

$^{107}\text{Ag}(\text{p},\text{n}\gamma)$  1990Vi07,1973Ny03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)	1-Mar-2008

1990Vi07: E(p)=6.8 MeV; measured E $\gamma$ ,  $\gamma\gamma$ -coin.

1973Ny03: E(p)=3-12 MeV; measured E $\gamma$ , I $\gamma$ , I(ce),  $\gamma\gamma$ -coin, excit.

1974Ha41: E(p)=10 MeV; measured E $\gamma$ , I $\gamma$  of prominent transitions.

1974Be17: E(p)=7 MeV; measured  $\gamma(\theta, \text{H}, \text{t})$ ,  $\gamma(\text{t})$  pulsed p.

E(level): low-lying  $1/2^+$  states occur in  $^{109}\text{Cd}$ ,  $^{111}\text{Cd}$  at 60, 0 keV, respectively. Corresponds with L=0 excitation at 457 keV, in (d,p). 1973Ny03 looked for this level but did not see it.

 $^{107}\text{Cd}$  Levels

Branching: I $\gamma(300\gamma)$ /I $\gamma(505\gamma)$ =0.020 (6-MeV p), 0.012 (11-MeV p).

1976Do01 propose band structure of s $1/2$  neutron coupled to  $^{106}\text{Cd}$  core; E(levels) compared (exp vs theory).

E(level) <sup>†</sup>	J $\pi^{\ddagger}$	T $_{1/2}$	Comments
0.0	5/2 <sup>+</sup>	6.50 h 2	
204.92 3	7/2 <sup>+</sup>		
320.97 3	5/2 <sup>+</sup>		
365.2 3	3/2 <sup>+</sup>		
457.68 6	(1/2 <sup>+</sup> )		
505.43 4	7/2 <sup>+</sup>		
702.60 6	(3/2 <sup>+</sup> )		Branching: I $\gamma(381\gamma)$ /I $\gamma(702\gamma)$ =0.17 (6-MeV p), 0.18 (11-MeV p).
809.01 5	9/2 <sup>+</sup>		Branching: I $\gamma(303\gamma)$ :I $\gamma(604\gamma)$ :I $\gamma(809\gamma)$ =20:34:100 (6-MeV p), 14:37:100 (11-MeV p), 26:45:100 (10-MeV p).
840.2 3	(3/2 <sup>+</sup> )		Branching: I $\gamma(840\gamma)$ /I $\gamma(519\gamma)$ ≈0.94 (6-MeV p), ≈1.1 (11-MeV p).
845.51 8	11/2 <sup>-</sup>		T $_{1/2}$ : for T $_{1/2}$ data of 1974Be17 see ( $\alpha, \text{xny}$ ).
905.59 7	1/2 <sup>+</sup>		Probably corresponds with L=0 (d,p) excitation at 911 keV.
919.38 8	(5/2 <sup>+</sup> )		Branching: I $\gamma(905\gamma)$ /I $\gamma(540\gamma)$ =0.75 (6-MeV p), 0.82 (11-MeV p).
921.62 7	(9/2 <sup>+</sup> )		Branching: I $\gamma(554\gamma)$ /I $\gamma(414\gamma)$ =0.92 (6-MeV p), 0.84 (11-MeV p).
			Branching: I $\gamma(922\gamma)$ /I $\gamma(416\gamma)$ =0.63 (6-MeV p), 0.95 (11-MeV p), 0.40 (10-MeV p). Deviation is attributed to $\gamma$ -ray doublets.
932.96 7	11/2 <sup>+</sup>		
998.43 7	(5/2 <sup>+</sup> )		Branching: I $\gamma(678\gamma)$ :I $\gamma(794\gamma)$ :I $\gamma(999\gamma)$ =10:15:100 (6-MeV p), 14/16/100 (11-MeV p).
1059.49 8	(5/2 <sup>-</sup> )		Branching: I $\gamma(738\gamma)$ /I $\gamma(1059\gamma)$ =0.16 (6-MeV p), 0.14 (11-MeV p).
1158.45 12	(5/2 <sup>+</sup> )		Branching: I $\gamma(1158\gamma)$ /I $\gamma(954\gamma)$ =0.21 (6-MeV p), 0.39 (11-MeV p).
1213.52 6	(3/2 <sup>+</sup> , 5/2 <sup>+</sup> )		
1236.08 6	(3/2, 5/2, 7/2)		
1244.59 6	3/2 <sup>+</sup> , 5/2 <sup>+</sup>		
1268.40 6	7/2 <sup>+</sup>		
1278.95 7	(1/2, 3/2, 5/2)		
1319.55 8	(5/2, 7/2)		
1377.6 3	7/2 <sup>+</sup>		Branching: I $\gamma(456\gamma)$ /I $\gamma(1377\gamma)$ =0.88 (6-MeV p), 0.91 (11-MeV p).
1420.45 9	(11/2 <sup>+</sup> )		Branching: I $\gamma(611\gamma)$ /I $\gamma(915\gamma)$ =0.37 (6-MeV p), 0.54 (11-MeV p).
1525.55 10	(3/2, 5/2, 7/2)		
1530.53 10			
1573.14 8	(3/2, 5/2)		
1590.72 8	(3/2 <sup>+</sup> , 5/2 <sup>+</sup> )		
1645.81 10			
1675.3 3			
1712.6 3			
1719.43 8	(3/2, 5/2)		
1763.93 10			
1776.19 13	7/2 <sup>+</sup>		

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$^{107}\text{Ag}(p,n\gamma)$  **1990Vi07,1973Ny03 (continued)** $^{107}\text{Cd}$  Levels (continued)

E(level) <sup>†</sup>	E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	E(level) <sup>†</sup>
1780.8 4	1962.94 21		2209.97 8		2421.6 4
1869.87 9	2006.74 21	7/2 <sup>+</sup>	2256.9 3		2447.62 12
1876.71 10	2082.20 12		2285.3 4	(7/2 <sup>+</sup> )	2462.54 11
1885.32 15	2146.11 9		2304.69 11	(7/2 <sup>+</sup> )	2583.95 11
1909.18 11	2158.68 8		2309.59 11		
1920.18 21	2204.06 11		2342.86 11		

<sup>†</sup> Level energy from least-squares adjustment.

<sup>‡</sup> As given by [1990Vi07](#), [1991Vi07](#).

 $\gamma(^{107}\text{Cd})$ 

$\alpha(K)\text{exp}=\text{ce}(K)/I_\gamma$ , measured on-line at  $E(p)=11$  MeV, are normalized to  $\alpha(K)(205\gamma)=0.059$  (M1 + 6% E2 theory). See [1973Ny03](#), [1973Jo06](#) for ce spectra.

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^@$	$E_f$	$J_f^\pi$	Mult.&	Comments
204.92	7/2 <sup>+</sup>	204.95 3	100	0.0	5/2 <sup>+</sup>	M1+E2	K/L=8.6 7 via (p,n $\gamma$ ) includes anisotropy effects; compare K/L=7.9 5 from chem separated $^{107}\text{In}$ activity ( <a href="#">1973Jo06</a> , <a href="#">1973Ny03</a> ).
320.97	5/2 <sup>+</sup>	320.94 4	112 6	0.0	5/2 <sup>+</sup>	M1(+E2)	$\alpha(K)\text{exp}=0.020 2$
365.2	3/2 <sup>+</sup>	365.29 5	153 9	0.0	5/2 <sup>+</sup>	M1(+E2)	$\alpha(K)\text{exp}=0.0144 12$
457.68	(1/2 <sup>+</sup> )	92.7 <sup>#</sup> 1 457.4 <sup>#</sup> 3	26.5 13 13.3 11	365.2	3/2 <sup>+</sup> 5/2 <sup>+</sup>		$E_\gamma$ : placed deexciting a level at 1159 by <a href="#">1973Ny03</a> . $\alpha(K)\text{exp}=0.0068 8$ .
505.43	7/2 <sup>+</sup>	300.45 15 505.51 7	3.0 3 82 5	204.92 0.0	7/2 <sup>+</sup> 5/2 <sup>+</sup>	M1(+E2) M1+E2	$\alpha(K)\text{exp}=0.021 4$ $\alpha(K)\text{exp}=0.0052 7$
702.60	(3/2 <sup>+</sup> )	197.6 <sup>#</sup> 1 244.6 <sup>#</sup> 2 381.5 3 702.32 12	1.0 1 1.2 2 7.1 5 40.9 25	505.43 457.68 320.97 0.0	7/2 <sup>+</sup> (1/2 <sup>+</sup> ) 5/2 <sup>+</sup> 5/2 <sup>+</sup>	M1(+E2) M1,E2	$\alpha(K)\text{exp}=0.011 3$ $\alpha(K)\text{exp}=0.0024 3$
809.01	9/2 <sup>+</sup>	303.53 7 604.03 8 809.02 8	3.0 2 10.1 8 12.0 9	505.43 204.92 0.0	7/2 <sup>+</sup> 7/2 <sup>+</sup> 5/2 <sup>+</sup>	M1(+E2) M1+E2 E2	$\alpha(K)\text{exp}=0.017 3$ $\alpha(K)\text{exp}=0.0017 3$
840.2	(3/2 <sup>+</sup> )	475.0 <sup>#</sup> 1 519.28 15 840.16 15	3.5 3 10.9 7 11.6 9	365.2 320.97 0.0	3/2 <sup>+</sup> 5/2 <sup>+</sup> 5/2 <sup>+</sup>	M1,E2	$\alpha(K)\text{exp}=0.0061 10$ $I_\gamma$ : strong interference from other lines.
845.51	11/2 <sup>-</sup>	(36.5 1)	1.0 CA	809.01	9/2 <sup>+</sup>	E1	$E_\gamma$ : from ( $\alpha,2n\gamma$ ) ( <a href="#">1974Ha41</a> ). $I_\gamma$ : from branching; $I_\gamma(36\gamma)/I_\gamma(640\gamma)=0.11 1$ ( $\alpha,2n\gamma$ ) ( <a href="#">1974Ha41</a> ). Mult.: from adopted gammas.
905.59	1/2 <sup>+</sup>	640.58 10 447.9 <sup>#</sup> 1 540.4 1 905.5 <sup>‡</sup>	8.7 2.4 3 9.5 6 12	204.92 457.68 365.2 0.0	7/2 <sup>+</sup> (1/2 <sup>+</sup> ) 3/2 <sup>+</sup> 5/2 <sup>+</sup>	M2 M1,E2	$\alpha(K)\text{exp}=0.0112 12$ $\alpha(K)\text{exp}=0.0054 10$
919.38	(5/2 <sup>+</sup> )	413.7 4 554.16 15 598.5 <sup>#</sup> 2 714.1 <sup>#</sup> 3	9.6 6 9.0 6 3.4 3 1.1 3	505.43 365.2 320.97 204.92	7/2 <sup>+</sup> 3/2 <sup>+</sup> 5/2 <sup>+</sup> 7/2 <sup>+</sup>	M1(+E2) M1,E2	$\alpha(K)\text{exp}=0.0094 12$ $\alpha(K)\text{exp}=0.0045 10$

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$^{107}\text{Ag}(p,n\gamma)$  **1990Vi07,1973Ny03 (continued)** $\gamma(^{107}\text{Cd})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\oplus$	$E_f$	$J_f^\pi$	Mult. &	Comments
919.38	(5/2) <sup>+</sup>	919.4 <sup>#</sup> 1	3.9 3	0.0	5/2 <sup>+</sup>		
921.62	(9/2) <sup>+</sup>	416.42 15	9.2	505.43	7/2 <sup>+</sup>	M1(+E2)	$\alpha(\text{K})\text{exp}=0.0081$ 12
		601.1 <sup>#</sup> 2	2.8 3	320.97	5/2 <sup>+</sup>		
		716.7 <sup>#</sup> 3	1.1 3	204.92	7/2 <sup>+</sup>		
		921.8 4	4.9 4	0.0	5/2 <sup>+</sup>	(E2)	
932.96	11/2 <sup>+</sup>	728.03 6	5.1 4	204.92	7/2 <sup>+</sup>	E2	$\alpha(\text{K})\text{exp}=0.0025$ 3
998.43	(5/2) <sup>+</sup>	632.9 <sup>#</sup> 1	4.9 2	365.2	3/2 <sup>+</sup>		
		677.7 2	2.4 2	320.97	5/2 <sup>+</sup>		
		793.6 2	2.3 2	204.92	7/2 <sup>+</sup>		
		998.75 12	19.4 15	0.0	5/2 <sup>+</sup>	M1,E2	$\alpha(\text{K})\text{exp}=0.00097$ 21
1059.49	(5/2) <sup>-</sup>	694.1 2	3.0 10	365.2	3/2 <sup>+</sup>		
		738.5 <sup>‡</sup>	2.6 2	320.97	5/2 <sup>+</sup>		
		855.2 <sup>#</sup> 2	0.3 2	204.92	7/2 <sup>+</sup>		
		1059.5 <sup>‡</sup>	20.2 15	0.0	5/2 <sup>+</sup>	E1	$\alpha(\text{K})\text{exp}=0.00043$ 12
1158.45	(5/2 <sup>+</sup> )	837.3 <sup>#</sup> 2	2.2 2	320.97	5/2 <sup>+</sup>		
		953.9 3	9.8 11	204.92	7/2 <sup>+</sup>		
		1158.0 7	3.4 3	0.0	5/2 <sup>+</sup>		
1213.52	(3/2 <sup>+</sup> ,5/2 <sup>+</sup> )	756.3 <sup>#</sup> 1	1.3 2	457.68	(1/2 <sup>+</sup> )		
		848.1 <sup>#</sup> 1	4.9 4	365.2	3/2 <sup>+</sup>		
		892.5 <sup>#</sup> 1	2.3 2	320.97	5/2 <sup>+</sup>		
		1008.4 <sup>#</sup> 2	1.7 2	204.92	7/2 <sup>+</sup>		
		1213.3 <sup>#</sup> 1	5.9 4	0.0	5/2 <sup>+</sup>		
1236.08	(3/2,5/2,7/2)	871.0 <sup>#</sup> 1	3.0 3	365.2	3/2 <sup>+</sup>		
		915.0 <sup>#</sup> 1	3.8 3	320.97	5/2 <sup>+</sup>		
		1031.2 <sup>#</sup> 2	0.4 1	204.92	7/2 <sup>+</sup>		
		1236.0 <sup>#</sup> 1	6.9 6	0.0	5/2 <sup>+</sup>		
1244.59	3/2 <sup>+</sup> ,5/2 <sup>+</sup>	786.7 <sup>#</sup> 1	3.1 3	457.68	(1/2 <sup>+</sup> )		
		879.5 <sup>#</sup> 1	4.6 3	365.2	3/2 <sup>+</sup>		
		1039.6 <sup>#</sup> 1	2.6 3	204.92	7/2 <sup>+</sup>		
		1244.7 <sup>#</sup> 1	6.4 6	0.0	5/2 <sup>+</sup>		
1268.40	7/2 <sup>+</sup>	347.1 <sup>#</sup> 1	0.8 1	921.62	(9/2) <sup>+</sup>		
		459.4 <sup>#</sup> 3	0.8 2	809.01	9/2 <sup>+</sup>		
		762.6 <sup>#</sup> 2	0.9 3	505.43	7/2 <sup>+</sup>		
		903.5 <sup>#</sup> 4	1.2 4	365.2	3/2 <sup>+</sup>		
		947.8 <sup>#</sup> 5	0.9 5	320.97	5/2 <sup>+</sup>		
		1063.3 <sup>#</sup> 1	2.7 3	204.92	7/2 <sup>+</sup>		
		1268.33 8	5.5 4	0.0	5/2 <sup>+</sup>		
1278.95	(1/2,3/2,5/2)	373.4 <sup>#</sup> 1	0.7 2	905.59	1/2 <sup>+</sup>		
		438.6 <sup>#</sup> 1	2.0 1	840.2	(3/2) <sup>+</sup>		
		821.4 <sup>#</sup> 1	5.9 5	457.68	(1/2 <sup>+</sup> )		
		1279.0 <sup>#</sup> 2	0.8 4	0.0	5/2 <sup>+</sup>		
1319.55	(5/2,7/2)	397.8 <sup>#</sup> 1	1.2 2	921.62	(9/2) <sup>+</sup>		
		617.1 1	1.0 1	702.60	(3/2) <sup>+</sup>		
		814.0 <sup>#</sup> 2	1.0 2	505.43	7/2 <sup>+</sup>		
		1319.6 <sup>#</sup> 2	0.8 2	0.0	5/2 <sup>+</sup>		
1377.6	7/2 <sup>+</sup>	456.1 2	5.8	921.62	(9/2) <sup>+</sup>	M1,E2	$\alpha(\text{K})\text{exp}=0.0081$ 10
		1056.4 <sup>#</sup> 1	2.8 3	320.97	5/2 <sup>+</sup>		

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$^{107}\text{Ag}(p,n\gamma)$  **1990Vi07,1973Ny03 (continued)** $\gamma(^{107}\text{Cd})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\oplus$	$E_f$	$J_f^\pi$
1377.6	7/2 <sup>+</sup>	1173.1 <sup>#</sup> 1	0.7 3	204.92	7/2 <sup>+</sup>
		1377.33 10	3.1 3	0.0	5/2 <sup>+</sup>
1420.45	(11/2 <sup>+</sup> )	611.38 10	2.2 4	809.01	9/2 <sup>+</sup>
		915.10 12	4.1	505.43	7/2 <sup>+</sup>
1525.55	(3/2,5/2,7/2)	1020.1 <sup>#</sup> 2	1.3 2	505.43	7/2 <sup>+</sup>
		1160.3 <sup>#</sup> 1	3.4 3	365.2	3/2 <sup>+</sup>
		1204.8 <sup>#</sup> 5	1.7 3	320.97	5/2 <sup>+</sup>
1530.53		1025.1 <sup>#</sup> 2	0.4 1	505.43	7/2 <sup>+</sup>
		1325.6 1	1.2 2	204.92	7/2 <sup>+</sup>
1573.14	(3/2,5/2)	513.8 <sup>#</sup> 1	8.4 3	1059.49	(5/2) <sup>-</sup>
		667.6 <sup>#</sup> 3	0.6 1	905.59	1/2 <sup>+</sup>
		1207.9 <sup>#</sup> 2	4.5 3	365.2	3/2 <sup>+</sup>
		1252.0 <sup>#</sup> 1	2.3 2	320.97	5/2 <sup>+</sup>
1590.72	(3/2 <sup>+</sup> ,5/2 <sup>+</sup> )	432.3 <sup>#</sup> 1	0.8 2	1158.45	(5/2 <sup>+</sup> )
		592.4 <sup>#</sup> 2	0.5 2	998.43	(5/2 <sup>+</sup> )
		888.1 <sup>#</sup> 1	2.0 2	702.60	(3/2 <sup>+</sup> )
		1132.7 <sup>#</sup> 2	0.7 3	457.68	(1/2 <sup>+</sup> )
		1225.5 <sup>#</sup> 2	2.3 2	365.2	3/2 <sup>+</sup>
		1590.8 <sup>#</sup> 2	2.8 3	0.0	5/2 <sup>+</sup>
1645.81		724.2 <sup>#</sup> 1	0.4 1	921.62	(9/2 <sup>+</sup> )
		1140.3 <sup>#</sup> 3	1.1 2	505.43	7/2 <sup>+</sup>
		1645.8 <sup>#</sup> 2	0.7 2	0.0	5/2 <sup>+</sup>
1675.3		834.3 <sup>#</sup> 2	2.5 2	840.2	(3/2 <sup>+</sup> )
		1309.2 <sup>#</sup> 2	1.4 2	365.2	3/2 <sup>+</sup>
		1674.7 <sup>#</sup> 2	1.3 2	0.0	5/2 <sup>+</sup>
1712.6		1507.7 <sup>#</sup> 3	0.8 4	204.92	7/2 <sup>+</sup>
1719.43	(3/2,5/2)	659.9 <sup>#</sup> 1	2.3 2	1059.49	(5/2) <sup>-</sup>
		1354.2 <sup>#</sup> 1	1.4 2	365.2	3/2 <sup>+</sup>
		1719.5 <sup>#</sup> 2	7.8 3	0.0	5/2 <sup>+</sup>
1763.93		1258.4 <sup>#</sup> 1	2.5 2	505.43	7/2 <sup>+</sup>
		1764.3 <sup>#</sup> 2	1.0 2	0.0	5/2 <sup>+</sup>
1776.19	7/2 <sup>+</sup>	1410.9 <sup>#</sup> 2	1.1 3	365.2	3/2 <sup>+</sup>
		1571.3 <sup>#</sup> 3	3.2 3	204.92	7/2 <sup>+</sup>
		1776.2 <sup>#</sup> 2	0.8 2	0.0	5/2 <sup>+</sup>
1780.8		1416.0 <sup>#</sup> 2	0.8 1	365.2	3/2 <sup>+</sup>
		1460.6 <sup>#</sup> 2	6.9 2	320.97	5/2 <sup>+</sup>
		1780.8 <sup>#</sup> 2	3.7 4	0.0	5/2 <sup>+</sup>
1869.87		1549.5 <sup>#</sup> 2	1.4 2	320.97	5/2 <sup>+</sup>
		1869.7 <sup>#</sup> 1	3.9 3	0.0	5/2 <sup>+</sup>
1876.71		1067.6 <sup>#</sup> 1	2.3 3	809.01	9/2 <sup>+</sup>
		1556.1 <sup>#</sup> 2	1.5 1	320.97	5/2 <sup>+</sup>
1885.32		1427.6 <sup>#</sup> 2	1.0 1	457.68	(1/2 <sup>+</sup> )
		1520.1 <sup>#</sup> 2	2.1 1	365.2	3/2 <sup>+</sup>
1909.18		1403.7 <sup>#</sup> 1	1.0 3	505.43	7/2 <sup>+</sup>
		1704.6 <sup>#</sup> 3	1.3 2	204.92	7/2 <sup>+</sup>

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$^{107}\text{Ag}(p,n\gamma)$  **1990Vi07,1973Ny03** (continued) $\gamma(^{107}\text{Cd})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\circ$	$E_f$	$J_f^\pi$	$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\circ$	$E_f$	$J_f^\pi$
1920.18		1599.2 <sup>#</sup> 2	1.0 2	320.97	5/2 <sup>+</sup>	2209.97		1888.8 <sup>#</sup> 1	2.6 3	320.97	5/2 <sup>+</sup>
1962.94		1758.0 <sup>#</sup> 2	2.6 2	204.92	7/2 <sup>+</sup>	2256.9		1891.6 <sup>#</sup> 1	1.0 2	365.2	3/2 <sup>+</sup>
2006.74	7/2 <sup>+</sup>	1501.3 <sup>#</sup> 2	1.0 1	505.43	7/2 <sup>+</sup>	2285.3	(7/2 <sup>+</sup> )	1778.9 2	1.1 2	505.43	7/2 <sup>+</sup>
2082.20		1624.5 <sup>#</sup> 1	4.3 2	457.68	(1/2 <sup>+</sup> )	2304.69	(7/2 <sup>+</sup> )	1983.7 <sup>#</sup> 1	1.5 4	320.97	5/2 <sup>+</sup>
2146.11		1780.8 <sup>#</sup> 2	3.7 4	365.2	3/2 <sup>+</sup>	2309.59		1988.6 <sup>#</sup> 1	2.8 2	320.97	5/2 <sup>+</sup>
		2146.1 <sup>#</sup> 1	1.8 2	0.0	5/2 <sup>+</sup>	2342.86		1977.6 <sup>#</sup> 1	2.1 3	365.2	3/2 <sup>+</sup>
2158.68		1653.2 <sup>#</sup> 1	1.8 2	505.43	7/2 <sup>+</sup>	2421.6		1916.2 <sup>#</sup> 4	1.3 2	505.43	7/2 <sup>+</sup>
		2158.7 <sup>#</sup> 1		0.0	5/2 <sup>+</sup>	2447.62		1745.0 <sup>#</sup> 1	0.9 1	702.60	(3/2) <sup>+</sup>
2204.06		1838.8 <sup>#</sup> 1	1.5 1	365.2	3/2 <sup>+</sup>	2462.54		1957.1 <sup>#</sup> 1	1.2 2	505.43	7/2 <sup>+</sup>
2209.97		1844.9 <sup>#</sup> 1	1.3 2	365.2	3/2 <sup>+</sup>	2583.95		2078.5 <sup>#</sup> 1	2.5 3	505.43	7/2 <sup>+</sup>

<sup>†</sup> From [1990Vi07](#). They agree with [1973Ny03](#) but many new gammas seen by [1990Vi07](#).

<sup>‡</sup> Observed in (p,n $\gamma$ ), (d,p $\gamma$ ) reactions, not in  $^{107}\text{In}$  decay ([1973Ny03](#)).

<sup>#</sup> Seen only by [1990Vi07](#).

<sup>@</sup> From [1990Vi07](#) at 55°, agree with [1973Ny03](#)  $\gamma$  singles at 90°; others: [1973Ny03](#) (11-MeV p), [1974Ha41](#) (10-MeV p).

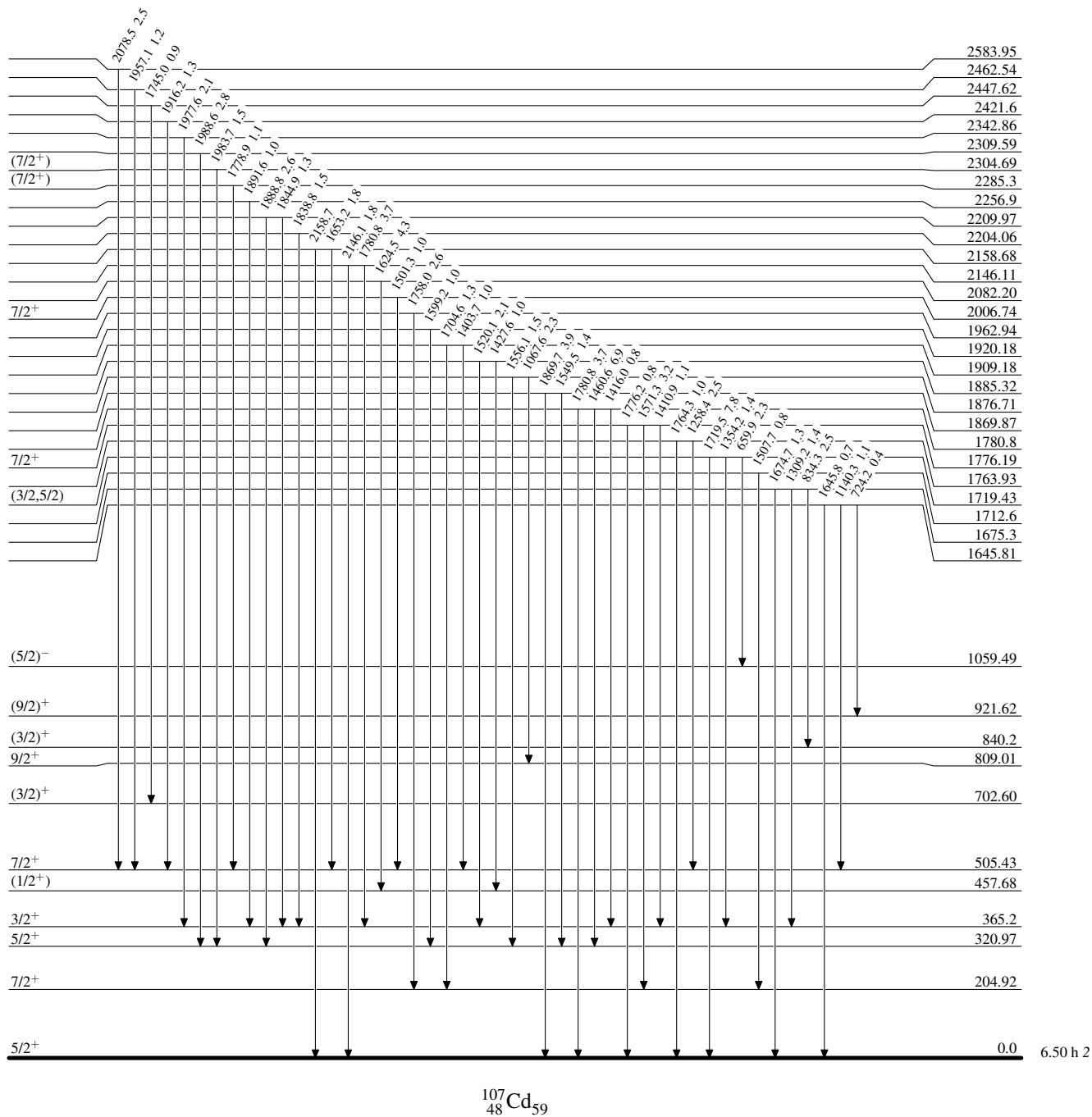
<sup>&</sup> Deduced from  $\alpha(\text{K})\text{exp}$ , except as noted. For additional evidence, see  $\gamma(\theta)$  A<sub>2</sub> coef and  $\alpha(\text{K})\text{exp}$  via ( $\alpha,2n\gamma$ ).

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

$^{107}\text{Ag}(p,n\gamma)$  1990Vi07,1973Ny03

Level Scheme

Intensities: Relative photon branching from each level



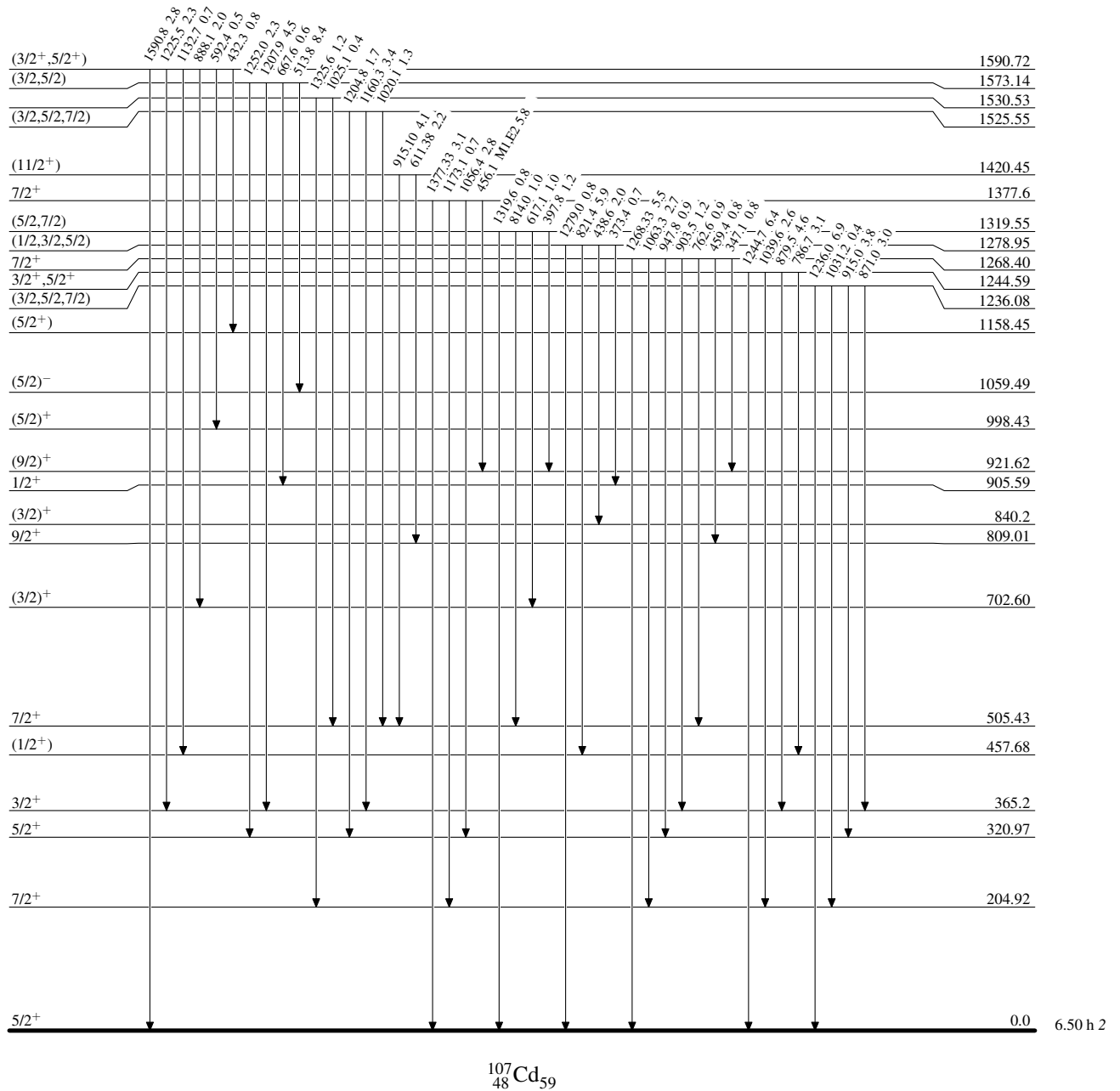
$^{107}_{48}\text{Cd}_{59}$

6.50 h 2

$^{107}\text{Ag}(p,n\gamma)$  1990Vi07,1973Ny03

Level Scheme (continued)

Intensities: Relative photon branching from each level



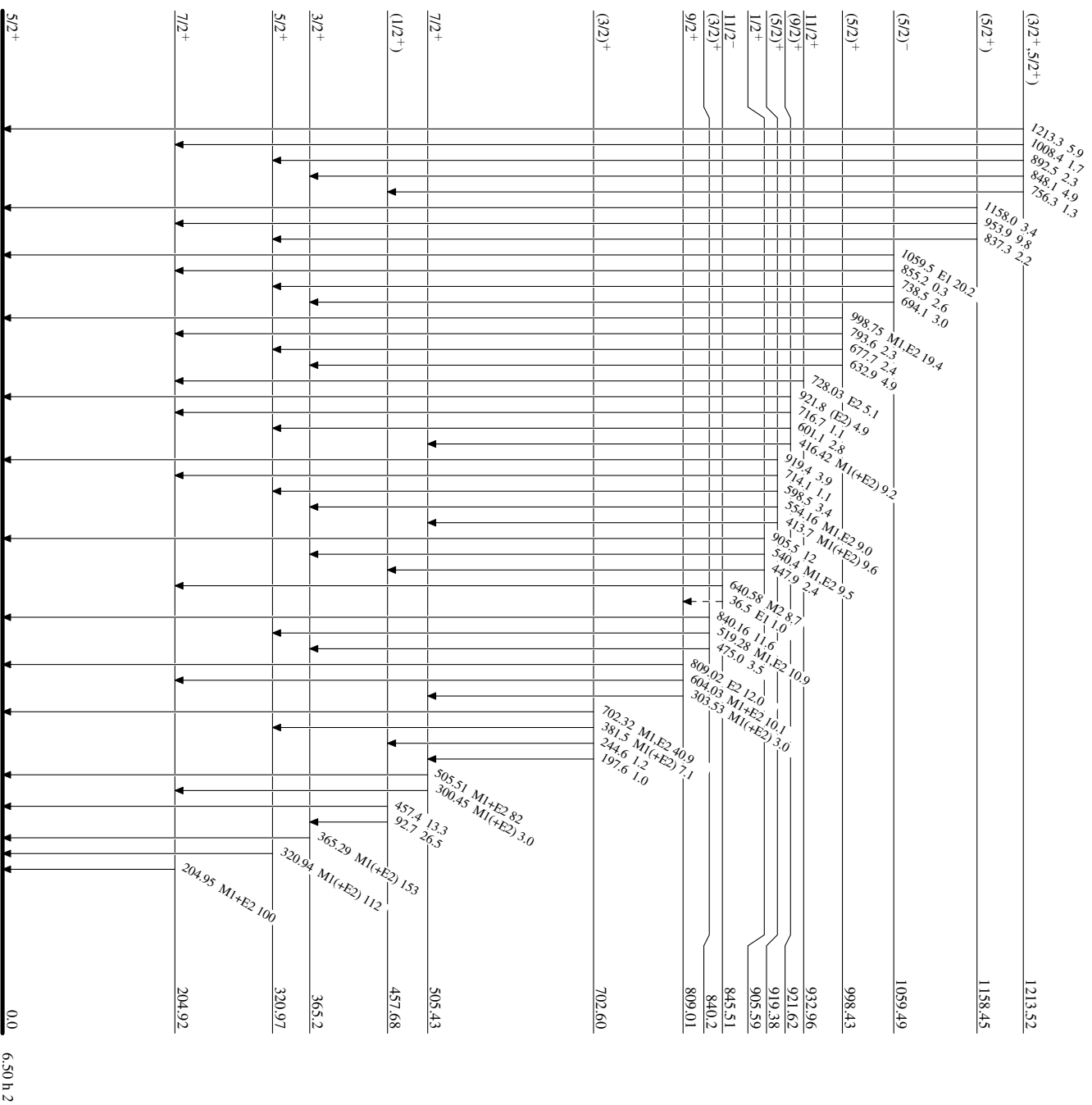
<sup>107</sup>Ag(p,n) $\gamma$  1990V107,1973NY03

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶  $\gamma$  Decay (Uncertain)



<sup>107</sup>Cd<sub>59</sub>