

^{110}In ε decay (69.1 min) 1995Be01,1990Gi01

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

Parent: ^{110}In : $E=62.08$ 4; $J^\pi=2^+$; $T_{1/2}=69.1$ min 5; $Q(\varepsilon)=3878$ 12; $\% \varepsilon + \% \beta^+$ decay=100.0

1995Be01: ^{110}In activity from $^{111}\text{Cd}(p,2n\gamma)$, $E_p=18.9$ MeV. Protons were provided by the Philips variable energy cyclotron at the Paul Scherrer Institute (PSI) at Villigen, Switzerland. Three self-supporting targets of about 15 mg/cm^2 , enriched to 95% ^{111}Cd were used. Singles and coincidence measurements were performed. For singles measurements, a Compton-suppressed Ge detector with a volume of 90 cm^3 (to measure γ -rays between 50 and 1800 keV) and a high purity Ge n-type detector with a volume of 98 cm^3 (to measure γ -rays between 400 and 3800 keV) were used. For coincidence measurements, four Ge detectors, three of which were Compton suppressed with volumes between 65 cm^3 and 127 cm^3 were used. Measured: E_γ , I_γ , $\gamma\gamma$. Deduced: ^{110}Cd energy levels, J^π , $\log ft$.

1990Gi01: ^{110}In activity from $^{110}\text{Cd}(p,n\gamma)$, $E_p=7$ MeV. Protons were provided by the CN Van de Graaff accelerator of the Laboratory Nazionali di Legnaro. The internal conversion electrons were analyzed by means of a magnetic transport system followed by a $5\text{cm}^2 \times 5\text{cm}^2$ Si(Li) detector. γ -rays were detected using a HPGe detector. Measured: E_γ , I_γ , I_{ce} . Deduced: $B(E0)/B(E2)$.

Others: **2009Be44**, **1992Ku01**, **1990Ku01**, **1990KuZY**, **1977Me15**, **1977MeZY**, **1970BuZZ**, **1969Sa20**, **1964Na03**, **1962Ka08**, **1953Bl44**, **1951Mc11**.

 ^{110}Cd Levels

E(level) [†]	J^π [‡]	Comments
0.0	0^+	
657.792 19	2^+	
1473.07 4	0^+	$B(E0;0^+ \text{ to } 0^+ \text{ g.s. level})/B(E2;0^+ \text{ to } 657 \text{ keV, } 2^+ \text{ level})=0.027$ 4 (1990Gi01).
1475.775 20	2^+	
1542.44 3	4^+	
1731.33 4	0^+	$B(E0;0^+ \text{ to } 0^+ \text{ g.s. level})/B(E2;0^+ \text{ to } 657 \text{ keV, } 2^+ \text{ level})<0.049$ (1990Gi01). $B(E2; 0^+ \text{ to } 657 \text{ keV, } 2^+ \text{ level}) \times B(E2; 0^+ \text{ to } 0^+ \text{ g.s. level})/B(E2;0^+ \text{ to } 657 \text{ keV, } 2^+ \text{ level}) \times B(E2;0^+ \text{ to } 1475 \text{ keV, } 2^+ \text{ level})<0.00029$ (1990Gi01). $B(E0;0^+ \text{ to } 1473 \text{ keV, } 0^+ \text{ level})/B(E2;0^+ \text{ to } 657 \text{ keV, } 2^+ \text{ level})<7.2$ (1990Gi01). $B(E0;0^+ \text{ to } 1473, 0^+ \text{ level})/B(E2;0^+ \text{ to } 1475 \text{ keV, } 2^+ \text{ level})<0.042$ (1990Gi01).
1783.537 25	2^+	
2078.58 18	0^+	
2078.84 4	3^-	
2162.80 3	3^+	
2287.44 6	2^+	
2331.99 17	$(0)^+$	
2355.81 4	2^+	
2433.09 15	3^+	
2477.40 5	2^+	
2481.606 20	$(2)^+$	E(level), J^π : From Adopted Levels.
2633.06 5	2^+	
2787.24 4	2^+	
2869.17 3	$1^+, 2^+$	
2917.60 7	$2^+, 3, 4^+$	E(level), J^π : From Adopted Levels.
2975.26 4	$1^+, 2^+$	
3078.38 3	$1^{(+)}$	
3101.90 4	2^+	
3128.41 7	$1^+, 2^+$	
3193.43 4	(3^+)	
3208.69 8	$2^+, 3^+$	
3314.44 4	2^+	
3403.31 6	(1^-)	
3466.42 5	1,2,3	

Continued on next page (footnotes at end of table)

^{110}In ε decay (69.1 min) **1995Be01,1990Gi01** (continued) ^{110}Cd Levels (continued)

E(level) [†]	J π [‡]
3475.420 25	1 ⁺
3634.68 12	2 ⁺
3726.58 18	1,2 ⁺
3771.77 4	1 ⁺

[†] From least-squares fit to E γ 's.

[‡] From Adopted Levels.

 ε, β^+ radiations

E(decay)	E(level)	I β^+ [‡]	I ε [‡]	Log <i>ft</i>	I($\varepsilon + \beta^+$) ^{†‡}	Comments
(168 12)	3771.77		0.0788 21	5.42 8	0.0788 21	$\varepsilon\text{K}=0.825$ 4; $\varepsilon\text{L}=0.139$ 3; $\varepsilon\text{M}+=0.0360$ 9
(214 12)	3726.58		0.0039 10	6.96 13	0.0039 10	$\varepsilon\text{K}=0.8350$ 21; $\varepsilon\text{L}=0.1313$ 17; $\varepsilon\text{M}+=0.0337$ 5
(305 12)	3634.68		0.058 6	6.13 6	0.058 6	$\varepsilon\text{K}=0.8450$ 10; $\varepsilon\text{L}=0.1236$ 7; $\varepsilon\text{M}+=0.03142$ 21
(465 12)	3475.420		0.812 20	5.38 3	0.812 20	$\varepsilon\text{K}=0.8523$ 4; $\varepsilon\text{L}=0.1179$ 3; $\varepsilon\text{M}+=0.02976$ 9
(474 12)	3466.42		0.507 13	5.60 3	0.507 13	$\varepsilon\text{K}=0.8526$ 4; $\varepsilon\text{L}=0.1177$ 3; $\varepsilon\text{M}+=0.02970$ 8
(537 12)	3403.31		0.110 4	6.38 3	0.110 4	$\varepsilon\text{K}=0.8541$ 3; $\varepsilon\text{L}=0.11651$ 21; $\varepsilon\text{M}+=0.02935$ 6
(626 12)	3314.44		0.817 15	5.645 20	0.817 15	$\varepsilon\text{K}=0.8558$ 2; $\varepsilon\text{L}=0.11526$ 15; $\varepsilon\text{M}+=0.02899$ 5
(731 12)	3208.69		0.041 3	7.08 4	0.041 3	$\varepsilon\text{K}=0.8571$ 2; $\varepsilon\text{L}=0.1142$ 1; $\varepsilon\text{M}+=0.02868$ 3
(747 12)	3193.43		0.383 8	6.133 18	0.383 8	$\varepsilon\text{K}=0.8573$ 2; $\varepsilon\text{L}=0.1141$ 1; $\varepsilon\text{M}+=0.02864$ 3
(812 12)	3128.41		0.075 6	6.92 4	0.075 6	$\varepsilon\text{K}=0.8579$ 1; $\varepsilon\text{L}=0.11356$ 9; $\varepsilon\text{M}+=0.02849$ 3
(838 12)	3101.90		0.67 6	5.99 5	0.67 6	$\varepsilon\text{K}=0.8582$ 1; $\varepsilon\text{L}=0.11338$ 8; $\varepsilon\text{M}+=0.02844$ 3
(862 12)	3078.38		0.920 14	5.881 15	0.920 14	$\varepsilon\text{K}=0.8584$ 1; $\varepsilon\text{L}=0.11323$ 8; $\varepsilon\text{M}+=0.02840$ 3
(965 12)	2975.26		1.396 22	5.800 14	1.396 22	$\varepsilon\text{K}=0.8591$; $\varepsilon\text{L}=0.11267$ 6; $\varepsilon\text{M}+=0.02824$ 2
(1071 12)	2869.17		1.86 4	5.769 14	1.86 4	$\varepsilon\text{K}=0.8597$; $\varepsilon\text{L}=0.11221$ 5; $\varepsilon\text{M}+=0.02810$ 2
(1153 12)	2787.24		2.58 12	5.692 23	2.58 12	$\varepsilon\text{K}=0.8600$; $\varepsilon\text{L}=0.11191$ 5; $\varepsilon\text{M}+=0.02801$ 2
(1307 12)	2633.06	0.00029 5	0.200 5	6.914 14	0.200 5	av $E\beta=134.9$ 53; $\varepsilon\text{K}=0.8594$ 2; $\varepsilon\text{L}=0.11130$ 6; $\varepsilon\text{M}+=0.02784$ 2
(1463 12)	2477.40	0.00082 10	0.098 6	7.32 3	0.099 6	av $E\beta=202.6$ 52; $\varepsilon\text{K}=0.8540$ 8; $\varepsilon\text{L}=0.11017$ 13; $\varepsilon\text{M}+=0.02755$ 4
(1507 12)	2433.09	0.00062 10	0.051 7	7.63 6	0.052 7	av $E\beta=221.8$ 52; $\varepsilon\text{K}=0.8510$ 10; $\varepsilon\text{L}=0.10968$ 15; $\varepsilon\text{M}+=0.02742$ 4
(1584 12)	2355.81	0.0039 7	0.19 3	7.11 7	0.19 3	av $E\beta=255.3$ 52; $\varepsilon\text{K}=0.8436$ 14; $\varepsilon\text{L}=0.10857$ 21; $\varepsilon\text{M}+=0.02714$ 6
(1653 12)	2287.44	0.0020 2	0.063 6	7.62 4	0.065 6	av $E\beta=284.9$ 52; $\varepsilon\text{K}=0.8346$ 19; $\varepsilon\text{L}=0.1073$ 3; $\varepsilon\text{M}+=0.02681$ 7
(1777 12)	2162.80	<0.004	<0.07	>7.7	<0.07	av $E\beta=339.0$ 53; $\varepsilon\text{K}=0.811$ 3; $\varepsilon\text{L}=0.1041$ 4; $\varepsilon\text{M}+=0.02601$ 10
(1861 12)	2078.84	0.014 7	0.16 7	7.33 21	0.17 8	av $E\beta=375.7$ 53; $\varepsilon\text{K}=0.791$ 4; $\varepsilon\text{L}=0.1013$ 5; $\varepsilon\text{M}+=0.02531$ 11
(2157 12)	1783.537	0.236 16	0.93 6	6.69 3	1.17 7	av $E\beta=505.5$ 54; $\varepsilon\text{K}=0.689$ 5; $\varepsilon\text{L}=0.0880$ 7; $\varepsilon\text{M}+=0.02196$ 16
(2464 12)	1475.775	0.30 5	0.55 8	7.04 7	0.85 13	av $E\beta=642.7$ 54; $\varepsilon\text{K}=0.555$ 6; $\varepsilon\text{L}=0.0707$ 7; $\varepsilon\text{M}+=0.01764$ 18
(3282 12)	657.792	60.7 4	26.5 4	5.600 9	87.23 19	av $E\beta=1014.7$ 56; $\varepsilon\text{K}=0.263$ 3; $\varepsilon\text{L}=0.0333$ 4; $\varepsilon\text{M}+=0.00831$ 10
						E(decay): Other: $E\beta=2225$ 25; average of 2200 20 (1962Ka08) and 2250 20 (1953B144). From 1953B144, allowed shape is suggested.

[†] From total intensity balance.

[‡] Absolute intensity per 100 decays.

γ(¹¹⁰Cd)

I_γ normalization: From Σ I(γ+ce) to g.s.=100 with the assumption that the β⁻ feeding to the g.s. is negligible.

<u>E_γ[‡]</u>	<u>I_γ^{‡b}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.&</u>	<u>δ^a</u>	<u>α[†]</u>	<u>Comments</u>
184.4 2	0.23 5	3101.90	2 ⁺	2917.60	2 ⁺ ,3,4 ⁺	[M1,E2]		0.0856 13	α(K)=0.0743 11; α(L)=0.00918 14; α(M)=0.00176 3; α(N+..)=0.000332 5 α(N)=0.000314 5; α(O)=1.81×10 ⁻⁵ 3
255.4 [#] 3	0.012 [#] 2	1731.33	0 ⁺	1475.775	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.: α(K)exp=0.023 7.
258.3 1		1731.33	0 ⁺	1473.07	0 ⁺	E0			E _γ : From 1990Gi01. The uncertainty of the electron energy was estimated from another close transition given by the authors. I _γ (258γ)/I _{ce} (K)(258γ)<6.5×10 ⁻³ (1990Gi01). Mult.: From 1990Gi01.
295.3 [#] 3	0.040 [#] 6	2078.58	0 ⁺	1783.537	2 ⁺	E2		0.0342	α(K)=0.0290 5; α(L)=0.00426 7; α(M)=0.000826 12; α(N+..)=0.0001496 22 α(N)=0.0001433 21; α(O)=6.29×10 ⁻⁶ 9 Mult.: α(K)exp=0.028 5.
295.42 [@] 18	0.017 [@] 3	2078.84	3 ⁻	1783.537	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
305.8 2	0.35 11	2787.24	2 ⁺	2481.606	(2) ⁺	[M1]		0.0227	α(K)=0.0197 3; α(L)=0.00240 4; α(M)=0.000460 7; α(N+..)=8.69×10 ⁻⁵ 13 α(N)=8.21×10 ⁻⁵ 12; α(O)=4.77×10 ⁻⁶ 7 E _γ ,I _γ ,Mult.: From adopted gammas.
310.4 6	0.031 14	1783.537	2 ⁺	1473.07	0 ⁺	[E2]		0.0290	α(K)=0.0246 4; α(L)=0.00357 6; α(M)=0.000692 11; α(N+..)=0.0001257 20 α(N)=0.0001203 19; α(O)=5.38×10 ⁻⁶ 9
^x 338.24 11 ^x 416.50 11 548.4 2	0.025 4 0.027 4 0.0048 7	2331.99	(0) ⁺	1783.537	2 ⁺	[E2]		0.00512	α(K)=0.00442 7; α(L)=0.000571 8; α(M)=0.0001099 16; α(N+..)=2.04×10 ⁻⁵ 3 α(N)=1.94×10 ⁻⁵ 3; α(O)=1.011×10 ⁻⁶ 15 E _γ : From adopted gammas.
602.9 [#] 3	0.070 [#] 11	2078.84	3 ⁻	1475.775	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 Mult.: From 1992Ku01, deduced from γ(θ) using (α,2nγ)). I _γ : <0.3 given in 1992Ku01.
605.4 3 620.3553 17	0.023 6	2162.80	3 ⁺	1542.44	4 ⁺	M1+E2	-0.50 5	0.00391	α(K)=0.00341 5; α(L)=0.000410 6; α(M)=7.86×10 ⁻⁵ 11;

¹¹⁰In ε decay (69.1 min) 1995Be01,1990Gi01 (continued)

γ(¹¹⁰Cd) (continued)

E_γ ‡	I_γ ‡ ^b	E_i (level)	J_i^π	E_f	J_f^π	Mult.&	δ^a	α^\dagger	Comments
624.47 9		2355.81	2 ⁺	1731.33	0 ⁺	E2		0.00360	$\alpha(N+..)=1.482\times 10^{-5}$ 21 $\alpha(N)=1.401\times 10^{-5}$ 20; $\alpha(O)=8.11\times 10^{-7}$ 12 I_γ : From adopted gammas. Mult.: From adopted gammas. $\alpha(K)=0.00311$ 5; $\alpha(L)=0.000394$ 6; $\alpha(M)=7.58\times 10^{-5}$ 11; $\alpha(N+..)=1.411\times 10^{-5}$ 20 $\alpha(N)=1.339\times 10^{-5}$ 19; $\alpha(O)=7.16\times 10^{-7}$ 10 E_γ ,Mult.: From adopted gammas.
651.3 @ ^c 5 657.75 5	0.0087 @ 11 100	2433.09 657.792	3 ⁺ 2 ⁺	1783.537 0.0	2 ⁺ 0 ⁺	E2		0.00314	$\alpha(K)=0.00272$ 4; $\alpha(L)=0.000342$ 5; $\alpha(M)=6.57\times 10^{-5}$ 10; $\alpha(N+..)=1.224\times 10^{-5}$ 18 $\alpha(N)=1.161\times 10^{-5}$ 17; $\alpha(O)=6.26\times 10^{-7}$ 9 Mult.: K/(L+M) = 6.0 5 (¹¹⁰ In ε Decay (4.92 h) in 1962Ka08).
686.92 9	0.054 15	2162.80	3 ⁺	1475.775	2 ⁺	M1+E2	-1.69 +2-4	0.00289	$\alpha(K)=0.00251$ 4; $\alpha(L)=0.000309$ 5; $\alpha(M)=5.93\times 10^{-5}$ 9; $\alpha(N+..)=1.111\times 10^{-5}$ 16 $\alpha(N)=1.053\times 10^{-5}$ 15; $\alpha(O)=5.85\times 10^{-7}$ 9 I_γ : From adopted gammas. 0.111 9 in ¹¹⁰ In ε decay (69.1 min). Mult.: Deduced from $\gamma(\theta)$ using $(\alpha,2n\gamma)$ ($A_2=-0.70$ 15, $A_4=-0.01$ 2) in 1992Ku01.
746.19 17		2477.40	2 ⁺	1731.33	0 ⁺	E2		0.00227	$\alpha(K)=0.00197$ 3; $\alpha(L)=0.000245$ 4; $\alpha(M)=4.69\times 10^{-5}$ 7; $\alpha(N+..)=8.77\times 10^{-6}$ 13 $\alpha(N)=8.32\times 10^{-6}$ 12; $\alpha(O)=4.57\times 10^{-7}$ 7 E_γ ,Mult.: From adopted gammas.
790.81 18	0.018 3	3078.38	1 ⁽⁺⁾	2287.44	2 ⁺	[M1]		0.00226	$\alpha(K)=0.00197$ 3; $\alpha(L)=0.000233$ 4; $\alpha(M)=4.46\times 10^{-5}$ 7; $\alpha(N+..)=8.44\times 10^{-6}$ 12 $\alpha(N)=7.97\times 10^{-6}$ 12; $\alpha(O)=4.72\times 10^{-7}$ 7
815.31 4	0.304 13	1473.07	0 ⁺	657.792	2 ⁺	E2		0.00183	$\alpha(K)=0.001592$ 23; $\alpha(L)=0.000195$ 3; $\alpha(M)=3.74\times 10^{-5}$ 6; $\alpha(N+..)=7.01\times 10^{-6}$ 10 $\alpha(N)=6.64\times 10^{-6}$ 10; $\alpha(O)=3.69\times 10^{-7}$ 6 Mult.: $\alpha(K)_{exp}=0.0016$ 2, sum of the 815.31 keV and 818.05 keV transitions.
818.05 3	0.89 11	1475.775	2 ⁺	657.792	2 ⁺	M1+E2	-1.36 6	0.00191	$\alpha(K)=0.001665$ 24; $\alpha(L)=0.000201$ 3; $\alpha(M)=3.86\times 10^{-5}$ 6; $\alpha(N+..)=7.25\times 10^{-6}$ 11 $\alpha(N)=6.86\times 10^{-6}$ 10; $\alpha(O)=3.91\times 10^{-7}$ 6 Mult.: From adopted gammas. $\alpha(K)_{exp}=0.0016$ 2, sum of the 815.31 keV and 818.05 keV transitions in ¹¹⁰ In ε Decay (69 min).
884.70 4	0.16 8	1542.44	4 ⁺	657.792	2 ⁺	E2		1.51×10 ⁻³	$\alpha(K)=0.001313$ 19; $\alpha(L)=0.0001597$ 23; $\alpha(M)=3.06\times 10^{-5}$ 5; $\alpha(N+..)=5.74\times 10^{-6}$ 8

¹¹⁰In ε decay (69.1 min) 1995Be01,1990G101 (continued)

γ(¹¹⁰Cd) (continued)

E_γ^{\ddagger}	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. &	δ^a	α^\ddagger	Comments
890.7 [@] 5	0.0024 [@] 4	2433.09	3 ⁺	1542.44	4 ⁺	[M1]		1.72×10 ⁻³	$\alpha(N)=5.44\times 10^{-6}$ 8; $\alpha(O)=3.05\times 10^{-7}$ 5 Mult.: $\alpha(K)\text{exp}=0.0012$ 2. $\alpha(K)=0.001506$ 22; $\alpha(L)=0.0001772$ 25; $\alpha(M)=3.39\times 10^{-5}$ 5; $\alpha(N+..)=6.42\times 10^{-6}$ 9
957.30 18	0.030 5	2433.09	3 ⁺	1475.775	2 ⁺	M1+E2	-0.9 7	0.00137 9	$\alpha(N)=6.06\times 10^{-6}$ 9; $\alpha(O)=3.59\times 10^{-7}$ 5 $\alpha(K)=0.00120$ 8; $\alpha(L)=0.000142$ 8; $\alpha(M)=2.72\times 10^{-5}$ 15; $\alpha(N+..)=5.1\times 10^{-6}$ 3 $\alpha(N)=4.9\times 10^{-6}$ 3; $\alpha(O)=2.83\times 10^{-7}$ 21 Mult.: From adopted gammas.
958.56 5	0.069 5	3314.44	2 ⁺	2355.81	2 ⁺	[M1]		1.46×10 ⁻³	$\alpha(K)=0.001277$ 18; $\alpha(L)=0.0001500$ 21; $\alpha(M)=2.87\times 10^{-5}$ 4; $\alpha(N+..)=5.43\times 10^{-6}$ 8
1001.71 6	0.050 5	2477.40	2 ⁺	1475.775	2 ⁺	[M1]		1.32×10 ⁻³	$\alpha(N)=5.13\times 10^{-6}$ 8; $\alpha(O)=3.05\times 10^{-7}$ 5 $\alpha(K)=0.001158$ 17; $\alpha(L)=0.0001358$ 19; $\alpha(M)=2.60\times 10^{-5}$ 4; $\alpha(N+..)=4.92\times 10^{-6}$ 7
1023.05 5	0.064 12	3101.90	2 ⁺	2078.84	3 ⁻	[E1]		4.65×10 ⁻⁴	$\alpha(N)=4.64\times 10^{-6}$ 7; $\alpha(O)=2.76\times 10^{-7}$ 4 $\alpha(K)=0.000407$ 6; $\alpha(L)=4.70\times 10^{-5}$ 7; $\alpha(M)=8.97\times 10^{-6}$ 13; $\alpha(N+..)=1.695\times 10^{-6}$ 24
1030.0 [@] 5	0.1095 [@] 25	3193.43	(3 ⁺)	2162.80	3 ⁺	[M1]		1.24×10 ⁻³	$\alpha(N)=1.601\times 10^{-6}$ 23; $\alpha(O)=9.40\times 10^{-8}$ 14 $\alpha(K)=0.001088$ 16; $\alpha(L)=0.0001276$ 18; $\alpha(M)=2.44\times 10^{-5}$ 4; $\alpha(N+..)=4.62\times 10^{-6}$ 7
1073.55 4	0.106 5	1731.33	0 ⁺	657.792	2 ⁺	E2		9.75×10 ⁻⁴	$\alpha(N)=4.36\times 10^{-6}$ 7; $\alpha(O)=2.59\times 10^{-7}$ 4 $\alpha(K)=0.000850$ 12; $\alpha(L)=0.0001017$ 15; $\alpha(M)=1.95\times 10^{-5}$ 3; $\alpha(N+..)=3.66\times 10^{-6}$ 6
1085.57 4	0.039 12	2869.17	1 ⁺ ,2 ⁺	1783.537	2 ⁺	E2+M1		1.11×10 ⁻³	$\alpha(N)=3.47\times 10^{-6}$ 5; $\alpha(O)=1.98\times 10^{-7}$ 3 Mult.: $\alpha(K)\text{exp}=0.00085$ 8. $\alpha(K)=0.000969$ 14; $\alpha(L)=0.0001135$ 16; $\alpha(M)=2.17\times 10^{-5}$ 3; $\alpha(N+..)=4.11\times 10^{-6}$ 6
1090.83 [@] 10	0.0605 [@] 17	2633.06	2 ⁺	1542.44	4 ⁺	[E2]		9.42×10 ⁻⁴	$\alpha(N)=3.88\times 10^{-6}$ 6; $\alpha(O)=2.31\times 10^{-7}$ 4 $\alpha(K)=0.000821$ 12; $\alpha(L)=9.81\times 10^{-5}$ 14; $\alpha(M)=1.88\times 10^{-5}$ 3; $\alpha(N+..)=3.54\times 10^{-6}$ 5
1125.77 3	1.06 6	1783.537	2 ⁺	657.792	2 ⁺	M1+E2	+0.28 4	1.01×10 ⁻³	$\alpha(N)=3.34\times 10^{-6}$ 5; $\alpha(O)=1.92\times 10^{-7}$ 3 $\alpha(K)=0.000886$ 13; $\alpha(L)=0.0001038$ 15; $\alpha(M)=1.98\times 10^{-5}$ 3; $\alpha(N+..)=4.78\times 10^{-6}$ 7
1151.70 6	0.050 4	3314.44	2 ⁺	2162.80	3 ⁺	[M1]		9.76×10 ⁻⁴	$\alpha(N)=3.55\times 10^{-6}$ 5; $\alpha(O)=2.11\times 10^{-7}$ 3; $\alpha(\text{IPF})=1.022\times 10^{-6}$ 15 Mult.: $\alpha(K)\text{exp}=0.00043$ 5. $\alpha(K)=0.000852$ 12; $\alpha(L)=9.96\times 10^{-5}$ 14; $\alpha(M)=1.90\times 10^{-5}$ 3; $\alpha(N+..)=5.72\times 10^{-6}$ 8
1157.24 17		2633.06	2 ⁺	1475.775	2 ⁺	[M1]		9.66×10 ⁻⁴	$\alpha(N)=3.40\times 10^{-6}$ 5; $\alpha(O)=2.03\times 10^{-7}$ 3; $\alpha(\text{IPF})=2.11\times 10^{-6}$ 3 $\alpha(K)=0.000843$ 12; $\alpha(L)=9.85\times 10^{-5}$ 14;

γ(¹¹⁰Cd) (continued)

<u>E_γ[‡]</u>	<u>I_γ^{‡b}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.^{&}</u>	<u>δ^a</u>	<u>α[†]</u>	<u>Comments</u>
1235.67 4	0.297 8	3314.44	2 ⁺	2078.84	3 ⁻	[E1]		3.84×10 ⁻⁴	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 adopted gammas. α(K)=0.000288 4; α(L)=3.31×10 ⁻⁵ 5; α(M)=6.32×10 ⁻⁶ 9; α(N+..)=5.65×10 ⁻⁵ 8 α(N)=1.128×10 ⁻⁶ 16; α(O)=6.66×10 ⁻⁸ 10; α(IPF)=5.53×10 ⁻⁵ 8
1314.25 10	0.042 3	2787.24	2 ⁺	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 α(K)=0.000610 9; α(L)=7.10×10 ⁻⁵ 10; α(M)=1.358×10 ⁻⁵ 19; α(N+..)=3.24×10 ⁻⁵ 5 α(N)=2.43×10 ⁻⁶ 4; α(O)=1.449×10 ⁻⁷ 21; α(IPF)=2.98×10 ⁻⁵ 5
1344.88 15	0.019 4	3128.41	1 ⁺ ,2 ⁺	1783.537	2 ⁺	[M1]		7.27×10 ⁻⁴	α(K)=0.000565 8; α(L)=6.58×10 ⁻⁵ 10; α(M)=1.258×10 ⁻⁵ 18; α(N+..)=4.41×10 ⁻⁵ 7 α(N)=2.25×10 ⁻⁶ 4; α(O)=1.343×10 ⁻⁷ 19; α(IPF)=4.17×10 ⁻⁵ 6 E _γ : Least-squares fit gives 1393.39 3. α(K)=0.000552 8; α(L)=6.42×10 ⁻⁵ 9; α(M)=1.227×10 ⁻⁵ 18; α(N+..)=4.84×10 ⁻⁵ 7 α(N)=2.19×10 ⁻⁶ 3; α(O)=1.310×10 ⁻⁷ 19; α(IPF)=4.61×10 ⁻⁵ 7 α(K)=0.000226 9; α(L)=2.59×10 ⁻⁵ 10; 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 Mult.: α(K)exp=0.00019 2. E _γ : From 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. I _γ (1473γ)/I _{ce} (K)(1473γ)<3.4×10 ⁻⁴ (1990Gi01). Mult.: From 1990Gi01.
^x 1387.22 7 1393.63 7	0.033 4 0.054 4	2869.17	1 ⁺ ,2 ⁺	1475.775	2 ⁺	[M1]		6.88×10 ⁻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 I _γ : From adopted gammas. 0.42 6 from ¹¹⁰ In ε decay (69.1 min). Mult.: α(K)exp=0.00046 3.
1410.08 8	0.033 4	3193.43	(3 ⁺)	1783.537	2 ⁺	[M1]		6.76×10 ⁻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;
1421.10 [#] 4	0.46 [#] 7	2078.84	3 ⁻	657.792	2 ⁺	E1(+M2)	+0.01 8	4.32×10 ⁻⁴ 10	
1473.1 11		1473.07	0 ⁺	0.0	0 ⁺	E0			
1475.76 3	0.49 6	1475.775	2 ⁺	0.0	0 ⁺	E2		5.77×10 ⁻⁴	
1505.03 4	0.11 3	2162.80	3 ⁺	657.792	2 ⁺	M1+E2	-1.27 3	5.90×10 ⁻⁴	

¹¹⁰In ε decay (69.1 min) 1995Be01,1990Gi01 (continued)

γ(¹¹⁰Cd) (continued)

<u>E_γ[‡]</u>	<u>I_γ^{‡b}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.&</u>	<u>δ^a</u>	<u>α[†]</u>	<u>Comments</u>
									α(IPF)=8.02×10 ⁻⁵ 12 Mult.: α(K)exp=0.00050 5.
1555.76 21	0.013 4	3634.68	2 ⁺	2078.84	3 ⁻				
1583.18 20	0.013 5	3314.44	2 ⁺	1731.33	0 ⁺	[E2]		5.52×10 ⁻⁴	α(K)=0.000384 6; α(L)=4.49×10 ⁻⁵ 7; α(M)=8.57×10 ⁻⁶ 12; α(N+..)=0.0001149 17
1602.57 4	0.123 4	3078.38	1 ⁽⁺⁾	1475.775	2 ⁺	[M1]		5.93×10 ⁻⁴	α(N)=1.530×10 ⁻⁶ 22; α(O)=8.98×10 ⁻⁸ 13; α(IPF)=0.0001133 16 α(K)=0.000422 6; α(L)=4.90×10 ⁻⁵ 7; α(M)=9.36×10 ⁻⁶ 14; α(N+..)=0.0001123 16
1626.17 6	0.055 4	3101.90	2 ⁺	1475.775	2 ⁺	[M1]		5.87×10 ⁻⁴	α(N)=1.674×10 ⁻⁶ 24; α(O)=1.001×10 ⁻⁷ 14; α(IPF)=0.0001105 16 α(K)=0.000410 6; α(L)=4.75×10 ⁻⁵ 7; α(M)=9.08×10 ⁻⁶ 13; α(N+..)=0.0001213 17
1629.62 5	0.085 5	2287.44	2 ⁺	657.792	2 ⁺	M1(+E2)	+0.06 3	5.87×10 ⁻⁴	α(N)=1.623×10 ⁻⁶ 23; α(O)=9.71×10 ⁻⁸ 14; α(IPF)=0.0001196 17 α(K)=0.000408 6; α(L)=4.73×10 ⁻⁵ 7; α(M)=9.03×10 ⁻⁶ 13; α(N+..)=0.0001227 18
1652.70 9	0.028 3	3128.41	1 ^{+,2+}	1475.775	2 ⁺	[M1]		5.82×10 ⁻⁴	α(N)=1.616×10 ⁻⁶ 23; α(O)=9.66×10 ⁻⁸ 14; α(IPF)=0.0001209 17 Mult.: From adopted gammas. α(K)=0.000396 6; α(L)=4.59×10 ⁻⁵ 7; α(M)=8.78×10 ⁻⁶ 13; α(N+..)=0.0001316 19
1666.23 7	0.042 3	3208.69	2 ^{+,3+}	1542.44	4 ⁺				
1674.3 [#] 3	0.020 [#] 3	2331.99	(0) ⁺	657.792	2 ⁺	[E2]		5.45×10 ⁻⁴	α(K)=0.000345 5; α(L)=4.02×10 ⁻⁵ 6; α(M)=7.68×10 ⁻⁶ 11; α(N+..)=0.0001527 22
1697.97 4	0.26 3	2355.81	2 ⁺	657.792	2 ⁺	M1+E2	+1.75 15	5.53×10 ⁻⁴	α(N)=1.370×10 ⁻⁶ 20; α(O)=8.06×10 ⁻⁸ 12; α(IPF)=0.0001512 22 α(K)=0.000345 5; α(L)=4.02×10 ⁻⁵ 6; α(M)=7.67×10 ⁻⁶ 12; α(N+..)=0.0001597 23
1717.70 10	0.030 3	3193.43	(3 ⁺)	1475.775	2 ⁺	[M1]		5.74×10 ⁻⁴	α(N)=1.370×10 ⁻⁶ 20; α(O)=8.10×10 ⁻⁸ 12; α(IPF)=0.0001582 23 Mult.: α(K)exp=0.00027 5.
1731.4 11		1731.33	0 ⁺	0.0	0 ⁺	E0			α(K)=0.000366 6; α(L)=4.24×10 ⁻⁵ 6; α(M)=8.10×10 ⁻⁶ 12; α(N+..)=0.0001578 22 α(N)=1.448×10 ⁻⁶ 21; α(O)=8.67×10 ⁻⁸ 13; α(IPF)=0.0001563 22 E _γ : From 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 1990Gi01.
1744.10 7	0.050 3	3475.420	1 ⁺	1731.33	0 ⁺	[M1]		5.73×10 ⁻⁴	I _γ (1731γ)/I _{ce} (K)(1731γ)<2.1×10 ⁻⁴ (1990Gi01). α(K)=0.000355 5; α(L)=4.11×10 ⁻⁵ 6; α(M)=7.85×10 ⁻⁶ 11; α(N+..)=0.0001690 24
1775.3 3	0.021 4	2433.09	3 ⁺	657.792	2 ⁺	M1+E2	-0.35 10	5.69×10 ⁻⁴	α(N)=1.403×10 ⁻⁶ 20; α(O)=8.40×10 ⁻⁸ 12; α(IPF)=0.0001675 24 α(K)=0.000338 6; α(L)=3.92×10 ⁻⁵ 6; α(M)=7.49×10 ⁻⁶ 12; α(N+..)=0.000184 3
									α(N)=1.339×10 ⁻⁶ 21; α(O)=8.00×10 ⁻⁸ 13; α(IPF)=0.000183 3 I _γ : From adopted gammas. 0.014 3 in ¹¹⁰ In ε decay (69.1 min). Mult.,δ: From adopted gammas.

¹¹⁰In ε decay (69.1 min) 1995Be01,1990Gi01 (continued)

$\gamma(^{110}\text{Cd})$ (continued)									
E_γ^{\ddagger}	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.&	δ^a	α^\dagger	Comments
1783.47 4	0.30 2	1783.537	2 ⁺	0.0	0 ⁺	E2		5.49×10 ⁻⁴	$\alpha(\text{K})=0.000306$ 5; $\alpha(\text{L})=3.56\times 10^{-5}$ 5; $\alpha(\text{M})=6.79\times 10^{-6}$ 10; $\alpha(\text{N}+..)=0.000201$ 3 $\alpha(\text{N})=1.212\times 10^{-6}$ 17; $\alpha(\text{O})=7.15\times 10^{-8}$ 10; $\alpha(\text{IPF})=0.000200$ 3 Mult.: $\alpha(\text{K})_{\text{exp}}=0.00018$ 3.
1819.82 24		2477.40	2 ⁺	657.792	2 ⁺	[M1]		5.72×10 ⁻⁴	$\alpha(\text{K})=0.000325$ 5; $\alpha(\text{L})=3.76\times 10^{-5}$ 6; $\alpha(\text{M})=7.19\times 10^{-6}$ 10; $\alpha(\text{N}+..)=0.000202$ 3 $\alpha(\text{N})=1.286\times 10^{-6}$ 18; $\alpha(\text{O})=7.70\times 10^{-8}$ 11; $\alpha(\text{IPF})=0.000201$ 3 E_γ : From adopted gammas.
1851.15 13	0.046 4	3634.68	2 ⁺	1783.537	2 ⁺				
1975.20 5	0.144 4	2633.06	2 ⁺	657.792	2 ⁺	[E2+M1]		5.87×10 ⁻⁴	$\alpha(\text{K})=0.000276$ 4; $\alpha(\text{L})=3.18\times 10^{-5}$ 5; $\alpha(\text{M})=6.08\times 10^{-6}$ 9; $\alpha(\text{N}+..)=0.000274$ 4 $\alpha(\text{N})=1.088\times 10^{-6}$ 16; $\alpha(\text{O})=6.52\times 10^{-8}$ 10; $\alpha(\text{IPF})=0.000272$ 4
2002.37 5	0.132 3	3475.420	1 ⁺	1473.07	0 ⁺	[M1]		5.91×10 ⁻⁴	$\alpha(\text{K})=0.000268$ 4; $\alpha(\text{L})=3.10\times 10^{-5}$ 5; $\alpha(\text{M})=5.92\times 10^{-6}$ 9; $\alpha(\text{N}+..)=0.000286$ 4 $\alpha(\text{N})=1.058\times 10^{-6}$ 15; $\alpha(\text{O})=6.34\times 10^{-8}$ 9; $\alpha(\text{IPF})=0.000285$ 4 I_γ : <0.17 given in 1992Ku01.
2078.4 3		2078.58	0 ⁺	0.0	0 ⁺	E0			
2129.40 3	2.20 3	2787.24	2 ⁺	657.792	2 ⁺	M1+E2		6.17×10 ⁻⁴	$\alpha(\text{K})=0.000237$ 4; $\alpha(\text{L})=2.74\times 10^{-5}$ 4; $\alpha(\text{M})=5.23\times 10^{-6}$ 8; $\alpha(\text{N}+..)=0.000347$ 5 $\alpha(\text{N})=9.35\times 10^{-7}$ 13; $\alpha(\text{O})=5.61\times 10^{-8}$ 8; $\alpha(\text{IPF})=0.000346$ 5 Mult.: From adopted gammas.
2211.33 3	1.78 3	2869.17	1 ⁺ ,2 ⁺	657.792	2 ⁺	M1+E2		6.38×10 ⁻⁴	$\alpha(\text{K})=0.000220$ 3; $\alpha(\text{L})=2.54\times 10^{-5}$ 4; $\alpha(\text{M})=4.85\times 10^{-6}$ 7; $\alpha(\text{N}+..)=0.000387$ 6 $\alpha(\text{N})=8.67\times 10^{-7}$ 13; $\alpha(\text{O})=5.20\times 10^{-8}$ 8; $\alpha(\text{IPF})=0.000386$ 6 Mult.: From adopted gammas.
^x 2243.30 10	0.042 3								
^x 2259.38 10	0.045 3								
2317.41 4	1.315 22	2975.26	1 ⁺ ,2 ⁺	657.792	2 ⁺	M1+E2	-0.16 12	6.67×10 ⁻⁴	$\alpha(\text{K})=0.000201$ 3; $\alpha(\text{L})=2.31\times 10^{-5}$ 4; $\alpha(\text{M})=4.41\times 10^{-6}$ 7; $\alpha(\text{N}+..)=0.000439$ 7 $\alpha(\text{N})=7.90\times 10^{-7}$ 12; $\alpha(\text{O})=4.74\times 10^{-8}$ 7; $\alpha(\text{IPF})=0.000438$ 7 Mult.: From adopted gammas.
2420.51 4	0.535 10	3078.38	1 ⁽⁺⁾	657.792	2 ⁺	[M1]		6.98×10 ⁻⁴	$\alpha(\text{K})=0.000185$ 3; $\alpha(\text{L})=2.13\times 10^{-5}$ 3; $\alpha(\text{M})=4.06\times 10^{-6}$ 6; $\alpha(\text{N}+..)=0.000488$ 7 $\alpha(\text{N})=7.26\times 10^{-7}$ 11; $\alpha(\text{O})=4.36\times 10^{-8}$ 7; $\alpha(\text{IPF})=0.000487$ 7
2444.05 4	0.299 6	3101.90	2 ⁺	657.792	2 ⁺	[M1]		7.05×10 ⁻⁴	$\alpha(\text{K})=0.000181$ 3; $\alpha(\text{L})=2.09\times 10^{-5}$ 3; $\alpha(\text{M})=3.98\times 10^{-6}$ 6; $\alpha(\text{N}+..)=0.000499$ 7 $\alpha(\text{N})=7.12\times 10^{-7}$ 10; $\alpha(\text{O})=4.28\times 10^{-8}$ 6; $\alpha(\text{IPF})=0.000498$ 7
2477.16 8	0.051 2	2477.40	2 ⁺	0.0	0 ⁺	[E2]		7.24×10 ⁻⁴	$\alpha(\text{K})=0.0001686$ 24; $\alpha(\text{L})=1.94\times 10^{-5}$ 3; $\alpha(\text{M})=3.70\times 10^{-6}$ 6; $\alpha(\text{N}+..)=0.000532$ 8 $\alpha(\text{N})=6.61\times 10^{-7}$ 10; $\alpha(\text{O})=3.94\times 10^{-8}$ 6; $\alpha(\text{IPF})=0.000532$ 8
2535.55 4	0.219 5	3193.43	(3 ⁺)	657.792	2 ⁺	[M1]		7.34×10 ⁻⁴	$\alpha(\text{K})=0.0001689$ 24; $\alpha(\text{L})=1.94\times 10^{-5}$ 3; $\alpha(\text{M})=3.71\times 10^{-6}$ 6; $\alpha(\text{N}+..)=0.000542$ 8 $\alpha(\text{N})=6.63\times 10^{-7}$ 10; $\alpha(\text{O})=3.98\times 10^{-8}$ 6; $\alpha(\text{IPF})=0.000542$ 8
^x 2598.55 13	0.026 2								

∞

¹¹⁰In ε decay (69.1 min) 1995Be01,1990Gi01 (continued)

γ(¹¹⁰Cd) (continued)

<u>E_γ[†]</u>	<u>I_γ^{‡b}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.&</u>	<u>α[†]</u>	<u>Comments</u>
2656.55 4	0.406 9	3314.44	2 ⁺	657.792	2 ⁺	[M1]	7.75×10 ⁻⁴	α(K)=0.0001545 22; α(L)=1.776×10 ⁻⁵ 25; α(M)=3.39×10 ⁻⁶ 5; α(N+..)=0.000600 9
2745.45 6	0.090 3	3403.31	(1 ⁻)	657.792	2 ⁺	[E1]	1.17×10 ⁻³	α(N)=6.06×10 ⁻⁷ 9; α(O)=3.64×10 ⁻⁸ 5; α(IPF)=0.000599 9 α(K)=8.11×10 ⁻⁵ 12; α(L)=9.19×10 ⁻⁶ 13; α(M)=1.752×10 ⁻⁶ 25; α(N+..)=0.001083 16
2787.30 7	0.035 11	2787.24	2 ⁺	0.0	0 ⁺	[E2]	8.31×10 ⁻⁴	α(N)=3.13×10 ⁻⁷ 5; α(O)=1.87×10 ⁻⁸ 3; α(IPF)=0.001082 16 α(K)=0.0001375 20; α(L)=1.576×10 ⁻⁵ 22; α(M)=3.01×10 ⁻⁶ 5; α(N+..)=0.000675 10
2808.59 4	0.519 13	3466.42	1,2,3	657.792	2 ⁺			α(N)=5.37×10 ⁻⁷ 8; α(O)=3.21×10 ⁻⁸ 5; α(IPF)=0.000674 10 I _γ : From adopted gammas. 0.072 3 in ¹¹⁰ In ε decay (69.1 min).
2817.61 7	0.058 3	3475.420	1 ⁺	657.792	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
2869.28 10	0.033 2	2869.17	1 ⁺ ,2 ⁺	0.0	0 ⁺			α(N)=5.42×10 ⁻⁷ 8; α(O)=3.26×10 ⁻⁸ 5; α(IPF)=0.000674 10
^x 2891.88 6	0.084 3							
^x 2939.44 25	0.012 2							
2975.29 6	0.112 4	2975.26	1 ⁺ ,2 ⁺	0.0	0 ⁺	[M1,E2]	8.88×10 ⁻⁴	α(K)=0.0001249 18; α(L)=1.433×10 ⁻⁵ 20; α(M)=2.73×10 ⁻⁶ 4; α(N+..)=0.000746 11
^x 3043.97 5	0.126 4							α(N)=4.89×10 ⁻⁷ 7; α(O)=2.94×10 ⁻⁸ 5; α(IPF)=0.000745 11
^x 3059.20 15	0.017 2							
3078.42 4	0.265 8	3078.38	1 ⁽⁺⁾	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 Mult.: From adopted gammas.
3102.00 18	0.005 1	3101.90	2 ⁺	0.0	0 ⁺	[E2]	9.42×10 ⁻⁴	α(K)=0.0001147 16; α(L)=1.312×10 ⁻⁵ 19; α(M)=2.50×10 ⁻⁶ 4; α(N+..)=0.000812 12
								α(N)=4.47×10 ⁻⁷ 7; α(O)=2.68×10 ⁻⁸ 4; α(IPF)=0.000812 12
3114 [@]	0.0186 [@] 6	3771.77	1 ⁺	657.792	2 ⁺			
3128.25 10	0.030 2	3128.41	1 ⁺ ,2 ⁺	0.0	0 ⁺	[E2]	9.52×10 ⁻⁴	α(K)=0.0001131 16; α(L)=1.293×10 ⁻⁵ 19; α(M)=2.47×10 ⁻⁶ 4; α(N+..)=0.000823 12
								α(N)=4.41×10 ⁻⁷ 7; α(O)=2.64×10 ⁻⁸ 4; α(IPF)=0.000823 12
^x 3280.85 10	0.033 2							
3315.2 ^{@c} 7	0.142 [@] 3	3314.44	2 ⁺	0.0	0 ⁺	[E2]	1.02×10 ⁻³	α(K)=0.0001027 15; α(L)=1.173×10 ⁻⁵ 17; α(M)=2.24×10 ⁻⁶ 4; α(N+..)=0.000901 13
								α(N)=4.00×10 ⁻⁷ 6; α(O)=2.40×10 ⁻⁸ 4; α(IPF)=0.000901 13
3403.48 15	0.022 2	3403.31	(1 ⁻)	0.0	0 ⁺	[E1]	1.48×10 ⁻³	α(K)=6.00×10 ⁻⁵ 9; α(L)=6.79×10 ⁻⁶ 10; α(M)=1.293×10 ⁻⁶ 19; α(N+..)=0.001415 20
								α(N)=2.31×10 ⁻⁷ 4; α(O)=1.387×10 ⁻⁸ 20; α(IPF)=0.001415 20
^x 3467.1 5	0.003 1							
3475.34 3	0.590 19	3475.420	1 ⁺	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;

¹¹⁰In ε decay (69.1 min) **1995Be01,1990Gi01** (continued)

γ(¹¹⁰Cd) (continued)

<u>E_γ[‡]</u>	<u>I_γ^{‡b}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.&</u>	<u>α[†]</u>	<u>Comments</u>
								α(N+..)=0.000958 14 α(N)=3.67×10 ⁻⁷ 6; α(O)=2.21×10 ⁻⁸ 3; α(IPF)=0.000958 14
^x 3596.99 4	0.114 4							
3726.51 18	0.004 1	3726.58	1,2 ⁺	0.0	0 ⁺			
3771.70 4	0.062 2	3771.77	1 ⁺	0.0	0 ⁺	M1	1.17×10 ⁻³	α(K)=8.14×10 ⁻⁵ 12; α(L)=9.30×10 ⁻⁶ 13; α(M)=1.773×10 ⁻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 E _γ : From adopted gammas.

[†] Additional information 1.

[‡] From 1995Be01, unless otherwise stated.

[#] From 1992Ku01.

[@] From adopted gammas.

[&] From 1992Ku01, deduced using α(K)exp (α(K)exp were normalized to α(K)exp(657.8)=2.7 1 by the authors), unless otherwise stated.

^a From adopted gammas.

^b For absolute intensity per 100 decays, multiply by 0.9774 7.

^c Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

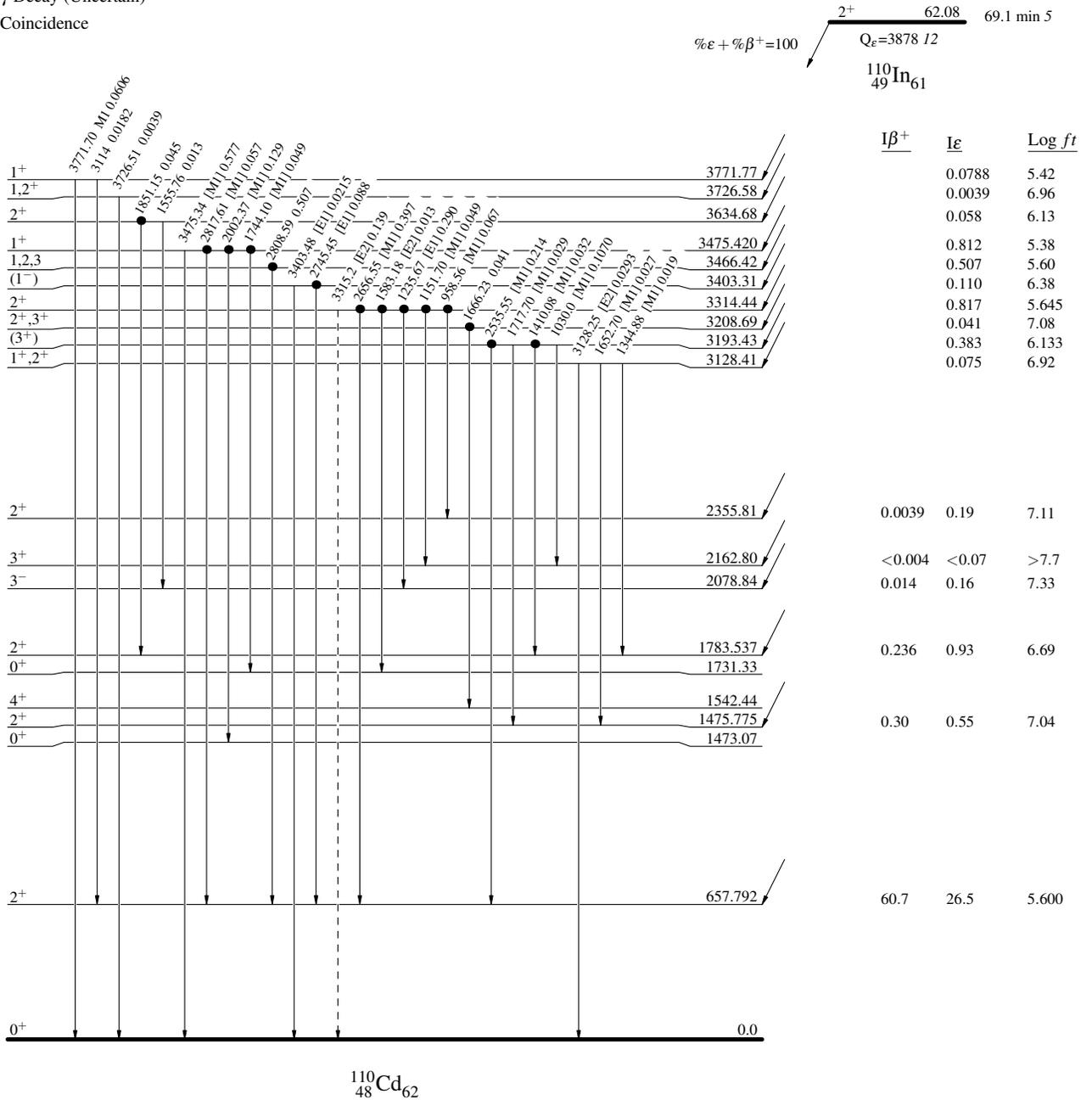
¹¹⁰In ε decay (69.1 min) 1995Be01,1990Gi01

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}
- - - - - γ Decay (Uncertain)
- Coincidence

Decay Scheme

Intensities: I_γ per 100 parent decays



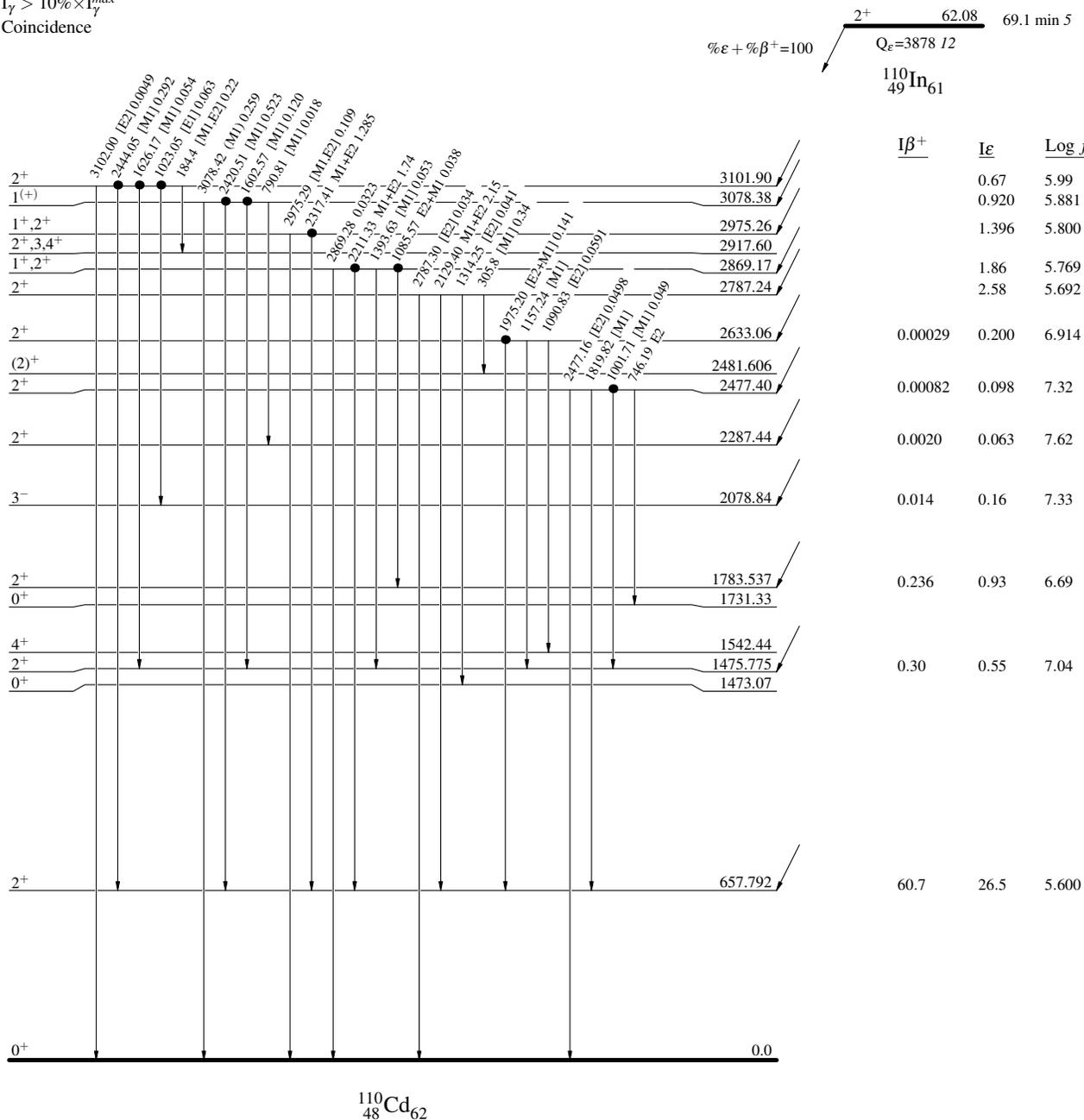
¹¹⁰In ε decay (69.1 min) 1995Be01,1990Gi01

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}
- Coincidence



¹¹⁰In ε decay (69.1 min) 1995Be01,1990G101

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}
- - - γ Decay (Uncertain)
- Coincidence

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

