		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

1992Li22:  ${}^{92}$ Mo( ${}^{34}$ S,2p2n $\gamma$ ) E=150,155 MeV,  ${}^{106}$ Cd( ${}^{19}$ F,2p2n $\gamma$ ) E=95 MeV,  ${}^{92}$ Mo( ${}^{32}$ S,3p $\gamma$ ) E=145 MeV; Ge + BGO Compton suppressed spectrometer;  $\gamma$  singles,  $\gamma\gamma$  coincidence,  $\gamma\gamma$ -particle coin, DCO ratio; deduced band structures.

# <sup>121</sup>Cs Levels

E(level)	J <sup>π &amp;</sup>	$T_{1/2}^{a}$
$0.0^{\ddagger}$	$3/2^{(+)}$	155 s 4
68.5 <sup>#</sup> 3	$9/2^{(+)}$	122 s <i>3</i>
98.2 5		
210.8 <sup>‡</sup> 5	$(7/2^+)$	
313.9 <sup>#</sup> 6	$(11/2^+)$	
589.9 <sup>#</sup> 7	$(13/2^+)$	
627.7 <sup>‡</sup> 7	$(11/2^+)$	
893.9 <sup>#</sup> 7	$(15/2^+)$	
1197.9 <sup>‡</sup> 9	$(15/2^+)$	
1220.8 <sup>#</sup> 7	$(17/2^+)$	
1568.1 <sup>#</sup> 8	$(19/2^+)$	
1863.9 <sup>‡</sup> <i>14</i>	$(19/2^+)$	
1888.8 <sup>@</sup> 8	$(17/2^{-})$	
1928.3 <sup>#</sup> 9	$(21/2^+)$	
2077.5 <sup>@</sup> 8	$(19/2^{-})$	
2294.6 <sup>@</sup> 9	$(21/2^{-})$	
2295.3 <sup>#</sup> 10	$(23/2^+)$	
2451.4 <sup>‡</sup> <i>15</i>	$(23/2^+)$	
2543.6 <sup>@</sup> 9	$(23/2^{-})$	
2661.5 <sup>#</sup> 10	$(25/2^+)$	
2824.9 <sup>@</sup> 10	$(25/2^{-})$	
3019.3 <sup>#</sup> 11	$(27/2^+)$	
3031.5 <sup>‡</sup> <i>15</i>	$(27/2^+)$	
3138.6 <sup>@</sup> 10	$(27/2^{-})$	
3369.7 <sup>#</sup> 12	$(29/2^+)$	
3482.2 <sup>@</sup> 10	$(29/2^{-})$	
3698.5 <sup>‡</sup> 18	$(31/2^+)$	
3775.8 <sup>#</sup> 12	$(31/2^+)$	
3856.8 <sup>@</sup> 11	$(31/2^{-})$	
4172.7? <sup>#</sup> 16	$(33/2^+)$	
4256.5 <sup>@</sup> 12	$(33/2^{-})$	
4455.6 <sup>‡</sup> 18	$(35/2^+)$	
4623? <sup>#</sup> 1	$(35/2^+)$	
4683.8 <sup>@</sup> 13	$(35/2^{-})$	
5066.1? <sup>#</sup> 15	$(37/2^+)$	
5294.4 <sup>‡</sup> 18	$(39/2^+)$	
6216.3 <sup>‡</sup> <i>19</i>	$(43/2^+)$	
7225.8 <sup>‡</sup> 20	$(47/2^+)$	

 $^{121}_{55}$ Cs<sub>66</sub>-2

#### (HI,xnyp $\gamma$ ) 1992Li22 (continued)

#### <sup>121</sup>Cs Levels (continued)

E(level)	J <sup>π &amp;</sup>	Comments
8322.9 <sup>‡</sup> 20	$(51/2^+)$	
9512.2 <sup>‡</sup> 20	$(55/2^+)$	
10796.2 <sup>‡</sup> 23	$(59/2^+)$	
12184? <sup>‡</sup> 1	$(63/2^+)$	
$\mathbf{x}^{\dagger}$	$(11/2^{-})$	Additional information 1.
x+285.8 <sup>†</sup> 5	$(15/2^{-})$	
x+757.1 <sup>†</sup> 7	$(19/2^{-})$	
x+1372.0 <sup>†</sup> 9	$(23/2^{-})$	
x+2098.2 <sup>†</sup> 10	$(27/2^{-})$	
x+2914.6 <sup>†</sup> 12	$(31/2^{-})$	
x+3808.6 <sup>†</sup> 13	$(35/2^{-})$	
x+4776.9 <sup>†</sup> 14	(39/2 <sup>-</sup> )	
x+5820.7 <sup>†</sup> 15	$(43/2^{-})$	
x+6940.7 <sup>†</sup> 18	$(47/2^{-})$	
x+8144.7 <sup>†</sup> 20	$(51/2^{-})$	
x+9438.7 <sup>†</sup> 23	$(55/2^{-})$	
x+10811 <sup>†</sup>	$(59/2^{-})$	

<sup>†</sup> Band(A): decoupled rotational band on  $1h_{11/2}$ .

<sup>‡</sup> Band(B): 3/2<sup>+</sup>[422].

<sup>#</sup> Band(C): 9/2[404].

<sup>(a)</sup> Band(D): three quasi-particle band on  $1h_{11/2}$ .

& Spins and parities are proposed based on angular distribution, and DCO ratios in (HI,xnypγ), except g.s. and 68.5 keV level.

<sup>a</sup> From Adopted Levels.

# $\gamma(^{121}\mathrm{Cs})$

Anistropy ratios notations are: (1)anisotropy ratio(A)= $I(37^{\circ})/I(79^{\circ})$  from projected spectra in the Si-ball charged particle gate signals. (2)anisotropy ratio(B)= $I(37^{\circ})/I(79^{\circ})$  from coincidence spectra in the plastic phoswich scintillator-ball charged particle gate signals.

Eγ	Iγ	E <sub>i</sub> (level)	$\mathbf{J}_i^{\pi}$	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult. <sup>#</sup>	α <sup>@</sup>	Comments
68.5 <i>3</i>	100	68.5	9/2(+)	0.0 3/2 <sup>(+)</sup>			$E_{\gamma}$ : from adopted gammas.
98.2 <i>5</i>	100 10	98.2		$0.0 \ 3/2^{(+)}$			$E_{\gamma}$ : from adopted gammas.
188.4 5	2.5 2	2077.5	$(19/2^{-})$	1888.8 (17/2 <sup>-</sup> )	D		Mult.: anisotropy ratio(A)=0.9 2; E1 assumed.
210.8 5	7.4 6	210.8	$(7/2^+)$	0.0 3/2 <sup>(+)</sup>	Q		Mult.: anisotropy ratio(A)=1.0 <i>I</i> , anisotropy ratio(B)=1.2 <i>2</i> .
217.5 5	3.0 <i>3</i>	2294.6	$(21/2^{-})$	2077.5 (19/2-)	D		Mult.: anisotropy ratio(B)=1.2 2.
245.5 5	63 4	313.9	(11/2+)	68.5 9/2 <sup>(+)</sup>	(D)		Mult.: anisotropy ratio(A)=1.0 <i>1</i> , anisotropy ratio(B)=1.07 <i>4</i> .
248.8 5	4.3 <i>3</i>	2543.6	$(23/2^{-})$	2294.6 (21/2 <sup>-</sup> )	D		Mult.: anisotropy ratio(A)=0.9 1.
275.9 5	54 4	589.9	$(13/2^+)$	313.9 (11/2+)	D		Mult.: anisotropy ratio(A)=1.0 <i>1</i> , anisotropy ratio(B)=1.09 <i>4</i> .
280.9 <sup>†</sup> 5	17.7 13	2824.9	$(25/2^{-})$	2543.6 (23/2 <sup>-</sup> )	D		Mult.: anisotropy ratio(A)= $1.0 l$ .
285.8 5	100	x+285.8	(15/2-)	x (11/2 <sup>-</sup> )	(E2)	0.0508	$\alpha(K)=0.0414$ 7; $\alpha(L)=0.00746$ 12;

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 $^{121}_{55}$ Cs<sub>66</sub>-3

				(HI,xi	nypγ)	1992Li22	(continued)	
Eγ	$I_{\gamma}$	E <sub>i</sub> (level)	$J_i^{\pi}$	$E_f$	$J_f^{\pi}$	Mult. <sup>#</sup>	$\alpha^{@}$	Comments
					<u></u>			α(M)=0.001561 24; α(N+)=0.000366
								<sup>6</sup> $\alpha$ (N)=0.000323 5; $\alpha$ (O)=4.18×10 <sup>-5</sup> 7; $\alpha$ (P)=1.398×10 <sup>-6</sup> 21 Mult.: anisotropy ratio(A)=1.2 2, anisotropy ratio(B)=1.20 7, RUL consistent with F2.
303.9 5	40 3	893.9	(15/2+)	589.9	(13/2 <sup>+</sup> )	D		Mult.: anisotropy ratio(A)=1.1 2, anisotropy ratio(B)=1.2 3.
313.5 <sup>†</sup> 5	12.3 9	3138.6	(27/2 <sup>-</sup> )	2824.9	(25/2 <sup>-</sup> )	D		Mult.: anisotropy ratio(A)=1.2 2, anisotropy ratio(B)=1.2 3.
327.4 5	30.8 22	1220.8	(17/2+)	893.9	(15/2+)	D		Mult.: anisotropy ratio(A)=1.1 <i>1</i> , anisotropy ratio(B)=1.04 <i>5</i> .
343.4 5	2.8 3	3482.2	$(29/2^{-})$	3138.6	$(27/2^{-})$	D		Mult.: anisotropy ratio(A)=1.6 3.
347.0 <sup>†</sup> 5	30.3 22	1568.1	$(19/2^+)$	1220.8	$(17/2^+)$	D		Mult.: anisotropy ratio(A)=1.1 2.
350† 1	16.3 12	3369.7	$(29/2^+)$	3019.3	$(27/2^+)$	D		Mult.: anisotropy ratio(A)=1.3 2.
357.9 5	12.5 10	3019.3	$(27/2^+)$	2661.5	$(25/2^+)$	D		Mult.: anisotropy ratio(A)=1.2 2.
360.2 5	25.3 18	1928.3	$(21/2^+)$	1568.1	$(19/2^+)$	D		Mult.: anisotropy ratio(A)=1.0 1.
366 <sup>†</sup> 1	<40.1	2661.5	(25/2+)	2295.3	(23/2 <sup>+</sup> )	(D)		$I_{\gamma}$ : Iγ(366γ)+Iγ(367)=40 3. Mult.: anisotropy ratio(A)=1.2 2 for 366γ+367γ.
367 <sup>†</sup> 1	<40	2295.3	(23/2 <sup>+</sup> )	1928.3	(21/2 <sup>+</sup> )	(D)		I <sub>γ</sub> : I <sub>γ</sub> (366γ)+I <sub>γ</sub> (367). Mult.: anisotropy ratio(A)=1.2 2 for 366γ+367γ=40 <i>3</i> .
374.7 <sup>†</sup> 5	21.0 16	3856.8	$(31/2^{-})$	3482.2	$(29/2^{-})$	D		Mult.: anisotropy ratio(A)=1.3 2.
394.4 <sup>†a</sup> 5	9.2 7	4172.7?	$(33/2^+)$	3775.8	$(31/2^+)$	D		Mult.: anisotropy ratio(A)= $1.3 2$ .
3997 1	3.8.4	4256.5	$(33/2^{-})$	3856.8	$(31/2^{-})$	D		Mult: anisotropy ratio(A)= $1.3.2$
404	5.0 1	2294.6	$(21/2^{-})$	1888.8	$(37/2^{-})$	D		main ansonopy fano(ri) filo 2.
406.0.5	8.9.7	3775.8	$(21/2^{+})$ $(31/2^{+})$	3369.7	$(17/2^{+})$ $(29/2^{+})$	D		Mult: anisotropy ratio(A)= $1.4.2$
416.9 5	100 8	627.7	$(11/2^+)$	210.8	$(7/2^+)$	Q		anisotropy ratio(B)=1.2 <i>3</i> . Mult.: anisotropy ratio(A)=1.2 <i>2</i> ,
		1100	(2 = (2 - )		(22/2-)			anisotropy ratio(B)=1.3 2.
427.0 5	3.3 3	4683.8	$(35/2^{-})$	4256.5	$(33/2^{-})$	D		Mult.: anisotropy ratio(A)= $1.4$ 3.
466 <i>1</i> 471.3 <i>5</i>	4.1 <i>4</i> 208 <i>16</i>	2543.6 x+757.1	(23/2) (19/2 <sup>-</sup> )	2077.5 x+285.8	(19/2) (15/2 <sup>-</sup> )	Q E2	0.01110	Mult.: anisotropy ratio(A)=0.9 2. $\alpha(K)=0.00934 \ 14; \ \alpha(L)=0.001403 \ 21;$ $\alpha(M)=0.000290 \ 5; \ \alpha(N+)=6.91\times10^{-5} \ 10$ $\alpha(N)=6.06\times10^{-5} \ 9; \ \alpha(O)=8.12\times10^{-6} \ 12; \ \alpha(P)=3.34\times10^{-7} \ 5$ Mult.: anisotropy ratio(A)=1.4 2, anisotropy ratio(B)=1.33 5, RUL consistent with E2.
521 <i>I</i>	14.4 14	589.9	$(13/2^+)$	68.5	9/2 <sup>(+)</sup>	Q		Mult.: anisotropy ratio(A)=4.9 8, anisotropy ratio(B)=0.88.26
530.6 5	6.8 6	2824.9	(25/2-)	2294.6	(21/2 <sup>-</sup> )	Q		Mult.: anisotropy ratio(B)=2.1.4
570.2 5	12.0 10	1197.9	(15/2+)	627.7	$(11/2^+)$	Q		Mult.: anisotropy ratio(B) =1.6 2, anisotropy ratio(B)=1.3 2.
580.1 <sup>†</sup> 1	<28.4	3031.5	$(27/2^+)$	2451.4	$(23/2^+)$	(Q)		$I_{\gamma}$ : $I_{\gamma}(580.1\gamma) + I_{\gamma}(580.2\gamma) = 28.4 23.$
580.2 <sup>†</sup> 5	28.4 23	893.9	(15/2+)	313.9	(11/2 <sup>+</sup> )	(E2)	0.00630 9	$\alpha$ =0.00630 9; $\alpha$ (K)=0.00534 8; $\alpha$ (L)=0.000761 11; $\alpha$ (M)=0.0001566 23; $\alpha$ (N+)=3.75×10 <sup>-5</sup> 6

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 $^{121}_{55}\text{Cs}_{66}\text{-}4$ 

### (HI,xnyp $\gamma$ ) 1992Li22 (continued)

# $\gamma(^{121}Cs)$ (continued)

Eγ	$I_{\gamma}$	E <sub>i</sub> (level)	$\mathbf{J}_i^\pi$	$E_f$	$\mathbf{J}_f^\pi$	Mult. <sup>#</sup>	α <sup>@</sup>	Comments
								$\alpha$ (N)=3.28×10 <sup>-5</sup> 5; $\alpha$ (O)=4.45×10 <sup>-6</sup> 7; $\alpha$ (P)=1.94×10 <sup>-7</sup> 3 I <sub>γ</sub> : I <sub>γ</sub> (580.1 <sub>γ</sub> )+I <sub>γ</sub> (580.2 <sub>γ</sub> ). Mult.: anisotropy ratio(A)=1.5 2 for 580.1 <sub>γ</sub> +580.2 <sub>γ</sub> , anisotropy ratio(B)=1.9 2, RUL favors (E2) assignment.
587.5 5	17.0 16	2451.4	(23/2 <sup>+</sup> )	1863.9	(19/2 <sup>+</sup> )	Q		Mult.: anisotropy ratio(A)=1.5 <i>3</i> , anisotropy ratio(B)=1.2 <i>2</i> .
595+ <i>I</i> 614.9 <i>5</i>	90 7	3138.6 x+1372.0	(27/2 <sup>-</sup> ) (23/2 <sup>-</sup> )	2543.6 x+757.1	(23/2 <sup>-</sup> ) (19/2 <sup>-</sup> )	E2	0.00541 8	$\alpha$ =0.00541 8; $\alpha$ (K)=0.00460 7; $\alpha$ (L)=0.000647 10; $\alpha$ (M)=0.0001330 19; $\alpha$ (N+)=3.19×10 <sup>-5</sup> 5 $\alpha$ (N)=2.79×10 <sup>-5</sup> 4; $\alpha$ (O)=3.79×10 <sup>-6</sup> 6; $\alpha$ (P)=1.676×10 <sup>-7</sup> 24 Mult.: anisotropy ratio(A)=1.6 2, anisotropy ratio(B)=1.42 7, RUL consistent with E2.
630.9 5	24.0 21	1220.8	(17/2 <sup>+</sup> )	589.9	(13/2 <sup>+</sup> )	Q		Mult.: anisotropy ratio(A)=2.2 <i>3</i> , anisotropy ratio(B)=1.4 <i>1</i> .
657.6 <sup>‡</sup> 5		3482.2	$(29/2^{-})$	2824.9	$(25/2^{-})$	Q		Mult.: anisotropy ratio(B)=1.5 5.
666† 1	<31.1	1863.9	(19/2+)	1197.9	(15/2+)			Mult.: anisotropy ratio(A)=0.8 <i>l</i> for 666γ+667γ=31.1 22. I <sub>γ</sub> : Iγ(666γ)+Iγ(667γ).
667 <sup>†</sup> 1	31.1 22	3698.5	(31/2+)	3031.5	(27/2 <sup>+</sup> )	(Q)		Mult.: anisotropy ratio(A)=0.8 <i>I</i> for 666γ+667γ. L.: Ιν(666γ)+Ιν(667γ)=31.1.22
674.5 <sup>†</sup> 5	42 3	1568.1	(19/2+)	893.9	(15/2 <sup>+</sup> )	Q		Mult.: anisotropy ratio(A)=1.2 2, anisotropy ratio(B)=1.5 1.
708 <sup>&amp;</sup> 1	27.4 <sup>&amp;</sup> 22	1928.3	(21/2+)	1220.8	(17/2 <sup>+</sup> )	(Q)		Mult.: anisotropy ratio(A)=1.6 2 for doubly placed 708 $\gamma$ , anisotropy ratio(B)=1.5 1 for this transition.
708 <sup>&amp;</sup> 1	<27.4 <sup>&amp;</sup>	3369.7	(29/2+)	2661.5	(25/2 <sup>+</sup> )			Mult.: anisotropy ratio(A)=1.6 2 for doubly placed $708\gamma$ .
718 <sup>‡†</sup> 1		3856.8	$(31/2^{-})$	3138.6	$(27/2^{-})$			
724 <sup>4</sup> <i>1</i> 726.2 <i>5</i>	<99	3019.3 x+2098.2	(27/2 <sup>+</sup> ) (27/2 <sup>-</sup> )	2295.3 x+1372.0	$(23/2^+)$ $(23/2^-)$	Q (Q)		Mult.: anisotropy ratio(A)=1.5 <i>1</i> . $I_{\gamma}$ : $I_{\gamma}(726.2\gamma)+I_{\gamma}(727\gamma)=99$ 8. Mult.: anisotropy ratio(A)=1.7 2 for $726.2\gamma+727\gamma$ , anisotropy ratio(B)=1.5 <i>1</i> for 726.2 $\gamma$
727 1	<99	2295.3	(23/2+)	1568.1	(19/2+)	(Q)		$I_{\gamma}: I_{\gamma}(726.2\gamma) + I_{\gamma}(727\gamma) = 99 \ 8.$ Mult.: anisotropy ratio(A)=1.7 2 for 726.2 $\gamma$ +727 $\gamma$ , anisotropy ratio(B)=1.6 <i>I</i> for 727 $\gamma$
733.2 5	26.1 22	2661.5	(25/2+)	1928.3	$(21/2^+)$	Q		Mult.: anisotropy ratio(A)=1.8 <i>3</i> , anisotropy ratio(B)=1.6 <i>1</i> .
757†1	<34	3775.8	(31/2+)	3019.3	(27/2 <sup>+</sup> )	(Q)		I <sub><math>\gamma</math></sub> : I $\gamma$ (757 $\gamma$ )+I $\gamma$ (757.1 $\gamma$ )=34 3. Mult.: anisotropy ratio(A)=2.0 3 for 757 $\gamma$ +757.1 $\gamma$ , anisotropy ratio(B)=1.2 1 for 757 $\gamma$ .
757.1 <sup>†</sup> 1	<34	4455.6	(35/2+)	3698.5	(31/2+)	(Q)		$I_{\gamma}$ : I <sub>γ</sub> (757γ)+I <sub>γ</sub> (757.1γ)=34 3. Mult.: anisotropy ratio(A)=2.0 3 for 757γ+757.1γ, anisotropy ratio(B)=1.4 3 for 757.1γ.

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#### (HI,xnyp $\gamma$ ) **1992Li22** (continued)

# $\gamma(^{121}Cs)$ (continued)

Eγ	$I_{\gamma}$	E <sub>i</sub> (level)	$\mathbf{J}_i^{\pi}$	$E_f$	$\mathbf{J}_f^{\pi}$	Mult.#	Comments
774 <sup>†</sup> 1	61 5	4256.5	(33/2-)	3482.2	(29/2-)	Q	Mult.: anisotropy ratio(A)=1.8 <i>3</i> , anisotropy ratio(B)=1.3 <i>2</i> .
803 1	35 <i>3</i>	4172.7?	$(33/2^+)$	3369.7	$(29/2^+)$	Q	Mult.: anisotropy ratio(A)=1.9 3.
816.4 5	70 6	x+2914.6	(31/2 <sup>-</sup> )	x+2098.2	(27/2 <sup>-</sup> )	Q	Mult.: anisotropy ratio(A)=1.8 <i>3</i> , anisotropy ratio(B)=1.4 <i>1</i> .
828 <sup>‡</sup> 1		4683.8	$(35/2^{-})$	3856.8	$(31/2^{-})$		
838.8 5	17.5 15	5294.4	(39/2+)	4455.6	(35/2+)	Q	Mult.: anisotropy ratio(A)=1.8 <i>3</i> , anisotropy ratio(B)=1.2 <i>5</i> .
848 <sup>†a</sup> 1	26.7 24	4623?	$(35/2^+)$	3775.8	$(31/2^+)$	Q	Mult.: anisotropy ratio(A)=2.3 4.
857.4 <sup>‡</sup> 5		2077.5	$(19/2^{-})$	1220.8	$(17/2^+)$	(D)	Mult.: anisotropy ratio(B)=0.6 3; E1 assumed.
894.0 <sup>†</sup> 5	<52	x+3808.6	(35/2 <sup>-</sup> )	x+2914.6	(31/2 <sup>-</sup> )	(Q)	I <sub>γ</sub> : I <sub>γ</sub> (894.0γ)+I <sub>γ</sub> (895γ)=52 4. Mult.: anisotropy ratio(A)=1.5 2 for 894.0γ+895γ, anisotropy ratio(B)=1.2 <i>I</i> for 894.0γ.
895 <sup>†a</sup> 1	<51.6	5066.1?	(37/2 <sup>+</sup> )	4172.7?	(33/2 <sup>+</sup> )		$I_{\gamma}$ : Iγ(894.0γ)+Iγ(895γ)=52 4. Mult.: anisotropy ratio(A)=1.5 2 for 894.0γ+854γ.
921.9 <sup>‡</sup> 5		6216.3	$(43/2^+)$	5294.4	$(39/2^+)$		
968.3 5	39 <i>3</i>	x+4776.9	(39/2-)	x+3808.6	(35/2-)	Q	Mult.: anisotropy ratio(A)=1.9 <i>3</i> , anisotropy ratio(B)=1.4 <i>2</i> .
994.2 5	11.6 11	1888.8	(17/2 <sup>-</sup> )	893.9	(15/2 <sup>+</sup> )	D	Mult.: anisotropy ratio(A)=1.9 <i>3</i> , anisotropy ratio(B)=1.5 <i>2</i> ; E1 assumed.
1009.5 5	16.4 <i>16</i>	7225.8	$(47/2^+)$	6216.3	$(43/2^+)$	Q	Mult.: anisotropy ratio(A)=2.9 5.
1043.8 <sup>†</sup> 5	20.6 19	x+5820.7	(43/2 <sup>-</sup> )	x+4776.9	(39/2 <sup>-</sup> )	Q	Mult.: anisotropy ratio(A)=2.8 <i>4</i> , anisotropy ratio(B)=1.5 <i>4</i> .
1097.1 5	12.7 10	8322.9	$(51/2^+)$	7225.8	$(47/2^+)$	Q	Mult.: anisotropy ratio(A)=1.3 2.
1120 <sup>†</sup> 1	12.2 11	x+6940.7	(47/2 <sup>-</sup> )	x+5820.7	$(43/2^{-})$	Q	Mult.: anisotropy ratio(A)=1.4 2, anisotropy ratio(B)=2.3 5.
1189.3 <i>1</i>	8.1 8	9512.2	$(55/2^+)$	8322.9	$(51/2^+)$	Q	Mult.: anisotropy ratio(A)=2.3 4.
1204 1	7.6 7	x+8144.7	$(51/2^{-})$	x+6940.7	$(47/2^{-})$	Q	Mult.: anisotropy ratio(A)=1.8 3.
1284 <i>1</i>	7.0 5	10796.2	$(59/2^+)$	9512.2	$(55/2^+)$	Q	Mult.: anisotropy ratio(A)=1.7 5.
1294 <sup>‡</sup> 1		x+9438.7	$(55/2^{-})$	x+8144.7	$(51/2^{-})$		
1372 <sup>a</sup> 1	3.9 5	x+10811	$(59/2^{-})$	x+9438.7	$(55/2^{-})$	Q	Mult.: anisotropy ratio(A)=1.6 4.
1388 <sup>‡a</sup> 1		12184?	$(63/2^+)$	10796.2	$(59/2^+)$		

<sup>†</sup> Contaminated by other  $\gamma$ 's in (HI,xnyp $\gamma$ ) (1992Li22).

<sup> $\ddagger$ </sup> No intensity was given in (HI,xnyp $\gamma$ ) (1992Li22).

<sup>#</sup> From anisotropy ratios given in  $\gamma$  comments.

<sup>*@*</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

<sup>&</sup> Multiply placed with undivided intensity.

<sup>*a*</sup> Placement of transition in the level scheme is uncertain.



<sup>121</sup><sub>55</sub>Cs<sub>66</sub>

	Legend
Level Scheme (continued)	$\longrightarrow$ $I_{\gamma} < 2\% \times I_{\gamma}^{max}$
Intensities: Relative $I_{\gamma}$	$I_{\gamma} < 10\% \times I_{\gamma}^{max}$
& Multiply placed: undivided intensity given	$I_{\gamma} > 10\% \times I_{\gamma}^{max}$





<sup>121</sup><sub>55</sub>Cs<sub>66</sub>



<sup>121</sup><sub>55</sub>Cs<sub>66</sub>

#### (HI,xnyp $\gamma$ ) 1992Li22 (continued)



<sup>121</sup><sub>55</sub>Cs<sub>66</sub>