

$^{116}\text{Cd}(^{13}\text{C},3n\gamma)$     1993Se01,1988Li17

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya		NDS 180,1 (2022)	1-Oct-2021

1993Se01: E=44-60 MeV; enriched target (97.2%, 1.5 mg/cm<sup>2</sup>);  $\gamma$ ,  $\gamma\gamma$ ,  $\gamma(\theta)$ ,  $\gamma(\text{pol})$ , excit.

1988Li17:  $^{116}\text{Cd}(^{13}\text{C},3n\gamma)$ , E=52, 56, 60 MeV. Compton suppressed Ge detector,  $\gamma(\theta)$ , linear polarization. No  $I\gamma$  data given.  
Level scheme is those proposed by 1993Se01.

 $^{126}\text{Xe}$  Levels

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>
0.0 <sup>a</sup>	0 <sup>+</sup>
388.60 <sup>a</sup> 10	2 <sup>+</sup>
879.89 <sup>d</sup> 13	2 <sup>+</sup> #
942.07 <sup>a</sup> 13	4 <sup>+</sup> #
1317.68 <sup>c</sup> 15	3 <sup>+</sup> #
1488.38 <sup>d</sup> 16	4 <sup>+</sup> #
1635.05 <sup>a</sup> 15	6 <sup>+</sup>
1903.38 <sup>c</sup> 16	5 <sup>+</sup> #
2214.27 <sup>d</sup> 19	6 <sup>+</sup> #
2301.66 <sup>g</sup> 19	5(-)#
2435.66 <sup>a</sup> 17	8 <sup>+</sup>
2562.00 <sup>h</sup> 20	6 <sup>-</sup> #
2591.38 <sup>j</sup> 17	7 <sup>-</sup>
2661.39 <sup>c</sup> 23	7 <sup>+</sup> #
2677.84 <sup>g</sup> 19	7 <sup>-</sup>
2758.29 <sup>i</sup> 20	8 <sup>-</sup> #
2880.83 <sup>f</sup> 21	7 <sup>-</sup> #
3061.6 <sup>d</sup> 3	8 <sup>+</sup> #
3064.36 <sup>j</sup> 21	9 <sup>-</sup>
3094.16 <sup>h</sup> 22	(8 <sup>-</sup> )
3117.13 <sup>k</sup> 19	(8 <sup>+</sup> )#
3197.83 <sup>f</sup> 21	(8 <sup>-</sup> )#
3219.02 <sup>g</sup> 19	(9 <sup>-</sup> )
3294.51 <sup>e</sup> 24	9 <sup>-</sup> #
3314.06 <sup>b</sup> 24	10 <sup>+</sup>
3359.76 <sup>a</sup> 24	10 <sup>+</sup>
3383.73 <sup>k</sup> 25	(9 <sup>+</sup> )#
3446.45 <sup>i</sup> 23	10 <sup>-</sup>
3520.2 <sup>c</sup> 4	9 <sup>+</sup> #
3760.0 <sup>h</sup> 3	(10 <sup>-</sup> )#
3783.41 <sup>j</sup> 25	11 <sup>-</sup>
3875.11 <sup>f</sup> 25	(10 <sup>-</sup> )#
3884.7 <sup>b</sup> 3	12 <sup>+</sup>
3920.9 <sup>g</sup> 3	
3963.6 <sup>e</sup> 3	11 <sup>-</sup> #
3998.2 <sup>k</sup> 4	
4240.8 <sup>i</sup> 3	12 <sup>-</sup> #

$^{116}\text{Cd}(^{13}\text{C},3\text{n}\gamma)$  **1993Se01,1988Li17 (continued)** $^{126}\text{Xe}$  Levels (continued)

E(level) <sup>†</sup>	J <sup>‡</sup>	Comments
4274.4 <sup>a</sup> 3	12+ <sup>#</sup>	
4532.4 <sup>b</sup> 4	(12-) <sup>#</sup>	
4567.0 <sup>j</sup> 4	13- <sup>#</sup>	
4597.0@ <sup>f</sup> 3	(12-) <sup>#</sup>	
4619.8 <sup>b</sup> 4	14+ <sup>#</sup>	
4700.8@ 4		
4732.7 <sup>g</sup> 4	13- <sup>#</sup>	
4737.5 4	13- <sup>#</sup>	
4769.0 <sup>k</sup> 5		
5090.0& 5	14+ <sup>#</sup>	
5097.7 <sup>i</sup> 5	14- <sup>#</sup>	
5392.9 <sup>j</sup> 5	15- <sup>#</sup>	
5508.9 <sup>b</sup> 5	16+ <sup>#</sup>	
5636.6 5		
5694.6@ 5		
5923.1& 5	16+ <sup>#</sup>	
6014.0 <sup>i</sup> 6	16- <sup>#</sup>	
6249.1 <sup>j</sup> 5	17- <sup>#</sup>	
6509.7 <sup>b</sup> 7	18+ <sup>#</sup>	
6597.6 <sup>l</sup>	16+ <sup>#</sup>	E(level): From Adopted Levels. No connection to any other levels is observed, but from the coincidence analysis this level decays via unobserved transitions to 10 <sup>+</sup> levels (3360 and 3314 keV) ( <b>1988Li17</b> ).
6878 <sup>l</sup>	17(+) <sup>#</sup>	
7186.1 <sup>j</sup> 6	19- <sup>#</sup>	
7254 <sup>l</sup>	18(+) <sup>#</sup>	
7587.3 <sup>b</sup> 7	20+ <sup>#</sup>	
7617 <sup>l</sup>	19(+) <sup>#</sup>	
8039 <sup>l</sup>	20(+) <sup>#</sup>	
8435 <sup>l</sup>	21(+) <sup>#</sup>	
8745.1@ 8	22+ <sup>#</sup>	

<sup>†</sup> E(levels) are based on a least-squares fit (by evaluators) to the E $\gamma$ 's.

<sup>‡</sup> From  $\gamma(\theta)$  and  $\gamma(\text{pol})$ , unless where from Adopted Levels as noted.

# From Adopted Levels.

@ **1993Se01** only.

& Band(A): Band 1,  $(\pi,\alpha)=(+,0)$ , based on configuration=( $\pi h_{11/2}$ )<sup>2</sup>.

<sup>a</sup> Band(B): band 2, ground-state band,  $(\pi,\alpha)=(+,0)$ .

<sup>b</sup> Band(C): Band 3,  $(\pi,\alpha)=(+,0)$ , based on configuration=( $\nu h_{11/2}$ )<sup>2</sup>.

<sup>c</sup> Band(D): band 4,  $(\pi,\alpha)=(+,1)$  quasi- $\gamma$  band.

<sup>d</sup> Band(E): band 5,  $(\pi,\alpha)=(+,0)$  quasi- $\gamma$  band.

<sup>e</sup> Band(F): Band 8,  $(\pi,\alpha)=(-,1)$ , signature partner of band 9, low K, based on  $\nu(h_{11/2}+g_{7/2})$  or  $\pi(h_{11/2}+d_{5/2})$ .

<sup>f</sup> Band(G): Band 9,  $(\pi,\alpha)=(-,0)$ , signature partner of band 8, low K, based on  $\nu(h_{11/2}+g_{7/2})$  or  $\pi(h_{11/2}+d_{5/2})$ .

<sup>g</sup> Band(H): Band 10,  $(\pi,\alpha)=(-,1)$ , signature partner of band 11, low K, based on  $\nu(h_{11/2}+g_{7/2})$  or  $\pi(h_{11/2}+d_{5/2})$ .

<sup>h</sup> Band(I): Band 11,  $(\pi,\alpha)=(-,0)$ , signature partner of band 10, low K, based on  $\nu(h_{11/2}+g_{7/2})$  or  $\pi(h_{11/2}+d_{5/2})$ .

<sup>i</sup> Band(J): Band 12,  $(\pi,\alpha)=(-,0)$ , coupled band with band 13, high K, based on  $\nu(h_{11/2}+g_{7/2})$ .

**$^{116}\text{Cd}(^{13}\text{C},3n\gamma)$  1993Se01,1988Li17 (continued)** **$^{126}\text{Xe}$  Levels (continued)**<sup>j</sup> Band(K): Band 13,  $(\pi,\alpha)=(-,1)$ , coupled band with band 12, high K, based on  $\nu(h_{11/2}+g_{7/2})$ .<sup>k</sup> Band(L): band 14, band member based on 3117-keV level.<sup>l</sup> Band(M): Band 15, band member based on a level of unknown level energy. **$\gamma(^{126}\text{Xe})$** 

$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.	$\alpha^\#$	Comments
166.9 1	7 2	2758.29	8 <sup>-</sup>	2591.38	7 <sup>-</sup>			A <sub>2</sub> =-0.415 7, A <sub>4</sub> =+0.269 9 ( <a href="#">1993Se01</a> ).
233.0 2	1.02 9	3294.51	9 <sup>-</sup>	3061.6	8 <sup>+</sup>			A <sub>2</sub> =-0.11 8, A <sub>4</sub> =-0.0 1 ( <a href="#">1993Se01</a> ).
260.6 2	0.22 7	2562.00	6 <sup>-</sup>	2301.66	5 <sup>(-)</sup>			
266.7 2	1.01 9	3383.73	(9 <sup>+</sup> )	3117.13	(8 <sup>+</sup> )			A <sub>2</sub> =-0.69 9, A <sub>4</sub> =-0.0 1 ( <a href="#">1993Se01</a> ).
268.4 2		1903.38	5 <sup>+</sup>	1635.05	6 <sup>+</sup>			Not reported in <a href="#">1988Li17</a> .
280 <sup>‡</sup>		6878	17 <sup>(+)</sup>	6597.6	16 <sup>+</sup>			
289.8 2	0.38 7	2591.38	7 <sup>-</sup>	2301.66	5 <sup>(-)</sup>			
306.1 1	7.5 2	3064.36	9 <sup>-</sup>	2758.29	8 <sup>-</sup>	M1,E2	0.0392 2	A <sub>2</sub> =-0.96 2, A <sub>4</sub> =+0.182 2; pol.= -0.3 1 ( <a href="#">1993Se01</a> ). <a href="#">1993Se01</a> gives A <sub>4</sub> =+0.182 2 but it is likely 0.18 2.
317.1 2	1.02 9	3197.83	(8 <sup>-</sup> )	2880.83	7 <sup>-</sup>			
336.9 2	1.30 9	3783.41	11 <sup>-</sup>	3446.45	10 <sup>-</sup>			
363 <sup>‡</sup>		7617	19 <sup>(+)</sup>	7254	18 <sup>(+)</sup>			
375.5 2		1317.68	3 <sup>+</sup>	942.07	4 <sup>+</sup>			
376 <sup>‡</sup>		7254	18 <sup>(+)</sup>	6878	17 <sup>(+)</sup>			
376.2 2	$\leq 2.4$	2677.84	7 <sup>-</sup>	2301.66	5 <sup>(-)</sup>			I <sub>γ</sub> : The authors give $\leq 2.3$ 1.
377.2 3	$\leq 2.4$	2591.38	7 <sup>-</sup>	2214.27	6 <sup>+</sup>			I <sub>γ</sub> : The authors give $\leq 2.3$ 1.
382.2 2	3.1 1	3446.45	10 <sup>-</sup>	3064.36	9 <sup>-</sup>	M1,E2	0.0208 12	A <sub>2</sub> =-0.9 5, A <sub>4</sub> =+0.05 6; pol.=+0.3 2 ( <a href="#">1993Se01</a> ).
388.6 1	100.0 8	388.60	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2	0.0187	A <sub>2</sub> =+0.246 2, A <sub>4</sub> =-0.012 2; pol.=+0.44 3 ( <a href="#">1993Se01</a> ).
396 <sup>‡</sup>		8435	21 <sup>(+)</sup>	8039	20 <sup>(+)</sup>			
413.5 2	3.7 1	3294.51	9 <sup>-</sup>	2880.83	7 <sup>-</sup>	(E2)	0.0155	A <sub>2</sub> =+0.31 3, A <sub>4</sub> =-0.02 4; pol.=+0.5 2 ( <a href="#">1993Se01</a> ).
415.1 2	1.6 1	1903.38	5 <sup>+</sup>	1488.38	4 <sup>+</sup>			
416.3 2		3094.16	(8 <sup>-</sup> )	2677.84	7 <sup>-</sup>			
422 <sup>‡</sup>		8039	20 <sup>(+)</sup>	7617	19 <sup>(+)</sup>			
437.8 2	1.33 9	1317.68	3 <sup>+</sup>	879.89	2 <sup>+</sup>			
457.4 3	1.8 1	4240.8	12 <sup>-</sup>	3783.41	11 <sup>-</sup>			
473.0 2	3.7 1	3064.36	9 <sup>-</sup>	2591.38	7 <sup>-</sup>			
491.3 2	5.9 2	879.89	2 <sup>+</sup>	388.60	2 <sup>+</sup>			
524.9 2	8.8 2	3884.7	12 <sup>+</sup>	3359.76	10 <sup>+</sup>			
532.1 2	1.22 9	3094.16	(8 <sup>-</sup> )	2562.00	6 <sup>-</sup>	(Q)		A <sub>2</sub> =+0.24 8, A <sub>4</sub> =-0.08 9 ( <a href="#">1993Se01</a> ).
541.1 2	$\leq 6.0$	3219.02	(9 <sup>-</sup> )	2677.84	7 <sup>-</sup>	(E2)		A <sub>2</sub> =+0.24 2, A <sub>4</sub> =-0.05 3; pol.=+1.1 4 ( <a href="#">1993Se01</a> ).
541.2 3	$\leq 6.0$	3760.0	(10 <sup>-</sup> )	3219.02	(9 <sup>-</sup> )			I <sub>γ</sub> : The authors give $\leq 5.8$ 2.
546.4 2	1.8 1	1488.38	4 <sup>+</sup>	942.07	4 <sup>+</sup>			
553.4 1	97 1	942.07	4 <sup>+</sup>	388.60	2 <sup>+</sup>			
570.6 2	11.5 2	3884.7	12 <sup>+</sup>	3314.06	10 <sup>+</sup>	E2		A <sub>2</sub> =+0.38 3, A <sub>4</sub> =-0.23 3; pol.=+1.0 1 ( <a href="#">1993Se01</a> ).
579.3 2	$\leq 2.1$	2214.27	6 <sup>+</sup>	1635.05	6 <sup>+</sup>			I <sub>γ</sub> : The authors give $\leq 2.0$ 1.
580.4 2	$\leq 2.1$	3875.11	(10 <sup>-</sup> )	3294.51	9 <sup>-</sup>			I <sub>γ</sub> : The authors give $\leq 2.0$ 1.
585.8 2	4.3 1	1903.38	5 <sup>+</sup>	1317.68	3 <sup>+</sup>			

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**$^{116}\text{Cd}(^{13}\text{C},3\text{n}\gamma)$  1993Se01,1988Li17 (continued)** **$\gamma(^{126}\text{Xe})$  (continued)**

$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.	Comments
608.5 2	3.6 1	1488.38	4 <sup>+</sup>	879.89	2 <sup>+</sup>		
614.5 3	1.27 9	3998.2		3383.73	(9 <sup>+</sup> )		
633.4 2	1.40 9	4597.0	(12 <sup>-</sup> )	3963.6	11 <sup>-</sup>		
658.8 2	1.5 1	2562.00	6 <sup>-</sup>	1903.38	5 <sup>+</sup>		
665.8 2	0.60 8	3760.0	(10 <sup>-</sup> )	3094.16	(8 <sup>-</sup> )		
669.2 2	5.2 2	3963.6	11 <sup>-</sup>	3294.51	9 <sup>-</sup>		
677.4 2	0.62 8	3875.11	(10 <sup>-</sup> )	3197.83	(8 <sup>-</sup> )		
681.5 2	1.39 9	3117.13	(8 <sup>+</sup> )	2435.66	8 <sup>+</sup>		
688.0 2	6.4 2	3446.45	10 <sup>-</sup>	2758.29	8 <sup>-</sup>		
693.0 1	85 1	1635.05	6 <sup>+</sup>	942.07	4 <sup>+</sup>	E2	$A_2=+0.249$ 2, $A=-0.026$ 3; pol.=+0.49 2 ( <a href="#">1993Se01</a> ).
701.9 2	5.4 2	3920.9		3219.02	(9 <sup>-</sup> )		$A_2=+0.10$ 1, $A_4=+0.03$ 2; pol.=+0.5 1 ( <a href="#">1993Se01</a> ).
719.1 2	7.2 2	3783.41	11 <sup>-</sup>	3064.36	9 <sup>-</sup>	E2	$A_2=+0.32$ 2, $A_4=-0.02$ 2; pol.=+0.63 8 ( <a href="#">1993Se01</a> ).
721.8 2		4597.0	(12 <sup>-</sup> )	3875.11	(10 <sup>-</sup> )		
722.1 3		3383.73	(9 <sup>+</sup> )	2661.39	7 <sup>+</sup>		
725.9 2	3.8 1	2214.27	6 <sup>+</sup>	1488.38	4 <sup>+</sup>		
735.1 3	12.9 2	4619.8	14 <sup>+</sup>	3884.7	12 <sup>+</sup>		
737.2 2	5.3 2	4700.8		3963.6	11 <sup>-</sup>		
739 <sup>‡</sup>		7617	19 <sup>(+)</sup>	6878	17 <sup>(+)</sup>		
757.9 2	3.5 1	2661.39	7 <sup>+</sup>	1903.38	5 <sup>+</sup>		
762.3 2		3197.83	(8 <sup>-</sup> )	2435.66	8 <sup>+</sup>		
770.8 2	0.94 8	4769.0		3998.2			
772.4 3	3.5 1	4532.4	(12 <sup>-</sup> )	3760.0	(10 <sup>-</sup> )		
783.4 2	12.3 2	3219.02	(9 <sup>-</sup> )	2435.66	8 <sup>+</sup>		
783.6 3	12.3 2	4567.0	13 <sup>-</sup>	3783.41	11 <sup>-</sup>		
794.4 2	4.1 1	4240.8	12 <sup>-</sup>	3446.45	10 <sup>-</sup>		$A_2=+0.23$ 3, $A_4=+0.09$ 4; pol.=+0.3 2 ( <a href="#">1993Se01</a> ).
800.7 1	48.5 6	2435.66	8 <sup>+</sup>	1635.05	6 <sup>+</sup>	E2	$A_2=+0.331$ 4, $A_4=-0.055$ 5; pol.=+0.52 3 ( <a href="#">1993Se01</a> ).
811.8 2	2.8 1	4732.7	13 <sup>-</sup>	3920.9			
815.6 3	$\leq 1$	5090.0	14 <sup>+</sup>	4274.4	12 <sup>+</sup>		
816.6 3	$\leq 1$	4737.5	13 <sup>-</sup>	3920.9			
818 <sup>‡</sup>		8435	21 <sup>(+)</sup>	7617	19 <sup>(+)</sup>		
825.9 2	4.9 1	5392.9	15 <sup>-</sup>	4567.0	13 <sup>-</sup>		$A_2=+0.10$ 4, $A_4=+0.12$ 5; pol.=+0.4 2 ( <a href="#">1993Se01</a> ).
833.1 2	2.5 1	5923.1	16 <sup>+</sup>	5090.0	14 <sup>+</sup>		
847.4 3	2.1 1	3061.6	8 <sup>+</sup>	2214.27	6 <sup>+</sup>		
856.2 2	$\leq 1$	6249.1	17 <sup>-</sup>	5392.9	15 <sup>-</sup>		
856.9 4	$\leq 1$	5097.7	14 <sup>-</sup>	4240.8	12 <sup>-</sup>		$A_2=+0.19$ 3, $A_4=+0.02$ 3; pol.=+0.16 9 ( <a href="#">1993Se01</a> ).
858.8 3		3520.2	9 <sup>+</sup>	2661.39	7 <sup>+</sup>		
878.4 2	20 3	3314.06	10 <sup>+</sup>	2435.66	8 <sup>+</sup>	E2	$A_2=+0.409$ 8, $A_4=-0.01$ 1; pol.=+0.38 5 ( <a href="#">1993Se01</a> ).
879.9 2		879.89	2 <sup>+</sup>	0.0	0 <sup>+</sup>		
889.1 3	5.9 2	5508.9	16 <sup>+</sup>	4619.8	14 <sup>+</sup>	(E2)	$A_2=+0.22$ 3, $A_4=+0.04$ 4; pol.=+0.81 9 ( <a href="#">1993Se01</a> ).
914.6 3	2.3 1	4274.4	12 <sup>+</sup>	3359.76	10 <sup>+</sup>	(E2)	$A_2=+0.31$ 6, $A_4=+0.06$ 7; pol.=+1.0 3 ( <a href="#">1993Se01</a> ).
916.3 2		6014.0	16 <sup>-</sup>	5097.7	14 <sup>-</sup>		
924.1 2	15.7 3	3359.76	10 <sup>+</sup>	2435.66	8 <sup>+</sup>	E2	$A_2=+0.30$ 1, $A_4=-0.02$ 1; pol.=+0.55 9 ( <a href="#">1993Se01</a> ).
925.6 2		5694.6		4769.0			
929.3 2	2.2 1	1317.68	3 <sup>+</sup>	388.60	2 <sup>+</sup>		
937.0 2		7186.1	19 <sup>-</sup>	6249.1	17 <sup>-</sup>		
956.3 1	19.5 3	2591.38	7 <sup>-</sup>	1635.05	6 <sup>+</sup>	E1	$A_2=-0.213$ 8, $A_4=+0.03$ 1; pol.=+0.20 5 ( <a href="#">1993Se01</a> ).
960.3 3	$\leq 2$	4274.4	12 <sup>+</sup>	3314.06	10 <sup>+</sup>	(E2)	$A_2=+0.17$ 4, $A_4=-0.02$ 4; pol.=+0.9 4 ( <a href="#">1993Se01</a> ).
961.1 2	$\leq 2$	1903.38	5 <sup>+</sup>	942.07	4 <sup>+</sup>		
1000.8 4	1.6 1	6509.7	18 <sup>+</sup>	5508.9	16 <sup>+</sup>		$A_2=-0.6$ 1, $A_4=+0.5$ 1; pol.=+0.7 1 ( <a href="#">1993Se01</a> ).
1016.8 3		5636.6		4619.8	14 <sup>+</sup>		$A_2=+0.1$ 1, $A_4=-0.5$ 2 ( <a href="#">1993Se01</a> ).
1042.6 2	8.1 2	2677.84	7 <sup>-</sup>	1635.05	6 <sup>+</sup>	E1	$A_2=-0.2$ 2, $A_4=+0.01$ 2; pol.=+0.27 8 ( <a href="#">1993Se01</a> ).
1077.6 3		7587.3	20 <sup>+</sup>	6509.7	18 <sup>+</sup>		
1157.8 3	0.61 8	8745.1	22 <sup>+</sup>	7587.3	20 <sup>+</sup>		
1245.6 2	4.2 1	2880.83	7 <sup>-</sup>	1635.05	6 <sup>+</sup>		
1358.6 7	1.28 9	2301.66	5 <sup>(-)</sup>	942.07	4 <sup>+</sup>		

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 $^{116}\text{Cd}(^{13}\text{C},3n\gamma)$     **1993Se01,1988Li17 (continued)** $\gamma(^{126}\text{Xe})$  (continued)

<sup>†</sup> From [1993Se01](#), unless otherwise noted.

<sup>‡</sup> From [1988Li17](#).

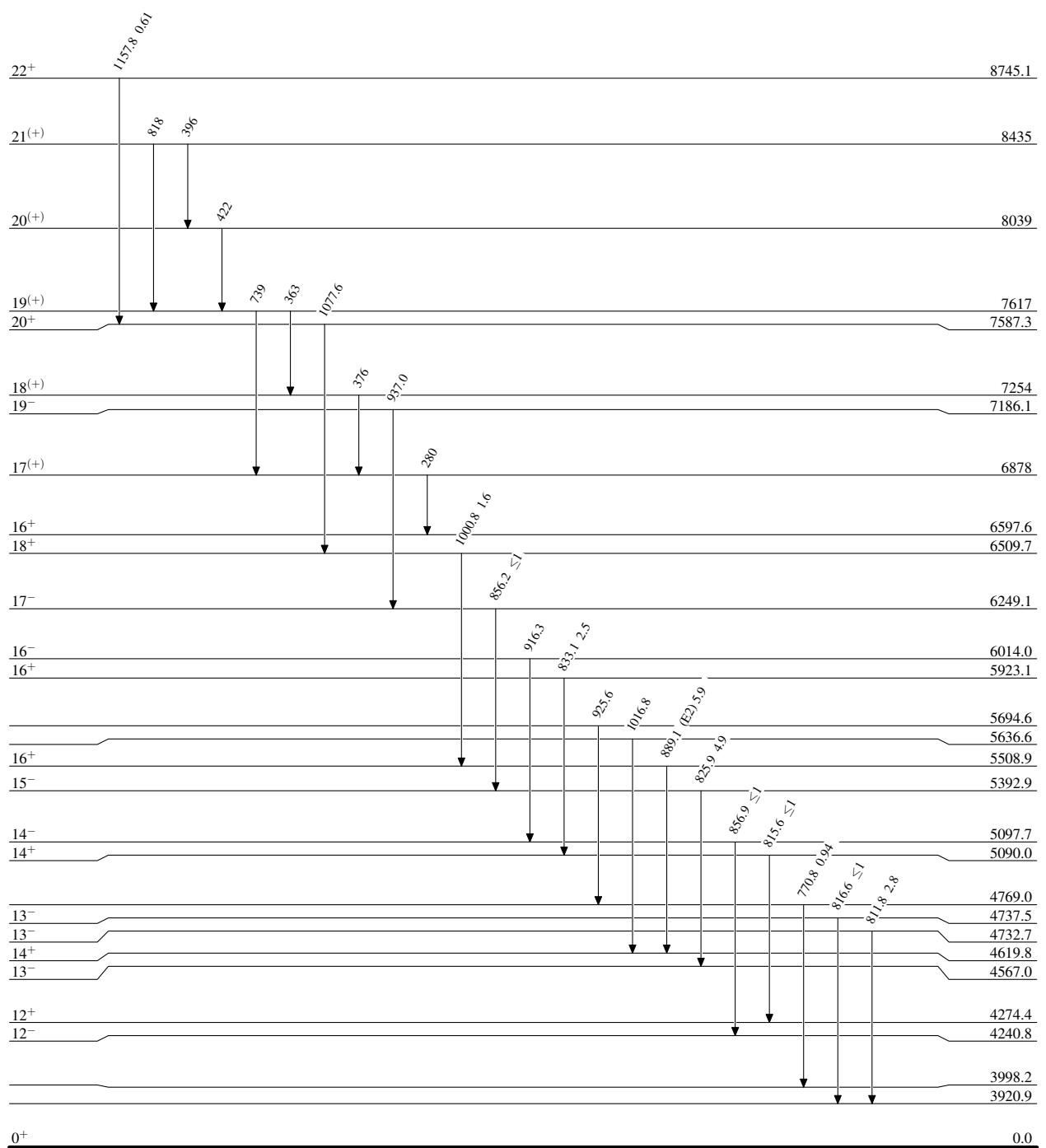
<sup>#</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^{116}\text{Cd}(\text{C},\text{3n}\gamma)$     1993Se01, 1988Li17

## Legend

Level Scheme  
 Intensities: Relative  $I_\gamma$

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



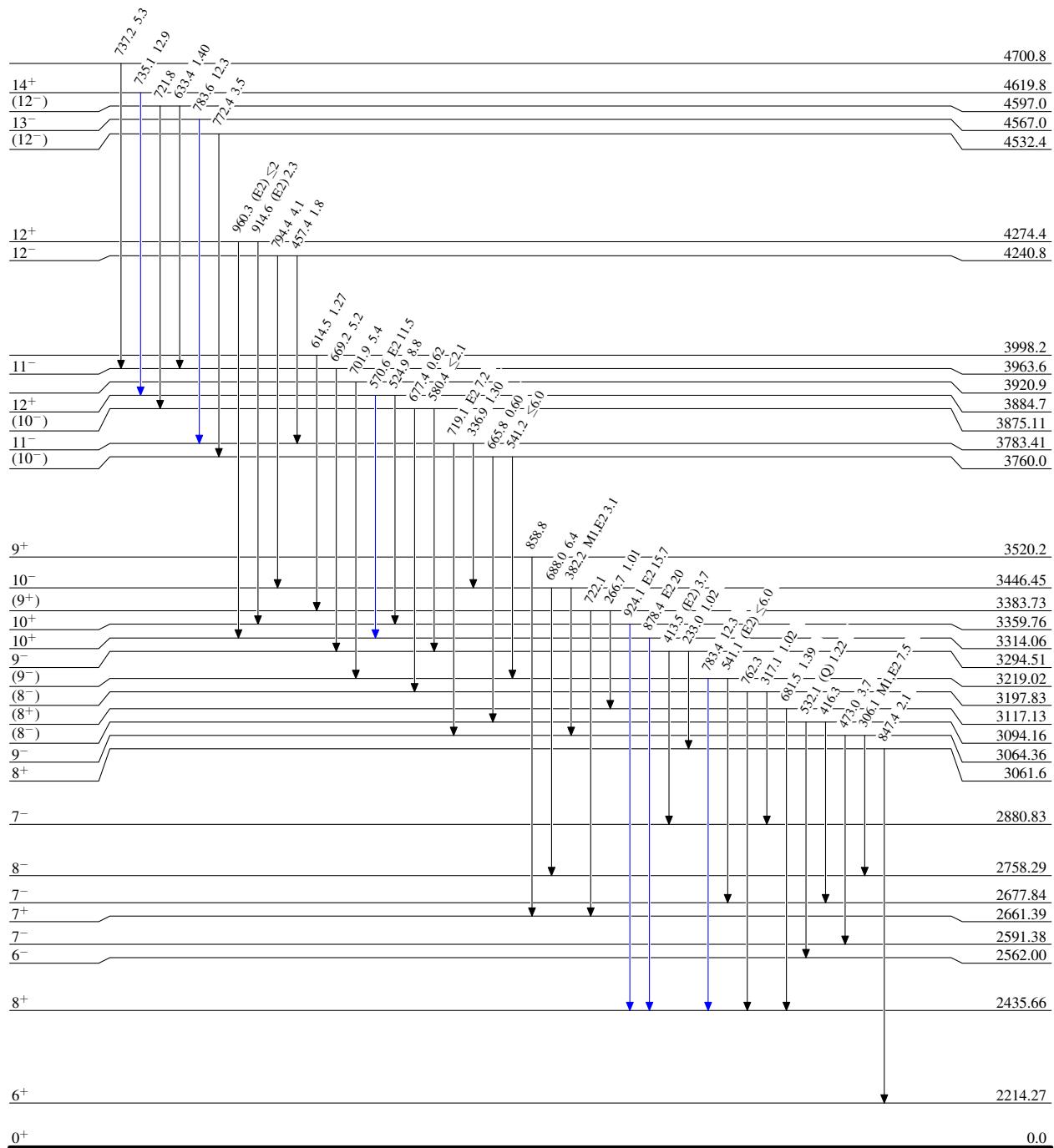
$^{116}\text{Cd}(\text{C}^{13}, 3\text{n}\gamma) \quad 1993\text{Se01, 1988Li17}$ 

## Legend

## Level Scheme (continued)

Intensities: Relative  $I_\gamma$ 

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



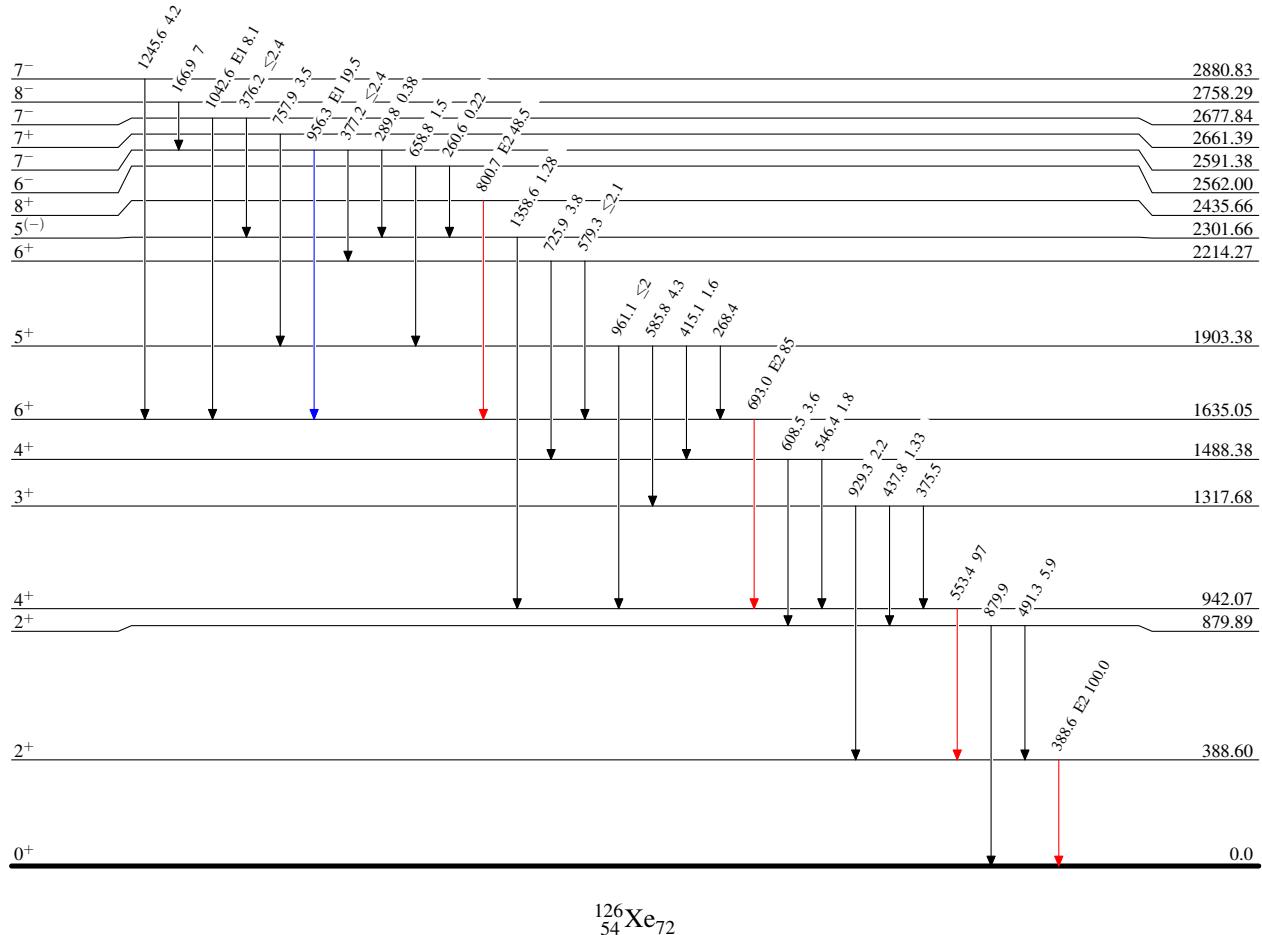
$^{116}\text{Cd}(\text{C}^{13},\text{3n}\gamma)$  1993Se01,1988Li17

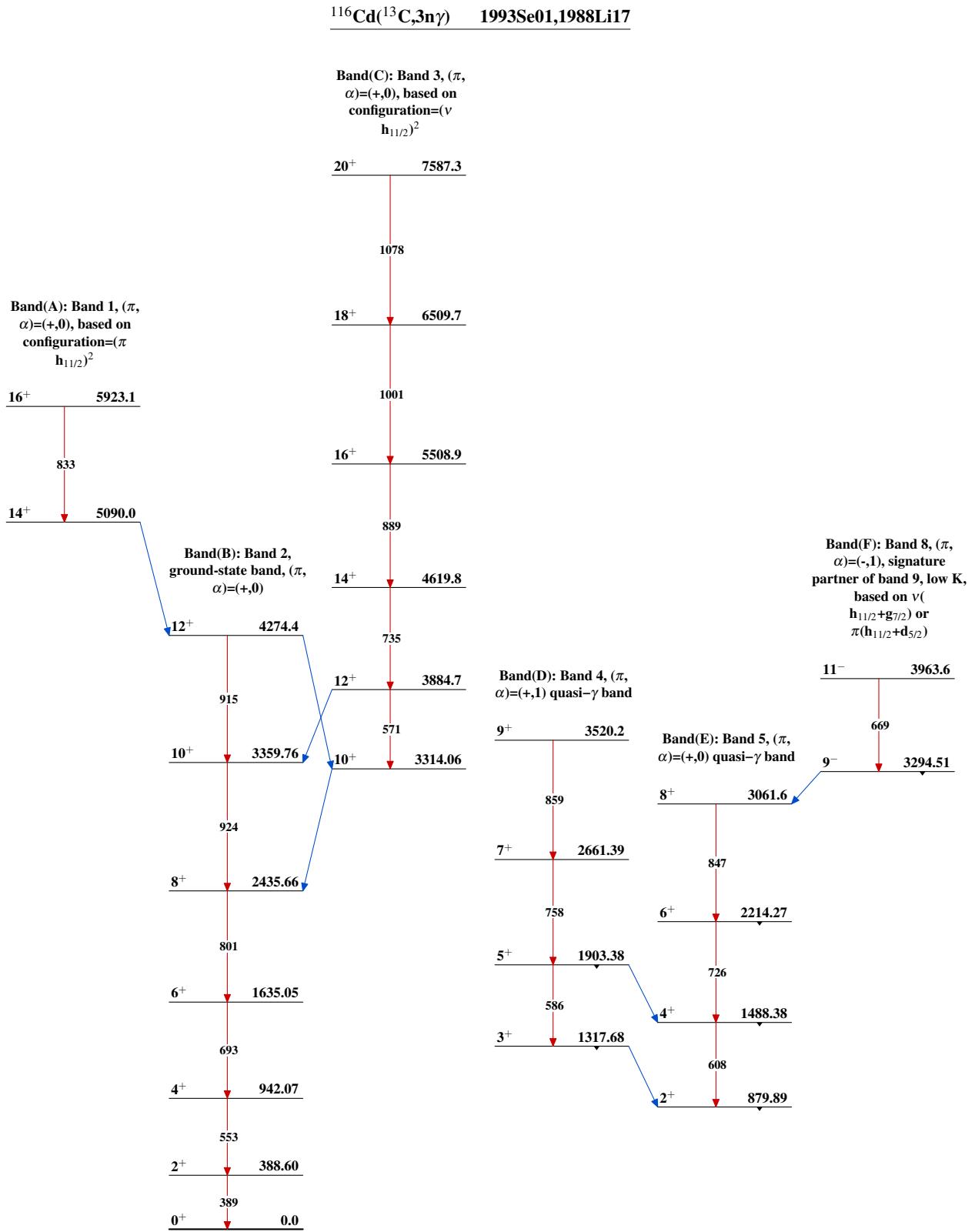
## Legend

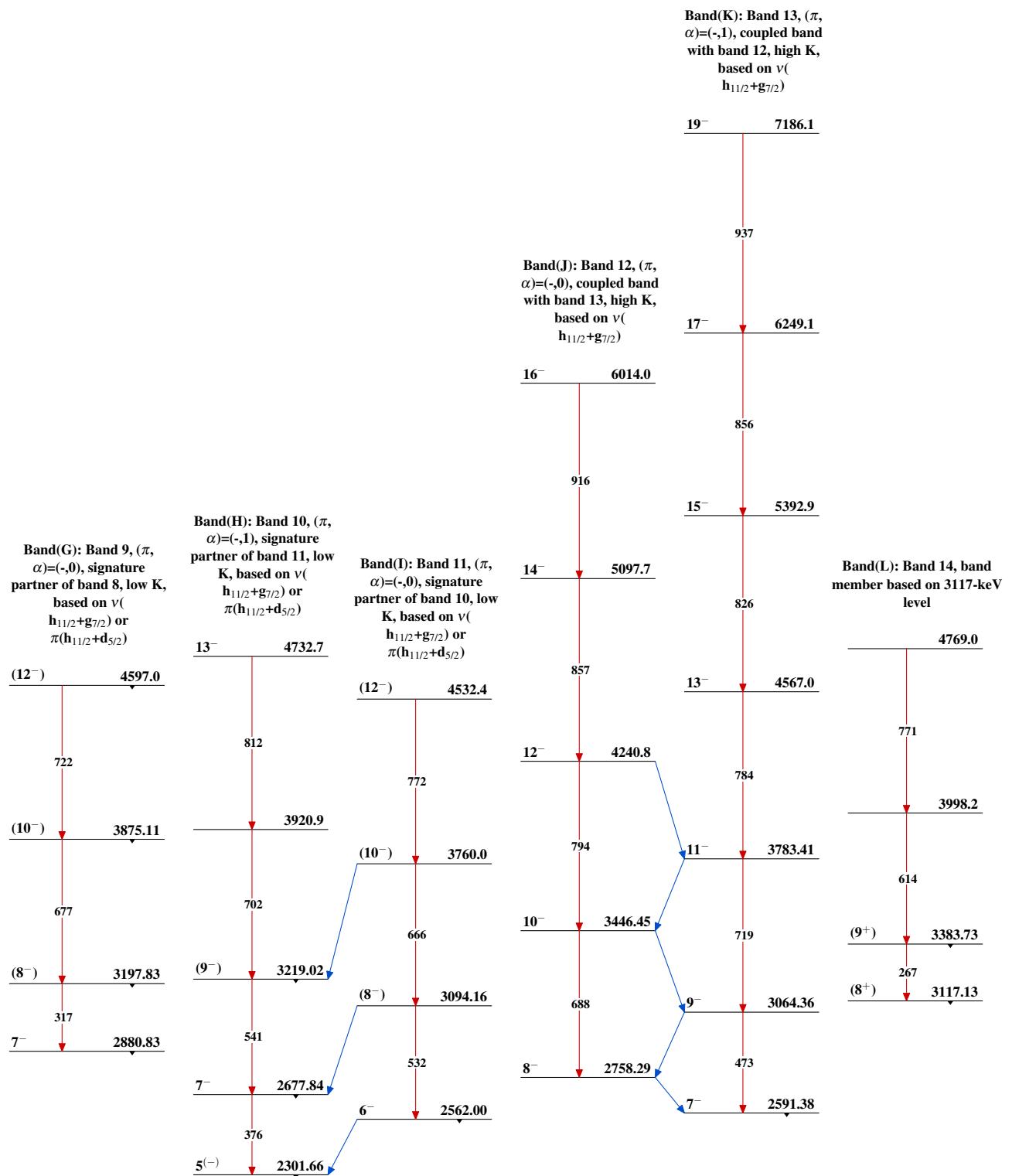
## Level Scheme (continued)

Intensities: Relative  $I_\gamma$ 

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





$^{116}\text{Cd}(\text{C},\text{n}\gamma)$  1993Se01, 1988Li17 (continued)

$^{116}\text{Cd}(^{13}\text{C},3n\gamma)$     1993Se01,1988Li17 (continued)

Band(M): Band 15, band  
member based on a level  
of unknown level energy

