^{183}W(n,γ) E=thermal: $\gamma\gamma$ coin   2003Bo52

2003Bo52: E=thermal; measured (primary γ)-(secondary γ) coin spectra (5-6 keV resolution) for two-photon cascades; determined
Eγ, intermediate level energies and photon branching.

See 2003Bo52 for 40 additional coincidence pairs that authors were unable to place In the level scheme.

^{184}W Levels

E(level)[†]	E(level)[†]	E(level)[†]	E(level)[†]	J^π
0.0	2404.2 *3*	3022.9 *3*	3352.6 *6*	
111.2[‡]	2439.8 *2*	3029.0 *1*	3372.9 *5*	
364.1[‡]	2458.4 *2*	3037.1 *6*	3377.5 *3*	
903.3 *2*	2509.4 *2*	3053.4 *2*	3384.3 *6*	
1002.4 *1*	2520.7 *3*	3068.5 *3*	3392.0 *9*	
1006.0[‡]	2555.0 *2*	3071.2 *3*	3413.7 *5*	
1121.5 *1*	2573.4 *3*	3104.2 *3*	3422.4 *4*	
1386.3 *2*	2613.3 *3*	3134.6 *5*	3427.2 *4*	
1431.1 *2*	2618.8 *3*	3136.8 *4*	3448.2 *3*	
1613.5	2630.7 *4*	3164.1 *8*	3455.6 *9*	
1614.8	2649.0 *3*	3166.2 *8*	3466.2 *6*	
1627.6 *1*	2655.8 *4*	3169.1 *2*	3473.3 *5*	
1713.8 *2*	2694.4 *3*	3177.9 *5*	3488.2 *4*	
1808.9 *5*	2706.7 *4*	3183.8 *1*	3500.7 *4*	
1877.8 *8*	2719.8 *2*	3187.1 *3*	3516.2 *6*	
1995.8 *4*	2732.5 *6*	3193.3 *3*	3522.5 *4*	
2012.6 *4*	2757.6 *2*	3201.8 *6*	3618.1 *5*	
2030.7 *2*	2763.2 *2*	3224.6 *7*	3634.7 *3*	
2035.4 *5*	2767.6 *6*	3226.3 *5*	3649.2 *4*	
2055.7 *3*	2798.2 *4*	3233.7 *8*	3654.2 *3*	
2061.9 *4*	2802.7 *1*	3248.8 *3*	3670.3 *5*	
2097.7 *3*	2815.0 *2*	3264.0 *5*	3684.5 *4*	
2102.4 *2*	2825.1 *3*	3266.4 *5*	3706.6 *5*	
2124.6 *7*	2836.9 *4*	3288.3 *6*	3715.6 *4*	
2126.4 *1*	2870.5 *2*	3290.0 *4*	3962.4 *2*	
2168.3 *2*	2892.1 *2*	3293.5 *6*	4278.8 *3*	
2246.5 *3*	2905.8 *7*	3304.3 *4*	6543.5 *2*	
2294.5 *9*	2919.5 *2*	3307.4 *5*	6580.8 *2*	
2320.4 *3*	2946.8 *4*	3318.5 *4*	6622.7 *4*	
2349.9 *5*	2951.0 *5*	3329.2 *3*	(7411.7)	$0^-,1^{-\#}$
2370.3 *2*	2968.7 *2*	3341.4 *5*		
2390.3 *2*	2983.6 *4*	3345.1 *2*		
2395.8 *4*	3017.1 *1*	3349.1 *6*		

[†] Authors' best values; based on measured Eγ values for two-photon cascade(S) In which this is the intermediate level, except As noted.

[‡] Rounded value from Adopted Levels.

[#] s-wave capture on J^π=1/2$^-$ target.

^{183}W(n,γ) E=thermal: $\gamma\gamma$ coin   2003Bo52 (continued)

$\underline{\gamma(^{184}\text{W})}$

E$_i$(level)	E$_\gamma$[†]	I($\gamma_1\gamma_2$)[@]	E$_f$	E$_i$(level)	E$_\gamma$[†]	I($\gamma_1\gamma_2$)[@]	E$_f$	Mult.
903.3	792.0	4.8 3	111.2	2395.8	2395.8	3.4 3	0.0	
	903.3	4.5 3	0.0	2404.2	1500.9	1.14 15	903.3	
1002.4	891.2	42.6 10	111.2		2292.9	0.56 14	111.2	
1121.5	757.4	9.8 5	364.1	2439.8	2328.6	1.40 21	111.2	
	1010.3	9.7 4	111.2	2458.4	2347.1	0.60 14	111.2	
	1121.5	4.0 3	0.0		2458.4	3.2 3	0.0	D
1386.3	1275.1	17.3 6	111.2	2509.4	1606.1	0.40 13	903.3	
	1386.3	13.5 6	0.0		2398.1	1.81 23	111.2	
1431.1	1319.9	1.69 21	111.2	2520.7	2409.5	0.51 14	111.2	
	1431.1	1.69 21	0.0	2555.0	2443.8	1.09 18	111.2	
1613.5	607.6	3.21 20	1006.0	2573.4	2462.2	0.51 14	111.2	
	710.3	3.5 6	903.3	2613.3	1710.0	0.57 15	903.3	
	1502.3	0.78	111.2		2502.1	0.31 12	111.2	
1614.8	711.5	6.9 6	903.3	2618.8	2618.8	0.52 15	0.0	
	1503.6	4.2	111.2	2630.7	2519.4	0.47 12	111.2	
	1614.6	0.27 10	0.0		2630.7	1.40 24	0.0	
1627.6	724.3	2.05 18	903.3	2649.0	2537.8	0.54 14	111.2	
1713.8	810.5	0.55 13	903.3	2655.8	2544.5	0.22 9	111.2	
1808.9	1697.7	0.25 9	111.2		2655.8	0.57 15	0.0	
	1810.0	0.24 11	0.0	2694.4	2694.4	0.90 20	0.0	D
1877.8	757.6	0.52 13	1121.5	2706.7	1803.4	1.11 15	903.3	
	1765.9	0.91 14	111.2		2595.5	0.36 12	111.2	
	1877.2	1.78 21	0.0		2706.7	0.29 14	0.0	
1995.8	1995.8	0.38 14	0.0	2719.8	1816.5	0.78 15	903.3	
2012.6	1901.4	0.38 12	111.2	2732.5	2621.3	0.33 16	111.2	
2030.7	1127.1	0.65 13	903.3	2757.6	2646.4	1.23 25	111.2	
	1919.7	0.74 16	111.2	2763.2	2397.1[#]	0.68 18	364.1	
2035.4	1132.1	0.54 13	903.3		2651.9	2.8 4	111.2	
	1924.2	0.60 14	111.2		2763.2	3.4 4	0.0	D
	2035.4	1.46 24	0.0	2767.6	2656.3	1.9 3	111.2	
2055.7	1944.5	0.42 14	111.2		2767.6	0.48 17	0.0	
2061.9	1950.7	0.45 12	111.2	2798.2	2798.2	0.53 17	0.0	
2097.7	1986.4	0.67 16	111.2	2802.7	2691.5	4.4 5	111.2	
	2097.7	1.66 24	0.0	2815.0	2450.9	0.97 20	364.1	
2102.4	1099.9	0.48 8	1002.4		2703.7	3.9 4	111.2	
2124.6	1121.4	1.02 9	1002.4	2825.1	1921.8	0.41 16	903.3	
	1222.0	0.48 18	903.3		2713.9	0.65 18	111.2	
2126.4	2015.2	6.2 4	111.2	2836.9	2725.7	0.47 16	111.2	
2168.3	1265.0	0.51 19	903.3	2870.5	1967.2	0.87 16	903.3	
	2057.0	1.78 23	111.2	2892.1	2780.9	0.33 16	111.2	
	2168.3	1.10 17	0.0		2892.1	1.32 25	0.0	D
2246.5	2135.2	2.23 27	111.2	2905.8	2000.8	0.63 16	903.3	
	2246.5	1.17 17	0.0		2905.6	0.31 16	0.0	
2294.5	1173.1	0.53 10	1121.5	2919.5	2808.3	2.2 3	111.2	
	1391.2	3.51 21	903.3	2946.8	2043.5	0.34 16	903.3	
	2183.3	6.3 5	111.2		2835.5	0.31 16	111.2	
	2294.5	0.31 14	0.0	2951.0	2839.7	0.29 16	111.2	
2320.4	1417.1	0.46 13	903.3		2951.0	0.86 21	0.0	D
2349.9	2349.9	0.35 14	0.0	2968.7	2857.4	1.09 23	111.2	
2370.3	2259.0	0.54 14	111.2		2968.7	3.3 8	0.0	
	2370.3	1.60 24	0.0	2983.6	2983.6	0.54 17	0.0	
2390.3	2279.1	0.42 14	111.2	3017.1	3017.1	2.9 3	0.0	
	2390.3	1.54 24	0.0	3022.9	2911.6	0.49 16	111.2	
2395.8	1274.3	1.46 13	1121.5		3022.9	0.69 20	0.0	
	2031.7	1.16 22	364.1	3029.0	2917.8	2.0 3	111.2	
	2284.5	7.1 4	111.2	3037.1	1915.7	0.49 11	1121.5	

Continued on next page (footnotes at end of table)

^{183}W(n,γ) E=thermal: $\gamma\gamma$ coin   **2003Bo52** (continued)

$\gamma(^{184}$W) (continued)

E_i(level)	E_γ[†]	$I(\gamma_1\gamma_2)$[@]	E_f	Mult.	E_i(level)	J_i^π	E_γ[†]	$I(\gamma_1\gamma_2)$[@]	E_f
3037.1	2925.9	0.38 *12*	111.2		3522.5		3411.3	0.49 *18*	111.2
	3037.1	0.44 *15*	0.0		3618.1		3618.1	0.48 *18*	0.0
3053.4	2942.2	1.00 *23*	111.2		3634.7		3523.5	0.76 *18*	111.2
3068.5	2957.3	0.67 *21*	111.2				3634.7	0.61 *18*	0.0
3071.2	3071.2	0.64 *18*	0.0	D	3649.2		3538.0	0.62 *18*	111.2
3104.2	2200.9	1.04 *18*	903.3		3654.2		3543.0	0.83 *21*	111.2
	2992.9	0.69 *18*	111.2		3670.3		3559.1	0.45 *18*	111.2
	3104.2	2.5 *3*	0.0		3684.5		3573.3	0.47 *18*	111.2
3134.6	2231.3	0.45 *17*	903.3		3706.6		3595.4	0.60 *21*	111.2
3136.8	3136.8	0.61 *20*	0.0		3715.6		3604.4	0.69 *21*	111.2
3164.1	3052.9	0.56 *23*	111.2		3962.4		3851.2	0.47 *16*	111.2
	3164.1	0.72 *20*	0.0				3962.4	1.28 *25*	0.0
3166.2	3055.0	0.8 *3*	111.2		4278.8		4167.5	0.45 *16*	111.2
3169.1	3057.9	2.3 *4*	111.2				4278.8	0.88 *22*	0.0
3177.9	3177.9	0.53 *18*	0.0		6543.5		6543.5	0.42 *11*	0.0
3183.8	3072.6	3.1 *4*	111.2		6580.8		6580.8	0.45 *11*	0.0
3187.1	3075.9	1.4 *3*	111.2		6622.7		6511.5	0.25 *9*	111.2
3193.3	3082.1	0.69 *21*	111.2		(7411.7)	$0^-,1^-$	789.0		6622.7
3201.8	3090.6	0.40 *18*	111.2				830.9		6580.8
3224.6	3113.4	0.27 *14*	111.2				868.2		6543.5
3226.3	2323.0	0.46 *18*	903.3				3132.9		4278.8
3233.7	2330.4	0.35 *18*	903.3				3449.3		3962.4
	3122.4	0.45 *16*	111.2				3696.1		3715.6
3248.8	3137.6	0.71 *18*	111.2				3705.1		3706.6
3264.0	3264.0	0.45 *20*	0.0				3727.2		3684.5
3266.4	3155.2	0.40 *16*	111.2				3741.4		3670.3
3288.3	2385.0	0.43 *18*	903.3				3757.5		3654.2
3290.0	3290.0	0.78 *22*	0.0				3762.5		3649.2
3293.5	3293.5	0.52 *20*	0.0				3777.0		3634.7
3304.3	2401.4	0.52 *18*	903.3				3793.6		3618.1
3307.4	3196.2	0.54 *18*	111.2				3889.2		3522.5
3318.5	3207.3	0.60 *18*	111.2				3895.5		3516.2
3329.2	3218.0	0.67 *18*	111.2				3911.0		3500.7
3341.4	3230.2	0.40 *16*	111.2				3923.5		3488.2
3345.1	2223.7	0.75 *13*	1121.5				3938.4		3473.3
3349.1	3237.9	0.40 *16*	111.2				3945.5		3466.2
3352.6	3241.4	0.47 *16*	111.2				3956.1		3455.6
	3352.6	0.69 *20*	0.0				3963.5		3448.2
3372.9	3261.7	0.42 *16*	111.2				3984.5		3427.2
3377.5	3266.3	0.65 *18*	111.2				3989.3		3422.4
3384.3	3273.1	0.31 *14*	111.2				3998.0		3413.7
3392.0	3280.8	0.31 *14*	111.2				4019.7		3392.0
	3392.0	0.37 *17*	0.0				4027.4		3384.3
3413.7	3302.5	0.38 *14*	111.2				4034.2		3377.5
3422.4	3311.2	0.49 *16*	111.2				4038.8		3372.9
	3422.4	0.35 *15*	0.0				4059.1		3352.6
3427.2	3316.0	0.51 *16*	111.2				4062.6		3349.1
3448.2	3337.0	0.62 *18*	111.2				4066.6		3345.1
3455.6	3344.4	0.45 *16*	111.2				4070.3		3341.4
	3455.6	0.44 *17*	0.0				4082.5		3329.2
3466.2	3466.2	0.38 *17*	0.0				4093.2		3318.5
3473.3	3362.1	0.31 *14*	111.2				4104.3		3307.4
	3473.3	0.33 *15*	0.0				4107.0		3304.3
3488.2	3377.0	0.51 *16*	111.2				4118.2		3293.5
3500.7	3389.5	0.47 *16*	111.2				4121.7		3290.0
	3500.7	0.48 *18*	0.0				4123.4		3288.3
3516.2	3405.0	0.7 *3*	111.2				4145.3		3266.4

^{183}W(n,γ) E=thermal: $\gamma\gamma$ coin   **2003Bo52** (continued)

$\gamma(^{184}$W) (continued)

E_i(level)	E_γ[†]	E_f	E_i(level)	E_γ[†]	E_f	E_i(level)	E_γ[†]	E_f
(7411.7)	4147.7	3264.0	(7411.7)	4519.6	2892.1	(7411.7)	5041.4	2370.3
	4162.9	3248.8		4541.2	2870.5		5061.8	2349.9
	4178.0	3233.7		4574.8	2836.9		5091.3	2320.4
	4185.4	3226.3		4586.6	2825.1		5117.2	2294.5
	4187.1	3224.6		4596.7	2815.0		5165.2	2246.5
	4209.9	3201.8		4609.0	2802.7		5243.4	2168.3
	4218.4	3193.3		4613.5	2798.2		5285.3	2126.4
	4224.6	3187.1		4644.1	2767.6		5287.1	2124.6
	4227.9	3183.8		4648.5	2763.2		5309.3	2102.4
	4242.6	3169.1		4654.1	2757.6		5314.0	2097.7
	4245.5	3166.2		4679.2[‡]	2732.5		5349.8	2061.9
	4247.6	3164.1		4691.9	2719.8		5356.0	2055.7
	4274.9	3136.8		4705.7	2706.7		5376.3	2035.4
	4277.1	3134.6		4717.3	2694.4		5381.3	2030.7
	4307.5	3104.2		4755.9	2655.8		5399.1	2012.6
	4340.5	3071.2		4762.7	2649.0		5415.9	1995.8
	4343.2	3068.5		4781.0	2630.7		5533.9	1877.8
	4358.3	3053.4		4792.9	2618.8		5602.8	1808.9
	4374.6	3037.1		4798.4	2613.3		5697.9	1713.8
	4382.7	3029.0		4838.3	2573.4		5784.1	1627.6
	4388.8	3022.9		4856.7	2555.0		5797.1	1614.8
	4394.6	3017.1		4891.0	2520.7		5798.4	1613.5
	4428.1	2983.6		4902.3	2509.4		5980.6	1431.1
	4443.0	2968.7		4953.3	2458.4		6025.4	1386.3
	4460.7	2951.0		4971.9	2439.8		6290.2	1121.5
	4464.9	2946.8		5007.5	2404.2		6409.3	1002.4
	4492.2	2919.5		5015.9	2395.8		6508.4	903.3
	4506.1	2905.8		5021.4	2390.3			

[†] From 2003Bo52; uncertainty unstated by authors.
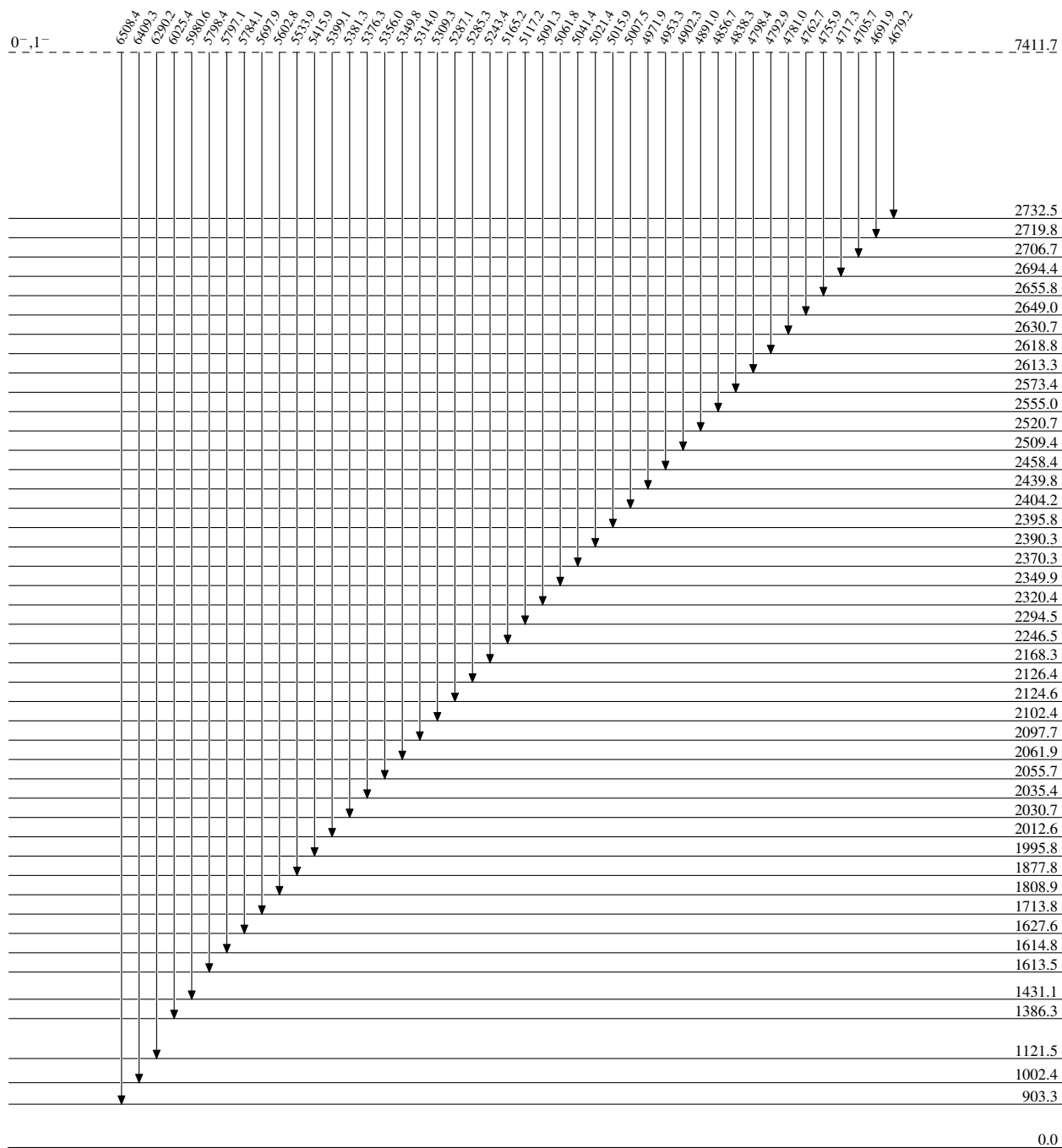[‡] Misprinted As 4979.2 In 2003Bo52.
[#] Fits placement poorly.
[@] Measured two-photon cascade intensity; relative units. this is proportional to both the primary and the secondary transition's photon intensities and provides photon branching information for the intermediate level.

^{183}**W(n,γ) E=thermal: $\gamma\gamma$ coin   2003Bo52**

Level Scheme

Intensities: Two-photon cascade intensities

$^{184}_{74}$W$_{110}$
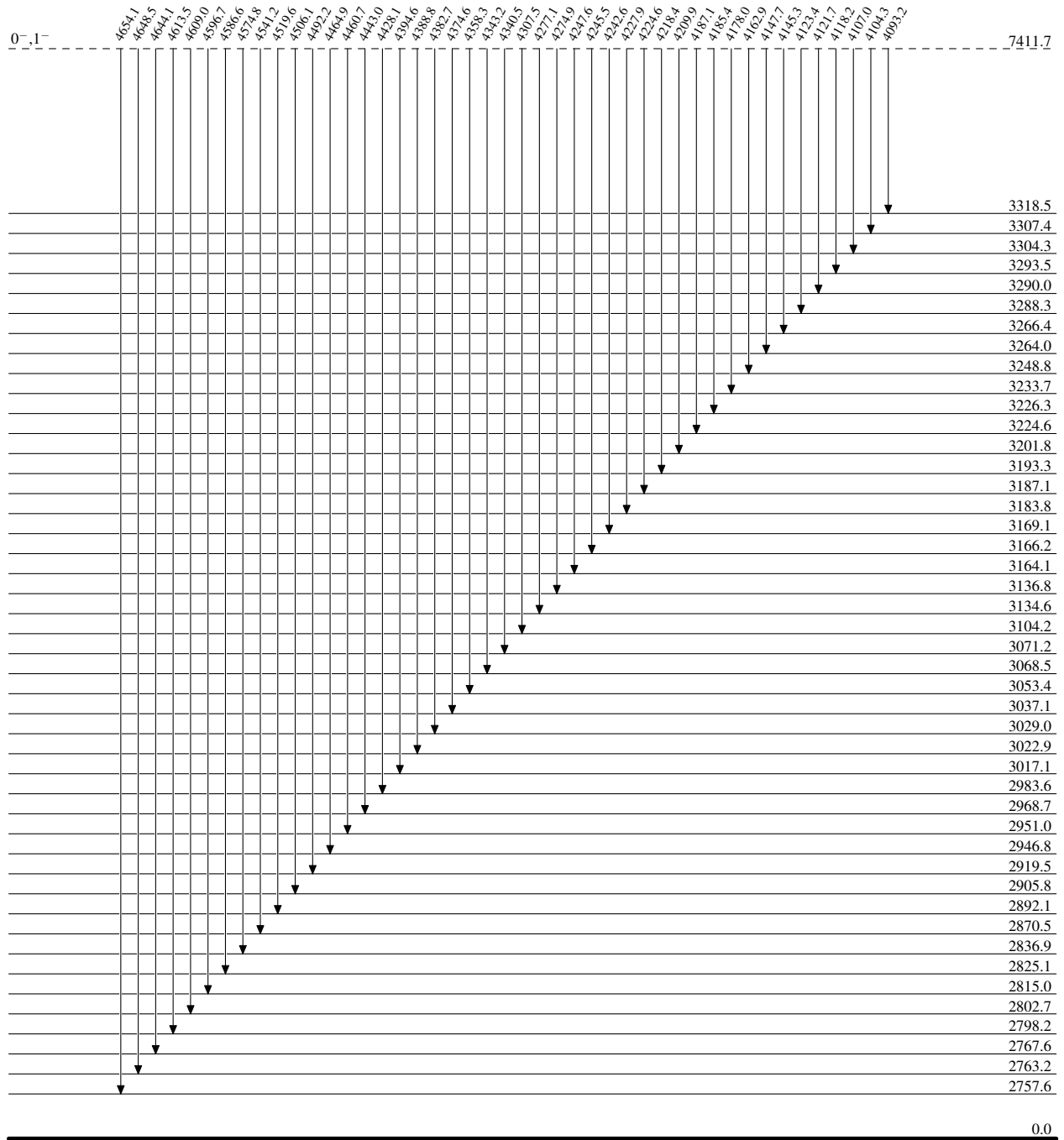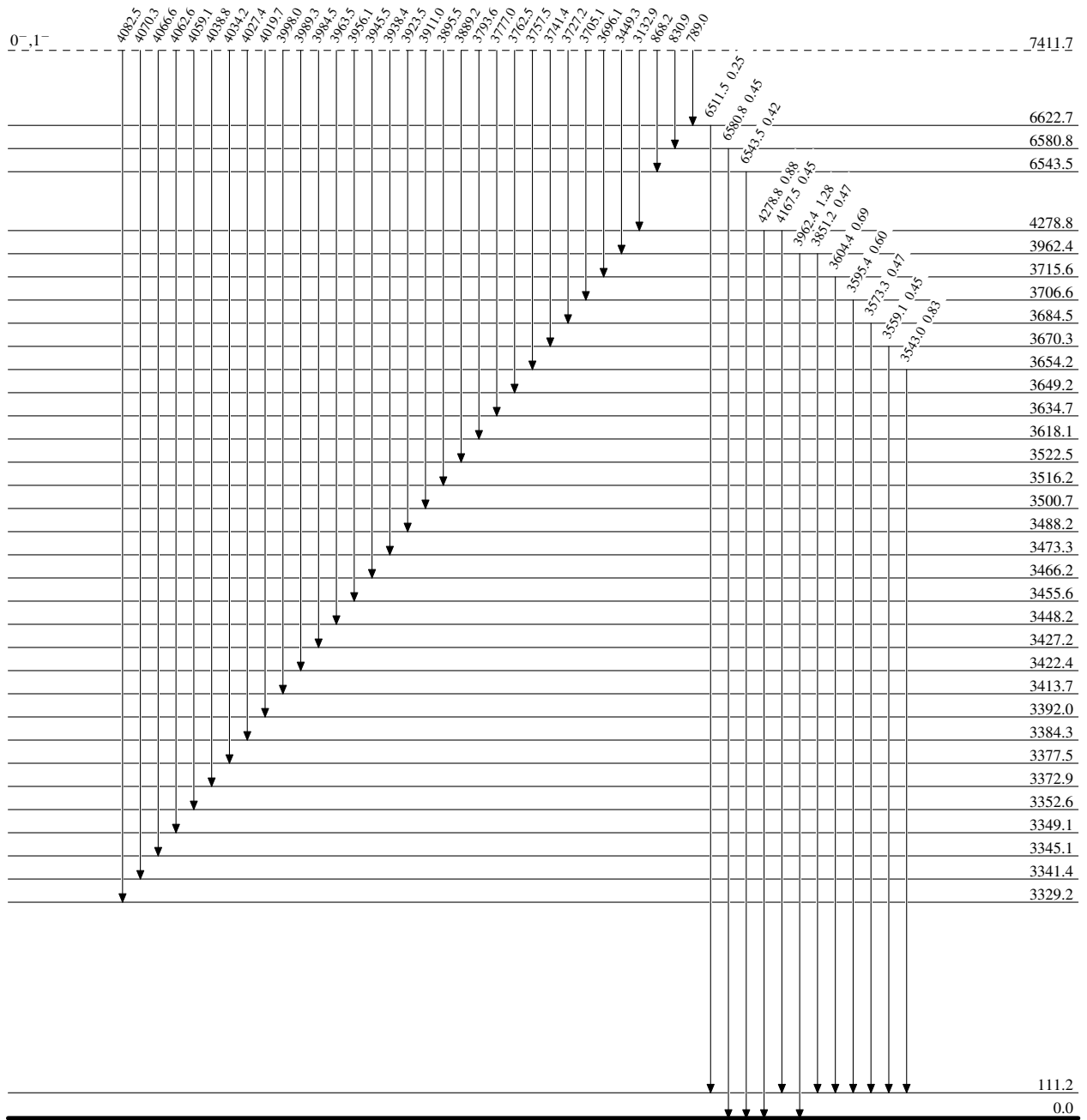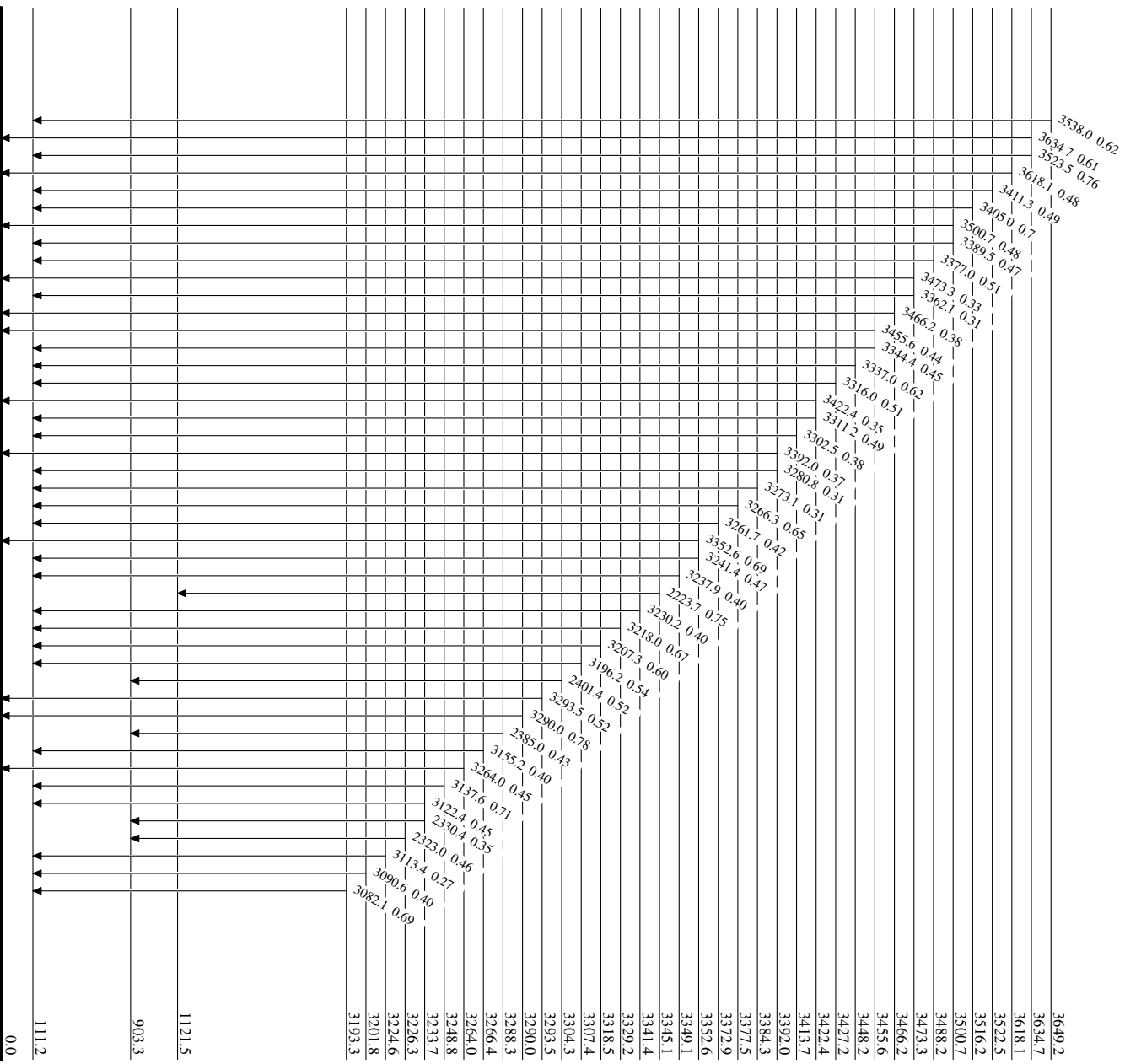
^{183}**W(n,γ) E=thermal: $\gamma\gamma$ coin   2003Bo52**

Level Scheme (continued)

Intensities: Two-photon cascade intensities
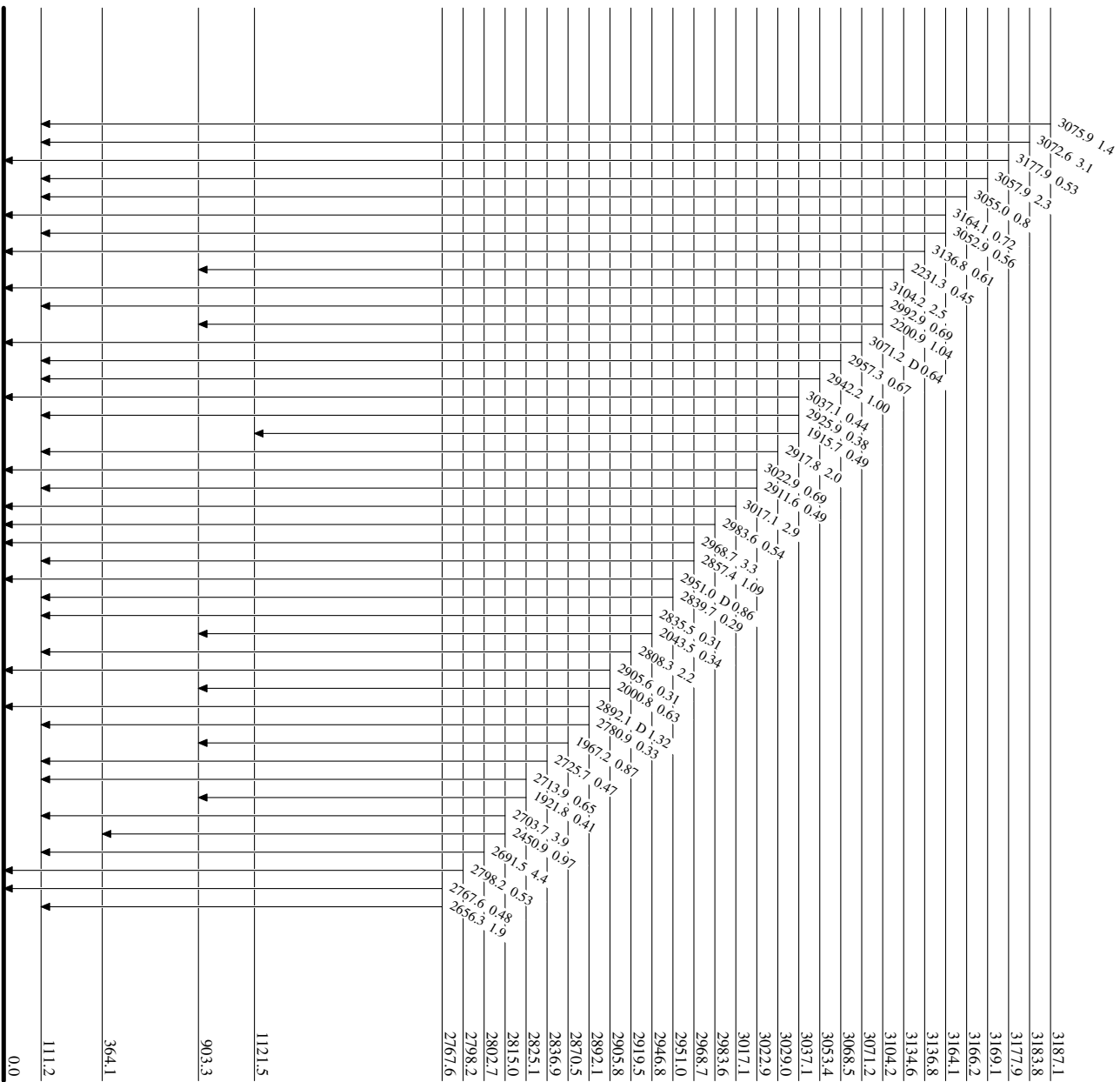
$^{184}_{74}W_{110}$

^{183}W(n,γ) E=thermal: γγ coin　　2003Bo52

Level Scheme (continued)

Intensities: Two-photon cascade intensities

$^{184}_{74}W_{110}$

From ENSDF

$^{183}\text{W}(n,\gamma)$ E=thermal: $\gamma\gamma$ coin   2003Bo52

Level Scheme (continued)

Intensities: Two-photon cascade intensities

3538.0 0.62
3634.7 0.61
3523.5 0.76
3618.1 0.48
3411.3 0.49
3405.0 0.7
3500.7 0.48
3389.5 0.47
3377.0 0.51
3473.3 0.33
3362.1 0.31
3466.2 0.38
3455.6 0.44
3344.4 0.45
3337.0 0.62
3316.0 0.51
3422.4 0.35
3311.2 0.49
3302.5 0.38
3392.0 0.37
3280.8 0.31
3273.1 0.31
3266.3 0.65
3261.7 0.42
3352.6 0.69
3241.4 0.47
3237.9 0.40
2223.7 0.75
3230.2 0.40
3218.0 0.67
3207.3 0.60
3196.2 0.54
2401.4 0.52
3293.5 0.52
3290.0 0.78
2385.0 0.43
3155.2 0.40
3264.0 0.45
3137.6 0.71
3122.4 0.45
2330.4 0.35
2323.0 0.46
3113.4 0.27
3090.6 0.40
3082.1 0.69

3649.2
3634.7
3618.1
3522.5
3516.2
3500.7
3488.2
3473.3
3466.2
3455.6
3448.2
3427.2
3422.4
3413.7
3392.0
3384.3
3377.5
3372.9
3352.6
3349.1
3345.1
3341.4
3329.2
3318.5
3307.4
3304.3
3293.5
3290.0
3288.3
3266.4
3264.0
3248.8
3233.7
3226.3
3224.6
3201.8
3193.3

1121.5

903.3

111.2

0.0

$^{184}_{74}\text{W}_{110}$

$^{183}\text{W}(\text{n},\gamma)$ E=thermal: $\gamma\gamma$ coin   2003Bo52

Level Scheme (continued)

Intensities: Two-photon cascade intensities

$^{184}_{74}\text{W}_{110}$

From ENSDF

$^{183}W(n,\gamma)$ E=thermal: $\gamma\gamma$ coin   2003Bo52

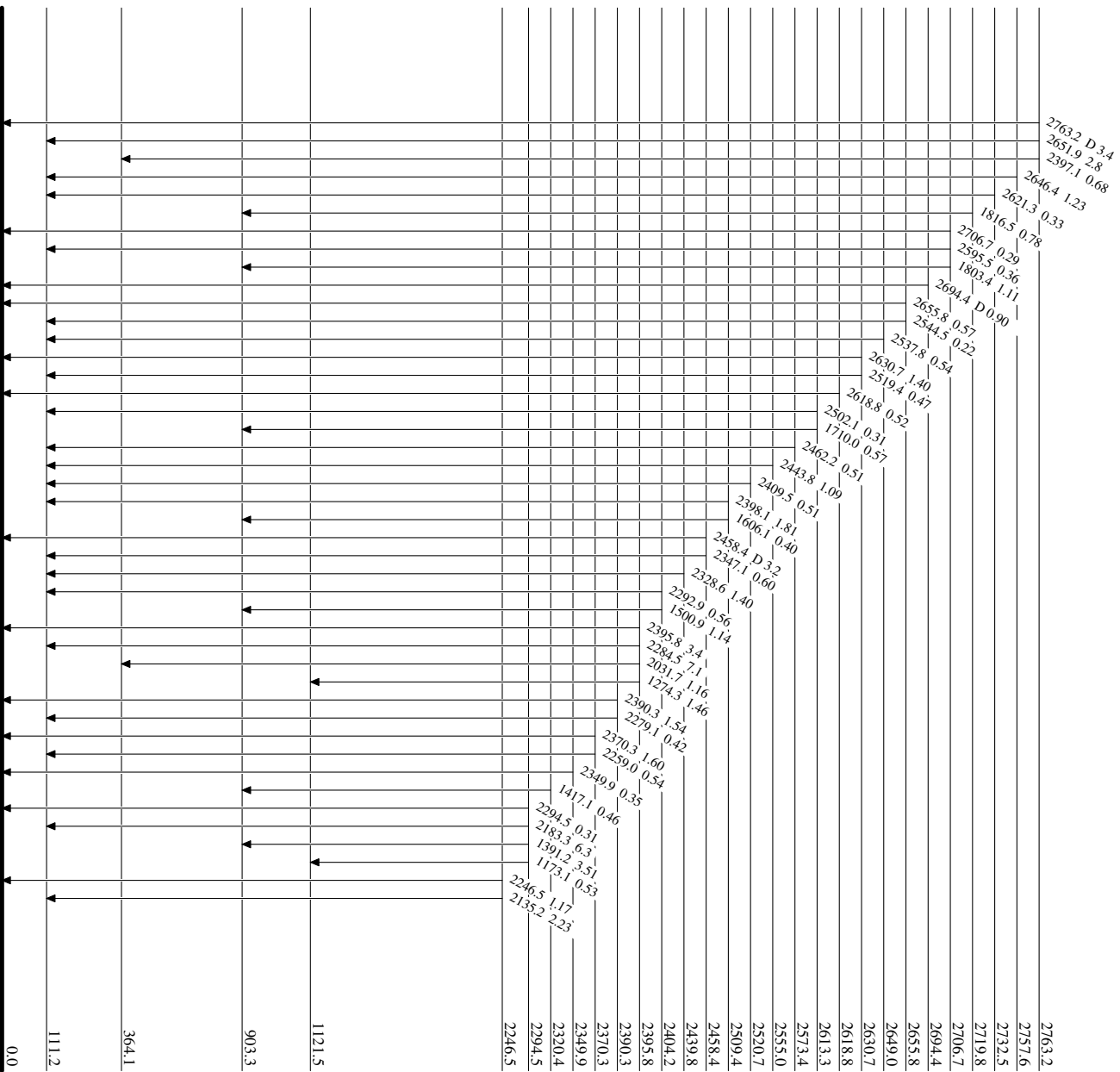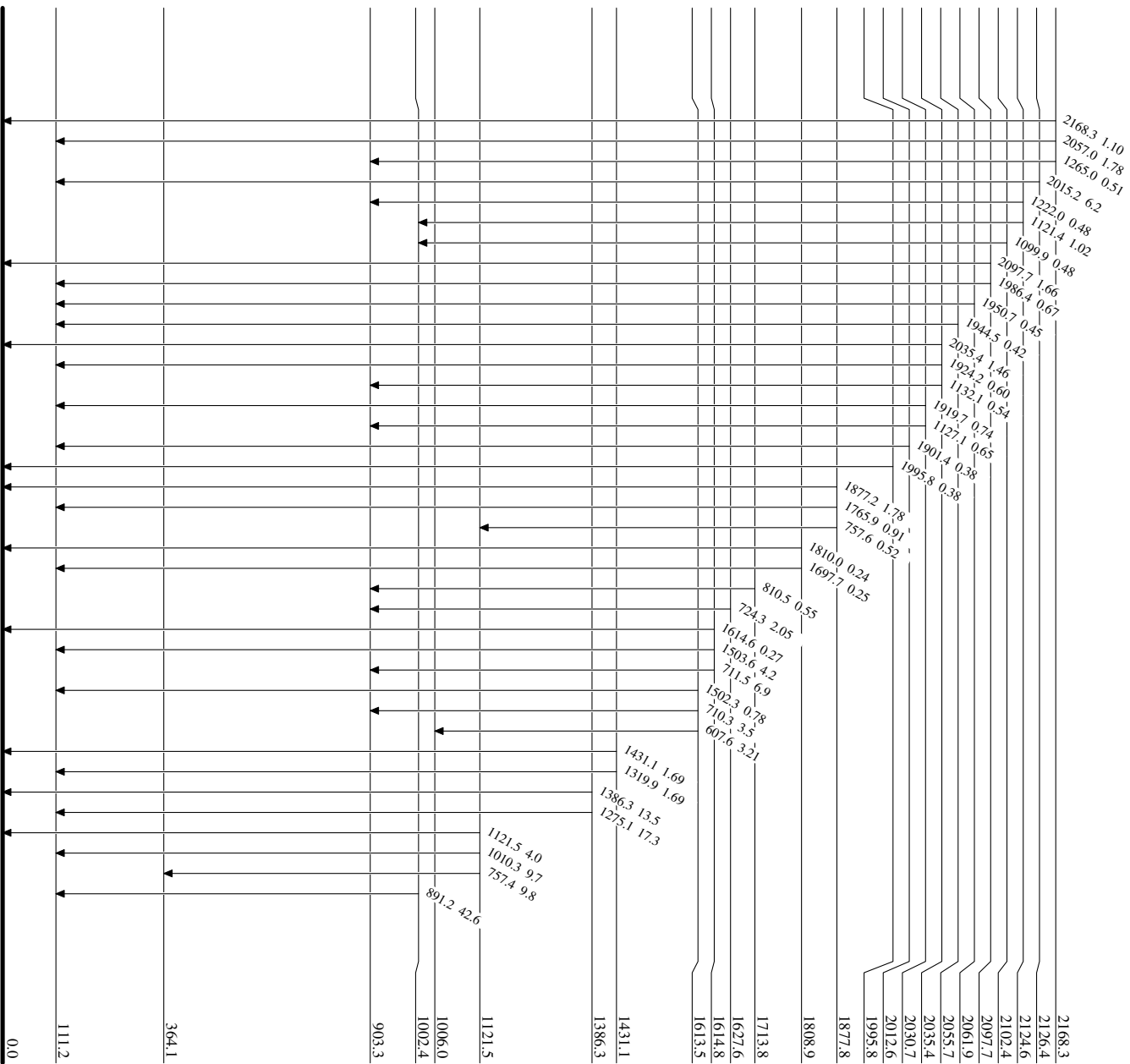Level Scheme (continued)

Intensities: Two-photon cascade intensities

$^{184}_{74}W_{110}$

$^{184}_{74}W_{110}$-10

$^{183}\text{W}(n,\gamma)$ E=thermal: $\gamma\gamma$ coin   2003Bo52

Level Scheme (continued)

Intensities: Two-photon cascade intensities

2168.3 1.10
2057.0 1.78
1265.0 0.51
2015.2 6.2
1222.0 0.48
1121.4 1.02
1099.9 0.48
2097.7 1.66
1986.4 0.67
1950.7 0.45
1944.5 0.42
2035.4 1.46
1924.2 0.60
1132.1 0.54
1919.7 0.74
1127.1 0.65
1901.4 0.38
1995.8 0.38
1877.2 1.78
1765.9 0.91
757.6 0.52
1810.0 0.24
1697.7 0.25
810.5 0.55
724.3 2.05
1614.6 0.27
1503.6 4.2
711.5 6.9
1502.3 0.78
710.3 3.5
607.6 3.21
1431.1 1.69
1319.9 1.69
1386.3 13.5
1275.1 17.3
1121.5 4.0
1010.3 9.7
757.4 9.8
891.2 42.6

2168.3
2126.4
2124.6
2102.4
2097.7
2061.9
2055.7
2035.4
2030.7
2012.6
1995.8
1877.8
1808.9
1713.8
1627.6
1614.8
1613.5
1431.1
1386.3
1121.5
1006.0
1002.4
903.3
364.1
111.2
0.0

^{183}W(n,γ) E=thermal: $\gamma\gamma$ coin　　　2003Bo52

Level Scheme (continued)

Intensities: Two-photon cascade intensities

$^{184}_{74}\text{W}_{110}$