		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

Measured: γ(1961Sm06,1962Gr22,1963Or02,1966Ba10,1966Ne06,1967Sm05,1968Mo15,1969Sa29), bent crystal (1979Br25); ce(1962Gr22,1964Ba44,1966Ba10,1967Eg01,1968Mo15,1984Mh01), mag spect.

 γ polarization: 1964Ab14, 1967Wa14, 1968Ab06, 1969Ab03, 1969Ei05, 1969Wa14, 1982Hu08.

1984Mh01 used enriched target, 96.7%.

E(level)	$J^{\pi \dagger}$	E(level)	J^{π}	E(level)	J^{π}	E(level)	$J^{\pi \dagger}$
0^{\ddagger}	0^{+}	2048.027 [‡] 4	2+	2636.521 [‡] 27	$0^+,(2^+)$	2953.244 10	2^{+}
558.456 [‡] 2	2+	2152.264 4	4+	2650.120 [‡] 6	2+	2957.262 22	2-,(1-)
1134.532 [‡] <i>3</i>	0^{+}	2204.561 4	3+	2660.900 [‡] 15	2+	2999.559 [‡] 82	1-
1209.708 [‡] <i>3</i>	2+	2218.860 [‡] 8	2+	2701.066 10	3+	3002.223 14	2+
1283.739 5	4+	2298.91 [#] 2	5-	2749.265 [‡] 10	2+	3052.902 [‡] 19	$(1^+, 2^+)$
1305.609 [‡] <i>3</i>	0^+	2384.759 4	3-	2756.921 35	3^,(4^)	3077.444 [‡] 16	$1^+, 2^+$
1364.344 [‡] <i>3</i>	2+	2391.499 20	4+	2767.848 [‡] 60	1^{-}	3108.640 [‡] <i>12</i>	1-
1732.246 4	4+	2437.640 [‡] <i>39</i>	0^{+}	2788.501 [‡] <i>12</i>	$1^+, 2^+$	3110.41 50	$1^+, 2^+$
1841.947 [‡] 4	2+	2456.005 [‡] 7	1-	2799.991 [‡] 22	$(1^+, 2^+)$	3157.156 [‡] <i>19</i>	1^,(2^)
1859.696 7	0^+	2460.757 6	3^,(4^)	2806.587 16	3+	3205.997 [‡] 15	2^{+}
1864.261 5	3+	2525.420 [‡] 5	2+	2812.050 [‡] 10	2+	3218.556 [‡] <i>17</i>	1^,(2^)
1932.077 4	4+	2553.866 [‡] <i>39</i>	0^{+}	2820.216 15	4+	3258.093 [‡] 11	1-,2-
1958.095 4	3-	2580.357 [‡] 6	2-	2936.116 22	(3 ⁻)	(9042.7 3)	

¹¹⁴Cd Levels

[†] From γ -ray multipolarities derived from ce measurements (1984Mh01).

[‡] Levels following primary γ transitions (1984Mh01). Levels at 2827.8, 3098.5, 3167.3, 3232.4, 3263.4, 3321.2, 3409.0, 3444.6 only seen after primary gammas.

[#] This level was introduced by 1987Ar24 in $(n,n'\gamma)$.

Ice(K) are per 10000 neutron captures.

Ν

E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ} [‡] <i>b</i>	E_f J	J_f^{π}	Mult. [†]	δ^{\dagger}	Comments
558 456	2+	558 456 2	7.44×10^3 37	0 0)+	F2		$\alpha(I_1) \exp = 0.0040.5$; I 23/I 1=0.133.15
1134 532	$\tilde{0}^{+}$	576 079 4	447 20	558 456 2	2+	E2		$\alpha(\text{E}) \exp[-0.0010, 5], E25/E1=0.135, 15$ $\alpha(\text{K}) \exp[-0.0033, 2], L.23/L.1=0.13, 2$
110 1.002	0	1134 60 5	<2	0 0)+	EO		$\alpha(K) \exp (0.0000000000000000000000000000000000$
		110 1100 0		0 0		20		ce(K)=0.54 3 per 10000 n captures.
1209.708	2^{+}	75.177 5	0.0027 4	1134.532 0)+			
		651.256 5	1409 80	558.456 2	2+	M1+E2	1.2 + 3 - 2	α (K)exp=0.00269 17; L23/L1=0.10 1
		1209.713 7	415 <i>31</i>	0 0)+	E2		$\alpha(K) \exp = 0.00064 5$
								$\delta: \delta(E2/M1) > 1.52.$
1283.739	4^{+}	725.298 9	446 20	558.456 2	2^{+}	E2		$\alpha(K) \exp = 0.00218 \ 10$
1305.609	0^{+}	95.902 <i>3</i>	125 10	1209.708 2	2+	E2		α (K)exp=1.22 <i>12</i> ; L3/L1=1.14 <i>4</i>
		171.077 5	< 0.03	1134.532 0)+	EO		ce(K) = 1.62 8
		747.151 6	72 5	558.456 2	2^{+}	E2		$\alpha(K) \exp = 0.00195 \ 15$
		1305.59 4	<10	0 0)+	EO		α (K)exp>2.33 12
								ce(K)=23.3 12.
1364.344	2^{+}	80.605 <i>3</i>	0.046 5	1283.739 4	4+	E2		L3/L1=1.5 2
								I_{γ} : from Ice(K) and α (K).
		154.639 <i>3</i>	0.91 8	1209.708 2	2+	E2+M1+E0	1.9 +7-3	$\dot{\alpha}$ (K)exp=0.43 4
		229.812 6	12.5 12	1134.532 0)+	E2		α (K)exp=0.068 7; L3/L1=0.29 2
		805.887 5	511 35	558.456 2	2^{+}	M1+E2+E0		α (K)exp=0.0038 3
								I(ce(K) E0)=0.98 12 per 10000 n captures.
								Mult.: $\delta(E2/M1) < 0.09$ (1982Hu08).
		1364.339 6	464 32	0 0)+	E2		$\alpha(K) \exp = 0.00048 \ 4$
1732.246	4+	367.893 9	20.3 11	1364.344 2	2+	E2		$\alpha(K) \exp = 0.0144 \ 9$
		448.518 4	10.7 5	1283.739 4	4+	M1+E2+E0		$\alpha(K) \exp = 0.0163 \ 11$
								Mult.: I(ce(K) E0)=0.092 12 per 10000 n captures.
		522.542 11	32 <i>3</i>	1209.708 2	2+	E2		α (K)exp=0.0055 6
		1173.782 19	28.8 16	558.456 2	2+	E2		$\alpha(K)\exp=0.00073\ 5$
1841.947	2^{+}	477.604 6	34.0 18	1364.344 2	2+	E2		$\alpha(K) \exp = 0.0069 5$
		536.350 12	23.9 23	1305.609 0)+	E2		$\alpha(K) \exp = 0.0053 5$
		632.247 6	8.8 4	1209.708 2	2+	E2+E0		α (K)exp=0.0155 9
								Mult.: I(ce(K) E0)=0.108 7 per 10000 n captures.
		707.419 5	116 5	1134.532 0)+	E2		α (K)exp=0.00211 <i>12</i>
		1283.495 <i>14</i>	169 11	558.456 2	2+	M1+E2	+0.61 + 35 - 20	$\alpha(K)\exp=0.00054~4$
					- 1			Mult.: δ from 1982Hu08.
		1841.98 8	62 5	0 0)+	E2		$\alpha(K) \exp = 0.00022 \ 2$
1859.696	0^{+}	495.354 4	6.3 3	1364.344 2	2+	E2		$\alpha(K) \exp = 0.0060 4$
		1301.234 18	103 8	558.456 2	2+	E2		$\alpha(K) \exp = 0.00045 \ 11$
		1859.70 5	<2	0 0) ⁺	(E0)		ce(K) = 0.0020 6
1864.261	3+	132.015 9	0.041 9	1732.246 4	1+	M1+E2	<0.65	α (K)exp=0.22 5

				¹¹³ Cd(n, γ)	E=thermal	1984Mh01,1979	Br25,1968Gr32 (continued)					
	γ (¹¹⁴ Cd) (continued)											
E _i (level)	\mathbf{J}_i^{π}	${\rm E}_{\gamma}^{\dagger}$	I_{γ} [‡] <i>b</i>	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult. [†]	δ^{\dagger}	Comments					
1864.261	3+	499.92 3	0.65 17	1364.344 2+	M1		$\alpha(K) \exp = 0.0070 \ 22$					
		580.516.5	30.4 17	1283.739 4+	M1							
		654.551 5	133 6	1209.708 2+	E2		$\alpha(K) \exp = 0.00268 \ 15$					
		1305.783 21	114 6	558.456 2+	M1+E2	-0.10 + 6 - 2	Mult.: δ from 1976De42. 1982Hu08 give +0.19 +22-16 discrepant with					
							-2.20 15 reported by 1987Ar24 in $(n,n'\gamma)$.					
1932.077	4+	199.833 4	0.81 3	1732.246 4+	M1		$\alpha(K) \exp = 0.0575$					
		567.74 <i>3</i>	10.8 5	1364.344 2+	E2		$\alpha(K) \exp = 0.0040 \ 4$					
		648.316 17	20.7 19	1283.739 4+	M1 + (E2, E0)		$\alpha(K) \exp = 0.0040 \ 4$					
							Mult.: I(ce(K) E0)=0.018 7 per 10000 n captures.					
		722.368 6	31.3 15	1209.708 2+	E2		$\alpha(K) \exp = 0.00216 \ 13$					
1958.095	3-	225.852 5	0.215 20	1732.246 4+	E1		$\alpha(K) \exp = 0.024 \ 4$					
		593.755 16	3.7 3	1364.344 2+	E1		$\alpha(K) \exp = 0.0020 \ 3$					
		674.30 5	0.86 22	1283.739 4+								
		748.385 7	121 6	1209.708 2+	E1		$\alpha(K) \exp = 0.00079 5$					
		1399.638 11	345 32	558.456 2+	E1		$\alpha(K) \exp = 0.00025 \ 3$					
2048.027	2^{+}	89.929 2	0.40 4	1958.095 3-	E1		α (K)exp=0.21 2					
		183.782 8	0.21 5	1864.261 3+	(M1)		α (K)exp=0.046 <i>12</i>					
							Mult.: $\alpha(K)$ exp allows M1 or E1. Placement in level scheme requires $\Delta \pi = no$.					
		206.090 4	0.27 3	1841.947 2+	M1		$\alpha(K) \exp = 0.064$ 7					
		742.419 7	24.8 15	1305.609 0+			$\alpha(K) \exp = 0.00199 \ 14$					
		838.309 6	10.6 10	1209.708 2+			$\alpha(K) \exp = 0.00190 \ 25$					
		1489.560 10	238 11	558.456 2+	E2		$\alpha(K) \exp = 0.00047 \ 4$					
		2047.7 <i>3</i>	18 <i>3</i>	$0 0^+$	E2		$\alpha(K) \exp = 0.00020 \ 4$					
2152.264	4^{+}	220.189 4	0.52 4	1932.077 4+	M1		α (K)exp=0.063 4					
		287.981 9	2.82 15	1864.261 3+	M1		$\alpha(K) \exp = 0.0228 \ 16$					
		310.316 6	2.34 13	1841.947 2+	E2		α (K)exp=0.026 2					
		420.023 4	4.3 3	1732.246 4+	M1		α (K)exp=0.0091 6					
		868.513 17	7.3 4	1283.739 4+	M1		$\alpha(K) \exp = 0.0010 \ 2$					
		942.55 <i>3</i>	11.6 11	$1209.708 \ 2^+$			$\alpha(K) \exp = 0.00066 \ 14$					
2204.561	3+	156.531 <i>3</i>	0.19 3	2048.027 2+	M1+E2	< 0.42	α (K)exp=0.12 3					
		246.472 4	0.58 4	1958.095 3-	E1		α (K)exp=0.015 3					
		340.294 7	2.24 13	1864.261 3+	M1+E2+E0		α (K)exp=0.029 2					
							Mult.: $I(ce(K) E0)=0.027 5$ per 10000 n captures.					
		362.608 5	2.58 15	1841.947 2+	M1+E2	< 0.82	α (K)exp=0.0128 9					
		472.310 8	2.63 15	1732.246 4+	MI		$\alpha(K) \exp = 0.0072.5$					
		840.217 12	25.0 25	1364.344 2+	MI		$\alpha(K) \exp = 0.00122 \ I4$					
		920.791 13	42.6 34	1283.739 4	MI		$\alpha(\mathbf{K}) \exp[=0.00118 \ II]$					
		994.852 9	41.1.25	1209.708 2+	MI		$\alpha(\mathbf{K})\exp=0.00104\ \delta$					
0010.000	2^+	1040.12 4	JØ J	558.456 2 ⁺	IVII		$\alpha(\mathbf{x})\exp=0.00042.5$					
2218.860	2.	1/0.85/15	0.045 9	2048.027 2								
		339.20 J	0.1/0	$1009.090 0^{+}$	E2		$\alpha(K) = 0.0061.20$					
		480.04/19	0.30 11	1/32.240 4	EZ		$\alpha(\mathbf{K})\exp=0.0001\ 20$					

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F_{4} (devel) F_{7}				11	3 Cd(n, γ) E=the	rmal <mark>19</mark>	84Mh01,	1979Br25,1968Gr32 (continued)					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\gamma(^{114}\text{Cd})$ (continued)												
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $													
213.800 2' 854.62 4 3.6.5 1364.344 2' M1 σ(K)exp=0.0012 4 239.91 5' 366.91' 4 0.49 17 1932.077 4' σ(K)exp=0.0036 2 2384.759 3'' 165.895 6 0.275.24 2218.860 2' FI σ(K)exp=0.0036 6 336.743 11 0.35 8 2048.027 FI σ(K)exp=0.0032 6 G 336.743 11 0.35 8 2048.027 FI σ(K)exp=0.0032 6 G 1175.076 20 27.6 14 1209.708 2' FI σ(K)exp=0.00032 2 G 1180.306 0 10 558.456 2' FI σ(K)exp=0.00032 2 G 1197.67 20 27.6 14 1209.708 2' FI σ(K)exp=0.00052 1/2 G 2317.60 0' 1228.071 1328.379 4' M1 σ(K)exp=0.00052 1/2 G 2437.60 0' 1228.071 2.357.46 1200.708 2' FI σ(K)exp=0.00052 1/2 2437.60 128.60.71 3.152.41 1958.053 MI σ(K)exp=0.00057 1/2	E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	Ι _γ ‡ b	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult. [†]	δ^{\dagger}	Comme	ents				
298.915'366.01 4 (105.17.8427915558.45621M1 $\alpha(K) exp=0.00036 6$ 2384.7593''165.0560.27.5222.18.8025EI $\alpha(K) exp=0.00038 16$ 2384.7593''150.198 60.198 92204.5613''EI $\alpha(K) exp=0.00038 16$ 2384.7503''180.198 60.198 92204.5613''EI $\alpha(K) exp=0.0079 6$ 1175.076.007.76110.67.007.76110.77.072''EI $\alpha(K) exp=0.000147 1/2$ 2391.4994''459.393.250.56193.207.4''MI $\alpha(K) exp=0.00064 13$ 2391.4904''459.393.250.56193.207.4''MI $\alpha(K) exp=0.00064 13$ 2437.6400''1228.00 106.2.81209.7082''EI $\alpha(K) exp=0.00062 10$ 2437.71<10''	2218.860	2+	854.62 4	3.6 5	1364.344 2+	M1		α (K)exp=0.0012 4					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1660.368 16	279 15	558.456 2+	M1		$\alpha(K) \exp = 0.00036 2$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2298.91	5-	366.91 ^a 4	0.49 17	1932.077 4+			· · · •					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1015.178 ^a 17	15.2 15	1283.739 4+	E1		α (K)exp=0.00038 16					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2384.759	3-	165.895 6	0.275 24	2218.860 2+	E1		α (K)exp=0.027 4					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			180.198 6	0.198 9	2204.561 3+	E1		α (K)exp=0.028 6					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			336.743 11	0.35 8	$2048.027 \ 2^+$								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			426.666 6	8.7 6	1958.095 3-	M1		α (K)exp=0.0079 6					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1175.076 20	27.6 14	$1209.708 \ 2^+$	E1		α (K)exp=0.00032 2					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$. +	1826.30 4	110 6	558.456 2+	E1		α (K)exp=0.000147 <i>12</i>					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2391.499	4'	459.393 25	0.56 8	1932.077 4	MI		α (K)exp=0.0064 <i>13</i>					
2437.640 0 ⁺ 1228.00 10 2437.640 0 ⁺ 1228.00 10 1879.10 5 2437.7 1 2437.7 1 2440.757 3 ⁻ (4 ⁻) 255.195 ⁺ 4 2456.00 1 2456.01 41 25 2456.01 41 25 2456.01 41 25 2456.07 3 ⁻ (4 ⁻) 255.195 ⁺ 4 2204.561 3 ⁺ E1 2204.561 3 ⁺ E1 2456.07 2460.757 3 ⁻ (4 ⁻) 255.195 ⁺ 4 2205.195 ⁺ 4 2204.561 3 ⁺ E1 2204.561 3 ⁺ E1			659.20 5	1.0 2	1/32.246 4	M1		$(\mathbf{V})_{\text{resc}} = 0.00099 11$					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2427 640	0+	1107.701 21	22.1 17	1285.759 4	MII E2		$\alpha(\mathbf{K}) \exp = 0.00088 \ II$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2437.040	0	1228.00 10	$0.2 \ 0.2 $	1209.708 2 558.456 2 ⁺	E2 E2		$\alpha(\mathbf{K})\exp[-0.00002, 10]$					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			2437 7 1	<10	$0 0^+$	E2 E0		$\alpha(\mathbf{K}) \exp[-0.00020/2]$					
2456.005 1 ⁻ 1091.64 9 6.1 8 1364.344 2 ⁺ (E1) ar(K)exp<0.0005 2456.0 1 41 25 0 0 ⁺ E1 ar(K)exp=0.00097 7 2460.757 3 ⁻ ,(4 ⁻) 256.195 ^c 4 2.20 ^c 1/2 2204.561 3 ⁺ E1 ar(K)exp=0.00057 6 502.667 1/0 3.15 24 1958.095 3 ⁻ M1,E2 ar(K)exp=0.0057 6 596.485 5 10.6 1/0 1864.261 3 ⁺ E1 ar(K)exp=0.0057 6 728.56 4 1.7 3 1732.246 4 ⁺ 1177.04 3 17.5 1/2 1283.739 4 ⁺ E1 ar(K)exp=0.0035 3 1902.19 1/4 17 ^{&} 3 558.456 2 ⁺ 2525.420 2 ⁺ 140.659 3 0.180 1/1 2384.759 3 ⁻ E1 ar(K)exp=0.058 7 306.560 7 2.36 13 2218.860 2 ⁺ M1+E2 >0.82 ar(K)exp=0.024 2 320.835 1 <i>3</i> 0.23 4 2204.561 3 ⁺ M1 ar(K)exp=0.003 <i>b</i> 10 567.328 7 9.2 20 1958.095 3 ⁻ E1 ar(K)exp=0.0016 3 661.21 3 1.7 2 1864.261 3 ⁺ M1 ar(K)exp=0.003 8 661.21 3 1.7 2 1864.261 3 ⁺ M1 ar(K)exp=0.0016 3 661.21 3 1.7 2 1864.261 3 ⁺ M1 ar(K)exp=0.0016 3 661.21 3 1.7 2 1864.261 3 ⁺ M1 ar(K)exp=0.0007 0 1161.06 3 17.3 17 1364.344 2 ⁺ M1 ar(K)exp=0.0007 0 1315.677 22 31 3 1209.708 2 ⁺ M1 ar(K)exp=0.00067 7 1966.80 20 27 ⁶ 5 558.456 2 ⁺ 2553.866 0 ⁺ 694.45 1/2 <0.8 1859.696 0 ⁺ E2 ar(K)exp=0.00067 7 1966.80 20 27 ⁶ 5 558.456 2 ⁺ 2553.1 1 18 ⁶ 3 0 0 0 ⁺ 2553.306 0 ⁺ 694.45 1/2 <0.8 1859.696 0 ⁺ E0 ce(K)=0.0051 1/2 1995.06 1/7 48 7 558.456 2 ⁺ 2553.306 0 ⁺ 694.45 1/2 <0.8 1859.696 0 ⁺ E0 ce(K)=0.0051 1/2 1995.06 1/7 48 7 558.456 2 ⁺ 2553.307 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 2580.357 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 2580.357 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 2580.357 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 2580.357 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 602 2276 5 558.450 2 ⁺ 602 2276 5 558.450 2 ⁺ 603 2276 5 558.450 2 ⁺ 603 2276 5 558.450 2 ⁺ 603 225.1 1 18 ⁶ 3 0 0 0 ⁺ 2580.357 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 2580.357 2 ⁻ 361.501 1/6 0.38 4 2218.860 2 ⁺ 532.320 1/0 5.6 8 2048.027 2 ⁺ E1 ar(K)exp=0.0020 3 640.820 276 5 558.450 2 ⁺ 532.320 1/0 5.6 8 2048.027 2 ⁺ E1 ar(K)exp=0.0020 3 532.320 1/0 5.6 8 2048.027 2 ⁺ E1 ar(K)exp=0.0020 3 532.320 1/0 5.6 8 2048.027 2 ⁺ E1 ar(K)exp=0.0020 3			2737.71	<10	0 0	LU		ce(K)=0.0152.8					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2456.005	1-	1091.64.9	6.1.8	1364.344 2+	(E1)		$\alpha(K) \exp(0.0005)$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.001000	-	2456.0 1	41 25	$0 0^+$	E1		$\alpha(K) \exp[-0.000097 7]$					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2460.757	$3^{-},(4^{-})$	256.195 [°] 4	2.20 ^c 12	2204.561 3+	E1		$\alpha(K) \exp = 0.0109 8$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			502.667 10	3.15 24	1958.095 3-	M1,E2		$\alpha(K) \exp = 0.0057 6$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			596.485 <i>5</i>	10.6 10	1864.261 3+	E1		α (K)exp=0.00125 <i>17</i>					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			728.56 4	1.7 3	1732.246 4+								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1177.04 <i>3</i>	17.5 12	1283.739 4+	E1		α (K)exp=0.00035 3					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1902.19 14	17 ^{&} 3	558.456 2+								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2525.420	2+	140.659 <i>3</i>	0.180 11	2384.759 3-	E1		α (K)exp=0.058 7					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			306.560 7	2.36 13	$2218.860 \ 2^+$	M1+E2	>0.82	α (K)exp=0.024 2					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			320.835 13	0.23 4	2204.561 3^+	M1		$\alpha(K) \exp = 0.035 \ 10$					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			567.328 7	9.2 20	1958.095 3-	E1		α (K)exp=0.0016 3					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			661.21 3	1.7 2	1864.261 3+	M1		$\alpha(K) \exp = 0.0039 8$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			665./35 /5	3.1 2	1859.696 0	E2		α (K)exp=0.0028 2					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1101.00 3	17.3 17	1304.344 2	MI E2		$\alpha(\mathbf{K})\exp=0.00105\ 15$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1219.70 3	22.5 14	1303.009 0	E2 M1		$\alpha(\mathbf{K})\exp[-0.00070.5]$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1066 80 20	313	1209.700 2 559.456 2 ⁺	1411		u(R)exp=0.00007 7					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1966.80 20	27 5	558.456 2								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0550.044	0±	2525.1 1	18 3	$0 0^+$	F 0		(12) 0.0051 12					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2553.866	0'	694.45 <i>12</i>	<0.8	1859.696 0+	E0 E2		ce(K)=0.0051 I2					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1995.00 1/	48 /	0 0 ⁺	E2 E0		$\alpha(\mathbf{K}) = 0.000194$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2580 357	2-	2334.0 I 361 501 16	0381	2218 860 2+	EU		$c_{c(\mathbf{K})} = 0.0002 0, \alpha(\mathbf{K}) \exp > 0.00002 0$					
622.526.66.62.3 = 1058.027.2 = M1 = a(R) a p = 0.020.3 = 0.020.3 = 0.020.3 = 0.020.3 = 0.000.2	2300.337	4	532 320 10	568	$2048\ 027\ 2^+$	E1		$\alpha(K) \exp = 0.0020.3$					
022.2370 0.23 1730.0733 1011 $(21N)CAD=0.0026$			622.259 6	6.2.3	1958.095 3	M1		$\alpha(K) \exp = 0.0028 2$					

$E_1(\text{fevel})$ I_1^7 E_7^7 I_2^{20} I_1^{20} I_1^{2				11	¹³ Cd(n,γ) E=therma	l 1984M	Mh01,1979Br25,1968Gr32 (continued	<u>l)</u>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				_			J) (_
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						$\gamma(1)$	d) (continued)	
2880.387 2* 738.35* j 10* 2 141.947 2* 1370.617.22 186 120.7 92 186 120.7 92 186 120.7 92 186 120.7 92 146 120.7 92 146 120.7 92 146 120.7 92 146 120.7 92 146 120.7 92 146 120.7 92 12 arKikep=0.00025 2 arKikep=0.00025 2 arKikep=0.00025 2 arKikep=0.00055 30 2650.120 2* 124.68.3 0.091.7 1255.40.7 0H T arKikep=0.0029 arKikep=0.0029 2 260.120 2* 124.18.46 0.055 2437.640 0* T arKikep=0.0079 6 602.117 71.4 0.49 2 138.495 2* T arKikep=0.00052 7 2660.900 2* 2650.17 71.4 0.49 2 arKikep=0.00024 2 2701.06 3* 201.02.47 238.4759 3 T arKikep=0.00092 7 2660.900 2* 2163.27 1.47 3 201.02 3 238.4759 3 T arKik	E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ} [‡] <i>b</i>	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult. [†]		Comments
1370.617.22 108.6 1209.708 2 ⁺ E1 ar(k) exp=0.0003.3 263.521 0 ⁺ (.2) 1426.6.3 4.1.1.6 1209.708 2 ⁺ E2 ar(k) exp=0.0003.2 263.521 2 ⁺ 124.698.3 0.093.11 2525.420 2 ⁺ MI ar(k) exp=0.0003.2 2650.120 2 ⁺ 124.698.3 0.093.11 2525.420 2 ⁺ MI ar(k) exp=0.0039.12 212.488.16 0.05.15 2437.640 0 ⁺ ar(k) exp=0.0079.6 ar(k) exp=0.0079.6 602.117.16 1.94.15 20148.07 2 ⁺ MI.62 ar(k) exp=0.0015.2 2660.900 2 ⁺ 276.139.19 0.210.23 238.759.3 - ar(k) exp=0.00024.2 2101.46 3 203.01.7 0.23.4 291.499.4* - ar(k) exp=0.00024.2 2101.46 3 0.235.45 2 ⁺ - ar(k) exp=0.00024.2 2101.46 3 0.235.45 2 ⁺ - ar(k) exp=0.00024.2 2101.66 3 ⁺ 4 ⁺	2580.357	2-	738.35 [°] 3	1.6 ^c 2	1841.947 2+			
265.521 272.1 142.6 3 558.456 2* 14 6 207.81 7 6 265.521 278.1 1 48.3 558.456 2* 22 ar(K)exp=0.00055.20 2650.120 2* 124.68.8 0.093.11 225.24.20 * H ar(K)exp=0.013.7 2650.120 2* 134.16.6 0.122.17 2450.005 * H ar(K)exp=0.013.7 212.48.816 0.003.7 2.27.84.00 * H ar(K)exp=0.0079.6 602.10.7 6.03.17 7.18.10 2.218.860 2* MI ar(K)exp=0.00012.7 2650.11 7.14 0 0* E ar(K)exp=0.00012.7 2650.11 7.14 0 0* E ar(K)exp=0.0002.7 2701.06 3* 240.30.7 0.73.7 HE2 ar(K)exp=0.0002.42 2701.06 3* 240.55 11.47.8 291.499 4* 1491.39.23 15.2 124.94 144.9 ar(K)exp=0.			1370.617 22	108 6	1209.708 2+	E1	α (K)exp=0.00025 2	
2636.52 0', (2*) 1426.63 4.1 16 2109.708 2* E2 m(K)exp=0.00020 2 2650.120 2* 124.698.3 0.093.11 2525.420 2* M1 m(K)exp=0.0030 2 2650.120 2* 124.698.3 0.093.17 2525.420 2* M1 m(K)exp=0.039.12 212.488.16 0.05.15 2437.640 0* M1 m(K)exp=0.0079.6 602.117.16 1.94.15 2048.007 2* M1 m(K)exp=0.0015 2660.900 2* 276.139.19 0.210.22 238.739 * E1 m(K)exp=0.00012 2 2701.066 3* 240.301.7 0.73.4 2460.757 * M1.E2 m(K)exp=0.00024 2 2701.066 3* 240.301.7 0.73.4 2301.499 4* - 2701.061 2.55.7 1.21.24.91 2391.499 4* - - 2701.062 3* 2.443.2 1.841.947 2* - - - 2704.255 <td></td> <td></td> <td>2021.9 1</td> <td>44 9</td> <td>558.456 2+</td> <td>E1</td> <td>$\alpha(K) \exp = 0.00013 \ 3$</td> <td></td>			2021.9 1	44 9	558.456 2+	E1	$\alpha(K) \exp = 0.00013 \ 3$	
2650.120 2 ⁺ 1266.86 3 0.093 11 2552.420 -* H ar(K)exp=0.012 3 2650.120 2 ⁺ 194.116 6 0.122 11 2456.005 - H ar(K)exp=0.013 12 212.488.16 0.057 2437.640 - - - - 0.01171/6 1.94.15 248.860 2 ⁺ MI ar(K)exp=0.0079 6 -00.1171/6 1.94.15 248.070 7 - MI ar(K)exp=0.00015 2660.900 2 ⁺ 276.159 19 0.210 23 234.759 3* - ar(K)exp=0.00024 2 2701.066 3 ⁺ 240.301 7 0.73 4 2460.757 37.47 MI.E2 ar(K)exp=0.00024 2 2701.067 13.6327 12 0.19 5 2384.759 - H ar(K)exp=0.00024 2 2701.06 2 ⁺ 2102.47 935.567 4 219.49 4* - - 2749.257 2.4 184.94 2* MI.E2 ar(K)exp=0.00024 2 - 2749.267 2.4 186.92 5 2.264 4*	2636.521	$0^+,(2^+)$	1426.6 <i>3</i>	4.1 16	1209.708 2+	E2	$\alpha(K) \exp = 0.00055 \ 20$	
2650.120 2^+ 124.698 3 0093 II 2525.420 2^+ MI $\alpha(K) exp=0.013$ 194.116 6 0.127 II 2450.005 1T EI $\alpha(K) exp=0.019 II 2$ 212.488 16 0.05 IS 2437.640 0 ⁺ 431.2637 1.78 10 2218.860 2^+ MI $\alpha(K) exp=0.0079 6$ 602.117 16 194 IS 2048.027 2^+ MI $\alpha(K) exp=0.0079 6$ 602.113 16 194 IS 2048.027 2^+ MI $\alpha(K) exp=0.0005 7$ $\alpha(K) exp=0.0005 2 7$ $\alpha(K) exp=0.0002 9$ 2660.900 2^+ 276.13 19 0 0.210 23 2344.759 3 ⁻ 2102.41 9 35 558.456 2^- MI, E2 $\alpha(K) exp=0.00024 2$ $\alpha(K) exp=0.00024 2$ $\alpha(K) exp=0.0009 1I$ 3^+ 240.301 7 0.73 4 240.577 3^- EI $\alpha(K) exp=0.0009 II$ 309.567^6 IS 0.23 ² 4 2391.499 4 ⁺ 406.552^6 21 1.4 ⁶ 3 2204.561 3 ⁺ # 406.552^6 21 1.4 ⁶ 3 2204.561 3 ⁺ # 406.552^6 21 1.4 ⁶ 3 2204.561 3 ⁺ # 406.552^6 21 1.4 ⁶ 3 195 2344.759 3 ⁻ 2143.2 18 ⁶⁰ 3 58.456 2 ⁺ 490.6552^6 21 1.4 ⁶ 3 2324.561 3 ⁺ # 490.6552^6 21 1.4 ⁶ 3 252.264 4 ⁺ EI $\alpha(K) exp=0.00029 II$ 859.215 2.4.3 1841.947 2 ⁺ 490.8552^6 2.1 1.4 ⁶ 3 58.8456 2 ⁺ 2149.32 18 ⁶⁰ 3 588.456 2 ⁺ 2149.32 18 ⁶⁰ 3 58.8456 2 ⁺ 2149.32 18 ⁶⁰ 3 58.8456 2 ⁺ $2149.30 I 5.5 6 I 1732.246 4+ 173.40 I 6.81 4^{1} 1283.739 4+ EI \alpha(K) exp=0.00029 62190.81 I 57 4 558.8456 2+ 1473.40 I 6.81 4^{1} 1283.739 4+ EI \alpha(K) exp=0.00016 32769.21 3^-(4^-) 300.868^{+} I7 0.20^{+} 4 2456.005 1$			2078.1 1	48 <i>3</i>	558.456 2+	E2	α (K)exp=0.00020 2	
194.116 6 0.122 1/1 2456.005 1/2 247.640 0 ⁴ 212.488 16 0.05 1/2 247.640 0 ⁴ a(K)exp=0.0079 6 602.117 16 1.94 1/5 248.005 3 ⁻ HI a(K)exp=0.00015 128.88 8 20.3 198.095 3 ⁻ HI a(K)exp=0.00015 2660.900 2 ⁺ 2761.39 19 0.210 23 234.79 3 ⁻ HI.22 a(K)exp=0.00024 2 2701.066 3 ⁺ 240.301 7 0.32 ⁺ 240.373 3 ⁻ HI.2 a(K)exp=0.00024 2 316.327 1/2 0.19 5 2384.759 3 ⁻ HI.2 a(K)exp=0.00020 1 4405.552 ⁻ 1.47 4 2400.717 3 ⁻ HI.2 a(K)exp=0.00020 1 430.567 ⁻ 10.7 6 1958.095 3 ⁻ HI a(K)exp=0.00090 1 4405.552 ⁻ 1.47 3 232.245 1 # HI a(K)exp=0.00029 6 2143.2 18 ² 129.088 2 ⁺ 129.081 5 ⁻ HI a(K)exp=0.00016 3 219.8 57 4 558.456 5 ⁺ HI a(K)exp=0.00016 3 219.8.0 4 143.3 <td>2650.120</td> <td>2^{+}</td> <td>124.698 <i>3</i></td> <td>0.093 11</td> <td>2525.420 2+</td> <td>M1</td> <td>α(K)exp=0.21 3</td> <td></td>	2650.120	2^{+}	124.698 <i>3</i>	0.093 11	2525.420 2+	M1	α (K)exp=0.21 3	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			194.116 6	0.122 11	2456.005 1-	E1	α (K)exp=0.039 12	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			212.488 16	0.05 15	2437.640 0+			
			431.263 7	1.78 10	2218.860 2+	M1	α (K)exp=0.0079 6	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			602.117 16	1.94 15	$2048.027 \ 2^+$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			692.10 <i>3</i>	2.9 3	1958.095 3-	E1	α (K)exp<0.0015	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1285.83 8	20 3	1364.344 2+	M1,E2	$\alpha(K) \exp = 0.00052$ 7	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		a +	2650.1 1	71 4	$0 0^+$	E2	α (K)exp=0.000129 9	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2660.900	2+	276.139 19	0.210 23	2384.759 3-			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0701.000	2+	2102.4 1	93 5	558.456 2*	M1,E2	α (K)exp=0.00024 2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2701.066	31	240.301 /	0.73 4	2460.757 3 ,(4)	EI	α (K)exp=0.008 3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			309.56/ 15	$0.23^{\circ} 4$	2391.499 4			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			316.327 12	0.19 5	2384.759 3	#		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			496.552 [°] 21	1.4° 3	2204.561 3+	#		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			742.945 17	10.7 6	1958.095 3-	E1	α (K)exp=0.00090 11	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			859.21 5	2.4 3	1841.947 2+			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1491.39 23	15 2	1209.708 2+			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2143.2 2	18 ⁶ 3	558.456 2+			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2749.265	2^{+}	597.016 10	2.85 15	2152.264 4+	E2	α (K)exp=0.0029 6	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2190.8 1	57 4	558.456 2+	M1	α (K)exp=0.00022 2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2749.2 2	4. 13	0 0+			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2756.921	3^,(4^)	300.868 ^c 17	0.20° 4	2456.005 1-			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			798.92 5	2.0 4	1958.095 3	M1,E2	$\alpha(K) \exp[=0.0017] 6$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1024.73 5	5.5 0	1/32.246 4	F 1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			14/3.40 10	6.8 <i>14</i>	1283./39 4'	EI	α (K)exp=0.00016 3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0767.040	1-	2198.0 4	14 5	338.430 Z ⁺			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2707.848	1	908.30 10	2.1 3	1839.090 U 558.456 2+	E 1	$\alpha(K) = 0.000108 II$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2209.2 1	114.6	0 0+	E1 E1	$\alpha(\mathbf{K}) \exp[-0.000108 II]$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2788 501	1+ 2+	138 376 12	0.046.12	$2650 120 2^+$	LI	$a(\mathbf{K}) \exp[-0.000004 \ J]$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2788.301	1,2	263 081 12	0.04012 0.21 4	$2030.120 \ 2$ $2525 \ 420 \ 2^+$	M1	$\alpha(K) = 0.020.7$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			203.001 12	63.4	558 456 2 ⁺	M1 F2	$\alpha(\mathbf{K}) \exp[-0.0297]$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2788.4 2	19 2	0 0+	M1 E2	$\alpha(\mathbf{K}) \exp[-0.00013 \ 2]$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2799.991	$(1^+, 2^+)$	2242.0.2	23.3	558.456 2+	M1.E2	$\alpha(L) \exp = 0.00013 \ 2$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_/////1	(1,2)	2800.1 /	11 46	$0 0^+$	M1.E2	$\alpha(\mathbf{K}) \exp[=0.0001177]$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2806.587	3+	226.213 9	0.194 18	2580.357 2-	E1	$\alpha(K) \exp[=0.023 6]$	
1522.90 9 13.8 15 1283.739 4^+ M1,E2 α (K)exp=0.00050 6		-	281.12 3	0.09 3	2525.420 2+		······································	
			1522.90 9	13.8 15	1283.739 4+	M1,E2	$\alpha(K) exp = 0.00050 6$	

From ENSDF

 $^{114}_{48}\text{Cd}_{66}\text{-}5$

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			113	$Cd(n,\gamma)$ E=thermal	1984Mh	01,1979F	Br25,1968Gr32 (continued)	
					γ (¹¹⁴ Cd)	(continue	d)	
E _i (level)	\mathbf{J}_i^π	E_{γ}^{\dagger}	I_{γ} [‡] <i>b</i>	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult. [†]	δ^{\dagger}		Comments
2806.587 2812.050	3 ⁺ 2 ⁺	2248.1 <i>3</i> 110.985 <i>5</i> 175.531 <i>13</i> 231.684 ^c <i>8</i>	15 3 0.171 17 0.046 16 0.150 ^c 16	558.456 2+ 2701.066 3+ 2636.521 0+,(2+) 2580.357 2-	M1,E2 M1+E2	<0.42	α (K)exp=0.00026 6 α (L1)exp=0.036 7	
		607.452 <i>14</i> 853.983 <i>14</i> 1447.63 <i>6</i> 2253.4 <i>1</i> 2811 9 2	1.31 20 8.5 8 9.6 8 58 4 21 [@] 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	M1,E2 E1 M1,E2 M1,E2		α (K)exp=0.0037 7 α (K)exp=0.00057 17 α (K)exp=0.00040 10 α (K)exp=0.00025 5	
2820.216	4+	601.354 20 772.17 <i>3</i> 862.171 24	1.36 23 2.42 23 6.0 4	$\begin{array}{c} 2218.860 & 2^{+} \\ 2048.027 & 2^{+} \\ 1958.095 & 3^{-} \end{array}$	E2 E2		α (K)exp=0.0032 6 α (K)exp=0.0026 4	
2936.116	(3 ⁻)	286.021 22 475.327 21 1652.59 11	0.15 <i>4</i> 1.18 <i>13</i> 26 <i>6</i>	2650.120 2 ⁺ 2460.757 3 ⁻ ,(4 ⁻) 1283.739 4 ⁺	E1		α(K)exp=0.00023 6	
2953.244	2+	2377.8 2 800.99 4 905.08 7	$20^{\&} 4$ 3.1 4 2.2 5	558.456 2 ⁺ 2152.264 4 ⁺ 2048.027 2 ⁺	E2		$\alpha(K) \exp = 0.0017 \ 4$	
2957.262	2-,(1-)	$\begin{array}{c} 2394.9 \ 1 \\ 256.195^{c} \ 4 \\ 496.552^{c} \ 21 \\ 738.35^{c} \ 3 \end{array}$	$\begin{array}{c} 69.5\\ 2.20^{c} \ 12\\ 1.4^{c} \ 3\\ 1.6^{c} \ 2\end{array}$	2701.066 3 ⁺ 2460.757 3 ⁻ ,(4 ⁻) 2218.860 2 ⁺	M1,E2 E1 M1,E2 [#]		$\alpha(K) \exp = 0.00019 2$	
2999.559	1-	1097.35 ^d 11 2398.6 1 231.684 ^c 8 780.54 8	3.6 8 77 5 0.150 ^c 16 2.40 24	1859.696 0 ⁺ 558.456 2 ⁺ 2767.848 1 ⁻ 2218.860 2 ⁺	E1		α(K)exp=0.000105 9	
3002.223	2+	2440.7 <i>3</i> 2999.7 <i>1</i> 341.321 <i>17</i> 476.80 <i>3</i>	$ \begin{array}{r} 16^{\&} 3\\ 118 7\\ 0.47 6\\ 1.02 24\\ 21 5 \end{array} $	$\begin{array}{cccc} 558.456 & 2^+ \\ 0 & 0^+ \\ 2660.900 & 2^+ \\ 2525.420 & 2^+ \\ 0 & 0^+ \end{array}$	E1 (D) M1,E2		α (K)exp=0.000061 7 α (K)exp<0.010 α (K)exp=0.0094 26	
3052.902	(1+,2+)	232.689 8 833.98 3 1004.91 5	0.094 20 3.5 4 5.0 7	$\begin{array}{c} 0 & 0^{+} \\ 2820.216 & 4^{+} \\ 2218.860 & 2^{+} \\ 2048.027 & 2^{+} \end{array}$	E2 M1,E2		α (K)exp=0.0017 4 α (K)exp=0.0017 4	
3077.444	1+,2+	3053.1 2 270.804 <i>16</i> 277.469 <i>12</i> 309.567 ^c <i>15</i> 376.347 <i>19</i> 523.588 <i>20</i>	$\begin{array}{c} 64 \ 6 \\ 0.175 \ 25 \\ 0.16 \ 3 \\ 0.23^{c} \ 4 \\ 0.30 \ 5 \\ 1.13 \ 23 \end{array}$	0 0 ⁺ 2806.587 3 ⁺ 2799.991 (1 ⁺ ,2 ⁺) 2767.848 1 ⁻ 2701.066 3 ⁺ 2553.866 0 ⁺	M1,E2		α(K)exp=0.00016 2	
		1029.471 20	8.5 8	2048.027 2+	M1,E2		α(K)exp=0.00090 18	

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 $^{114}_{48}\mathrm{Cd}_{66}\text{-}6$

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			11:	3 Cd(n, γ) E=thermal	1984M	h 01,1979]	Br25,1968Gr32 (continued)	
$\underline{\gamma}(^{11}$							ed)	
E _i (level)	\mathbf{J}_i^{π}	${\rm E_{\gamma}}^{\dagger}$	$I_{\gamma}^{\ddagger b}$	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult. [†]	δ^{\dagger}		Comments
3077.444	$1^+, 2^+$	2518.9 2	10 [@] 2	558.456 2+				
		3077.6 2	21 2	$0 0^+$				
3108.640	1-	151.378 3	0.197 10	2957.262 2-,(1-)	M1+E2	< 0.33	$\alpha(K) \exp = 0.131 9$	
		2550.1 7	153 8	558.456 2	EI E1		$\alpha(\mathbf{K}) \exp = 0.000081 8$	
3157 156	$1^{-}(2^{-})$	345 073 21	024.4	$2812\ 050\ 2^+$	EI		$u(\mathbf{K})\exp=0.000072$ 14	
5157.150	1,(2)	400 253 15	1 31 14	$2756\ 921\ 3^{-}\ (4^{-})$	M1 E2		$\alpha(K) = 0.008.2$	
		2022.7 2	44.9	$1134.532 0^+$	E1		$\alpha(K) \exp = 0.00012$ $\alpha(K) \exp = 0.000143$	
		2598.6 1	52 <i>3</i>	558.456 2+	E1		$\alpha(K) \exp = 0.000089 \ 10$	
3205.997	2+	203.774 6	0.092 19	3002.223 2+	M1		α(K)exp=0.068 17	
		269.96 <i>3</i>	0.073 23	2936.116 (3 ⁻)				
		987.20 3	11.8 6	2218.860 2+	M1		$\alpha(K) \exp = 0.00097 \ 20$	
		1247.85 6	6.7 12	1958.095 3 ⁻	E1 E2		$\alpha(K) \exp = 0.00037/8$	
2219 556	$1^{-}(2^{-})$	1900.3 3	18.5	1305.009 0	E_2 M1 + E2	<0.25	$\alpha(\mathbf{K}) \exp = 0.00024 \ S$	
5218.550	1,(2)	418 554 <i>14</i>	0.080 8	$2700\ 001\ (1^+\ 2^+)$	F1	<0.55	$\alpha(K) \exp [-0.04, 4]$	
		999.743 19	10.1 8	2779.991 (1, 2) 2218.860 2 ⁺	E1		$\alpha(K) \exp = 0.0002 + 10$ $\alpha(K) \exp = 0.00065 24$	
		1260.56 5	11.8 12	1958.095 3-	E2		$\alpha(K) \exp = 0.00060 \ 12$	
		1853.68 <i>36</i>	13 <i>3</i>	1364.344 2+	E1		$\alpha(K) \exp = 0.00013 \ 3$	
		2660.1 <i>1</i>	277 11	558.456 2+	E1		α (K)exp=0.000083 5	
		3217.5 4	13 4	$0 0^+$				
3258.093	1-,2-	300.868 17	$0.20^{\circ} 4$	$2957.262 \ 2^{-},(1^{-})$				
		304.833 8 321.877 15	0.404	$2955.244 \ 2^{-1}$	M1 E2		$\alpha(K) = 0.021.5$	
		802 076 17	589	2456.005 1-	M1,E2 M1 F2		$\alpha(K) \exp [-0.021 \ 3]$	
		873.31 4	3.6 4	2384.759 3-	1011,122		u(II)exp=0.0010 5	
		1416.10 11	13.6 17	1841.947 2+	E1		$\alpha(K) \exp = 0.00016 \ 3$	
		2699.5 2	53 5	558.456 2+	E1		$\alpha(K) \exp = 0.000084 \ 9$	
(9042.7)		5785.1 <i>1</i>	81 4	3258.093 1-,2-	E1		α (K)exp=0.032×10 ⁻³ 3	
		5824.6 1	295 14	3218.556 1-,(2-)	E1		α (K)exp=0.0307×10 ⁻³ 20	
		5837.4 5	29 11	3205.997 2+			α (K)exp=0.038×10 ⁻³ 12	
		5885.9 2	14.0 11	3157.156 1-,(2-)				
		5934.5 1	80 4	3108.640 1	E1		α (K)exp=0.0292×10 ⁻⁵ 20	
		5965.3 3	5.2 6	3077.444 1',2'			$(\mathbf{V}) = 0.044 \cdot 10^{-3} 0$	
		5990.4 I	15.5 14	$3052.902 (1^+, 2^+)$	M1,E2 E1		$\alpha(\mathbf{K})\exp=0.024\times10^{-3}$ 2	
		0045.4 I 6221 0 I	19.4 <i>11</i>	2999.009 I	E1 M1 E2		$u(\mathbf{K}) \exp = 0.029 \times 10^{-3} 3$	
		0231.0 I 6242 7 2	23.212	$2012.030 \ 2^{\circ}$ 2700.001 (1+ 2+)	M1 E2		$u(\mathbf{K})\exp=0.038\times10^{-3}$ 5	
		6254 6 1	9.3 / 11 8 7	2799.991 (1,2) 2788 501 1+ 2+	M1 E2		$\alpha(K) \exp[-0.030 \times 10^{-3}]$	
		6275 5 3	526	2760.301 1 ,2 2767 848 1 ⁻	F1		$\alpha(K) \exp[-0.034 \times 10^{-3} G]$	
		6293.1 5	2.5.5	2749.265 2+	LI		u(13)exp=0.023×10 0	
		6382.2 1	11.5 6	2660.900 2+	M1.E2		$\alpha(K) \exp = 0.033 \times 10^{-3} 4$	
		6393.2 4	3.2 5	2650.120 2+			, your states ,	

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 $^{114}_{48}\text{Cd}_{66}$ -7

γ (¹¹⁴Cd) (continued)

E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	$I_{\gamma}^{\ddagger b}$	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult. [†]	Comments
(9042.7)		6405.9 <i>3</i>	5.9 6	2636.521 0+,(2+) M1,E2	$\alpha(K) \exp = 0.038 \times 10^{-3} 6$
		6462.7 1	25.9 13	2580.357 2-	E1	α (K)exp=0.0266×10 ⁻³ 17
		6489.7 <i>5</i>	2.5 5	2553.866 0+		
		6517.8 <i>1</i>	21.4 14	2525.420 2+	M1,E2	α (K)exp=0.0335×10 ⁻³ 23
		6587.2 1	32.4 17	2456.005 1-	E1	α (K)exp=0.0260×10 ⁻³ 16
		6605.4 <i>1</i>	40.7 20	2437.640 0+	M1,E2	α (K)exp=0.0300×10 ⁻³ 20
		6824.2 <i>1</i>	60 <i>3</i>	2218.860 2+	M1,E2	α (K)exp=0.032×10 ⁻³ 4
		6995.1 <i>1</i>	12.9 8	2048.027 2+		
		7200.7 <i>3</i>	2.7 3	1841.947 2+		
		7678.7 1	63 <i>3</i>	1364.344 2+	M1,E2	α (K)exp=0.029×10 ⁻³ 3
		7737.4 1	31.2 16	1305.609 0+	M1,E2	α (K)exp=0.0258×10 ⁻³ 18
		7833.3 <i>1</i>	29.7 15	1209.708 2+	M1,E2	α (K)exp=0.0245×10 ⁻³ 18
		7908.4 2	5.4 4	1134.532 0+		
		8484.8 1	48 <i>3</i>	558.456 2+	M1,E2	α (K)exp=0.0231×10 ⁻³ 17
		9043.1 <i>1</i>	24.7 13	$0 0^+$		-

[†] From 1984Mh01.

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[‡] Intensities per 10000 neutron captures (1984Mh01).

$\alpha(K)exp=0.0060$ 15 for the doubly placed 496.552 γ .

[@] Seen only in ce spectrum. Value is for Mult=M1,E2.

[&] Seen only in ce spectrum. Value is for Mult=E1; however, for the 1902 γ , the present adopted $J^{\pi'}$ s require Mult=M2 for this transition. This Mult would lead to I γ =3.9 7.

^{*a*} Unassigned by authors. The evaluator assigns the 1015 γ to the 2299 level, on the basis of $(n,n'\gamma)$ work. The 366 γ is also assigned by the evaluator to this level on the basis of energy fit.

^b For intensity per 100 neutron captures, multiply by 0.01.

^c Multiply placed with undivided intensity.

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

 $x \gamma$ ray not placed in level scheme.



¹¹⁴₄₈Cd₆₆

Level Scheme (continued)



 $--- \rightarrow \gamma$ Decay (Uncertain)

Legend



¹¹⁴₄₈Cd₆₆

Level Scheme (continued)

Intensities: Relative photon branching from each level & Multiply placed: undivided intensity given



¹¹⁴₄₈Cd₆₆

Level Scheme (continued) tensities: Relative photon branching from each lev



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 $^{114}_{48}$ Cd₆₆-13

¹¹³ Cd(n, γ) E=thermal 1984Mh01,1979Br25,1968Gr32

Level Scheme (continued)



From ENSDF



14

 $^{114}_{48}\text{Cd}_{66}\text{--}14$