DCO=1.5 *2*.
7759.0	17	477.9 *5*	100	7281.0	16	D		Mult.: From DCO=0.73 *3*.
7777.9		437 *1*	67 *33*	7341.6				
		815 *1*	100 *33*	6962.8	16$^-$			
		1423.5 *5*	57 *13*	6354.3	15$^-$			
7797.7	(17)	516.8 *5*	100	7281.0	16	D		Mult.: From DCO=0.64 *6*.
7801.1	(18$^+$)	1155 *1*	100	6646.1	(16$^+$)	(E2)	8.35×10^{-4}	α(K)=0.000727 *11*; α(L)=8.65×10^{-5} *13*; α(M)=1.655×10^{-5} *24*; α(N+..)=5.83×10^{-6} *11* α(N)=2.95×10^{-6} *5*; α(O)=1.696×10^{-7} *24*; α(IPF)=2.71×10^{-6} *8* Mult.: From (HI,xnγ).
7945.9	19$^-$	952.8 *3*	100	6993.1	17$^-$	E2	1.27×10^{-3}	α(K)=0.001107 *16*; α(L)=0.0001338 *19*; α(M)=2.56×10^{-5} *4*; α(N+..)=4.82×10^{-6} *7* α(N)=4.56×10^{-6} *7*; α(O)=2.58×10^{-7} *4* Mult.: From DCO=1.41 *9*.
7970.3	18$^-$	922.7 *5*	100	7047.6	16$^-$	E2	1.37×10^{-3}	α(K)=0.001191 *17*; α(L)=0.0001444 *21*; α(M)=2.77×10^{-5} *4*; α(N+..)=5.19×10^{-6} *8* α(N)=4.92×10^{-6} *7*; α(O)=2.77×10^{-7} *4* Mult.: From DCO=1.37 *13*.
8016.5	17	735.2 *5*	100	7281.0	16			

$\gamma(^{110}Cd)$ (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	α[†]	Comments
8278.0	18	261.2 *5*	29 *14*	8016.5	17	D		Mult.: From DCO=0.91 *6*.
		480.5 *5*	71 *14*	7797.7	(17)	D		Mult.: From DCO=0.77 *6*.
		519.0 *5*	43 *14*	7759.0	17	D		Mult.: From DCO=0.80 *5*.
		952.8 *5*	100 *14*	7325.3	18^+	D		Mult.: From DCO=1.46 *10*, very probably a ΔJ=0 transition.
8292.3	(18)	967.0 *5*	100	7325.3	18^+			
8372.8		594.9 *5*	100	7777.9				
8405.3	(19^-)	962 *1*	100	7443.3	(17^-)	E2	1.24×10^{-3}	α(K)=0.001084 *16*; α(L)=0.0001308 *19*; α(M)=2.51×10^{-5} *4*; α(N+..)=4.71×10^{-6} *7* α(N)=4.46×10^{-6} *7*; α(O)=2.52×10^{-7} *4* Mult.: From DCO=1.4 *2*.
8481.3	(19^+)	1297 *1*	100	7184.3	17^+	(E2)	6.77×10^{-4}	α(K)=0.000571 *8*; α(L)=6.74×10^{-5} *10*; α(M)=1.289×10^{-5} *19*; α(N+..)=2.56×10^{-5} *5* α(N)=2.30×10^{-6} *4*; α(O)=1.333×10^{-7} *19*; α(IPF)=2.32×10^{-5} *4* Mult.: From (HI,xnγ).
8530.7	(18)	1244.9 *5*	100	7285.8	(16)			
8595.6	19	303.3 *5*	5.6 *19*	8292.3	(18)			
		317.6 *3*	100 *7*	8278.0	18	D		Mult.: From DCO=0.87 *5*.
8629.7	20^-	1106.5 *3*	100	7523.2	18^-	E2	9.14×10^{-4}	α(K)=0.000796 *12*; α(L)=9.51×10^{-5} *14*; α(M)=1.82×10^{-5} *3*; α(N+..)=4.06×10^{-6} *6* α(N)=3.24×10^{-6} *5*; α(O)=1.86×10^{-7} *3*; α(IPF)=6.38×10^{-7} *12* Mult.: From DCO=1.50 *14*.
8648.3	20^+	1323.0 *3*	100	7325.3	18^+	E2	6.56×10^{-4}	α(K)=0.000548 *8*; α(L)=6.47×10^{-5} *9*; α(M)=1.236×10^{-5} *18*; α(N+..)=3.11×10^{-5} *5* α(N)=2.20×10^{-6} *3*; α(O)=1.281×10^{-7} *18*; α(IPF)=2.88×10^{-5} *4* B(E2)(W.u.)=38 *7* Mult.: From DCO=1.44 *6*.
8861.6	20^+	1208.5 *3*	100	7653.1	18^+	E2	7.65×10^{-4}	α(K)=0.000660 *10*; α(L)=7.84×10^{-5} *11*; α(M)=1.500×10^{-5} *21*; α(N+..)=1.105×10^{-5} *16* α(N)=2.67×10^{-6} *4*; α(O)=1.542×10^{-7} *22*; α(IPF)=8.23×10^{-6} *13* Mult.: From DCO=1.7 *2*.
8967.9	20	372.3 *3*	100	8595.6	19	(M1)	0.01377	α(K)=0.01200 *17*; α(L)=0.001449 *21*; α(M)=0.000278 *4*; α(N+..)=5.25×10^{-5} *8* α(N)=4.96×10^{-5} *7*; α(O)=2.90×10^{-6} *4* B(M1)(W.u.)=3.3 *4* Mult.: From DCO=0.84 *6*.
9106.8	21^-	1160.9 *3*	100	7945.9	19^-	E2	8.27×10^{-4}	α(K)=0.000719 *10*; α(L)=8.55×10^{-5} *12*; α(M)=1.637×10^{-5} *23*; α(N+..)=6.22×10^{-6} *9* α(N)=2.91×10^{-6} *4*; α(O)=1.678×10^{-7} *24*; α(IPF)=3.14×10^{-6} *5* Mult.: From DCO=1.50 *14*.
9430.4	21	462.5 *3*	100	8967.9	20	(M1)	0.00805	α(K)=0.00702 *10*; α(L)=0.000842 *12*; α(M)=0.0001614 *23*;

$^{110}_{48}Cd_{62}$-54

γ(^{110}Cd) (continued)

E_i(level)	J^π_i	E_γ[‡]	I_γ[‡]	E_f	J^π_f	Mult.[b]	α[†]	Comments
								α(N+..)=3.05×10^{-5} *5* α(N)=2.88×10^{-5} *4*; α(O)=1.689×10^{-6} *24* B(M1)(W.u.)=3.2 *+6−5* Mult.: From DCO=0.98 *6*.
9574.3	(21$^-$)	1169 *1*	100	8405.3	(19$^-$)			
9962.3	22$^+$	1100 *1*	37 *11*	8861.6	20$^+$	[E2]	9.25×10^{-4}	α(K)=0.000806 *12*; α(L)=9.63×10^{-5} *14*; α(M)=1.84×10^{-5} *3*; α(N+..)=4.0×10^{-6} *5* α(N)=3.28×10^{-6} *5*; α(O)=1.88×10^{-7} *3* B(E2)(W.u.)=20 *10*
		1314.1 *3*	100 *4*	8648.3	20$^+$	E2	6.63×10^{-4}	α(K)=0.000556 *8*; α(L)=6.56×10^{-5} *10*; α(M)=1.254×10^{-5} *18*; α(N+..)=2.92×10^{-5} *5* α(N)=2.24×10^{-6} *4*; α(O)=1.298×10^{-7} *19*; α(IPF)=2.68×10^{-5} *4* B(E2)(W.u.)=22 *8* Mult.: From DCO=1.50 *9*.
9971.7	22$^-$	1342 *1*	100	8629.7	20$^-$	E2	6.43×10^{-4}	α(K)=0.000532 *8*; α(L)=6.28×10^{-5} *9*; α(M)=1.200×10^{-5} *17*; α(N+..)=3.56×10^{-5} *6* α(N)=2.14×10^{-6} *3*; α(O)=1.244×10^{-7} *18*; α(IPF)=3.33×10^{-5} *6* Mult.: From DCO=1.8 *3*.
9991.4	22	561 *1*	100	9430.4	21	(M1)	0.00505	α(K)=0.00440 *7*; α(L)=0.000525 *8*; α(M)=0.0001006 *15*; α(N+..)=1.90×10^{-5} *3* α(N)=1.80×10^{-5} *3*; α(O)=1.057×10^{-6} *16* B(M1)(W.u.)=1.9 *+4−3* Mult.: From DCO=1.0 *2*.
10228.7	(22$^+$)	1367 *1*	100	8861.6	20$^+$			
10495.8	23$^-$	1389 *1*	100	9106.8	21$^-$	E2	6.14×10^{-4}	α(K)=0.000497 *7*; α(L)=5.84×10^{-5} *9*; α(M)=1.117×10^{-5} *16*; α(N+..)=4.80×10^{-5} *8* α(N)=1.99×10^{-6} *3*; α(O)=1.161×10^{-7} *17*; α(IPF)=4.59×10^{-5} *7* Mult.: From DCO=1.5 *3*.
10665.2	23	673.8 *3*	100	9991.4	22	D		Mult.: From DCO=0.83 *7*.
11320.3	24$^+$	1358.0 *3*	100	9962.3	22$^+$	E2	6.32×10^{-4}	α(K)=0.000520 *8*; α(L)=6.12×10^{-5} *9*; α(M)=1.171×10^{-5} *17*; α(N+..)=3.96×10^{-5} *6* α(N)=2.09×10^{-6} *3*; α(O)=1.215×10^{-7} *17*; α(IPF)=3.74×10^{-5} *6* B(E2)(W.u.)=21 *6* Mult.: From DCO=1.33 *10*.
11451.2	24	786 *1*	100	10665.2	23	D		Mult.: From DCO=1.12 *13*.
11454.8	(24$^-$)	1483 *1*	100	9971.7	22$^-$	(E2)	5.75×10^{-4}	α(K)=0.000436 *7*; α(L)=5.11×10^{-5} *8*; α(M)=9.77×10^{-6} *14*; α(N+..)=7.75×10^{-5} *12* α(N)=1.743×10^{-6} *25*; α(O)=1.020×10^{-7} *15*; α(IPF)=7.57×10^{-5} *12* Mult.: From (HI,xnγ).
12081.8	(25$^-$)	1586 *1*	100	10495.8	23$^-$	(E2)	5.52×10^{-4}	α(K)=0.000383 *6*; α(L)=4.47×10^{-5} *7*; α(M)=8.54×10^{-6} *12*;

γ(^{110}Cd) (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[b]	α[†]	Comments
								α(N+..)=0.0001161 *17* α(N)=1.524×10^{-6} *22*; α(O)=8.95×10^{-8} *13*; α(IPF)=0.0001144 *17* Mult.: From (HI,xnγ).
12763.3	26^+	1443 *1*	100	11320.3	24^+	E2	5.89×10^{-4}	α(K)=0.000460 *7*; α(L)=5.40×10^{-5} *8*; α(M)=1.033×10^{-5} *15*; α(N+..)=6.43×10^{-5} *10* α(N)=1.84×10^{-6} *3*; α(O)=1.076×10^{-7} *16*; α(IPF)=6.23×10^{-5} *10* B(E2)(W.u.)=12.0 Mult.: From DCO=1.53 *12*.
13032.8	(26^-)	1578 *1*	100	11454.8	(24^-)			
14206.4	28^+	1443	100	12763.3	26^+	E2	5.89×10^{-4}	α(K)=0.000460 *7*; α(L)=5.40×10^{-5} *8*; α(M)=1.033×10^{-5} *15*; α(N+..)=6.43×10^{-5} *9* α(N)=1.84×10^{-6} *3*; α(O)=1.076×10^{-7} *15*; α(IPF)=6.23×10^{-5} *9* Mult.: From DCO=1.53 *12*.

† Additional information 1.
‡ From (HI,xn) reaction, unless otherwise stated.
# From ^{110}Ag β^- decay (249.83 d).
@ From ^{110}Cd(n,n′γ).
& From ^{110}In ε decay (69.1 min).
a From ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ).
b From α(K)exp in ^{110}Ag β^- decay (249.83 d) (1967Mo12) and/or DCO measurements in (HI,xnγ) (1994Ju04), unless otherwise stated. DCO ratios are deduced using (R(E_γ)=I_γ(143° or 37°)/I_γ(79° or 101°)). For ΔI=0 dipole and ΔI=2 quadrupole transitions R(E_γ)≈1.50, for stretch dipole transitions R(E_γ)≈0.75.
c From $\gamma(\theta)$ in ^{108}Pd(α,2nγ),^{110}Pd(α,4nγ) (1990Ke02), unless otherwise stated.
d Placement of transition in the level scheme is uncertain.

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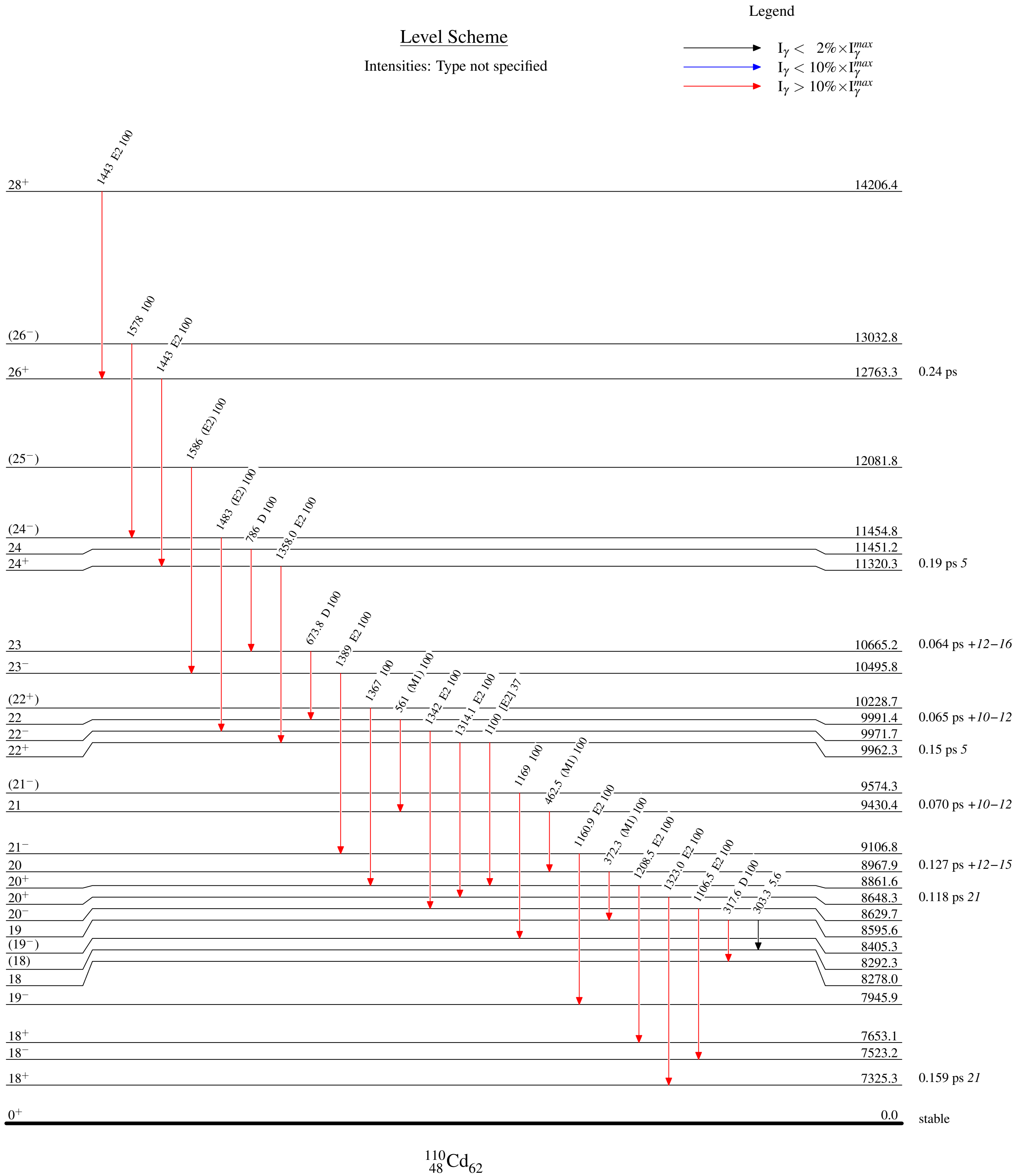
Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified



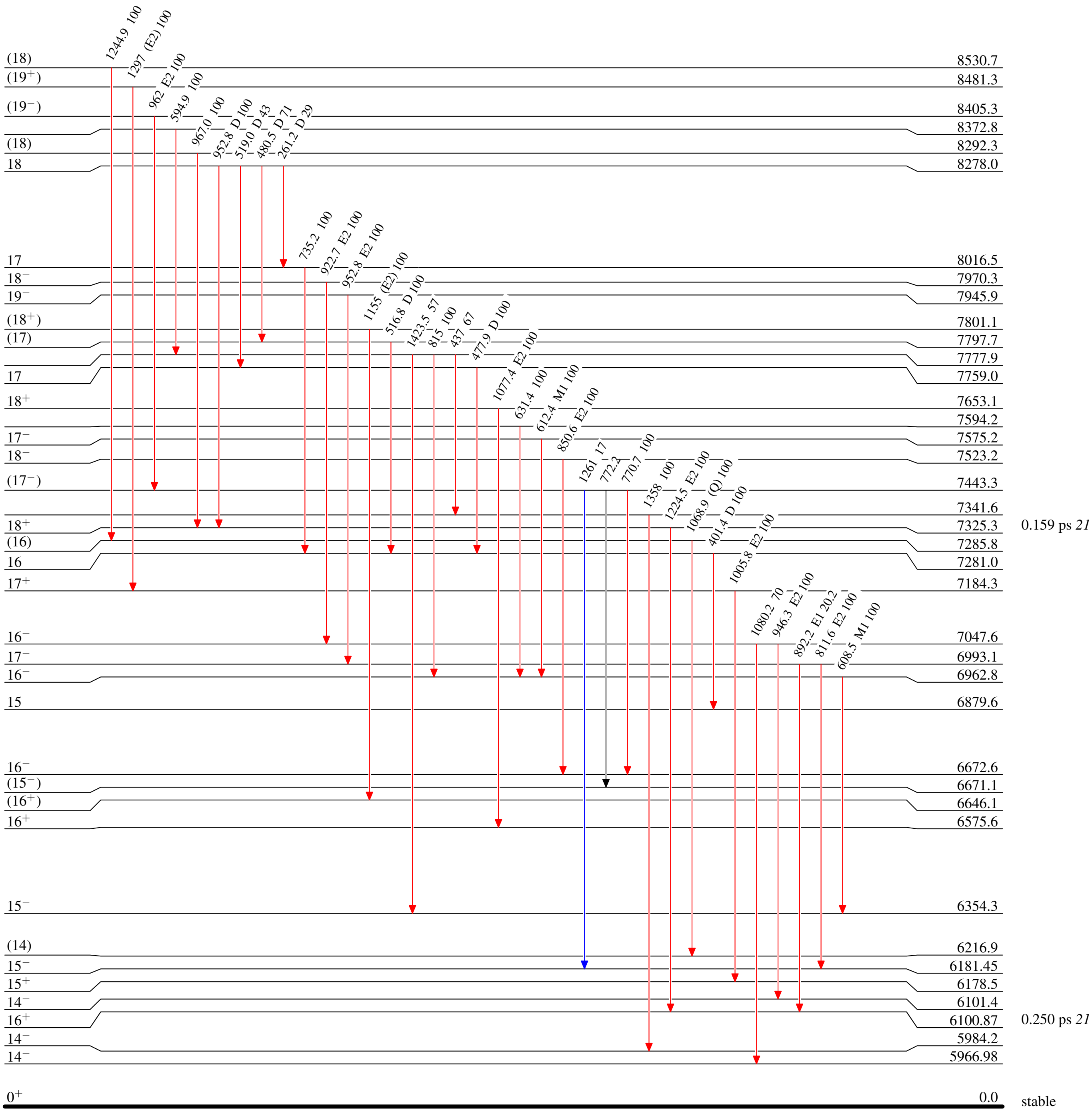
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

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

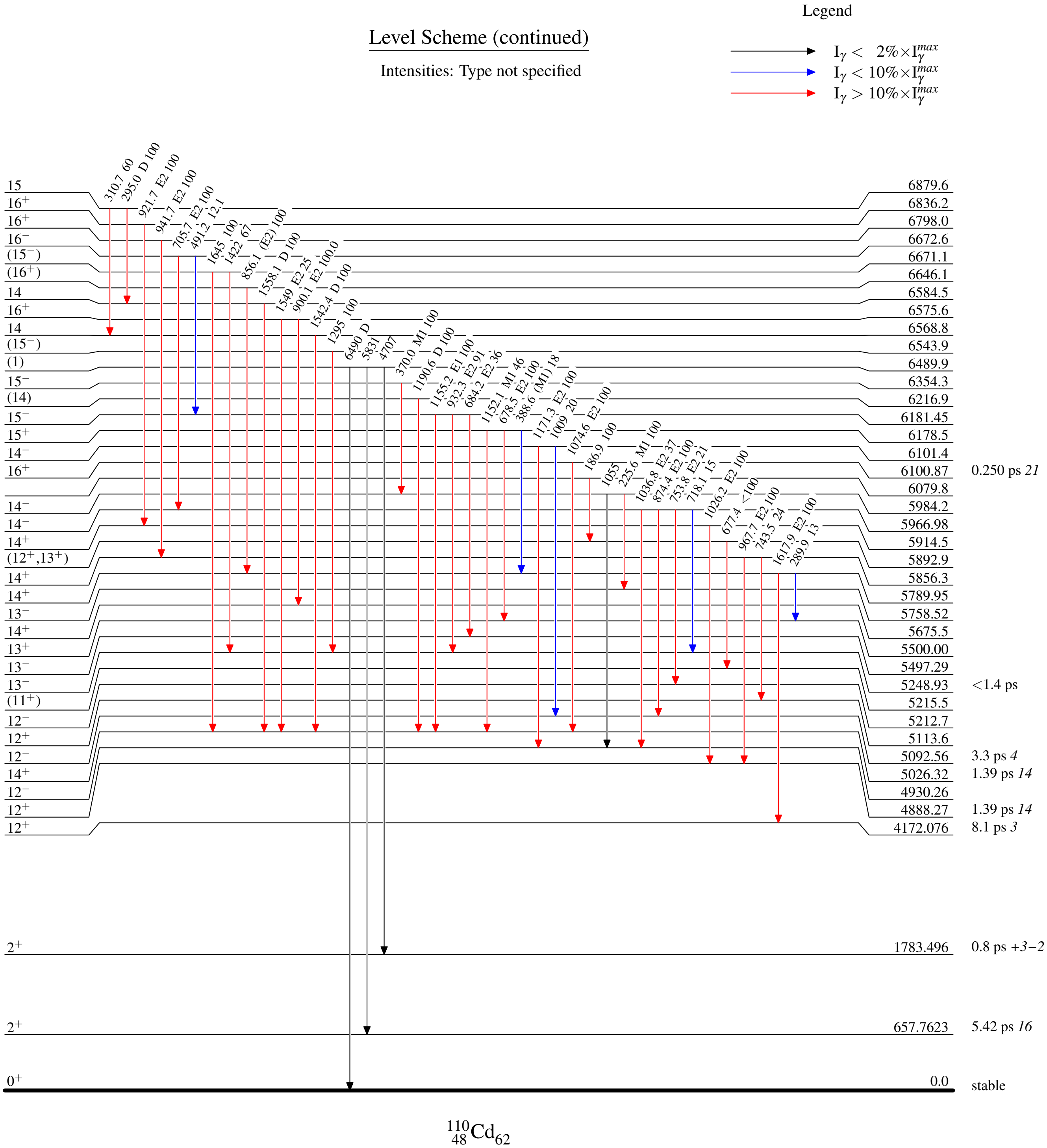


$^{110}_{48}Cd_{62}$

Adopted Levels, Gammas

Level Scheme (continued)

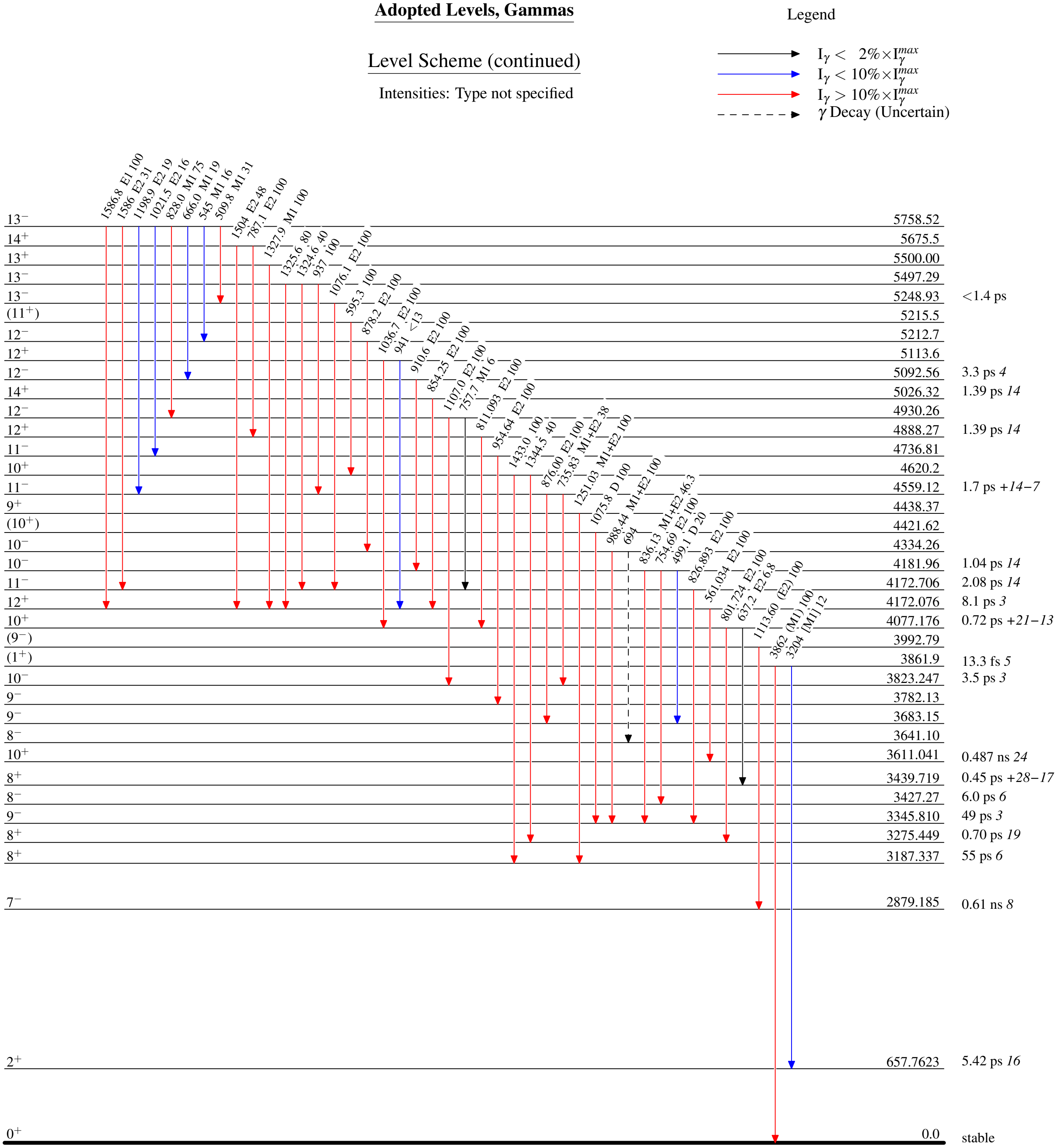
Intensities: Type not specified



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



$^{110}_{48}Cd_{62}$

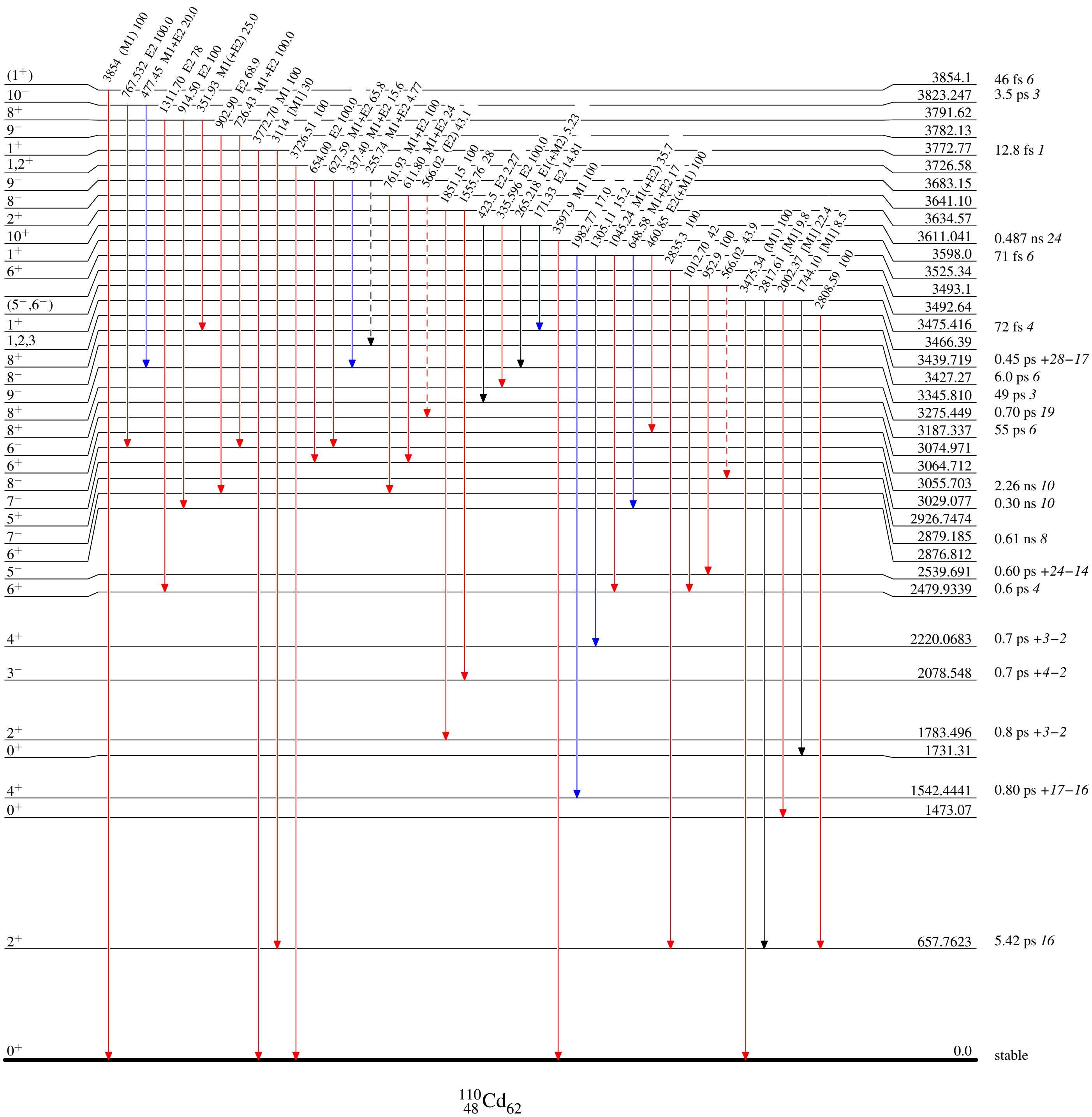
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)



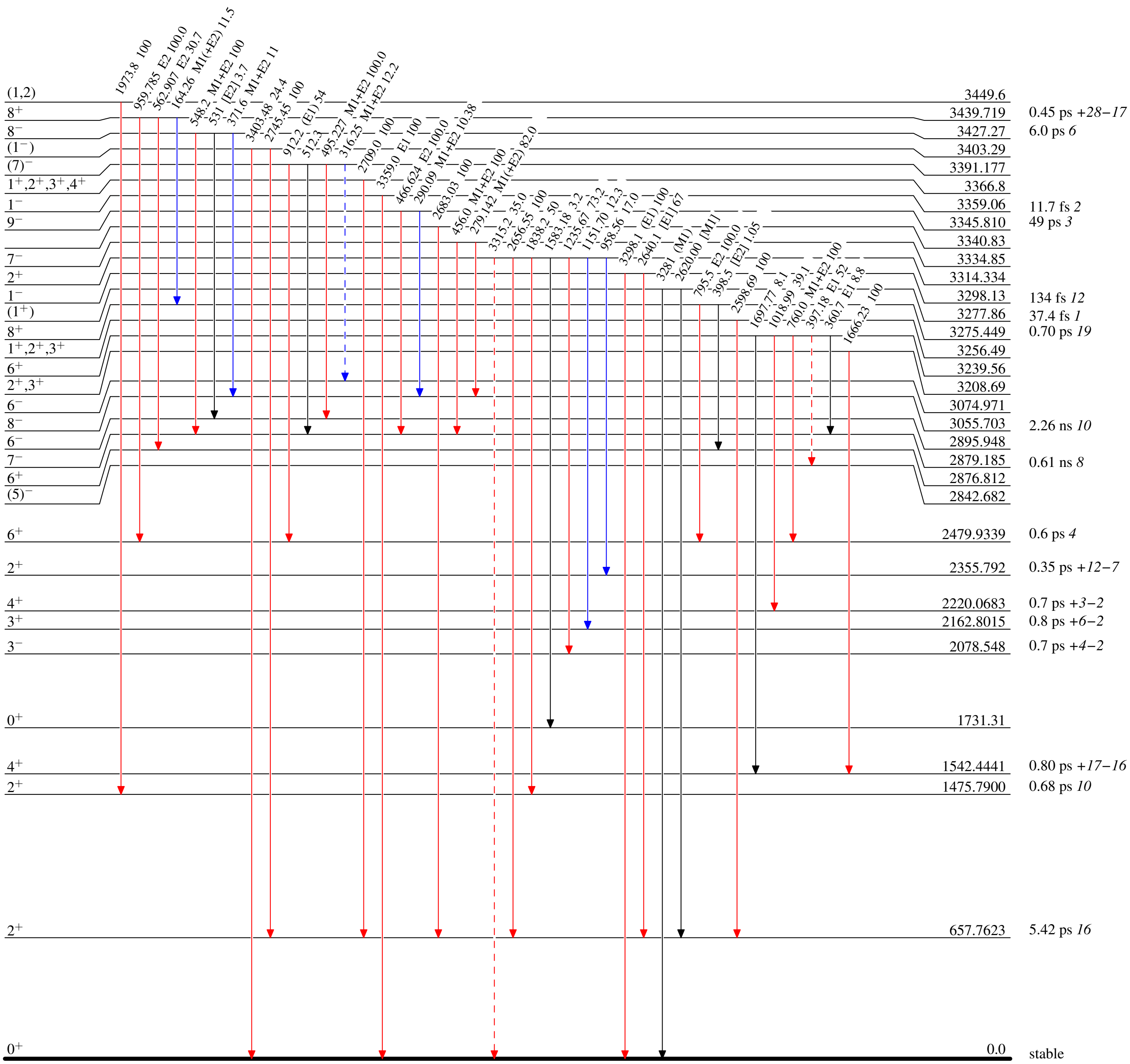
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)

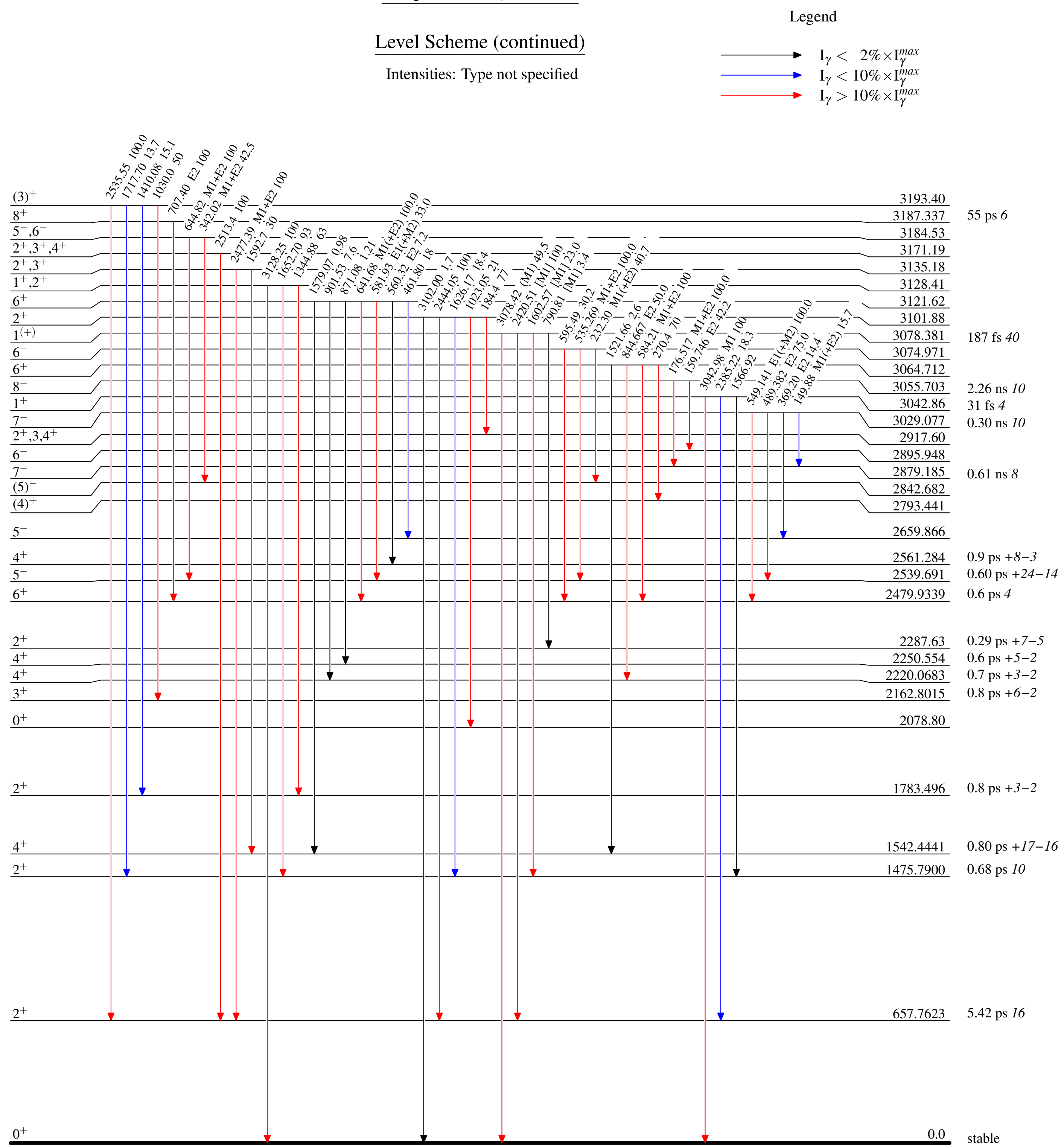


$^{110}_{48}Cd_{62}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified



$^{110}_{48}Cd_{62}$

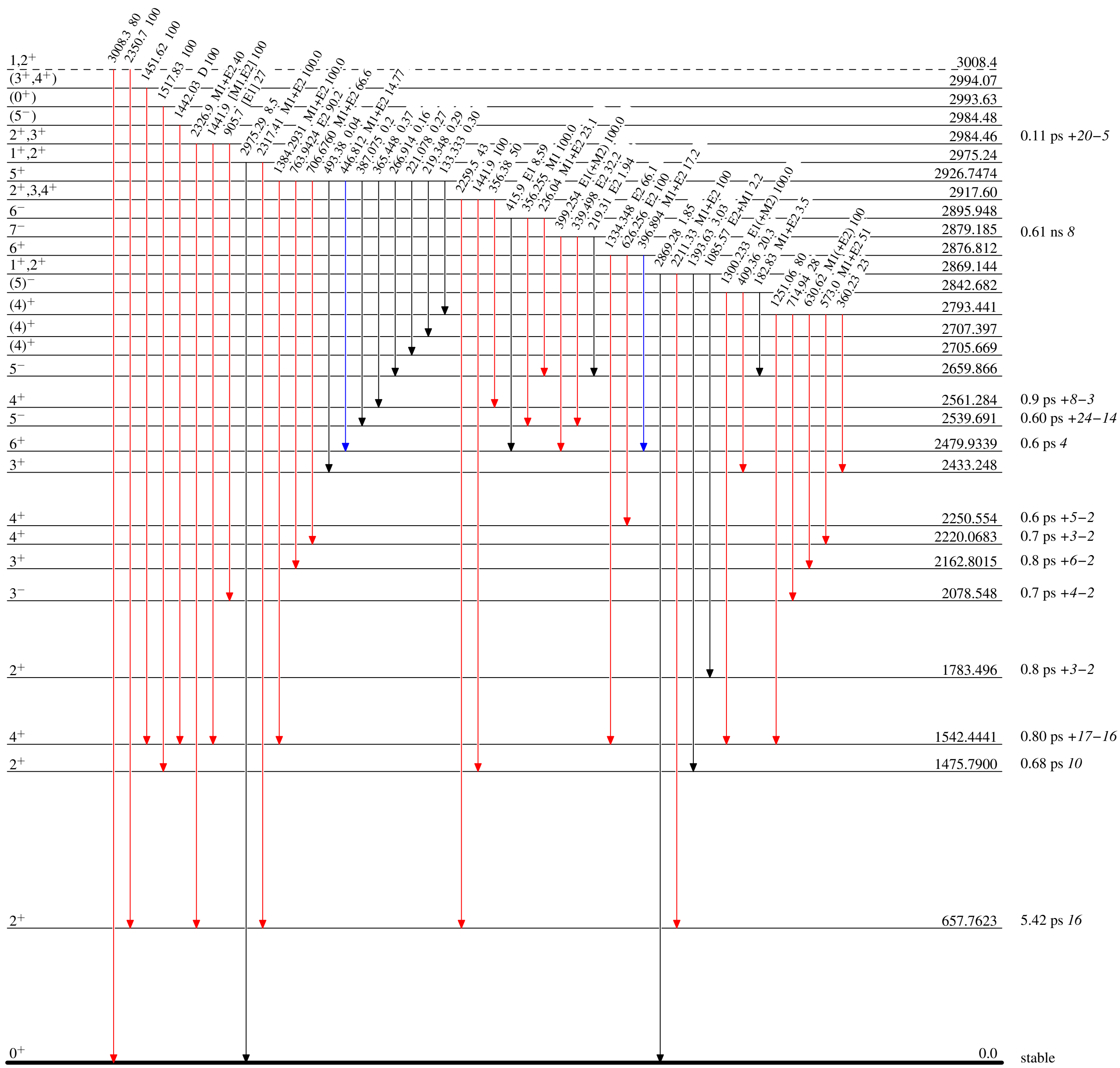
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

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

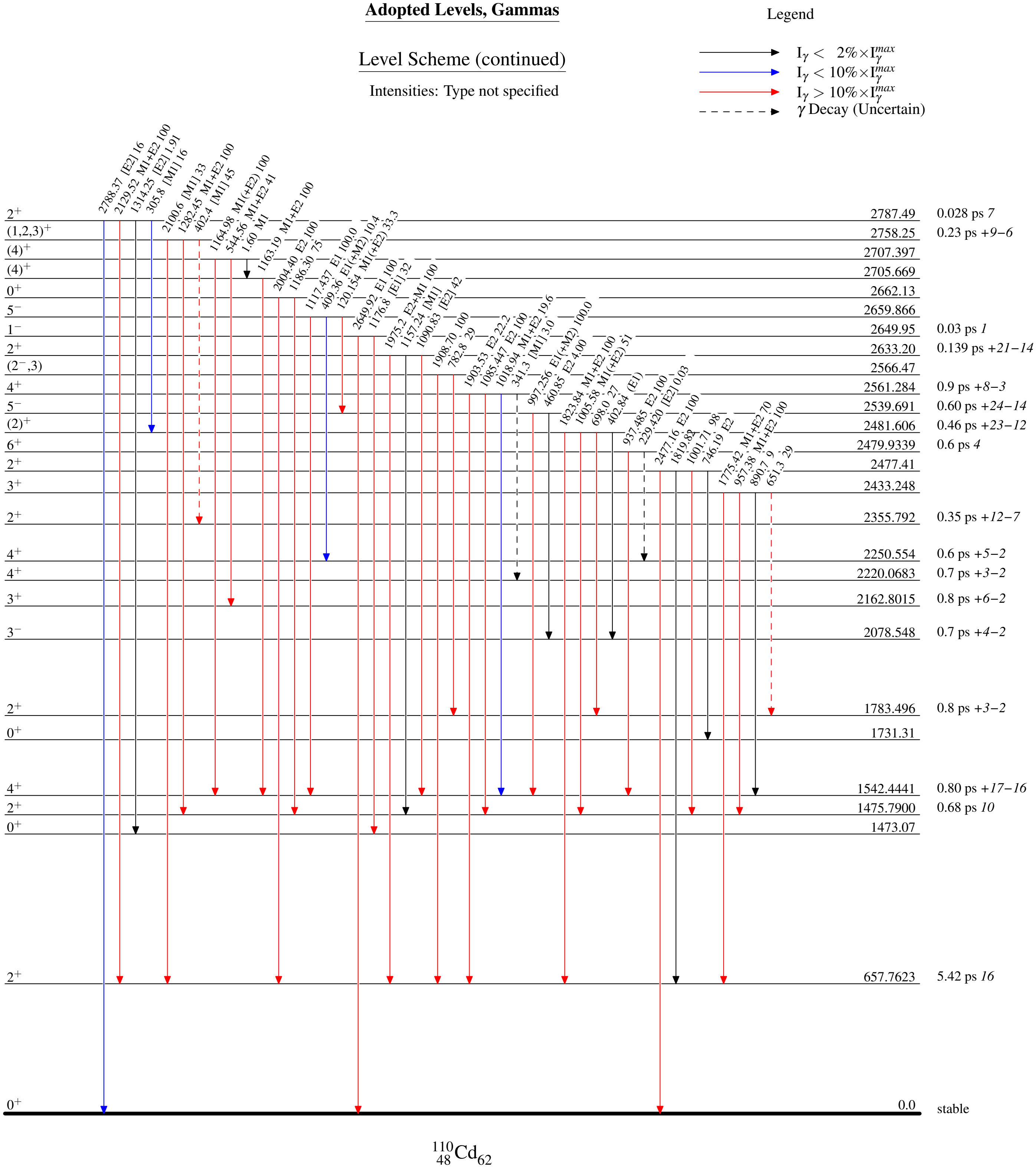


$^{110}_{48}Cd_{62}$

Adopted Levels, Gammas

Level Scheme (continued)

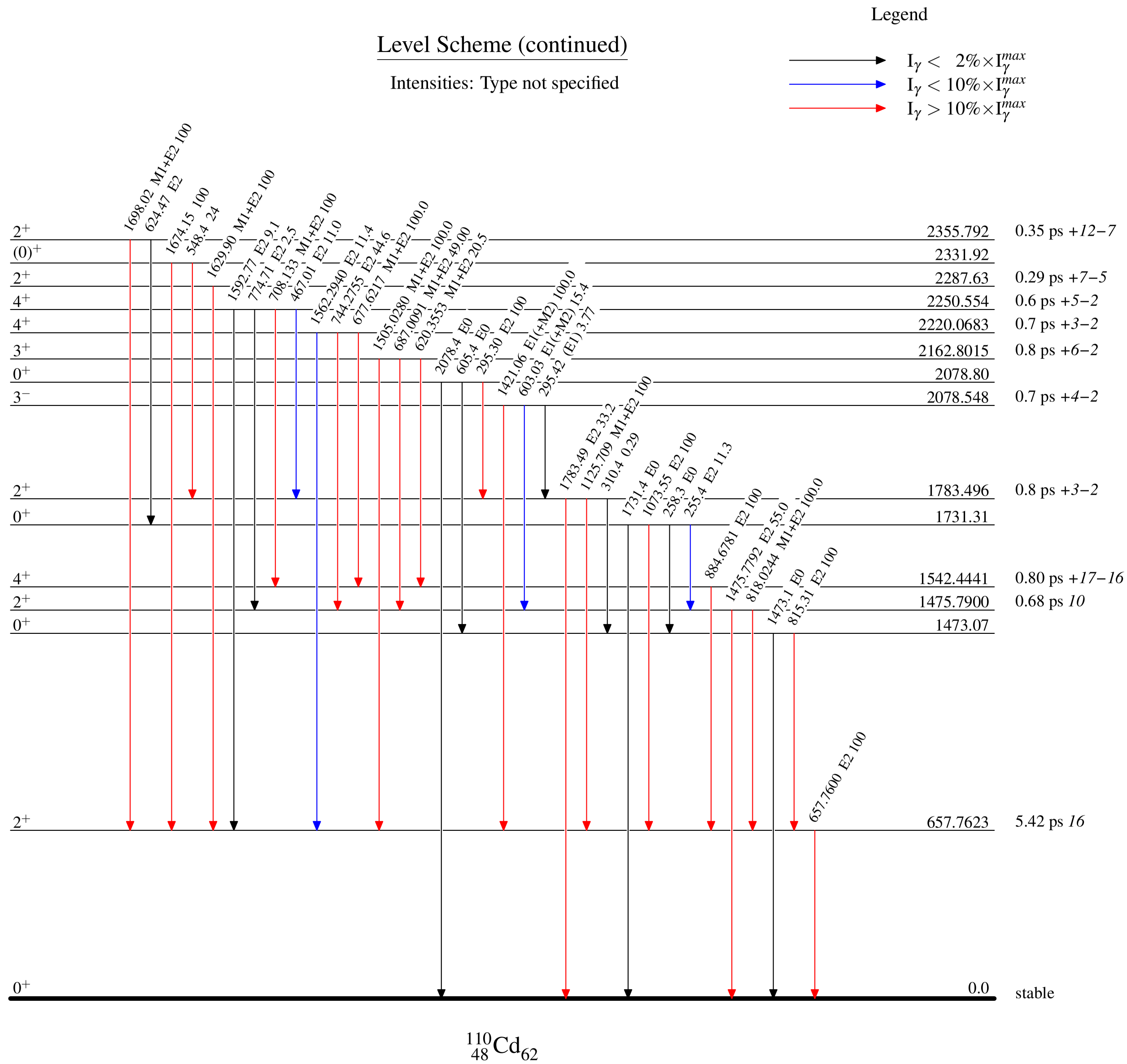
Intensities: Type not specified



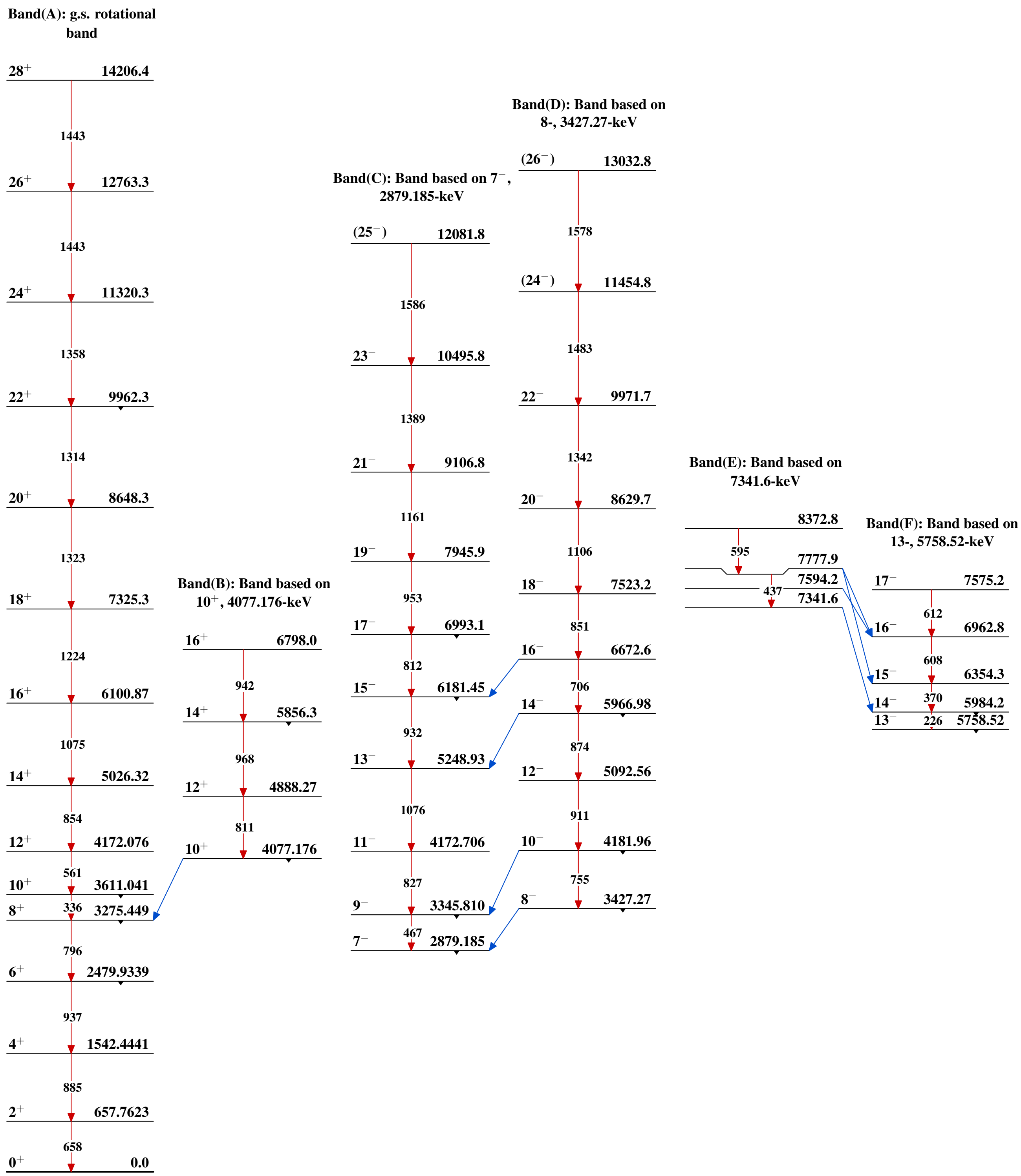
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

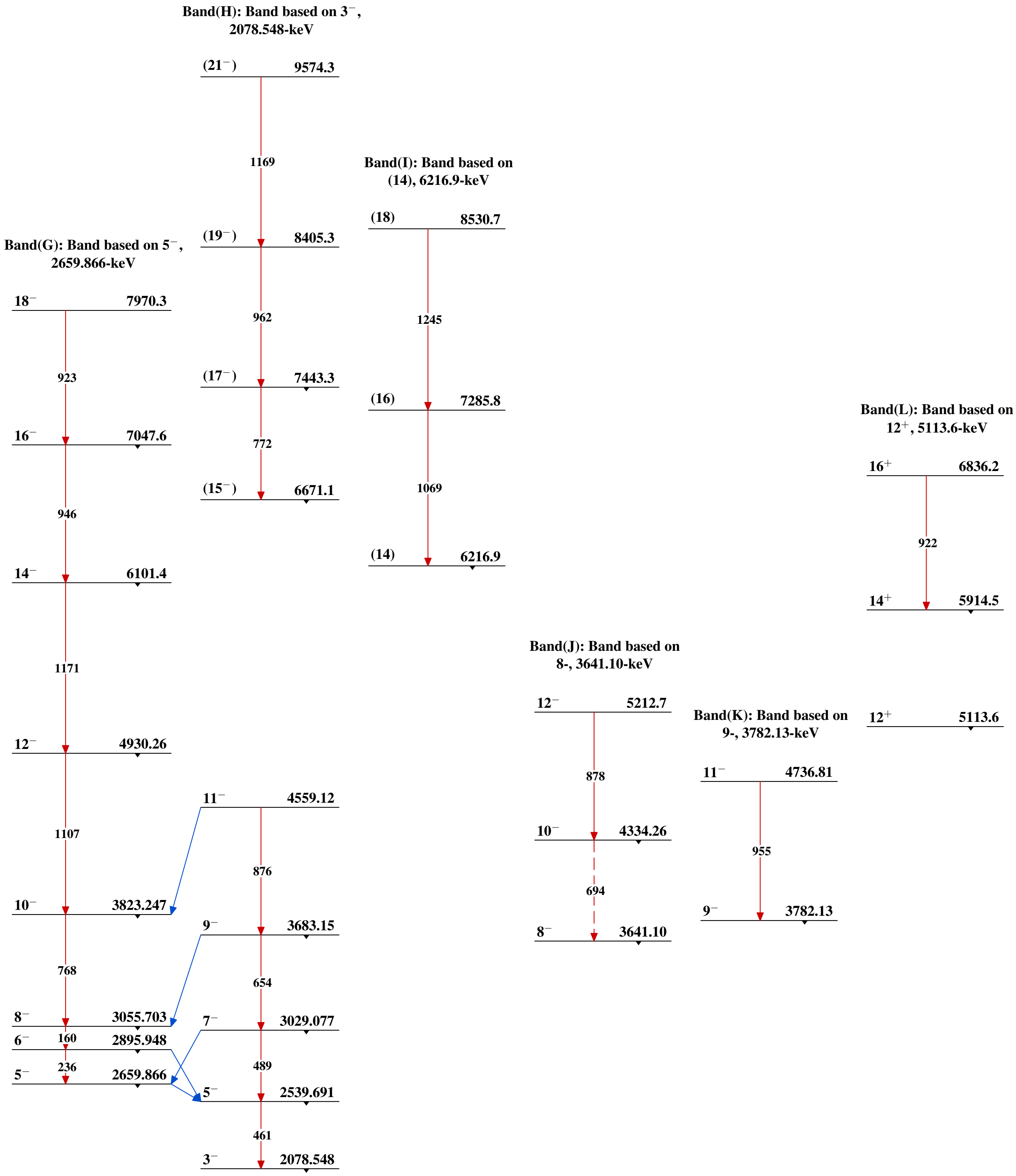


Adopted Levels, Gammas



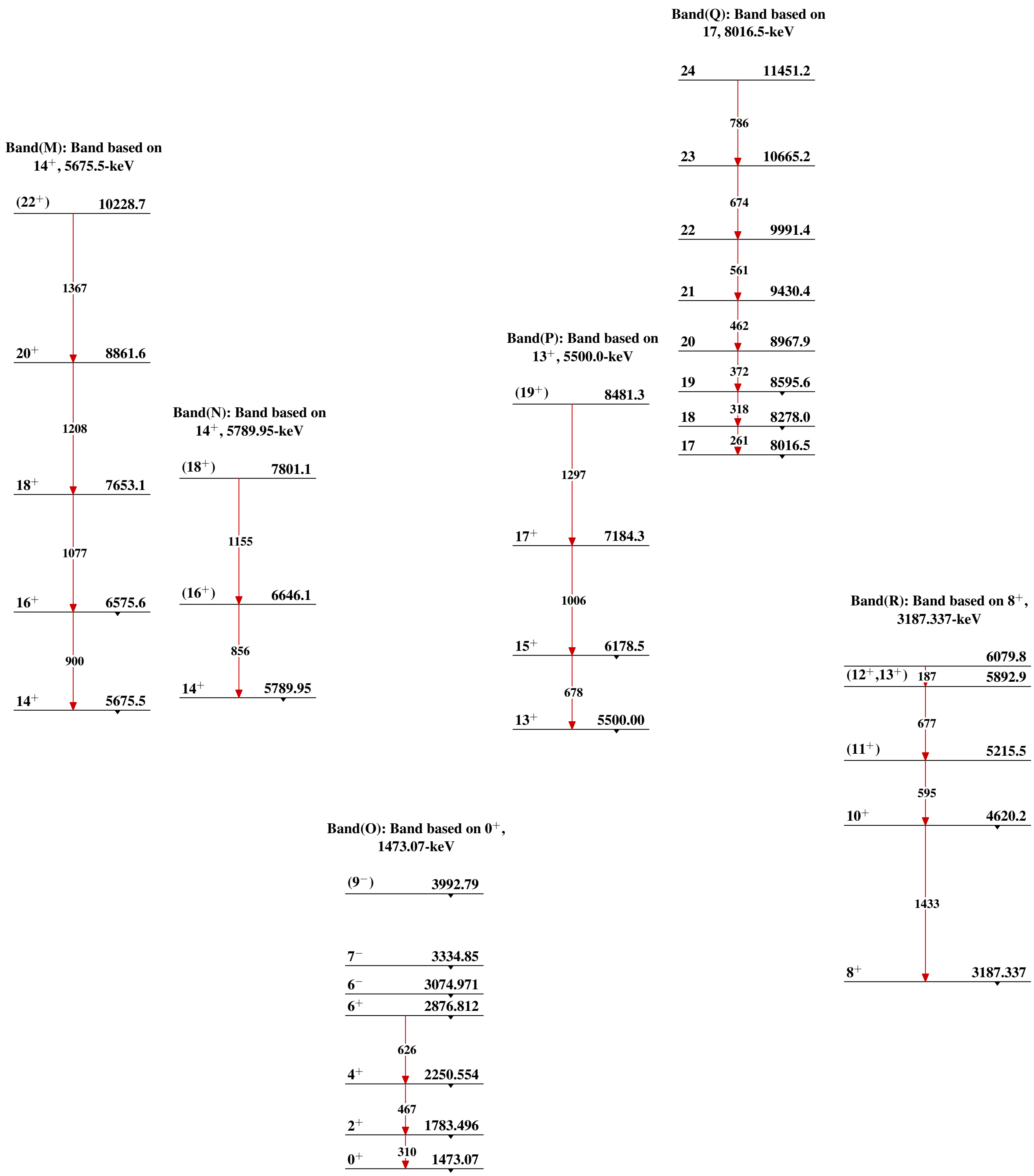
$^{110}_{48}Cd_{62}$

Adopted Levels, Gammas (continued)



$^{110}_{48}Cd_{62}$

Adopted Levels, Gammas (continued)



$^{110}_{48}Cd_{62}$

Adopted Levels, Gammas (continued)