

**Adopted Levels, Gammas**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

Q(β<sup>-</sup>)=2525 5; S(n)=5777.2 10; S(p)=11165 4; Q(α)=-5252 7    [2012Wa38](#)  
 Note: Current evaluation has used the following Q record 2522    6 5777.2 1011171 4 -5.16×10<sup>34</sup>    [2009AuZZ](#).  
 α: [Additional information 1](#).

<sup>117</sup>Cd Levels

Cross Reference (XREF) Flags

- A    <sup>117</sup>Ag β<sup>-</sup> decay (5.34 s)
- B    <sup>117</sup>Ag β<sup>-</sup> decay (72.8 s)
- C    <sup>116</sup>Cd(d,p)
- D    <sup>208</sup>Pb(<sup>18</sup>O,Fγ)

E(level) <sup>#</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub> <sup>†</sup>	XREF	Comments
0.0	1/2 <sup>+</sup>	2.49 h 4	ABCD	%β <sup>-</sup> =100 T <sub>1/2</sub> : weighted average from 2.4 h 1 ( <a href="#">1975Ta06</a> ), 2.42 h 7 ( <a href="#">1972Pa13</a> ), 2.5 h 2 ( <a href="#">1972Gr24</a> ), 2.60 h 8 ( <a href="#">1969Mo21</a> ), 2.52 h 12 ( <a href="#">1967Sc37</a> ), 2.5 h 1 ( <a href="#">1967Ba18</a> ), 2.5 h 2 ( <a href="#">1966De16</a> ). Others: <a href="#">1939Go02</a> , <a href="#">1939Li04</a> , <a href="#">1940La07</a> , <a href="#">1940Ni03</a> , <a href="#">1952At25</a> , <a href="#">1953Co04</a> . J <sup>π</sup> : L=0 (d,p).
135.4 1	3/2 <sup>+</sup>	≤1 ns	ABC	J <sup>π</sup> : L=2 (d,p), M1 γ to 1/2 <sup>+</sup> . T <sub>1/2</sub> : from <a href="#">1976Fo10</a> .
136.4 <sup>a</sup> 2	(11/2) <sup>-</sup>	3.36 h 5	AB D	%β <sup>-</sup> =100 J <sup>π</sup> : L=5 (d,p), h11/2 configuration favored by shell model for the isomeric state. %IT negligible from B(E5)(W.u.)≈4×10 <sup>5</sup> . T <sub>1/2</sub> : weighted average from 3.4 h 1 ( <a href="#">1975Ta06</a> ), 3.31 h 7 ( <a href="#">1972Pa13</a> ), 3.4 h 2 ( <a href="#">1972Gr24</a> ), 3.50 h 8 ( <a href="#">1969Mo21</a> ), 3.10 h 12 ( <a href="#">1967Sc37</a> ), 3.3 h 3 ( <a href="#">1966De16</a> ).
278.4 2	(9/2) <sup>-</sup>		AB	J <sup>π</sup> : M1 γ to (11/2) <sup>-</sup> , log ft=6.2 from (7/2 <sup>+</sup> ).
292 10	(3/2 <sup>+</sup> ,5/2 <sup>+</sup> )		C	J <sup>π</sup> : L=(2) in (d,p).
293.5 2	(7/2) <sup>-</sup>	3.6 ns 2	AB	J <sup>π</sup> : log ft<5.9 to 2382.6 and 3032.4 levels, γ decay from these levels to 293.5 and decay of 293.5 via an E2 to (11/2) <sup>-</sup> uniquely establishes J <sup>π</sup> (293.5)=(7/2) <sup>-</sup> and J <sup>π</sup> (2382.6, 3032.4)=(3/2 <sup>-</sup> ). T <sub>1/2</sub> : from <a href="#">1976Fo10</a> .
337.7 1	(3/2) <sup>+</sup>		AB	J <sup>π</sup> : log ft=7.2 from (1/2 <sup>-</sup> ) parent, M1,E2 γ to 1/2 <sup>+</sup> , M1 γ from (5/2 <sup>+</sup> ).
426.2 1	(3/2) <sup>+</sup>		Bc	J <sup>π</sup> : M1,E2 γ to 1/2 <sup>+</sup> , 1/2 <sup>+</sup> ruled out from L=(2) in (d,p).
442.6 1	3/2 <sup>+</sup> ,5/2 <sup>+</sup>		ABc	J <sup>π</sup> : M1,E2 γ to 1/2 <sup>+</sup> , M1 γ from (5/2 <sup>+</sup> ). E(level): E=434 10, L=(2) reported in <sup>116</sup> Cd(d,p). May include both the 426.2 and 442.6 levels.
498.0 2	(7/2) <sup>+</sup>	0.95 ns 7	A	J <sup>π</sup> : γ to 3/2 <sup>+</sup> and E1 γ to (9/2) <sup>-</sup> . T <sub>1/2</sub> : from <a href="#">1976Fo10</a> .
509 <sup>@</sup> 10			C	
522.1 1	(5/2) <sup>+</sup>		AB	J <sup>π</sup> : log ft=4.9 from (7/2 <sup>+</sup> ) parent. γ to 1/2 <sup>+</sup> . M1 γ to (3/2) <sup>+</sup> .
605.7 2	(5/2,7/2) <sup>-</sup>		B	J <sup>π</sup> : M1,E2 γ to (7/2) <sup>-</sup> , γ from (1/2,3/2 <sup>-</sup> ).
639.40 <sup>a</sup> 20	(15/2) <sup>-</sup>		D	
665.2 2	5/2 <sup>+</sup>		ABc	J <sup>π</sup> : L=2 In(d,p) for E=674 10, log ft≈6.3 from (7/2 <sup>+</sup> ) rules out 3/2 <sup>+</sup> .
690.8 3	5/2 <sup>+</sup>		ABc	J <sup>π</sup> : see 665.2 level.
779 <sup>@</sup> 10			C	
820.1 1	(5/2) <sup>+</sup>		ABc	J <sup>π</sup> : γ to 1/2 <sup>+</sup> , log ft=4.6 from (7/2 <sup>+</sup> ) parent.
863.3 2	(5/2 <sup>+</sup> ,7/2 <sup>+</sup> )		A	J <sup>π</sup> : log ft=5.7 from (7/2 <sup>+</sup> ). γ to (3/2 <sup>+</sup> ).

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Adopted Levels, Gammas (continued) $^{117}\text{Cd}$  Levels (continued)

E(level) <sup>#</sup>	$J^{\pi\dagger}$	XREF	Comments
980 <sup>@ 10</sup>		C	
1073.2 2	(3/2 <sup>-</sup> ,5/2 <sup>-</sup> )	B	$J^{\pi}$ : log $ft$ =6.9 from (1/2 <sup>-</sup> ). $\gamma$ to (7/2 <sup>-</sup> ).
1079.8 2	(5/2 <sup>+</sup> )	A C	$J^{\pi}$ : L=(2) multiplet reported in $^{116}\text{Cd}(d,p)$ , log $ft$ =5.3 from (7/2 <sup>+</sup> ).
1229 10	(1/2 <sup>+</sup> )	C	$J^{\pi}$ : L=(0) (d,p).
1277.0 2	(5/2 <sup>+</sup> ,7/2 <sup>+</sup> )	A C	$J^{\pi}$ : log $ft$ =5.7 from (7/2 <sup>+</sup> ). $\gamma$ to (3/2 <sup>+</sup> ).
1352.3 3		BC	
1355.9 2	(5/2 <sup>+</sup> )	ABC	$J^{\pi}$ : L=(2) reported in $^{116}\text{Cd}(d,p)$ , log $ft$ =5.7 from (7/2 <sup>+</sup> ) parent.
1367.0 <sup>a 3</sup>	(19/2 <sup>-</sup> )	D	
1476 10	(3/2 <sup>+</sup> ,5/2 <sup>+</sup> )	C	$J^{\pi}$ : L=(2) reported in $^{116}\text{Cd}(d,p)$ .
1609.0 2		B	
1679 10	(3/2 <sup>+</sup> ,5/2 <sup>+</sup> )	C	$J^{\pi}$ : L=(2) reported in $^{116}\text{Cd}(d,p)$ .
1784.2 4		B	
1943 <sup>@ 10</sup>		C	
1995.4 2	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	B	
2013.2 2	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	B	
2131 <sup>@ 10</sup>		C	
2192.1 2	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	BC	XREF: C(2183).
2198.7 <sup>a 5</sup>	(23/2 <sup>-</sup> )	D	
2232 <sup>@ 10</sup>		C	
2301.6 2	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	B	
2354.6 4		B	
2382.6 3	(3/2 <sup>-</sup> )	B	$J^{\pi}$ : see 293.5 level.
2443 <sup>@ 10</sup>		C	
2514.1 3	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	B	
2554.5 4		B	
2574 <sup>@ 10</sup>		C	
2641.2 3	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	BC	XREF: C(2637).
2787 <sup>@ 10</sup>		C	
2888.3 3	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	B	
2925 <sup>@ 10</sup>		C	
2937.2 <sup>a 8</sup>	(27/2 <sup>-</sup> )	D	
3000.8 5	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )&	B	
3032.4 4	(3/2 <sup>-</sup> )	B	$J^{\pi}$ : see 293.5 level.
3064 <sup>@ 10</sup>		C	
3158 <sup>@ 10</sup>		C	
3644.0 <sup>a 10</sup>	(31/2 <sup>-</sup> )	D	
4538.9 <sup>a 13</sup>	(35/2 <sup>-</sup> )	D	

<sup>†</sup> From  $^{117}\text{Ag}$   $\beta^-$  decay (72.8 s), except as noted.

<sup>‡</sup>  $J^{\pi}$ 's without comments are from band considerations.

<sup>#</sup> From  $^{117}\text{Ag}$   $\beta^-$  decay, except as noted.

<sup>@</sup> From  $^{116}\text{Cd}(d,p)$ .

<sup>&</sup> From log  $ft$ <5.9 from (1/2<sup>-</sup>) parent.

<sup>a</sup> Band(A):  $\nu h_{11/2}$  sequence.

**Adopted Levels, Gammas (continued)**

$\gamma(^{117}\text{Cd})$								
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_f$	$J_f^\pi$	Mult. <sup>†</sup>	$\alpha$	Comments
135.4	3/2 <sup>+</sup>	135.4 1	100	0.0	1/2 <sup>+</sup>	M1	0.199	$\alpha(\text{K})=0.1723$ 25; $\alpha(\text{L})=0.0215$ 3; $\alpha(\text{M})=0.00413$ 6; $\alpha(\text{N})=0.000735$ 11; $\alpha(\text{O})=4.21 \times 10^{-5}$ 6 $\alpha(\text{N}+..)=0.000777$ 11 B(M1)(W.u.)>0.0074
278.4	(9/2) <sup>-</sup>	142.1 2	100	136.4	(11/2) <sup>-</sup>	M1	0.174	$\alpha(\text{K})=0.1508$ 22; $\alpha(\text{L})=0.0188$ 3; $\alpha(\text{M})=0.00361$ 6; $\alpha(\text{N})=0.000643$ 10; $\alpha(\text{O})=3.68 \times 10^{-5}$ 6 $\alpha(\text{N}+..)=0.000679$ 10
293.5	(7/2) <sup>-</sup>	157.1 1	100	136.4	(11/2) <sup>-</sup>	E2	0.300	$\alpha(\text{K})=0.243$ 4; $\alpha(\text{L})=0.0465$ 7; $\alpha(\text{M})=0.00912$ 13; $\alpha(\text{N})=0.001547$ 22; $\alpha(\text{O})=4.85 \times 10^{-5}$ 7 $\alpha(\text{N}+..)=0.001595$ 23 B(E2)(W.u.)=37.1 21
337.7	(3/2) <sup>+</sup>	202.2 3 337.7 1	6.7 13 100 6	135.4	3/2 <sup>+</sup> 1/2 <sup>+</sup>	M1,E2	0.0198 23	$\alpha(\text{K})=0.0171$ 18; $\alpha(\text{L})=0.0023$ 4; $\alpha(\text{M})=0.00044$ 8; $\alpha(\text{N})=7.7 \times 10^{-5}$ 14; $\alpha(\text{O})=3.92 \times 10^{-6}$ 23 $\alpha(\text{N}+..)=8.1 \times 10^{-5}$ 14
426.2	(3/2) <sup>+</sup>	426.2 1	100	0.0	1/2 <sup>+</sup>	M1,E2	0.0103 5	$\alpha(\text{K})=0.0089$ 4; $\alpha(\text{L})=0.00113$ 11; $\alpha(\text{M})=0.000218$ 21; $\alpha(\text{N})=3.9 \times 10^{-5}$ 4; $\alpha(\text{O})=2.06 \times 10^{-6}$ 3 $\alpha(\text{N}+..)=4.1 \times 10^{-5}$ 4
442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>	104.7 4 307.2 1	8.7 12 100 11	337.7	(3/2) <sup>+</sup> 3/2 <sup>+</sup>	M1,E2	0.026 4	$\alpha(\text{K})=0.022$ 3; $\alpha(\text{L})=0.0030$ 7; $\alpha(\text{M})=0.00059$ 14; $\alpha(\text{N})=0.000103$ 22; $\alpha(\text{O})=5.1 \times 10^{-6}$ 5 $\alpha(\text{N}+..)=0.000108$ 23
498.0	(7/2) <sup>+</sup>	442.6 2 204.6 2	51 5 100 17	0.0	1/2 <sup>+</sup> (7/2) <sup>-</sup>	E1	0.0219	$\alpha(\text{K})=0.0191$ 3; $\alpha(\text{L})=0.00230$ 4; $\alpha(\text{M})=0.000439$ 7; $\alpha(\text{N})=7.74 \times 10^{-5}$ 11; $\alpha(\text{O})=4.15 \times 10^{-6}$ 6 $\alpha(\text{N}+..)=8.15 \times 10^{-5}$ 12 B(E1)(W.u.)=1.8 $\times 10^{-5}$ 4
		219.7 2	57 5	278.4	(9/2) <sup>-</sup>	E1	0.0180	$\alpha(\text{K})=0.01570$ 23; $\alpha(\text{L})=0.00188$ 3; $\alpha(\text{M})=0.000359$ 6; $\alpha(\text{N})=6.35 \times 10^{-5}$ 9; $\alpha(\text{O})=3.43 \times 10^{-6}$ 5 $\alpha(\text{N}+..)=6.69 \times 10^{-5}$ 10 B(E1)(W.u.)=8.4 $\times 10^{-6}$ 13
		362.3 2	30 5	135.4	3/2 <sup>+</sup>	[E2]	0.01764	$\alpha(\text{K})=0.01506$ 22; $\alpha(\text{L})=0.00210$ 3; $\alpha(\text{M})=0.000406$ 6; $\alpha(\text{N})=7.10 \times 10^{-5}$ 10; $\alpha(\text{O})=3.34 \times 10^{-6}$ 5 $\alpha(\text{N}+..)=7.43 \times 10^{-5}$ 11 B(E2)(W.u.)=0.44 10
522.1	(5/2) <sup>+</sup>	184.5 4	15.8 12	337.7	(3/2) <sup>+</sup>	M1	0.0855	$\alpha(\text{K})=0.0742$ 12; $\alpha(\text{L})=0.00916$ 14; $\alpha(\text{M})=0.00176$ 3; $\alpha(\text{N})=0.000314$ 5; $\alpha(\text{O})=1.81 \times 10^{-5}$ 3 $\alpha(\text{N}+..)=0.000332$ 5
		386.8 1	100 5	135.4	3/2 <sup>+</sup>	M1,E2	0.0134 10	$\alpha(\text{K})=0.0116$ 8; $\alpha(\text{L})=0.00150$ 19; $\alpha(\text{M})=0.00029$ 4; $\alpha(\text{N})=5.1 \times 10^{-5}$ 6; $\alpha(\text{O})=2.69 \times 10^{-6}$ 7 $\alpha(\text{N}+..)=5.4 \times 10^{-5}$ 7
		522.1 2	23.5 16	0.0	1/2 <sup>+</sup>			

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**Adopted Levels, Gammas (continued)**

$\gamma(^{117}\text{Cd})$ (continued)								
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_f$	$J_f^\pi$	Mult. <sup>†</sup>	$\alpha$	Comments
605.7	(5/2,7/2) <sup>-</sup>	312.3 1	100 10	293.5	(7/2) <sup>-</sup>	M1,E2	0.025 4	$\alpha(\text{K})=0.021$ 3; $\alpha(\text{L})=0.0029$ 7; $\alpha(\text{M})=0.00056$ 13; $\alpha(\text{N})=9.8\times 10^{-5}$ 20; $\alpha(\text{O})=4.9\times 10^{-6}$ 4 $\alpha(\text{N+..})=0.000103$ 21
639.40	(15/2) <sup>-</sup>	327.2 1	19 3	278.4	(9/2) <sup>-</sup>			
665.2	5/2 <sup>+</sup>	503.0 2	100	136.4	(11/2) <sup>-</sup>			
		529.9 2	100 11	135.4	3/2 <sup>+</sup>			
		665.1 2	89 9	0.0	1/2 <sup>+</sup>			
690.8	5/2 <sup>+</sup>	353.1 3	83 10	337.7	(3/2) <sup>+</sup>			
		555.2 9	100 25	135.4	3/2 <sup>+</sup>			
820.1	(5/2 <sup>+</sup> )	298.1 1	100 6	522.1	(5/2) <sup>+</sup>	M1,E2	0.029 5	$\alpha(\text{K})=0.025$ 4; $\alpha(\text{L})=0.0033$ 8; $\alpha(\text{M})=0.00065$ 16; $\alpha(\text{N})=0.00011$ 3; $\alpha(\text{O})=5.6\times 10^{-6}$ 5 $\alpha(\text{N+..})=0.00012$ 3
		322.1 1	33 3	498.0	(7/2) <sup>+</sup>	M1,E2	0.023 3	$\alpha(\text{K})=0.0196$ 23; $\alpha(\text{L})=0.0026$ 6; $\alpha(\text{M})=0.00051$ 11; $\alpha(\text{N})=8.9\times 10^{-5}$ 17; $\alpha(\text{O})=4.5\times 10^{-6}$ 4 $\alpha(\text{N+..})=9.3\times 10^{-5}$ 18
		377.6 3	5.3 9	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			
		482.4 2	9.4 14	337.7	(3/2) <sup>+</sup>			
		526.4 2	6.0 23	293.5	(7/2) <sup>-</sup>			
		684.6 5	37.6 23	135.4	3/2 <sup>+</sup>			
		819.9 2	8.3 9	0.0	1/2 <sup>+</sup>			
863.3	(5/2 <sup>+</sup> ,7/2 <sup>+</sup> )	341.1 2	91 22	522.1	(5/2) <sup>+</sup>			
		365.4 2	70 13	498.0	(7/2) <sup>+</sup>			
		421.2 4	100 22	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			
		569.9 11	30 13	293.5	(7/2) <sup>-</sup>			
1073.2	(3/2 <sup>-</sup> ,5/2 <sup>-</sup> )	467.7 2	100 8	605.7	(5/2,7/2) <sup>-</sup>			
		779.5 2	73 8	293.5	(7/2) <sup>-</sup>			
1079.8	(5/2 <sup>+</sup> )	557.8 2	100 19	522.1	(5/2) <sup>+</sup>			
		581.9 3	47 7	498.0	(7/2) <sup>+</sup>			
		637.3 3	72 7	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			
		786.3 2	84 9	293.5	(7/2) <sup>-</sup>			
1277.0	(5/2 <sup>+</sup> ,7/2 <sup>+</sup> )	413.8 3	100 18	863.3	(5/2 <sup>+</sup> ,7/2 <sup>+</sup> )			
		585.4 5	11 4	690.8	5/2 <sup>+</sup>			
		754.8 4	45 3	522.1	(5/2) <sup>+</sup>			
		834.2 3	18 9	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			
		1141.9 5	21 4	135.4	3/2 <sup>+</sup>			
1352.3		746.6 3	100	605.7	(5/2,7/2) <sup>-</sup>			
1355.9	(5/2 <sup>+</sup> )	913.4 3	74 15	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			
		1220.4 3	100 10	135.4	3/2 <sup>+</sup>			
1367.0	(19/2) <sup>-</sup>	727.6 2	100	639.40	(15/2) <sup>-</sup>			
1609.0		1609.0 2	100	0.0	1/2 <sup>+</sup>			
1784.2		1341.5 4	100 62	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			
		1648.9 5	86 24	135.4	3/2 <sup>+</sup>			
1995.4	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	1657.6 2	56 6	337.7	(3/2) <sup>+</sup>			
		1995.5 2	100 9	0.0	1/2 <sup>+</sup>			
2013.2	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	1406.5 8	10 6	605.7	(5/2,7/2) <sup>-</sup>			
		1877.6 3	34 6	135.4	3/2 <sup>+</sup>			
		2013.3 2	100 9	0.0	1/2 <sup>+</sup>			
2192.1	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	839.5 5	10.5 21	1352.3				
		1119.1 3	16 4	1073.2	(3/2 <sup>-</sup> ,5/2 <sup>-</sup> )			
		1748.8 3	34 6	442.6	3/2 <sup>+</sup> ,5/2 <sup>+</sup>			

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**Adopted Levels, Gammas (continued)** $\gamma(^{117}\text{Cd})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_f$	$J_f^\pi$
2192.1	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	1854.4 2	76 9	337.7	(3/2) <sup>+</sup>
		2056.7 2	100 9	135.4	3/2 <sup>+</sup>
		2192.1 2	57 7	0.0	1/2 <sup>+</sup>
2198.7	(23/2 <sup>-</sup> )	831.7 4	100	1367.0	(19/2 <sup>-</sup> )
2301.6	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	949.7 7	14 5	1352.3	
		1228.1 3	44 8	1073.2	(3/2 <sup>-</sup> ,5/2 <sup>-</sup> )
		1696.2 3	100 15	605.7	(5/2,7/2) <sup>-</sup>
		1963.8 3	70 11	337.7	(3/2) <sup>+</sup>
2354.6		1748.8 3	100	605.7	(5/2,7/2) <sup>-</sup>
2382.6	(3/2 <sup>-</sup> )	1309.6 5	27 19	1073.2	(3/2 <sup>-</sup> ,5/2 <sup>-</sup> )
		1777.0 4	17 4	605.7	(5/2,7/2) <sup>-</sup>
		2089.2 5	16 5	293.5	(7/2) <sup>-</sup>
		2245.9 3	100 11	136.4	(11/2) <sup>-</sup>
2514.1	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	1908.0 6	35 11	605.7	(5/2,7/2) <sup>-</sup>
		2514.1 3	100 13	0.0	1/2 <sup>+</sup>
2554.5		2216.8 4	100	337.7	(3/2) <sup>+</sup>
2641.2	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	2035.4 3	100 15	605.7	(5/2,7/2) <sup>-</sup>
		2118.7 4	27 9	522.1	(5/2) <sup>+</sup>
		2506.6 7	20 7	135.4	3/2 <sup>+</sup>
2888.3	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	2888.3 3	100	0.0	1/2 <sup>+</sup>
2937.2	(27/2 <sup>-</sup> )	738.5 6	100	2198.7	(23/2 <sup>-</sup> )
3000.8	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	2478.3 7	100 41	522.1	(5/2) <sup>+</sup>
		2663.2 5	95 23	337.7	(3/2) <sup>+</sup>
3032.4	(3/2 <sup>-</sup> )	2341.4 5	100 32	690.8	5/2 <sup>+</sup>
		2738.4 8	45 18	293.5	(7/2) <sup>-</sup>
		2897.3 5	68 18	135.4	3/2 <sup>+</sup>
3644.0	(31/2 <sup>-</sup> )	706.8 6	100	2937.2	(27/2 <sup>-</sup> )
4538.9	(35/2 <sup>-</sup> )	894.9 8	100	3644.0	(31/2 <sup>-</sup> )

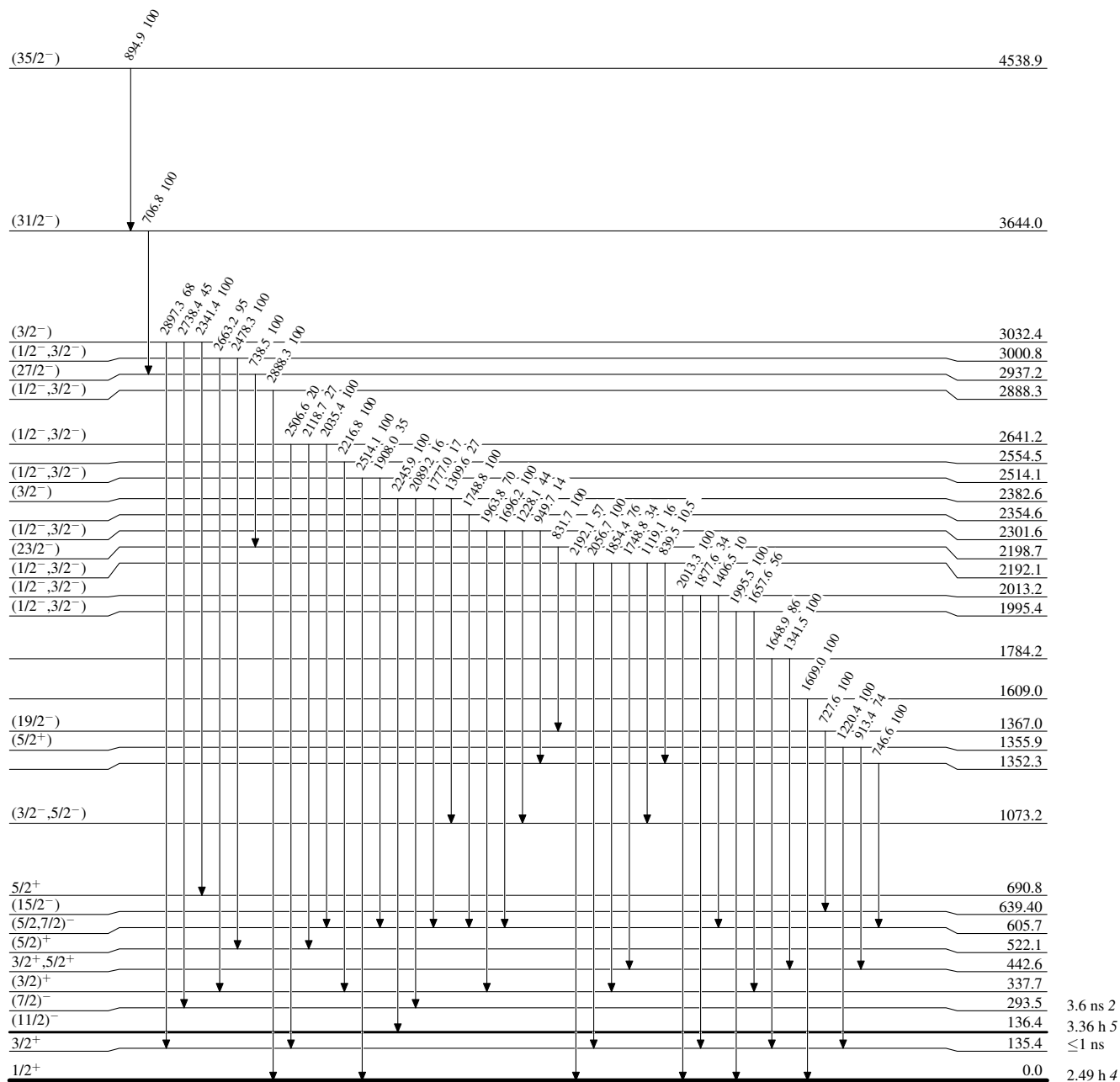
<sup>†</sup> From  $^{117}\text{Ag}$   $\beta^-$  decay.

<sup>‡</sup> Photon branching ratios for each level.

**Adopted Levels, Gammas**

Level Scheme

Intensities: Relative photon branching from each level

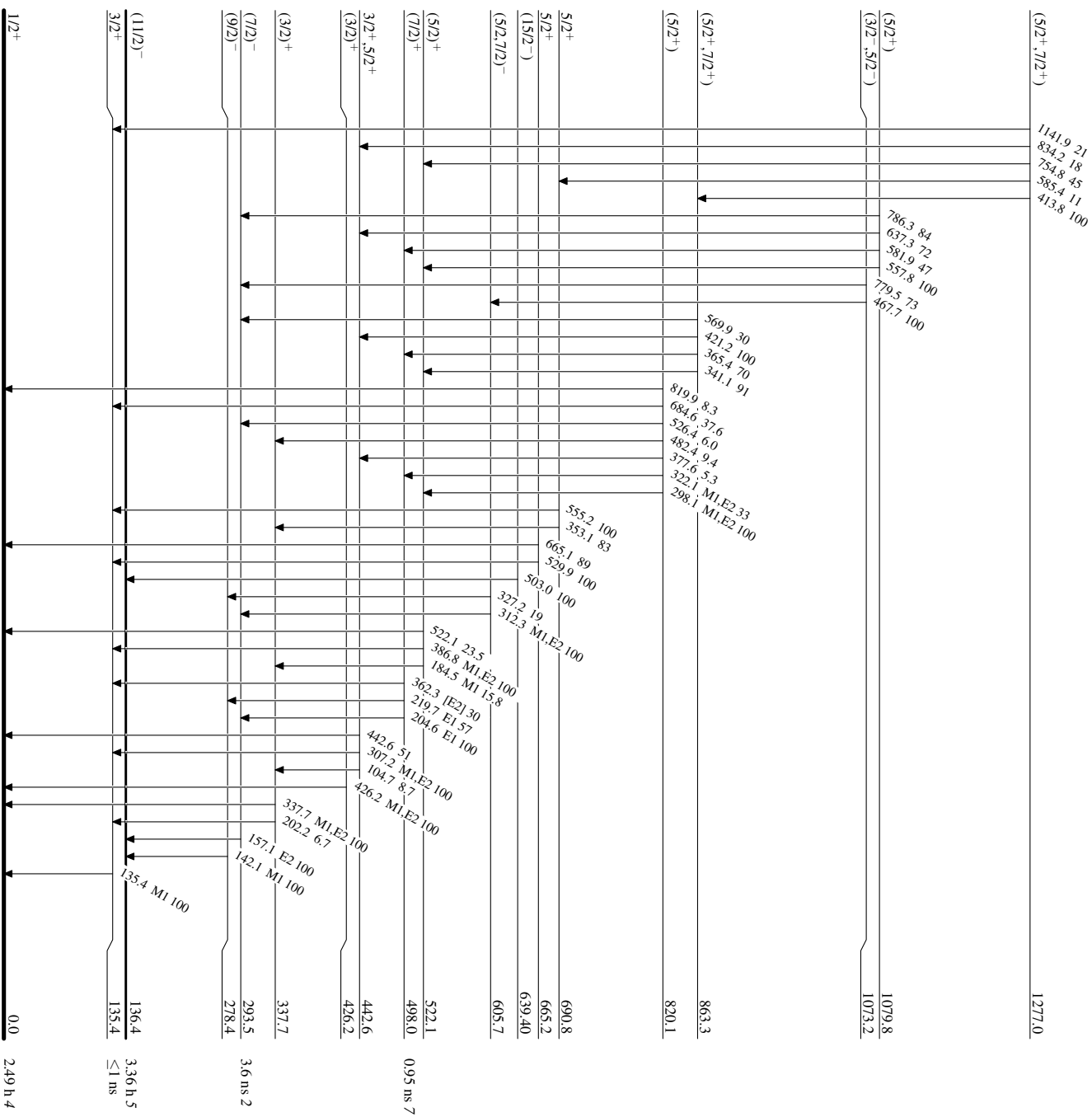


$^{117}_{48}\text{Cd}_{69}$

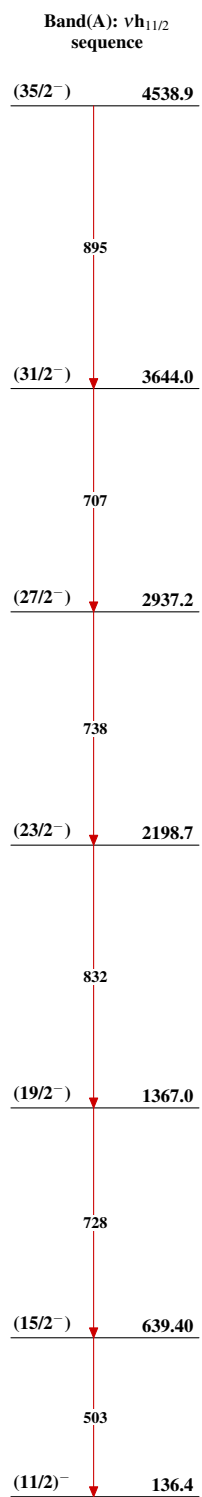
**Adopted Levels, Gammas**

Level Scheme (continued)

Intensities: Relative photon branching from each level



<sup>117</sup>Cd<sub>69</sub><sup>-7</sup>

**Adopted Levels, Gammas** $^{117}_{48}\text{Cd}_{69}$