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

1994Ju04, 1990Ju01: Reaction: 96 Zr(18 O,4n γ), E(18 O)=73 and 65 MeV. Target: A stacked target consisting of two 0.9 mg/cm², enriched to 85% in 96 Zr and a 0.74 mg/cm² thick target with a 6 mg/cm² thick gold backing. The beams were provided by the Tandem Accelerator Laboratory of the Niels Bohr Institute. γ -rays were detected using Nordball array consisting of 17-20 Compton-suppressed Ge detectors (at 37°, 79°, 101° and 143°) and a BaF₂-multiplicity filter. Measured: E γ , $\gamma\gamma$, $\gamma(\theta)$. Deduced: ¹¹⁰Cd levels, J^{π} , T_{1/2}, B(M1)/B(E2).

1974Lu01: Reaction: ${}^{96}Zr({}^{18}O,4n\gamma)$, E(${}^{18}O$)=60 MeV. For linear-polarization measurements a Ge(Li) two-crystal Compton polarimeter was used. Measured: $\gamma(\theta)$, linear pol.

1994Ju04: Reaction: ¹⁰⁰Mo(¹³C,3n γ), E(¹³C)=44 MeV. Target: 0.59 mg/cm², enriched to 97.4% in ¹⁰⁰Mo with a 6.8 mg/cm² thick gold backing. The beams were provided by the Tandem Accelerator Laboratory of the Niels Bohr Institute. γ -rays were detected using Nordball array consisting of 17-20 Compton-suppressed Ge detectors (at 37°, 79°, 101° and 143°) and a BaF₂-multiplicity filter. Measured: E γ , $\gamma\gamma$, $\gamma\gamma$ (t), $\gamma(\theta)$. Deduced: ¹¹⁰Cd levels, J^{π} , T_{1/2}, B(M1)/B(E2).

Others: 2011Ro01, 2001Ha09, 2000Wa31, 1999Cl03, 1993Pi16, and 1990MuZZ.

¹¹⁰Cd Levels

E(level) [†]	$J^{\pi \ddagger}$	$T_{1/2}^{\#}$	Comments
0.0 [@]	0^{+}		
657.80 [@] 10 1474.8 ^m 12	2^+ 0^+	5.42 ps 16	T _{1/2} : From Adopted Levels. 6.4 ps 4 (1993Pi16) and 6.0 ps 8 (2001Ha09).
1475.8 5	2+		
1542.31 [@] 14	4+	<2.1 ps	$T_{1/2}$: Other: 0.7 ps 4 (2001Ha09).
1783.7 ^m 10	2+		
2078.8 ^f 8	3-		
2162.8 7	3+		
2220.1 6	4+ 4+		
$2230.70^{-10} 23$	4' 6 ⁺	<21 ps	T_{cos} Other: 0.6 ps 4 (2001Ha00)
2480.04 17	5-	<2.1 ps	$1_{1/2}$. Ouler. 0.0 ps 4 (200111409).
2540.04° 21 2660 1 ^e 3	5 5-		
2842.4 6	5-		
2877.17 ^m 23	6+		
2879.25 ^a 21	7-	0.69 ns 4	$T_{1/2}$: Other: 0.62 ns 14 (1994Ju04) and < 0.866 ns (2001Ha09).
2896.2 ^e 3	6-		
3029.33 ^{<i>f</i>} 25	7-		
3055.73 ^e 25	8-	2.4 ns 4	$T_{1/2}$: From 1994Ju04.
3063.7 6	6+		
30/4.4.8	6^{-}	5.5 (
$318/.4^{P}$ 3	8	55 ps 0	
32/5.56 19	8'	1.1 ps 4	$1_{1/2}$: From 2001Ha09. <2.8 (1993P116).
$3345.90^{a}.24$	0 ⁻	49 ns 3	
3391.2 11	(7^{-})	49 ps 5	
$3427.4^{b}.3$	8-	6.0 ps 6	
3440.08 24	8+	<2.8 ps	
3611.10 [@] 22	10^{+}	0.464 ns 17	$\mu = -0.9 \ 3$
			$T_{1/2}$: From 2001Ha09. Other: 0.7 ns 2 (1994Ju04) and 0.55 ns 3 (1993Pi16). μ : Using ion-implantation perturbed-angular-correlation (IMAP) technique in 1995Re15 (g-factor = -0.09.3 deduced using $T_{1/2}=0.56$ ns 3).

Continued on next page (footnotes at end of table)

¹¹⁰₄₈Cd₆₂-1

¹¹⁰Cd Levels (continued)

E(level) [†]	$J^{\pi \ddagger}$	T _{1/2} #	Comments
3641.0 ^h 6	8-		
3683.6^{f} 3	9-		
$3782.2^{i}.4$	9-		
3823.7 ^e 3	10-	3.5 ps 3	
4077.6 ^{&} 3	10+	0.69 ps 21	$T_{1/2}$: Other:<3.5 (2001Ha09).
4172.03 [@] 23	12+	8.1 ps 4	$T_{1/2}$: Other: 7.9 ps 4 (2001Ha09).
4172.9 ^{<i>a</i>} 3	11-	2.08 ps 14	
4182.4 ^b 3	10-	1.04 ps <i>14</i>	
4335.2 ^h 4	10-		
4438.4 ^P 11	9+		
4560.4 ^{<i>f</i>} 4	11-		
4620.2 ^{<i>p</i>} 4	10^{+}		
4737.2 ¹ 4	11-		
4889.1 ^{&} 4	12^{+}	1.39 ps 14	
4930.6 ^e 3	12-		
5026.3 ^w 3	14+	1.39 ps <i>14</i>	$T_{1/2}$: Other:<2.8 (2001Ha09).
5092.9° 4	12-	3.3 ps 4	
5114.0 ^J 4	121		
$5213.5^{n} 4$	12^{-}		
5215.5^{I} / 5249.2^{I} 3	(11) 13^{-}	< 1.4 ps	
5497.5 4	13-	<1.1 p5	
5500.0 ⁿ 4	13+		
5676.1 ^k 4	14+		
5758.9 ^d 3	13-		
5789.9 ¹ 4	14 ⁺		
5857.0 ^{&} 5	14 ⁺		
5892.9 ^p 9	$(12^+, 13^+)$		
5915.3 ^J 5	14+		
5967.4 ⁰ 3	14-		
5984.5 ^{<i>d</i>} 4	14-		
6079.8 ^p 10			
6100.9 ^⁶ 4	16 ⁺	0.250 ps 21	$T_{1/2}$: From 2011Ro01. Other:<1 ps (1993Pi16).
$6101.8^{\circ} 4$ $6178.5^{\circ} 4$	14 15 ⁺		
6181.6 ^{<i>a</i>} 3	15-		
6216.9 ^g 4	(14)		
6354.6 ^d 5	15-		
6544.2 11	(15 ⁻)		
6568.8 5	14		
6576.2^{k} 5	16+		
0384.5^{4} 3	14		
$0040.0^{\circ} 0$	(10')		
$00/1.3^{j} 0$	(15)		
6672.9° 4	16		
6/98.7° 7	16'		
6837.0 ¹ 7	16 ⁺		
00/9.07 3	15		

¹¹⁰Cd Levels (continued)

E(level) [†]	Jπ‡	T _{1/2} #	Comments
6963.2 ^d 6	16-		
6993.1 ^a 4	17^{-}		
7048.0 ^e 5	16-		
7184.3 ^{<i>n</i>} 5	17+		
7281.09 5	16		
7285.88 5	(16)	0.150 01	
$7325.4 \ 4$	18'	0.159 ps 21	$T_{1/2}$: From 2011Ro01.
73+2.5 0	(17-)		
$7445.5^{\circ}5$	(1/)		
7525.5° 5	18		
7575.6 [°] 7 7594.6 [°] 8	17		
7653.6 ^k 6	18^{+}		
7759.0 ⁴ 6	17		
7778.3 7	17		
7901 0 12	1/ (10+)		
7801.0^{-12} 7945 9 ^{<i>a</i>} 5	(18) 10^{-}		
7970.7^{e} 7	19		
8016.5 ⁰ 6	17		
8278.0 ⁰ 5	18		
8292.3 6	18		
83/3.2° 8	(10-)		
8405.5 ^J 11	(19^{-})		
8530 7 <mark>8</mark> 8	(19^{+}) (18)		
8595.6° 6	19		
8630.0 ^b 6	20-		
8648.3 [@] 5	20^{+}	0.118 ps 21	T _{1/2} : From 2011Ro01.
8862.1^{k} 6	20^{+}	F	1/2.
8967.9 ⁰ 6	20	0.127 ps +12-15	T _{1/2} : From 1999Cl03.
9106.8 ^a 6	21-	-	
9430.4 ⁰ 7	21	0.070 ps +10-12	$T_{1/2}$: From 1999Cl03.
9574.5 ^J 15	(21 ⁻)	0.15 5	
$9962.4 \circ 6$	221	0.15 ps 5	$T_{1/2}$: From 2011Ro01.
$9972.0^{\circ} 12$ 9991 4 ⁰ 12	22	0.065 ps + 10 - 12	T _{1/2} : From 1999C103
$10229 2^{k} 12$	(22^{+})	0.000 ps 110 12	
10495.9 ^{<i>a</i>} 12	23-		
10665.2 ⁰ 13	23	0.064 ps +12-16	T _{1/2} : From 1999Cl03.
11320.4 [@] 6	24+	0.19 ps 5	T _{1/2} : From 2011Ro01.
11451.2 ⁰ 16	24		
11455.0 ^b 16	(24 ⁻)		
12081.9 ^{<i>u</i>} 16	(25 ⁻)		
12763 ^w 3	26^{+}	0.24 ps	$T_{1/2}$: Effective half-life from 2011Ro01.
13033.0 ^{<i>b</i>} 19	(26 ⁻)		
14206 [@] 4	28+		

¹¹⁰Cd Levels (continued)

[†] From a least-squares fit to $E\gamma$.

[‡] From deduced γ -ray transition multipolarities, apparent band structures and decay patterns.

- [#] From 1993Pi16, unless otherwise stated.
- [@] Band(A): g.s. rotational band.
- & Band(B): $\Delta J=2$ rotational band on $J^{\pi}=10^+$ 4078-keV level.
- ^{*a*} Band(C): $\Delta J=2$ rotational band on $J^{\pi}=7-2879$ -keV level.
- ^{*b*} Band(D): $\Delta J=2$ rotational band on $J^{\pi}=8-3427$ -keV level.
- ^c Band(E): rotational band on the 7342-keV level.
- ^d Band(F): $\Delta J=2$ rotational band on $J^{\pi}=13$ 5759-keV level.
- ^{*e*} Band(G): $\Delta J=2$ rotational band on $J^{\pi}=5$ 2659-keV level.
- f Band(H): $\Delta J{=}2$ rotational band on $J^{\pi}{=}3{\text{-}}$ 2079-keV level.
- ^g Band(I): $\Delta J=2$ rotational band on $J^{\pi}=(14)$ 6217-keV level.
- ^{*h*} Band(J): $\Delta J=2$ rotational band on $J^{\pi}=8$ 3641-keV level.
- ^{*i*} Band(K): $\Delta J=2$ rotational band on $J^{\pi}=9$ 3782-keV level.
- j Band(L): $\Delta J{=}2$ rotational band on $J^{\pi}{=}12^+$ 5114-keV level.
- ^{*k*} Band(M): $\Delta J=2$ rotational band on $J^{\pi}=14^+$ 5676-keV level.
- ^{*l*} Band(N): $\Delta J=2$ rotational band on $J^{\pi}=14^+$ 5790-keV level.
- ^{*m*} Band(O): $\Delta J=2$ rotational band on $J^{\pi}=0^+$ 1474-keV level.
- ^{*n*} Band(P): $\Delta J=2$ rotational band on $J^{\pi}=13^+$ 5500-keV level.
- ^{*o*} Band(Q): $\Delta J=1$ rotational band on $J^{\pi}=17$ 8017-keV level.
- ^{*p*} Band(R): rotational band on $J^{\pi}=8^+$ 3187-keV level.
- ^{*q*} Band(S): $\Delta J=1$ rotational band on $J^{\pi}=14$ 6584-keV level.

γ ⁽¹¹⁰Cd)

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_{f}^{π}	Mult. [‡]	Comments
120.2 5	0.3 1	2660.1	5-	2540.04	5-		
150.0 5	0.2 1	3029.33	7-	2879.25	7-	M1	DCO=1.4 2
159.5 3	2.4 1	3055.73	8-	2896.2	6-	E2	DCO=1.32 8
164.0 5	0.9 1	3440.08	8+	3275.56	8+	M1	DCO=1.39 9
171.1 3	6.80 5	3611.10	10^{+}	3440.08	8+	E2	DCO=1.40 3
176.5 3	5.4 1	3055.73	8-	2879.25	7-	M1	DCO=0.35 5
186.9 5	0.20 5	6079.8		5892.9	$(12^+, 13^+)$		
219.0 5	0.4 1	2879.25	7-	2660.1	5-	E2	DCO=1.38 13
225.6 3	5.8 2	5984.5	14-	5758.9	13-	M1	DCO=0.84 3
232.0 5		3074.4	6-	2842.4	5-		
236.0 5	0.6 1	2896.2	6-	2660.1	5-		
261.2 5	0.2 1	8278.0	18	8016.5	17	D	DCO=0.91 6
265.2 3	2.40 10	3611.10	10^{+}	3345.90	9-	E1	DCO=0.81 8
278 1		3334.5	7-	3055.73	8-		
289.9 5	0.2 1	5789.9	14^{+}	5500.0	13+		
290.1 3	1.80 5	3345.90	9-	3055.73	8-		DCO=1.33 8
295.0 3	1.0 1	6879.6	15	6584.5	14	D	DCO=0.78 3
303.3 5	0.15 5	8595.6	19	8292.3	18		DCO=0.8 2
310.7 5	0.6 1	6879.6	15	6568.8	14		DCO=0.90 5
317.6 3	2.7 2	8595.6	19	8278.0	18	D	DCO=0.87 5
335.5 2	45.9 5	3611.10	10^{+}	3275.56	8+	E2 #	DCO=1.40 3
							Mult.: The authors of 1974Lu01 stated that polarization measurement was not much influenced by presence of weak unresolved 339γ , because of its similar angular distribution and its expected E2 character.

Mult.: A₂=0.333 11, A₄=-0.093 16.

 $^{110}_{\ 48}\text{Cd}_{62}\text{-}5$

(HI,xnγ) 1994Ju04,1990Ju01,1974Lu01 (continued)

γ ⁽¹¹⁰Cd) (continued)</sup>

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult. [‡]	δ	Comments
339.2 3	7.7 1	2879.25	7-	2540.04 5-	Q		DCO=1.13 6 Mult.: A ₂ =0.30 3, A ₄ =-0.08 4. Because of the more intense 335γ , the polarity of the 339γ could not be determined in the linear
356.2 3	2.4 1	2896.2	6-	2540.04 5-	M1		polarization measurements in 1974Lu01. DCO=0.66 5
369 1	0.4 2	3029.33	7-	2660.1 5-			
370.0 3	4.8 1	6354.6	15-	5984.5 14-	M1		DCO=0.77 3
371.6 5	0.3 1	3427.4	8-	3055.73 8-	5		
372.3 3	2.4 2	8967.9	20	8595.6 19	D		DCO=0.84 6
388.6.5	0.20 5	61/8.5	15'	5/89.9 14	D		DCO=<0./.
390.73	0.28 4	28//.1/	0 ·	$2480.04 6^{+}$			
398.5 5	0.58 8	3275.50	8	28//.1/ 0	#		
399.2.2	22.74	2879.25	7-	2480.04 6+	E1(+M2)"	< 0.06	DCO=0.80 4
							Mult.: $A_2 = -0.210$ <i>15</i> .
401 4 2	1 ()	7201.0	16	(070 (15	D		δ : Absolute value of δ from 19/4Lu01.
401.4 3	1.6 2	7281.0	10	08/9.0 15 2250.70 4 ⁺	D		DCU=0.87 5
409 1	0.21	2000.1	5	2230.70 4 2480.04 6 ⁺			
410 1	1.04.10	2690.2	10+	$2480.04 \ 0$ $3187 \ 4 \ 8^+$	F2		DCO = 1.7 A
437 1	0.2.1	7778 3	10	7342.3	L2		DCO=0.82.14
456 1	0.2 1	3334 5	7-	2879.25 7-			DC0-0.02 14
461 5	021	2540.04	5-	2078.8 3			
462.5.3	2.6.2	9430.4	21	8967.9 20	D		DCO=0.98 6
466.6.2	1783	3345.90	Q-	2879.25 7-	- F2#		DCO = 1.375
100.0 2	17.0 5	5515.70	/	2019.25 1	112		Mult : $A_2=0.308.23$ $A_4=-0.050.34$
467 1	0.10 3	2250.70	4+	1783.7 2+			
477.7 3	0.80 5	3823.7	10-	3345.90 9-	M1		DCO=0.60 6
477.9 5	0.9 1	7759.0	17	7281.0 16	D		DCO=0.73 3
480.5 5	0.5 1	8278.0	18	7797.7 17	D		DCO=0.77 6
489.4 <i>3</i>	1.1 2	3029.33	7-	2540.04 5-	E2		DCO=1.25 9
491.2 5	0.9 1	6672.9	16-	6181.6 15-			
495 <i>1</i>		3391.2	(7^{-})	2896.2 6-			
499.1 5	0.6 2	4182.4	10-	3683.6 9-	D		DCO=<0.6.
509.8 5	0.5 1	5758.9	13-	5249.2 13-	M1		DCO=1.32 12
516.8 5	0.6 1	7797.7	17	7281.0 16	D		DCO=0.64 6
519.0 5	0.3 1	8278.0	18	7759.0 17	D		DCO=0.80 5
531 1	0.10 5	3427.4	8-	2896.2 6	1.41		
545 1	0.26 4	5/58.9	13	5213.5 12	MI		DC0=0.63 8
540.2.5	2.73	3427.4	8 7-	28/9.25 /			DCO=0.30.3
549.4 5	1.0 5	3029.33	/	2460.04 0	E1		DC0=0.75 10
560.9 1	53.0 1	4172.03	121	3611.10 101	E2"		DCO=1.41 3
560 5 5	205	0001 4	22	0420 4 21	D		Mult.: $A_2=0.311$ 13, $A_4=-0.083$ 19.
302.3 3	2.0 3	9991.4	22	9430.4 21	D		DCU=1.0.2
562 0 2	1 9 2	2440.08	0 +	2077 17 6+			E_{γ} : From 1999C103.
58375	1.0 2	3063 7	o 6 ⁺	$2677.17 \ 0$ $2480 \ 04 \ 6^{+}$			
594.9.5	051	8373.2	0	2480.04 0			DCO-0 77 8
59535	<0.51	5215.5	(11^{+})	4620.2 10+			DCO=1.16.12
603 1	NU.J	2078.8	3-	1475.8 2+			DC0-1.10 12
608.5.3	3.2.4	6963.2	16-	6354.6 15-	M1		DCO=0.84 6
612.4.3	1.3 4	7575.6	17-	6963.2 16	M1		DCO=0.87 12
626.3 3	1.3 2	2877.17	6+	2250.70 4+	E2		DCO=1.37 12
627.9 3	1.0 3	3683.6	9-	3055.73 8-	M1		DCO=0.90 10
631.4 5	0.6 2	7594.6		6963.2 16-			

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¹¹⁰₄₈Cd₆₂-6

(HI,xnγ) 1994Ju04,1990Ju01,1974Lu01 (continued)

γ ⁽¹¹⁰Cd) (continued)</sup>

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E_i (level)	J_i^π	E_f	\mathbf{J}_f^{π}	Mult. [‡]	Comments
637.2 5	0.8 1	4077.6	10^{+}	3440.08	8+	E2	DCO=1.5 2
654.4 3	1.9 3	3683.6	9-	3029.33	7-	E2	DCO=1.46 14
657 8 2		657.80	2+	0.0	0+	Б2 #	DCO-1 25 3
037.0 2		037.80	2	0.0	0	E2	$Mult: A_2 = 0.285.5$ $A_4 = -0.066.8$
666.0.5	031	5758 0	13-	5002.0	12-	M1	$DCO = 0.83 \ 11$
673 8 3	0.51	10665.2	13	0001 4	12	D	DCO = 0.83 T
677 1	1.1 2	2220.1	23 4 ⁺	1542.21	22 4+	D	DCO=0.83 /
677 4 5	<0.5	5802.0	(12+12+)	5215.5	(11+)		$DCO_{-1}62$
67052	<0.5	2092.9	(12, 13)	5500.0	(11) 12^+	E2	DCO=1.0.2
691 2 2	1.1 J	61916	15	5407.5	13	E2 E2	$DCO=1.23\ 10$
687.0.5	2.1 2	2162.8	13	1497.5	15 2+	EZ	DCO=1.5 2
$\frac{001.0}{1}$	0.20 5	2102.0	J 10-	14/3.0	2 0-		
094 1	715	4335.2	10	5041.0 5067.4	ð 1.4-	E2	DCO_1 40 7
705.7 5	1.4.5	00/2.9	10	3907.4	14	EZ E2	DCO 1 47 6
709.2.2	1.8 2	3187.4	8	2480.04	0	EZ M1	DCO = 1.4 / 0
710 1 5	1.4 3	2250.70	4	1542.51	4	IVI I	DCO=1.5 2
/18.1.3	0.5710	3907.4	14	5249.2	13	M 1	DCO 1.09.12
720.5 5	0.8 5	3782.2	9	3055.75	8	IVI I	DCO=1.08 12
135.2 5	0.2 1	8016.5	1/	/281.0	10	1.41	DCO 0.52.14
/36./ 5	0.8 2	4560.4	11	3823.7	10	MI	DCO=0./3 14
743.5 5	0.4 1	5857.0	14	5114.0	12.		
/44.5 5	0.0.0	2220.1	4	14/5.8	2	50	
/53.8 5	0.8 2	5967.4	14	5213.5	12	E2	DC0=1.64 8
/54.9 3	3.0 2	4182.4	10	3427.4	8	E2	DCO=1.3/10
151.15	0.27 4	4930.6	12	41/2.9	11	MI	DCO=0.42 13
761.7 5	0.3 1	3641.0	8	2879.25	7	MI	DCO=1.0 2
/68.0 3	5.4 1	3823.7	10	3055.73	8	E2	DCO=1.46 9
770.73	1.2.2	7443.5	(17)	6672.9	16		DCO=1.3 2
772.2.5	0.6.2	7443.5	(1^{7})	6671.3	(15^{-})	D	
786 1	0.6 2	11451.2	24	10665.2	23	D	DCO=1.12 13
787.13	5.2.2	56/6.1	14'	4889.1	121	E2	DCO=1.50 6
795.5 <i>1</i>	55.4 5	3275.56	8+	2480.04	6+	E2#	DCO=1.40 3
							Mult.: $A_2=0.327 \ 14, A_4=-0.077 \ 21.$
802.1 2	11.7 2	4077.6	10^{+}	3275.56	8+	E2	DCO=1.40 6
811.4 <i>3</i>	9.2 4	4889.1	12^{+}	4077.6	10^{+}	E2	DCO=1.46 6
811.6 <i>3</i>	9.9 4	6993.1	17^{-}	6181.6	15-	E2	DCO=1.46 12
815 <i>1</i>	0.3 1	7778.3		6963.2	16-		
818.2 5		1475.8	2+	657.80	2+		
827.0 2	12.1 2	4172.9	11-	3345.90	9-	E2	DCO=1.46 7
828.0 <i>3</i>	1.2 4	5758.9	13-	4930.6	12-	M1	DCO=1.0 2
836.5 <i>3</i>	1.0 2	4182.4	10-	3345.90	9-	M1	DCO=0.46 4
850.6 <i>3</i>	7.5 6	7523.5	18-	6672.9	16-	E2	DCO=1.43 5
854.2 2	42.4 4	5026.3	14+	4172.03	12^{+}	E2	DCO=1.41 3
856.1 5	0.6 2	6646.0	(16^{+})	5789.9	14^{+}	(Q)	DCO=1.69 14
874.4 <i>3</i>	3.8 6	5967.4	14-	5092.9	12^{-}	E2	DCO=1.5 2
877.0 <i>3</i>	2.1 1	4560.4	11-	3683.6	9-	E2	DCO=1.51 10
878.2 <i>3</i>	1.3 <i>3</i>	5213.5	12^{-}	4335.2	10^{-}	E2	DCO=1.46 12
884.5 1	100	1542.31	4+	657.80	2+	E2 [#]	DCO=1.40 3
							Mult.: $A_2=0.289$ 7, $A_4=-0.069$ 10.
892.2 <i>3</i>	2.0 2	6993.1	17-	6100.9	16+	E1	DCO=0.776
900.1 <i>3</i>	4.4 1	6576.2	16+	5676.1	14^{+}	E2	DCO=1.33 7
902.8 5	0.8 1	3782.2	9-	2879.25	7-		DCO=1.38 14
910.6 <i>3</i>	4.4 6	5092.9	12-	4182.4	10-	E2	DCO=1.48 10
921.7 5	0.7 2	6837.0	16+	5915.3	14^{+}	E2	DCO=1.3 2
922.7 5	0.8 2	7970.7	18-	7048.0	16-	E2	DCO=1.37 13
932.3 <i>3</i>	5.3 <i>3</i>	6181.6	15-	5249.2	13-	E2	DCO=1.40 6

Continued on next page (footnotes at end of table)

γ ⁽¹¹⁰Cd) (continued)</sup>

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}	Mult. [‡]	δ	Comments
937 1	1.0 1	5497.5	13-	4560.4	11-			
93771	86.0.10	2480.04	6+	1542.31	4+	E2 [#]		DCO=1.40.3
<i>yonn</i> 1	0010 10	2.00101	0	10.2101				Mult.: $A_2=0.322$ 9. $A_4=-0.075$ 13.
941 <i>1</i>	< 0.2	5114.0	12^{+}	4172.03	12^{+}			
941.7 5	0.8 2	6798.7	16+	5857.0	14^{+}	E2		DCO=1.3 2
946.3 <i>3</i>	0.50 10	7048.0	16-	6101.8	14-	E2		DCO=1.7 3
952.8 <i>3</i>	5.5 6	7945.9	19-	6993.1	17^{-}	E2		DCO=1.41 9
952.8 5	0.7 1	8278.0	18	7325.4	18+	$D^{@}$		DCO=1.46 10
955.0 <i>3</i>	1.2 3	4737.2	11-	3782.2	9-	E2		DCO=1.7 4
960.1 <i>3</i>	7.10 10	3440.08	8+	2480.04	6+	E2		DCO=1.27 8
962 <i>1</i>	1.0 3	8405.5	(19 ⁻)	7443.5	(17-)	(Q)		DCO=1.4 2
967.0 5	0.2 1	8292.3	18	7325.4	18+			
967.7 <i>3</i>	1.7 2	5857.0	14+	4889.1	12+	E2		DCO=1.41 10
989.2 <i>3</i>	1.5 4	4335.2	10-	3345.90	9-	M1 #		DCO=1.6 2
997.8 <i>3</i>	11.5 <i>1</i>	2540.04	5-	1542.31	4+	$E1(+M2)^{#}$	< 0.06	DCO=0.71 4
								Mult.: $A_2 = -0.264\ 25$.
1005.0.2	112	7104.2	17+	(170.5	1.5.4	52		δ : Absolute value of δ from 1974Lu01.
1005.8 3	1.1 3	7184.3	17	6178.5	15-	E2		DCO=1.36 10
1009 1	0.20 3	5758.0	14	2092.9 4727 2	12	E2		$DCO_{-1}0.4$
1021.5 5	0.255	5015 3	15 14+	4/3/.2	$11 \\ 12^+$	E2 E2		DCO=1.51.13
1020.2 5	1.5 1	5114.0	17^{+}	4077.6	$12 \\ 10^{+}$	E2 E2		DCO = 1.31 I3
1036.8.3	1.4 1	5967.4	12^{-12}	4930.6	10^{-10}	E2		DCO=1.38 13
1055.7	1.1.1	5984.5	14-	4930.6	12^{-12}	22		
1068.9 3	1.9 4	7285.8	(16)	6216.9	(14)	(Q)		DCO=1.48 13
1074.6 2	20.0 2	6100.9	16+	5026.3	14+	E2		DCO=1.47 5
1076.1 <i>3</i>	8.6 4	5249.2	13-	4172.9	11^{-}	E2		DCO=1.40 8
1077.4 <i>3</i>	4.6 <i>3</i>	7653.6	18^{+}	6576.2	16^{+}	E2		DCO=1.5 2
1080.2 5	0.35 8	7048.0	16-	5967.4	14-			
1100 1	1.0 3	9962.4	22+	8862.1	20+			
1106.5 3	2.8 3	8630.0	20-	7523.5	18-	E2		DCO=1.4093
1107.03	4.2 4	4930.6	12	3823.7	10	E2		DCO = 1.44 9
111/.4 J 1126 5	0.91	2000.1	3 2+	657.80	4 · 2+	EI		DCO=0.8 2
1120 5	0.21 052	6178 5	15^{+}	5026.3	$\frac{2}{14^{+}}$	M1		DCO - 122
1152.1 5	<0.5 2	7801.0	(18^+)	6646 0	(16^{+})	(E2)		DC0-1.2 2
1155.2.3	5.8 4	6181.6	15-	5026.3	14^+	E1		DCO=0.81 6
1160.9 3	4.4 2	9106.8	21-	7945.9	19-	E2		DCO=1.50 14
1169 <i>1</i>	< 0.5	9574.5	(21^{-})	8405.5	(19 ⁻)			
1171.3 <i>3</i>	1.3 <i>3</i>	6101.8	14-	4930.6	12-	E2		DCO=1.3 2
1190.6 3	3.9 <i>3</i>	6216.9	(14)	5026.3	14+	D&		DCO=1.39 14
1198.9 5	0.3 1	5758.9	13-	4560.4	11-	E2		DCO=1.6 2
1208.5 3	2.9 3	8862.1	20^{+}	7653.6	18^{+}	E2		DCO=1.7 2
1224.5 2	11.2 2	7325.4	18^{+}	6100.9	16^{+}	E2		DCO=1.46 4
1244.9 5	0.5 2	8530.7	(18)	7285.8	(16)			
1251 <i>1</i>	< 0.3	4438.4	9+	3187.4	8+			
1261 1	0.2 1	7443.5	(17^{-})	6181.6	15-			DC0 105 14
1295 1	0.72	6544.2 8481-2	(15^{-})	5249.2	13	(E2)		DCU=1.25 14
1297 I 1300 1 5	<0.5	8481.3 2842 4	(19') 5-	/184.5	17' 4+	(E2)		
1300.1.3	271	2042.4 0062 1	3 22+	1342.31	$\frac{4}{20^{+}}$	F2		DCO = 1.50.0
1323 0 3	$\frac{2.71}{512}$	8648 3	20^{+}	7325 A	20 18 ⁺	E2 F2		DCO=1.30 9 DCO=1.44.6
1324.6.5	0.4 1	5497 5	13-	4172.9	11-	114		DCO-1.TT U
1325.6.5	0.8 2	5497.5	13-	4172.03	12^{+}			
1327.9 <i>3</i>	2.0 5	5500.0	13+	4172.03	12^{+}	D		DCO=1.05 14

Continued on next page (footnotes at end of table)

1994Ju04,1990Ju01,1974Lu01 (continued) $(HI,xn\gamma)$

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

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	E_f	${ m J}_f^\pi$	Mult. [‡]		Comments	
1335.3 3	1.0 1	2877.17	6+	1542.31	4+	E2	DCO=1.02 14		
1342 <i>I</i>	2.0 2	9972.0	22^{-}	8630.0	20^{-}	E2	DCO=1.8 3		
1344.5 5	0.2 1	4620.2	10^{+}	3275.56	8+				
1358 <i>1</i>	0.3 1	7342.3		5984.5	14^{-}				
1358.0 <i>3</i>	2.5 1	11320.4	24^{+}	9962.4	22^{+}	E2	DCO=1.33 10		
1367 <i>1</i>	1.0 <i>I</i>	10229.2	(22^{+})	8862.1	20^{+}				
1389 <i>1</i>	3.0 5	10495.9	23-	9106.8	21-	E2	DCO=1.5 3		
1421 <i>I</i>	< 0.3	2078.8	3-	657.80	2+				
1422 <i>1</i>	0.2 1	6671.3	(15^{-})	5249.2	13-				
1423.5 5	0.17 4	7778.3		6354.6	15-				
1433.0 5	0.5 1	4620.2	10^{+}	3187.4	8+				
1443 <i>1</i>	1.7 2	12763	26^{+}	11320.4	24^{+}	E2	DCO=1.53 12		
1443 <i>1</i>		14206	28^{+}	12763	26^{+}	E2			
1483 <i>1</i>	0.7 2	11455.0	(24 ⁻)	9972.0	22^{-}	(E2)			
1504 <i>1</i>	2.5 3	5676.1	14^{+}	4172.03	12^{+}	E2	DCO=1.7 3		
1542.4 5	0.8 2	6568.8	14	5026.3	14^{+}	D [@]	DCO=1.4 2		
1549 <i>1</i>	1.1 2	6576.2	16+	5026.3	14^{+}	E2	DCO=1.3 2		
1558.1 5	0.8 2	6584.5	14	5026.3	14^{+}	D [@]	DCO=1.5 2		
1578 <i>1</i>	< 0.5	13033.0	(26 ⁻)	11455.0	(24 ⁻)				
1586 <i>1</i>	0.5 1	5758.9	13-	4172.9	11-		DCO=1.3 2		
1586 <i>1</i>	0.7 2	12081.9	(25^{-})	10495.9	23-	(E2)			
1586.8 <i>3</i>	1.6 <i>1</i>	5758.9	13-	4172.03	12^{+}	E1	DCO=0.71 9		
1592.6 5	0.15 5	2250.70	4+	657.80	2+				
1617.9 <i>3</i>	1.5 <i>1</i>	5789.9	14^{+}	4172.03	12^{+}	E2	DCO=1.1 2		
1645 <i>1</i>	0.3 1	6671.3	(15^{-})	5026.3	14^{+}				

[†] From ⁹⁶Zr(¹⁸O,4nγ) in 1994Ju04.

[‡] From DCO measurements and band structure (1994Ju04). DCO ratios are from 1994Ju04 (R(E_{γ})=I_{γ}(143° or 37°)/I_{γ}(79° or 101°)). For $\Delta I=0$ dipole and $\Delta I=2$ quadrupole transitions R(E_y) \approx 1.50, for stretched dipole transitions R(E_y) \approx 0.75. A₂ and A₄ coefficients are from 1974Lu01, unless otherwise stated. [#] From $\gamma(\theta)$ and linear pol measurements (1974Lu01). [@] From DCO ratio very probably $\Delta J=0$ transition (1994Ju04).

& DCO indicates $\Delta J=0$ or 2, but from intensity considerations the former is preferred (1994Ju04).

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



 $^{110}_{48}\text{Cd}_{62}$



 $^{110}_{48}\mathrm{Cd}_{62}$



 $^{110}_{48}\text{Cd}_{62}$



 $^{110}_{48}\text{Cd}_{62}$



 $^{110}_{48}\text{Cd}_{62}$

(HI,xnγ) 1994Ju04,1990Ju01,1974Lu01









 $^{110}_{\ 48}\mathrm{Cd}_{62}$





¹¹⁰₄₈Cd₆₂





 $^{110}_{48}\text{Cd}_{62}$



