

$^{41}\text{K}(\text{n},\gamma)$ E=thermal **1985Kr06**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen [#] and Balraj Singh		NDS 135, 1 (2016)	31-May-2016

1985Kr06: thermal neutron beam was produced from the ILL high-flux reactor. Target of a 610 mg KF powder (95.8% in ^{41}K). γ -rays were detected with the ILL curved-crystal Bragg spectrometer and pair spectrometer. Measured $E\gamma$, $I\gamma$. Deduced levels, branching ratios.

2013Fi01: E(n)=thermal provided by the 10-MW Budapest Reactor. Target=natural K. Measured $E\gamma$, $I\gamma$, total radiative neutron σ using a HPGe detector at Budapest reactor facility. Deduced levels, J, π , feedings. Monte Carlo simulations using computer code DICEBOX. Comparison with statistical model calculations, previous studies, and evaluations in the ENSDF database. Authors report energy and intensity data for 31 secondary and 12 primary transitions. The intensities are given in terms of absolute cross section σ_{γ} in b. See also **2011Fi11** for cross section measurement.

Additional information 1.

All data are from **1985Kr06** unless otherwise stated.

Others: **1967Ha28**, **1970Jo04**.

 ^{42}K Levels

E(level) [†]	J π [#]	Comments
0.0	2 ⁻	
106.828 5	3 ⁻	
258.260 6	4 ⁻	
638.726 7	3 ⁻	
681.942 8	(2,3)	
699.087 15	5 ⁻	
783.885 11	2 ⁻	
841.937 7	3 ⁻	
1110.744 9	3 ⁺	
1143.593 11	4 ⁺	
1197.904 10	4 ⁻	
1254.821 10	2 ⁻	J π : (2,3) ⁻ in 2013Fi01 .
1266.300 9	(1,2,3) ⁻	
1273.517 12	2 ⁻	J π : (2 ⁻ ,3,4 ⁺) in 201Fi01 .
1376.10 9	6 ⁺	
1377.121 10	(2,3) ⁻	
1400.03 4	(2,3)	
1407.912 10	(1 ⁻ ,2,3)	
1453.05 4	(2 ⁻ ,3,4 ⁻)	
1463.649 14	(1 ⁻ ,2,3)	
1489.30 8	(1 ⁻ to 5 ⁻)	
1513.069 22	(1 ⁻ to 5 ⁻)	
1538.74 7	3 ⁺	
1692.00 4	(1 ⁻ to 4 ⁻)	
1723.44 3	(2,3,4 ⁺)	
1745.613 16	(2 ⁺ ,3 ⁺)	
1816.879 18	(2,3,4 ⁻)	J π : (2,3) in 2013Fi01 .
1842.971 13	(1 ⁻ ,2,3)	
1861.893 9	2 ⁻	
1913.460 16	(2 ⁻ ,3)	
1937.492 15	(1,2,3) ⁻	
1987.979 19	(0 ⁻ to 4 ⁻)	
2049.320 14	3 ⁺	
2072.009 12	(2,3) ⁻	
2161.645 22	(2 ⁺ ,3,4 ⁺)	
2187.23 4	3 ⁺	
2204.046 24	(2 ⁻ ,3,4 ⁺)	

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06 (continued)** ^{42}K Levels (continued)

E(level) [†]	J ^π #	E(level) [†]	J ^π #	E(level) [†]	J ^π #	E(level) [†]	J ^π #
2238.589 24	(1,2,3) ⁻	3233.93 4	(3,4 ⁺)	4036.86 4	3 ⁻	4877.25 4	(0 to 4 ⁺)
2251.062 20	(1 ⁻ ,2,3)	3284.41 4	(2,3) ⁻	4039.96 4	(1,2,3)	4903.68 7	(3 ⁻ ,4 ⁺)
2366.172 13	(2,3) ⁻	3287.16 3	(2 ⁻ ,3,4 ⁺)	4053.87 5	(2,3) ⁻	4938.98 6	(1 ⁻ ,2,3)
2388.835 19	3 ⁺	3295.35 7	(2,3)	4103.72 7	(0 ⁻ to 4 ⁺)	4942.97 4	(1 ⁻ to 4 ⁻)
2401.798 14	(2,3) ⁻	3304.36 3	1 ⁺	4105.74? 6	(0 ⁻ to 3)	4959.64 8	(0 ⁻ to 4 ⁺)
2422.155 21	(1 ⁻ ,2,3)	3323.73 6	3 ⁻	4128.34 3	3 ⁻	5002.99 4	(1 ⁻ ,2,3)
2482.147 15	(1,2,3) ⁻	3367.32 4	(1 ⁺)	4152.35 4	(2 ⁻ ,3,4 ⁺)	5064.01 4	(1 ⁻ to 4 ⁺)
2573.63 5	(2,3)	3418.44 3	(2,3) ⁻	4154.70 5	(1 ⁻ ,2,3)	5081.26 6	(1 ⁻ ,2,3)
2606.996 24	(1 ⁻ ,2,3)	3421.27 4	(0 ⁻ to 3)	4179.43 7	(2 ⁻ ,3,4 ⁺)	5097.04 4	(0 ⁻ to 3)
2627.847 20	(2 ⁻ ,3)	3502.90 4	(2 ⁺ ,3,4 ⁺)	4259.10 5	(1 ⁻ ,2,3)	5179.13 5	(0 ⁻ to 4 ⁺)
2644.289 24	3 ⁻	3529.03 7	(0 ⁻ to 3)	4389.78 6	(2 ⁻ ,3,4 ⁺)	5246.63 5	(1 ⁻ to 4 ⁺)
2653.79 6	(2 ⁻ ,3)	3621.20 3	(2,3)	4416.60 3	(2,3) ⁻	5318.95 6	(2 ⁻ ,3)
2718.098 13	(2 ⁻ ,3)	3658.59 4	(2 ⁻ ,3)	4428.28 3	(1 ⁺ ,2,3)	5476.92 9	(1 ⁺ ,2,3)
2765.960 17	(2 ⁺ ,3)	3674.14 3	(1 ⁻ ,2,3)	4443.14 4	(0 ⁻ to 4 ⁺)	5630.29 8	(4 ⁺)
2862.78 4	(2 ⁻ ,3)	3696.39 5	(3 ⁻ ,4 ⁺)	4481.07 4	(2,3) ⁻	5697.22 4	(1 ⁻ to 4 ⁺)
2878.009 23	3 ⁻	3770.67? 6	(0 ⁻ to 3)	4556.68 5	(1 ⁻ ,2,3)	5710.61 3	(2 ⁻ ,3,4 ⁺)
2917.10 5	(1 ⁻ to 4 ⁺)	3794.62 3	(0 ⁻ to 3)	4576.26 4	(2,3) ⁻	5759.69 4	(1 ⁻ ,2,3 ⁺)
2926.09 4	(2,3) ⁻	3798.14 6	(2 ⁻ ,3,4 ⁺)	4590.56 4	(2 ⁻ ,3,4 ⁺)	5789.69 4	(0 to 4 ⁺)
2938.60 3	(1 ⁻ ,2,3)	3831.74? 5	(1 ⁺ ,2,3)	4612.82 6	(2 ⁺ ,3)	5846.58 8	(1 ⁻ ,2,3 ⁺)
3008.33 3	3	3862.04 5	(1 ⁻ to 4 ⁺)	4660.71 6	(2 ⁻ ,3)	5953.50 3	(1,2,3)
3014.46 4	(1,2,3) ⁻	3876.94 4	(1 ⁻ to 4 ⁺)	4715.40 10	(2 ⁻ ,3)	5978.32 4	4 ⁺
3021.108 25	(2,3) ⁻	3888.33 4	(2,3) ⁻	4748.54 7	3 ⁻	(7533.80 [‡] 11)	1 ⁺ ,2 ⁺ @
3040.19 5	3 ⁻	3890.09 4	(0 ⁻ to 3)	4778.05 6	(1 ⁻ to 4 ⁺)		
3195.80 4	(2 ⁻ ,3)	3934.62 5	(2 ⁻ ,3)	4806.83 3	(1 to 3) ⁻		
3210.61 6	(1 ⁺ ,2,3)	4013.89 4	(0 ⁻ to 3)	4853.60 4	(0 to 3) ⁻		

[†] From least-squares fit to E_γ data. The evaluators increase the uncertainties to 0.5 keV for fitting purpose for the following γ-rays in order to get a reasonable reduced $\chi^2=2.3$: 1166.808, 1606.95, 2319.70 and 4005.79.

[‡] From 2012Wa38. Observed de-excitation intensity is 89% of g.s. feeding.

From Adopted Levels.

@ s-wave capture in ^{41}K g.s. ($J^\pi=3/2^+$).

 $\gamma(^{42}\text{K})$

I_γ normalization: 0.95 7 from Σ(I_γ to g.s.)=100. Thermal capture $\sigma_n=1.46$ 3 (2006MuZX).

Thermal capture $\sigma_n=1.46$ 3 (2006MuZX).

E _γ [†]	I _γ ^{‡@}	E _i (level)	J _i ^π	E _f	J _f ^π	Comments
106.817 7	33 7	106.828	3 ⁻	0.0	2 ⁻	Additional information 2.
151.431 3	10.7 22	258.260	4 ⁻	106.828	3 ⁻	Additional information 3.
198.33 9	0.37 10	1453.05	(2 ⁻ ,3,4 ⁻)	1254.821	2 ⁻	
268.793 8	1.8 4	1110.744	3 ⁺	841.937	3 ⁻	Additional information 12.
275.93 12	0.18 5	3934.62	(2 ⁻ ,3)	3658.59	(2 ⁻ ,3)	
283.78 12	0.17 4	2765.960	(2 ⁺ ,3)	2482.147	(1,2,3) ⁻	
289.21 9	0.22 5	1400.03	(2,3)	1110.744	3 ⁺	
301.50 14	0.13 3	1143.593	4 ⁺	841.937	3 ⁻	
376.71 5	0.61 14	2238.589	(1,2,3) ⁻	1861.893	2 ⁻	Additional information 30.
378.20 5	0.15 4	2366.172	(2,3) ⁻	1987.979	(0 ⁻ to 4 ⁻)	
380.473 13	2.5 5	638.726	3 ⁻	258.260	4 ⁻	Additional information 4.
395.2 4	0.14 3	1538.74	3 ⁺	1143.593	4 ⁺	

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06 (continued)** $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
408.87 15	0.067 18	1861.893	2 ⁻	1453.05	(2 ⁻ ,3,4 ⁻)	
413.16 16	0.059 17	1254.821	2 ⁻	841.937	3 ⁻	
428.71 5	0.20 4	1110.744	3 ⁺	681.942	(2,3)	
431.566 16	2.9 6	1273.517	2 ⁻	841.937	3 ⁻	Additional information 19.
437.24 18	0.048 14	1692.00	(1 ⁻ to 4 ⁻)	1254.821	2 ⁻	
440.854 18	1.26 25	699.087	5 ⁻	258.260	4 ⁻	Additional information 8.
444.525 19	0.92 19	1143.593	4 ⁺	699.087	5 ⁻	Additional information 14.
450.97 12	0.069 17	2388.835	3 ⁺	1937.492	(1,2,3) ⁻	
454.01 3	0.28 6	1861.893	2 ⁻	1407.912	(1 ⁻ ,2,3)	Additional information 25.
504.828 16	2.4 4	1143.593	4 ⁺	638.726	3 ⁻	Additional information 15.
531.908 15	5.7 9	638.726	3 ⁻	106.828	3 ⁻	Additional information 5.
537.17 14	0.044 10	2926.09	(2,3) ⁻	2388.835	3 ⁺	
544.68 21	0.030 8	2482.147	(1,2,3) ⁻	1937.492	(1,2,3) ⁻	
550.30 10	0.062 12	1816.879	(2,3,4 ⁻)	1266.300	(1,2,3) ⁻	
559.23 3	0.26 4	1197.904	4 ⁻	638.726	3 ⁻	
562.07 4	0.17 3	1816.879	(2,3,4 ⁻)	1254.821	2 ⁻	
569.475 20	0.60 9	1842.971	(1 ⁻ ,2,3)	1273.517	2 ⁻	
571.85 5	0.127 20	2388.835	3 ⁺	1816.879	(2,3,4 ⁻)	
575.04 5	0.117 19	681.942	(2,3)	106.828	3 ⁻	
579.30 6	0.104 17	2422.155	(1 ⁻ ,2,3)	1842.971	(1 ⁻ ,2,3)	
584.40 4	0.47 8	1266.300	(1,2,3) ⁻	681.942	(2,3)	
595.618 17	0.83 12	1861.893	2 ⁻	1266.300	(1,2,3) ⁻	Additional information 26.
602.046 22	0.38 6	1745.613	(2 ⁺ ,3 ⁺)	1143.593	4 ⁺	
612.64 5	0.20 3	3014.46	(1,2,3) ⁻	2401.798	(2,3) ⁻	
612.65 5	0.81 14	1723.44	(2,3,4 ⁺)	1110.744	3 ⁺	
616.118 14	2.3 4	1254.821	2 ⁻	638.726	3 ⁻	Additional information 17.
618.20 8	0.095 16	3040.19	3 ⁻	2422.155	(1 ⁻ ,2,3)	
620.244 16	1.05 16	2482.147	(1,2,3) ⁻	1861.893	2 ⁻	
621.727 16	1.34 20	1463.649	(1 ⁻ ,2,3)	841.937	3 ⁻	Additional information 22.
627.551 15	1.56 23	1266.300	(1,2,3) ⁻	638.726	3 ⁻	
634.65 6	0.094 15	1273.517	2 ⁻	638.726	3 ⁻	
638.717 14	3.4 5	638.726	3 ⁻	0.0	2 ⁻	Additional information 6.
663.2 5	0.037 8	1937.492	(1,2,3) ⁻	1273.517	2 ⁻	
671.149 23	0.30 5	1513.069	(1 ⁻ to 5 ⁻)	841.937	3 ⁻	
676.87 11	0.075 14	1376.10	6 ⁺	699.087	5 ⁻	
678.34 6	0.128 21	2401.798	(2,3) ⁻	1723.44	(2,3,4 ⁺)	
681.932 12	15.5 23	681.942	(2,3)	0.0	2 ⁻	Additional information 7.
695.189 17	0.92 14	1377.121	(2,3) ⁻	681.942	(2,3)	
706.98 8	0.059 10	2644.289	3 ⁻	1937.492	(1,2,3) ⁻	
721.66 16	0.030 7	1987.979	(0 ⁻ to 4 ⁻)	1266.300	(1,2,3) ⁻	
725.96 3	0.157 24	1407.912	(1 ⁻ ,2,3)	681.942	(2,3)	
735.099 14	2.1 3	841.937	3 ⁻	106.828	3 ⁻	Additional information 10.
761.31 8	0.058 10	1400.03	(2,3)	638.726	3 ⁻	
766.21 9	0.049 9	2627.847	(2 ⁻ ,3)	1861.893	2 ⁻	
783.903 14	2.8 4	783.885	2 ⁻	0.0	2 ⁻	Additional information 9.
806.00& 3	0.18& 3	2878.009	3 ⁻	2072.009	(2,3) ⁻	
806.00& 3	0.18& 3	4039.96	(1,2,3)	3233.93	(3,4 ⁺)	
811.49 9	0.050 9	3418.44	(2,3) ⁻	2606.996	(1 ⁻ ,2,3)	
817.05 5	0.093 15	3021.108	(2,3) ⁻	2204.046	(2 ⁻ ,3,4 ⁺)	
828.462 16	1.22 18	2765.960	(2 ⁺ ,3)	1937.492	(1,2,3) ⁻	
830.89 9	0.052 9	1513.069	(1 ⁻ to 5 ⁻)	681.942	(2,3)	Additional information 23.
841.895 13	13.2 20	841.937	3 ⁻	0.0	2 ⁻	Additional information 11.
846.59 5	0.095 15	3008.33	3	2161.645	(2 ⁺ ,3,4 ⁺)	
851.01 20	0.021 6	1489.30	(1 ⁻ to 5 ⁻)	638.726	3 ⁻	
856.20 3	0.147 23	2718.098	(2 ⁻ ,3)	1861.893	2 ⁻	

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06 (continued)** $\gamma(^{42}\text{K})$ (continued)

$E_\gamma^\dagger$	$I_\gamma^\ddagger@$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
861.34 6	0.067 11	2606.996	(1 ⁻ ,2,3)	1745.613	(2 ⁺ ,3 ⁺)	
874.088 19	0.52 8	2072.009	(2,3) ⁻	1197.904	4 ⁻	
881.33 11	0.038 7	1723.44	(2,3,4 ⁺)	841.937	3 ⁻	
903.635 21	0.43 6	1745.613	(2 ⁺ ,3 ⁺)	841.937	3 ⁻	
905.712 19	0.61 9	2049.320	3 ⁺	1143.593	4 ⁺	
912.69 23	0.019 5	2401.798	(2,3) ⁻	1489.30	(1 ⁻ to 5 ⁻)	
920.81 6	0.072 12	2644.289	3 ⁻	1723.44	(2,3,4 ⁺)	
923.66 19	0.028 6	3862.04	(1 ⁻ to 4 ⁺)	2938.60	(1 ⁻ ,2,3)	
925.71 24	0.129 20	4428.28	(1 ⁺ ,2,3)	3502.90	(2 ⁺ ,3,4 ⁺)	
^x 934.486 25	0.24 4					
939.605 17	1.15 17	1197.904	4 ⁻	258.260	4 ⁻	Additional information 16.
949.60 20	0.036 9	2204.046	(2 ⁻ ,3,4 ⁺)	1254.821	2 ⁻	
951.11 14	0.051 10	3890.09	(0 ⁻ to 3)	2938.60	(1 ⁻ ,2,3)	
958.215 21	0.43 7	2366.172	(2,3) ⁻	1407.912	(1 ⁻ ,2,3)	
964.50 9	0.047 8	2878.009	3 ⁻	1913.460	(2 ⁻ ,3)	
972.20 4	0.108 17	2238.589	(1,2,3) ⁻	1266.300	(1,2,3) ⁻	
977.524 18	0.78 12	2251.062	(1 ⁻ ,2,3)	1273.517	2 ⁻	
986.45 8	0.059 10	4660.71	(2 ⁻ ,3)	3674.14	(1 ⁻ ,2,3)	
989.065 21	0.38 6	2366.172	(2,3) ⁻	1377.121	(2,3) ⁻	
993.863 23	0.30 5	2401.798	(2,3) ⁻	1407.912	(1 ⁻ ,2,3)	
996.511 16	1.43 21	1254.821	2 ⁻	258.260	4 ⁻	
1001.005 16	1.49 22	1842.971	(1 ⁻ ,2,3)	841.937	3 ⁻	Additional information 24.
1011.62 3	0.21 3	2388.835	3 ⁺	1377.121	(2,3) ⁻	
1015.233 24	0.61 9	1273.517	2 ⁻	258.260	4 ⁻	
1018.032 21	0.40 6	2161.645	(2 ⁺ ,3,4 ⁺)	1143.593	4 ⁺	
1027.03 16	0.025 5	3890.09	(0 ⁻ to 3)	2862.78	(2 ⁻ ,3)	
1034.90 7	0.081 13	2573.63	(2,3)	1538.74	3 ⁺	
1036.83 3	0.20 3	1143.593	4 ⁺	106.828	3 ⁻	
1043.78 13	0.068 14	2187.23	3 ⁺	1143.593	4 ⁺	
1052.88 3	0.162 25	4942.97	(1 ⁻ to 4 ⁻)	3890.09	(0 ⁻ to 3)	
1071.509 20	0.53 8	1913.460	(2 ⁻ ,3)	841.937	3 ⁻	
1076.51 12	0.041 8	2187.23	3 ⁺	1110.744	3 ⁺	
1080.17 10	0.041 7	3284.41	(2,3) ⁻	2204.046	(2 ⁻ ,3,4 ⁺)	
1084.48 12	0.039 7	1723.44	(2,3,4 ⁺)	638.726	3 ⁻	
1091.088 18	0.77 12	1197.904	4 ⁻	106.828	3 ⁻	
1110.767 16	2.0 3	1110.744	3 ⁺	0.0	2 ⁻	Additional information 13. Additional information 32.
1121.70 5	0.24 7	2938.60	(1 ⁻ ,2,3)	1816.879	(2,3,4 ⁻)	
1122.74 5	0.44 9	2388.835	3 ⁺	1266.300	(1,2,3) ⁻	
1128.20 3	0.133 20	2401.798	(2,3) ⁻	1273.517	2 ⁻	
1135.40 7	0.063 10	2401.798	(2,3) ⁻	1266.300	(1,2,3) ⁻	
1147.24 22	0.42 6	2401.798	(2,3) ⁻	1254.821	2 ⁻	
1153.61 3	0.19 3	1937.492	(1,2,3) ⁻	783.885	2 ⁻	
1155.99 8	0.066 11	4443.14	(0 ⁻ to 4 ⁺)	3287.16	(2 ⁻ ,3,4 ⁺)	
1166.808 25	0.30 5	1273.517	2 ⁻	106.828	3 ⁻	
1179.921 16	1.64 25	1861.893	2 ⁻	681.942	(2,3)	Additional information 27.
1195.02 13	0.033 6	1453.05	(2 ⁻ ,3,4 ⁻)	258.260	4 ⁻	
1197.99 3	0.17 3	1197.904	4 ⁻	0.0	2 ⁻	
1204.080 19	0.68 10	1987.979	(0 ⁻ to 4 ⁻)	783.885	2 ⁻	
1207.363 17	1.44 22	2049.320	3 ⁺	841.937	3 ⁻	
1213.51 13	0.042 8	4152.35	(2 ⁻ ,3,4 ⁺)	2938.60	(1 ⁻ ,2,3)	
1217.32 14	0.060 12	3421.27	(0 ⁻ to 3)	2204.046	(2 ⁻ ,3,4 ⁺)	
1223.29 5	0.084 13	1861.893	2 ⁻	638.726	3 ⁻	
1229.89 3	0.157 24	2606.996	(1 ⁻ ,2,3)	1377.121	(2,3) ⁻	
1254.80 3	0.79 13	1254.821	2 ⁻	0.0	2 ⁻	
1255.52 3	2.0 3	1937.492	(1,2,3) ⁻	681.942	(2,3)	
1266.305 15	3.7 6	1266.300	(1,2,3) ⁻	0.0	2 ⁻	Additional information 18.

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1301.008 20	0.51 8	1407.912	(1 ⁻ ,2,3)	106.828	3 ⁻	
1319.32 23	0.23 4	2161.645	(2 ⁺ ,3,4 ⁺)	841.937	3 ⁻	
1329.81 16	0.030 6	3696.39	(3 ⁻ ,4 ⁺)	2366.172	(2,3) ⁻	
1340.942 23	0.35 5	2718.098	(2 ⁻ ,3)	1377.121	(2,3) ⁻	
1352.02 7	0.144 22	2606.996	(1 ⁻ ,2,3)	1254.821	2 ⁻	
1361.535 23	0.35 5	2627.847	(2 ⁻ ,3)	1266.300	(1,2,3) ⁻	
1368.70 23	0.20 3	3418.44	(2,3) ⁻	2049.320	3 ⁺	
1377.065 16	3.1 5	1377.121	(2,3) ⁻	0.0	2 ⁻	Additional information 20.
1382.2 3	0.014 4	1489.30	(1 ⁻ to 5 ⁻)	106.828	3 ⁻	
1391.4 3	0.18 3	3233.93	(3,4 ⁺)	1842.971	(1 ⁻ ,2,3)	
1399.78 9	0.59 9	1400.03	(2,3)	0.0	2 ⁻	
1403.48 5	0.090 14	2187.23	3 ⁺	783.885	2 ⁻	
1407.898 16	3.0 5	1407.912	(1 ⁻ ,2,3)	0.0	2 ⁻	Additional information 21.
1430.74 16	0.028 5	3418.44	(2,3) ⁻	1987.979	(0 ⁻ to 4 ⁻)	
1433.274 19	0.71 11	2072.009	(2,3) ⁻	638.726	3 ⁻	
1451.745 19	0.74 11	2718.098	(2 ⁻ ,3)	1266.300	(1,2,3) ⁻	
1454.53 12	0.95 14	2862.78	(2 ⁻ ,3)	1407.912	(1 ⁻ ,2,3)	
1463.59 3	0.25 4	1463.649	(1 ⁻ ,2,3)	0.0	2 ⁻	
1470.09 6	0.075 12	2878.009	3 ⁻	1407.912	(1 ⁻ ,2,3)	
1473.00 7	0.067 11	2926.09	(2,3) ⁻	1453.05	(2 ⁻ ,3,4 ⁻)	
1485.60& 8	0.063& 10	2862.78	(2 ⁻ ,3)	1377.121	(2,3) ⁻	
1485.60& 8	0.063& 10	2938.60	(1 ⁻ ,2,3)	1453.05	(2 ⁻ ,3,4 ⁻)	
1500.37 13	0.073 15	2644.289	3 ⁻	1143.593	4 ⁺	
1501.85 21	0.048 12	3014.46	(1,2,3) ⁻	1513.069	(1 ⁻ to 5 ⁻)	
1509.92 4	0.101 16	4877.25	(0 to 4 ⁺)	3367.32	(1 ⁺)	
1520.28 4	0.17 3	2718.098	(2 ⁻ ,3)	1197.904	4 ⁻	
1555.50 4	0.119 18	(7533.80)	1 ⁺ ,2 ⁺	5978.32	4 ⁺	
1558.72 3	0.20 3	3304.36	1 ⁺	1745.613	(2 ⁺ ,3 ⁺)	
1565.47& 5	0.080& 12	3502.90	(2 ⁺ ,3,4 ⁺)	1937.492	(1,2,3) ⁻	
1565.47& 5	0.080& 12	4428.28	(1 ⁺ ,2,3)	2862.78	(2 ⁻ ,3)	
1568.99 12	0.040 7	2251.062	(1 ⁻ ,2,3)	681.942	(2,3)	
1571.82 4	0.19 3	3621.20	(2,3)	2049.320	3 ⁺	
1572.9 3	0.12 3	4806.83	(1 to 3) ⁻	3233.93	(3,4 ⁺)	
1574.5 3	0.12 3	3418.44	(2,3) ⁻	1842.971	(1 ⁻ ,2,3)	
1580.32 3	0.30 5	(7533.80)	1 ⁺ ,2 ⁺	5953.50	(1,2,3)	
1585.10 4	0.127 19	1692.00	(1 ⁻ to 4 ⁻)	106.828	3 ⁻	
1596.62 23	0.20 3	2862.78	(2 ⁻ ,3)	1266.300	(1,2,3) ⁻	
1602.08 4	0.24 4	3674.14	(1 ⁻ ,2,3)	2072.009	(2,3) ⁻	
1603.60 5	0.18 4	1861.893	2 ⁻	258.260	4 ⁻	
1604.36 5	0.18 4	3421.27	(0 ⁻ to 3)	1816.879	(2,3,4 ⁻)	
1606.95 6	0.083 13	5710.61	(2 ⁻ ,3,4 ⁺)	4103.72	(0 ⁻ to 4 ⁺)	
1616.84 11	0.060 10	1723.44	(2,3,4 ⁺)	106.828	3 ⁻	
1622.53 7	0.084 13	2765.960	(2 ⁺ ,3)	1143.593	4 ⁺	
1640.18 4	0.101 15	2482.147	(1,2,3) ⁻	841.937	3 ⁻	
1644.55 6	0.066 10	3831.74?	(1 ⁺ ,2,3)	2187.23	3 ⁺	
1655.16 3	0.21 3	1913.460	(2 ⁻ ,3)	258.260	4 ⁻	
1658.94 9	0.049 8	4576.26	(2,3) ⁻	2917.10	(1 ⁻ to 4 ⁺)	
1661.8 4	0.083 13	2917.10	(1 ⁻ to 4 ⁺)	1254.821	2 ⁻	
1665.14& 14	0.029& 5	2862.78	(2 ⁻ ,3)	1197.904	4 ⁻	
1665.14& 14	0.029& 5	4053.87	(2,3) ⁻	2388.835	3 ⁺	
1671.20 11	0.045 8	2926.09	(2,3) ⁻	1254.821	2 ⁻	
1673.71& 11	0.052& 9	4039.96	(1,2,3)	2366.172	(2,3) ⁻	
1673.71& 11	0.052& 9	5710.61	(2 ⁻ ,3,4 ⁺)	4036.86	3 ⁻	
1684.17 5	0.11 3	3888.33	(2,3) ⁻	2204.046	(2 ⁻ ,3,4 ⁺)	

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1684.19 5	0.11 3	2366.172	(2,3) ⁻	681.942	(2,3)	
1687.08 10	0.042 7	(7533.80)	1 ⁺ ,2 ⁺	5846.58	(1 ⁻ ,2,3 ⁺)	
1707.01 7	0.131 20	2388.835	3 ⁺	681.942	(2,3)	
1709.983 25	0.98 15	1816.879	(2,3,4 ⁻)	106.828	3 ⁻	
^x 1735.05 3	0.27 4					
1740.20 3	0.40 6	2422.155	(1 ⁻ ,2,3)	681.942	(2,3)	
1744.03 4	0.146 22	(7533.80)	1 ⁺ ,2 ⁺	5789.69	(0 to 4 ⁺)	
1749.63 5	0.147 23	5789.69	(0 to 4 ⁺)	4039.96	(1,2,3)	
1754.98 3	0.48 7	1861.893	2 ⁻	106.828	3 ⁻	
1759.28 6	0.066 10	3621.20	(2,3)	1861.893	2 ⁻	
1763.39 7	0.068 11	4152.35	(2 ⁻ ,3,4 ⁺)	2388.835	3 ⁺	
1766.26 3	0.49 7	3021.108	(2,3) ⁻	1254.821	2 ⁻	
1774.09 5	0.155 24	(7533.80)	1 ⁺ ,2 ⁺	5759.69	(1 ⁻ ,2,3 ⁺)	
1783.51 12	0.39 6	2422.155	(1 ⁻ ,2,3)	638.726	3 ⁻	
1785.95 6	0.21 3	2627.847	(2 ⁻ ,3)	841.937	3 ⁻	
1787.5 3	0.17 3	3195.80	(2 ⁻ ,3)	1407.912	(1 ⁻ ,2,3)	
^x 1797.26 15	0.069 12					
1800.15 4	0.23 4	2482.147	(1,2,3) ⁻	681.942	(2,3)	
1802.57 11	0.088 14	3210.61	(1 ⁺ ,2,3)	1407.912	(1 ⁻ ,2,3)	
1810.51 10	0.069 11	3008.33	3	1197.904	4 ⁻	
1812.50 & 18	0.037 & 7	3674.14	(1 ⁻ ,2,3)	1861.893	2 ⁻	
1812.50 & 18	0.037 & 7	5097.04	(0 ⁻ to 3)	3284.41	(2,3) ⁻	
1818.32 23	0.138 21	3195.80	(2 ⁻ ,3)	1377.121	(2,3) ⁻	
1823.18 3	0.34 5	(7533.80)	1 ⁺ ,2 ⁺	5710.61	(2 ⁻ ,3,4 ⁺)	
1830.42 23	0.161 24	1937.492	(1,2,3) ⁻	106.828	3 ⁻	
1833.88 5	0.115 18	3233.93	(3,4 ⁺)	1400.03	(2,3)	
1836.55 4	0.138 21	(7533.80)	1 ⁺ ,2 ⁺	5697.22	(1 ⁻ to 4 ⁺)	
1842.95 3	1.12 17	1842.971	(1 ⁻ ,2,3)	0.0	2 ⁻	
1861.855 24	3.4 5	1861.893	2 ⁻	0.0	2 ⁻	Additional information 28.
1864.68 5	0.123 19	3008.33	3	1143.593	4 ⁺	
^x 1872.97 18	0.021 5					
1877.13 6	0.22 3	4128.34	3 ⁻	2251.062	(1 ⁻ ,2,3)	
1881.10 3	0.37 6	3794.62	(0 ⁻ to 3)	1913.460	(2 ⁻ ,3)	
1891.92 5	0.089 14	5179.13	(0 ⁻ to 4 ⁺)	3287.16	(2 ⁻ ,3,4 ⁺)	
1900.49 & 9	0.049 & 8	3888.33	(2,3) ⁻	1987.979	(0 ⁻ to 4 ⁻)	
1900.49 & 9	0.049 & 8	5318.95	(2 ⁻ ,3)	3418.44	(2,3) ⁻	
1903.41 9	0.051 8	(7533.80)	1 ⁺ ,2 ⁺	5630.29	(4 ⁺)	
1909.90 5	0.083 13	3287.16	(2 ⁻ ,3,4 ⁺)	1377.121	(2,3) ⁻	
1913.8 3	0.011 3	1913.460	(2 ⁻ ,3)	0.0	2 ⁻	
1921.61 15	0.026 5	4942.97	(1 ⁻ to 4 ⁻)	3021.108	(2,3) ⁻	
1934.16 3	0.28 4	2718.098	(2 ⁻ ,3)	783.885	2 ⁻	
1937.48 3	1.50 23	1937.492	(1,2,3) ⁻	0.0	2 ⁻	Additional information 29.
1941.22 7	0.064 10	4128.34	3 ⁻	2187.23	3 ⁺	
1945.69 3	0.42 6	2204.046	(2 ⁻ ,3,4 ⁺)	258.260	4 ⁻	
^x 1948.89 7	0.087 14					
1962.29 3	0.50 8	2644.289	3 ⁻	681.942	(2,3)	
1965.10 3	0.48 7	2072.009	(2,3) ⁻	106.828	3 ⁻	
1968.08 9	0.060 10	2606.996	(1 ⁻ ,2,3)	638.726	3 ⁻	
1976.64 5	0.106 16	3890.09	(0 ⁻ to 3)	1913.460	(2 ⁻ ,3)	
1985.20 12	0.042 7	4612.82	(2 ⁺ ,3)	2627.847	(2 ⁻ ,3)	
1988.00 8	0.112 17	1987.979	(0 ⁻ to 4 ⁻)	0.0	2 ⁻	
1990.20 9	0.088 14	3367.32	(1 ⁺)	1377.121	(2,3) ⁻	
1998.11 11	0.067 12	3195.80	(2 ⁻ ,3)	1197.904	4 ⁻	
2006.0 3	0.033 10	2644.289	3 ⁻	638.726	3 ⁻	
2012.09 9	0.142 16	4778.05	(1 ⁻ to 4 ⁺)	2765.960	(2 ⁺ ,3)	

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma)$ E=thermal **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π
2014.36 19	0.136 15	4416.60	(2,3) ⁻	2401.798	(2,3) ⁻
2020.83 6	0.42 4	2862.78	(2 ⁻ ,3)	841.937	3 ⁻
2023.76 11	0.075 9	4389.78	(2 ⁻ ,3,4 ⁺)	2366.172	(2,3) ⁻
2027.35 19	0.035 6	4416.60	(2,3) ⁻	2388.835	3 ⁺
2030.27 8	0.163 17	4748.54	3 ⁻	2718.098	(2 ⁻ ,3)
*2034.26 7	0.25 3				
2035.91 10	0.129 17	3233.93	(3,4 ⁺)	1197.904	4 ⁻
2050.02 10	0.093 11	3502.90	(2 ⁺ ,3,4 ⁺)	1453.05	(2 ⁻ ,3,4 ⁻)
2056.85 12	0.063 9	(7533.80)	1 ⁺ ,2 ⁺	5476.92	(1 ⁺ ,2,3)
2060.99 18	0.034 7	4938.98	(1 ⁻ ,2,3)	2878.009	3 ⁻
2065.16 11	0.086 12	3529.03	(0 ⁻ to 3)	1463.649	(1 ⁻ ,2,3)
2071.95 4	2.16 22	2072.009	(2,3) ⁻	0.0	2 ⁻
2076.86 5	0.201 24	5002.99	(1 ⁻ ,2,3)	2926.09	(2,3) ⁻
2076.90 5	0.100 16	4443.14	(0 ⁻ to 4 ⁺)	2366.172	(2,3) ⁻
2083.94 4	1.35 14	2765.960	(2 ⁺ ,3)	681.942	(2,3)
2086.53 5	0.41 4	3284.41	(2,3) ⁻	1197.904	4 ⁻
2089.8 4	0.104 12	3233.93	(3,4 ⁺)	1143.593	4 ⁺
2094.05 & 11	0.069 & 9	2878.009	3 ⁻	783.885	2 ⁻
2094.05 & 11	0.069 & 9	4576.26	(2,3) ⁻	2482.147	(1,2,3) ⁻
2096.60 12	0.065 8	2938.60	(1 ⁻ ,2,3)	841.937	3 ⁻
2101.26 21	0.027 6	3367.32	(1 ⁺)	1266.300	(1,2,3) ⁻
2107.92 15	0.037 7	2366.172	(2,3) ⁻	258.260	4 ⁻
2113.09 23	0.033 8	3367.32	(1 ⁺)	1254.821	2 ⁻
2115.55 18	0.100 22	4103.72	(0 ⁻ to 4 ⁺)	1987.979	(0 ⁻ to 4 ⁻)
2116.8 4	0.122 24	3862.04	(1 ⁻ to 4 ⁺)	1745.613	(2 ⁺ ,3 ⁺)
2119.72 14	0.055 8	3658.59	(2 ⁻ ,3)	1538.74	3 ⁺
*2122.20 10	0.089 11				
2125.60 13	0.049 8	3502.90	(2 ⁺ ,3,4 ⁺)	1377.121	(2,3) ⁻
*2128.43 10	0.081 10				
2131.9 3	0.021 7	2238.589	(1,2,3) ⁻	106.828	3 ⁻
2138.42 10	0.112 13	3862.04	(1 ⁻ to 4 ⁺)	1723.44	(2,3,4 ⁺)
2143.43 5	0.66 7	2401.798	(2,3) ⁻	258.260	4 ⁻
*2148.80 9	0.165 18				
*2156.34 8	0.194 20				
2163.29 11	0.100 12	3418.44	(2,3) ⁻	1254.821	2 ⁻
2166.38 6	0.42 4	3008.33	3	841.937	3 ⁻
2172.71 25	0.028 6	3014.46	(1,2,3) ⁻	841.937	3 ⁻
2179.04 & 8	0.179 & 20	2878.009	3 ⁻	699.087	5 ⁻
2179.04 & 8	0.179 & 20	4806.83	(1 to 3) ⁻	2627.847	(2 ⁻ ,3)
2184.45 14	0.067 9	3295.35	(2,3)	1110.744	3 ⁺
2188.20 18	0.104 19	4590.56	(2 ⁻ ,3,4 ⁺)	2401.798	(2,3) ⁻
2189.90 19	0.106 18	4103.72	(0 ⁻ to 4 ⁺)	1913.460	(2 ⁻ ,3)
2192.79 23	0.044 8	3304.36	1 ⁺	1110.744	3 ⁺
2195.95 10	0.105 12	2878.009	3 ⁻	681.942	(2,3)
2199.61 13	0.060 9	4806.83	(1 to 3) ⁻	2606.996	(1 ⁻ ,2,3)
2215.11 20	0.18 3	(7533.80)	1 ⁺ ,2 ⁺	5318.95	(2 ⁻ ,3)
2220.57 5	0.58 6	3418.44	(2,3) ⁻	1197.904	4 ⁻
2238.56 4	2.17 22	2238.589	(1,2,3) ⁻	0.0	2 ⁻
*2240.56 5	0.38 4				
2243.25 9	0.098 11	3696.39	(3 ⁻ ,4 ⁺)	1453.05	(2 ⁻ ,3,4 ⁻)
2259.28 4	2.14 21	2366.172	(2,3) ⁻	106.828	3 ⁻
2262.79 16	0.040 6	3529.03	(0 ⁻ to 3)	1266.300	(1,2,3) ⁻
2266.55 7	0.151 16	4128.34	3 ⁻	1861.893	2 ⁻
2281.90 10	0.075 9	2388.835	3 ⁺	106.828	3 ⁻
2287.12 5	0.46 5	(7533.80)	1 ⁺ ,2 ⁺	5246.63	(1 ⁻ to 4 ⁺)

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
2294.98 3	3.1 3	2401.798	(2,3) ⁻	106.828	3 ⁻	Additional information 31.
*2298.87 8	0.125 13					
2307.39 10	0.072 8	3418.44	(2,3) ⁻	1110.744	3 ⁺	
2315.19 4	1.45 14	2422.155	(1 ⁻ ,2,3)	106.828	3 ⁻	
2319.70 8	0.144 15	3696.39	(3 ⁻ ,4 ⁺)	1377.121	(2,3) ⁻	
2325.11 12	0.053 7	4576.26	(2,3) ⁻	2251.062	(1 ⁻ ,2,3)	
2332.50 & 11	0.074 & 9	3014.46	(1,2,3) ⁻	681.942	(2,3)	
2332.50 & 11	0.074 & 9	5953.50	(1,2,3)	3621.20	(2,3)	
2334.63 17	0.047 7	5630.29	(4 ⁺)	3295.35	(2,3)	
2338.49 8	0.123 13	5759.69	(1 ⁻ ,2,3 ⁺)	3421.27	(0 ⁻ to 3)	
2341.09 & 19	0.033 & 5	3040.19	3 ⁻	699.087	5 ⁻	
2341.09 & 19	0.033 & 5	5759.69	(1 ⁻ ,2,3 ⁺)	3418.44	(2,3) ⁻	
2354.55 8	0.132 14	(7533.80)	1 ⁺ ,2 ⁺	5179.13	(0 ⁻ to 4 ⁺)	
2359.17 6	0.33 3	3502.90	(2 ⁺ ,3,4 ⁺)	1143.593	4 ⁺	
2366.13 4	3.9 4	2366.172	(2,3) ⁻	0.0	2 ⁻	
2369.9 3	0.171 18	2627.847	(2 ⁻ ,3)	258.260	4 ⁻	
2372.68 11	0.075 9	3862.04	(1 ⁻ to 4 ⁺)	1489.30	(1 ⁻ to 5 ⁻)	
2375.35 8	0.138 15	2482.147	(1,2,3) ⁻	106.828	3 ⁻	
2381.8 3	0.179 18	4128.34	3 ⁻	1745.613	(2 ⁺ ,3 ⁺)	
2384.99 8	0.135 14	3658.59	(2 ⁻ ,3)	1273.517	2 ⁻	
2388.81 5	0.44 5	2388.835	3 ⁺	0.0	2 ⁻	
2392.14 6	0.33 3	3658.59	(2 ⁻ ,3)	1266.300	(1,2,3) ⁻	
2395.53 6	0.212 22	2653.79	(2 ⁻ ,3)	258.260	4 ⁻	
2397.83 9	0.096 11	3798.14	(2 ⁻ ,3,4 ⁺)	1400.03	(2,3)	
2401.72 5	0.34 3	2401.798	(2,3) ⁻	0.0	2 ⁻	
2403.84 7	0.177 19	3658.59	(2 ⁻ ,3)	1254.821	2 ⁻	
2408.82 11	0.064 9	4612.82	(2 ⁺ ,3)	2204.046	(2 ⁻ ,3,4 ⁺)	
2411.9 3	0.067 19	3195.80	(2 ⁻ ,3)	783.885	2 ⁻	
2413.34 17	0.104 21	3876.94	(1 ⁻ to 4 ⁺)	1463.649	(1 ⁻ ,2,3)	
2422.20 11	0.072 9	2422.155	(1 ⁻ ,2,3)	0.0	2 ⁻	
2436.65 5	0.33 3	(7533.80)	1 ⁺ ,2 ⁺	5097.04	(0 ⁻ to 3)	
2441.02 13	0.041 6	5318.95	(2 ⁻ ,3)	2878.009	3 ⁻	
2450.82 & 14	0.091 & 17	4612.82	(2 ⁺ ,3)	2161.645	(2 ⁺ ,3,4 ⁺)	
2450.82 & 14	0.091 & 17	5953.50	(1,2,3)	3502.90	(2 ⁺ ,3,4 ⁺)	
2452.36 8	0.23 3	(7533.80)	1 ⁺ ,2 ⁺	5081.26	(1 ⁻ ,2,3)	
2455.04 & 12	0.056 & 7	4443.14	(0 ⁻ to 4 ⁺)	1987.979	(0 ⁻ to 4 ⁻)	
2455.04 & 12	0.056 & 7	5759.69	(1 ⁻ ,2,3 ⁺)	3304.36	1 ⁺	
2460.9 3	0.224 23	3658.59	(2 ⁻ ,3)	1197.904	4 ⁻	
2466.69 6	0.28 3	2573.63	(2,3)	106.828	3 ⁻	
2469.81 6	0.30 3	(7533.80)	1 ⁺ ,2 ⁺	5064.01	(1 ⁻ to 4 ⁺)	
2476.79 6	0.211 21	3876.94	(1 ⁻ to 4 ⁺)	1400.03	(2,3)	
2480.28 14	0.062 9	3888.33	(2,3) ⁻	1407.912	(1 ⁻ ,2,3)	
2482.21 20	0.044 7	2482.147	(1,2,3) ⁻	0.0	2 ⁻	
2485.3 3	0.028 6	3862.04	(1 ⁻ to 4 ⁺)	1377.121	(2,3) ⁻	
2487.42 7	0.153 16	4853.60	(0 to 3) ⁻	2366.172	(2,3) ⁻	
2490.65 7	0.171 18	4428.28	(1 ⁺ ,2,3)	1937.492	(1,2,3) ⁻	
2493.18 14	0.043 6	4481.07	(2,3) ⁻	1987.979	(0 ⁻ to 4 ⁻)	
2500.45 5	0.51 5	3284.41	(2,3) ⁻	783.885	2 ⁻	
2504.34 & 13	0.038 & 5	3770.67?	(0 ⁻ to 3)	1266.300	(1,2,3) ⁻	
2504.34 & 13	0.038 & 5	4576.26	(2,3) ⁻	2072.009	(2,3) ⁻	
*2508.15 8	0.097 10					
2520.73 9	0.110 12	2627.847	(2 ⁻ ,3)	106.828	3 ⁻	
2523.30 8	0.132 14	5097.04	(0 ⁻ to 3)	2573.63	(2,3)	

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06 (continued)** $\gamma(^{42}\text{K})$ (continued)

$E_\gamma^\dagger$	$I_\gamma^{\ddagger@}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{x2526.25\ 7}$	0.180 19				
2530.77 6	0.33 4	(7533.80)	$1^+, 2^+$	5002.99	$(1^-, 2, 3)$
$^{x2533.17\ 9}$	0.090 10				
2537.36 7	0.146 16	2644.289	3^-	106.828	3^-
2542.11 13	0.045 6	5846.58	$(1^-, 2, 3^+)$	3304.36	1^+
2550.12 11	0.052 7	4013.89	$(0^- \text{ to } 3)$	1463.649	$(1^-, 2, 3)$
2554.93 12	0.064 9	4416.60	$(2, 3)^-$	1861.893	2^-
2556.94 7	0.137 15	3195.80	$(2^-, 3)$	638.726	3^-
2561.53 12	0.038 5	4748.54	3^-	2187.23	3^+
2566.86 9	0.089 10	4259.10	$(1^-, 2, 3)$	1692.00	$(1^- \text{ to } 4^-)$
2573.54 16	0.15 4	2573.63	$(2, 3)$	0.0	2^-
2574.57 20	0.12 4	(7533.80)	$1^+, 2^+$	4959.64	$(0^- \text{ to } 4^+)$
2580.79 9	0.074 9	5002.99	$(1^-, 2, 3)$	2422.155	$(1^-, 2, 3)$
2585.61 20	0.019 5	3696.39	$(3^-, 4^+)$	1110.744	3^+
2590.81 6	0.197 20	(7533.80)	$1^+, 2^+$	4942.97	$(1^- \text{ to } 4^-)$
2594.9 4	0.129 15	(7533.80)	$1^+, 2^+$	4938.98	$(1^-, 2, 3)$
2599.42 8	0.102 11	4416.60	$(2, 3)^-$	1816.879	$(2, 3, 4^-)$
2602.76 10	0.059 7	4806.83	$(1 \text{ to } 3)^-$	2204.046	$(2^-, 3, 4^+)$
2606.4 3	0.169 17	4013.89	$(0^- \text{ to } 3)$	1407.912	$(1^-, 2, 3)$
$^{x2617.48\ 9}$	0.083 9				
2622.61 16	0.042 7	3304.36	1^+	681.942	$(2, 3)$
2624.65 19	0.042 6	3323.73	3^-	699.087	5^-
2627.74 10	0.091 11	2627.847	$(2^-, 3)$	0.0	2^-
2629.79 10	0.125 14	(7533.80)	$1^+, 2^+$	4903.68	$(3^-, 4^+)$
2632.03 8	0.101 11	4039.96	$(1, 2, 3)$	1407.912	$(1^-, 2, 3)$
2648.38 6	0.181 19	3287.16	$(2^-, 3, 4^+)$	638.726	3^-
2653.56 10	0.055 7	2653.79	$(2^-, 3)$	0.0	2^-
2656.43 7	0.128 13	(7533.80)	$1^+, 2^+$	4877.25	$(0 \text{ to } 4^+)$
2660.49 17	0.026 4	3502.90	$(2^+, 3, 4^+)$	841.937	3^-
2664.15 12	0.070 9	4481.07	$(2, 3)^-$	1816.879	$(2, 3, 4^-)$
2666.13 11	0.074 10	4179.43	$(2^-, 3, 4^+)$	1513.069	$(1^- \text{ to } 5^-)$
$^{x2672.02\ 14}$	0.038 6				
$^{x2678.09\ 10}$	0.102 12				
2680.15 4	0.62 6	(7533.80)	$1^+, 2^+$	4853.60	$(0 \text{ to } 3)^-$
2685.17 8	0.087 10	3367.32	(1^+)	681.942	$(2, 3)$
2687.54 11	0.065 8	3798.14	$(2^-, 3, 4^+)$	1110.744	3^+
2691.07 7	0.137 14	4154.70	$(1^-, 2, 3)$	1463.649	$(1^-, 2, 3)$
2695.13 8	0.093 10	5097.04	$(0^- \text{ to } 3)$	2401.798	$(2, 3)^-$
2700.18 10	0.059 7	4938.98	$(1^-, 2, 3)$	2238.589	$(1, 2, 3)^-$
2706.03 12	0.035 5	4778.05	$(1^- \text{ to } 4^+)$	2072.009	$(2, 3)^-$
2710.0 4	0.009 3	5476.92	$(1^+, 2, 3)$	2765.960	$(2^+, 3)$
$^{x2717.29\ 7}$	0.137 14				
2720.05 25	0.30 3	4128.34	3^-	1407.912	$(1^-, 2, 3)$
2726.90 4	1.11 11	(7533.80)	$1^+, 2^+$	4806.83	$(1 \text{ to } 3)^-$
2730.74 11	0.044 5	5097.04	$(0^- \text{ to } 3)$	2366.172	$(2, 3)^-$
2740.08 6	0.27 3	4013.89	$(0^- \text{ to } 3)$	1273.517	2^-
2745.19 10	0.065 8	3529.03	$(0^- \text{ to } 3)$	783.885	2^-
2747.66 7	0.121 13	4013.89	$(0^- \text{ to } 3)$	1266.300	$(1, 2, 3)^-$
2751.5 4	0.184 19	4128.34	3^-	1377.121	$(2, 3)^-$
2755.7 5	0.154 16	(7533.80)	$1^+, 2^+$	4778.05	$(1^- \text{ to } 4^+)$
2762.47 10	0.061 7	3021.108	$(2, 3)^-$	258.260	4^-
2765.80 4	1.61 16	2765.960	$(2^+, 3)$	0.0	2^-
2770.75 13	0.036 5	2878.009	3^-	106.828	3^-
2774.0 3	0.066 7	4590.56	$(2^-, 3, 4^+)$	1816.879	$(2, 3, 4^-)$
2779.63 6	0.187 20	3418.44	$(2, 3)^-$	638.726	3^-
2781.84 5	0.35 4	4036.86	3^-	1254.821	2^-

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π
2784.8 3	0.114 12	(7533.80)	$1^+, 2^+$	4748.54	3^-
2787.39 7	0.165 17	4053.87	$(2,3)^-$	1266.300	$(1,2,3)^-$
*2789.74 6	0.27 3				
2810.15 6	0.183 19	2917.10	$(1^- \text{ to } 4^+)$	106.828	3^-
*2814.13 20	0.023 4				
2817.7 3	0.098 10	(7533.80)	$1^+, 2^+$	4715.40	$(2^-, 3)$
2820.84 20	0.031 4	3502.90	$(2^+, 3, 4^+)$	681.942	$(2,3)$
2823.40 19	0.029 4	3934.62	$(2^-, 3)$	1110.744	3^+
*2827.25 9	0.070 8				
2832.13 6	0.221 22	3674.14	$(1^-, 2,3)$	841.937	3^-
*2846.09 5	0.33 3				
2854.71 10	0.054 6	4128.34	3^-	1273.517	2^-
*2860.49 10	0.161 22				
2862.02 8	0.23 3	4128.34	3^-	1266.300	$(1,2,3)^-$
2873.6 4	0.233 24	(7533.80)	$1^+, 2^+$	4660.71	$(2^-, 3)$
2878.10 16	0.024 4	2878.009	3^-	0.0	2^-
2881.44 24	0.017 4	5759.69	$(1^-, 2, 3^+)$	2878.009	3^-
2887.15 22	0.016 3	4959.64	$(0^- \text{ to } 4^+)$	2072.009	$(2,3)^-$
2896.2 3	0.025 6	5759.69	$(1^-, 2, 3^+)$	2862.78	$(2^-, 3)$
2898.28 11	0.064 8	4715.40	$(2^-, 3)$	1816.879	$(2, 3, 4^-)$
2907.35 14	0.41 4	3014.46	$(1,2,3)^-$	106.828	3^-
*2913.56 9	0.061 7				
2919.9 6	0.25 7	(7533.80)	$1^+, 2^+$	4612.82	$(2^+, 3)$
2926.01 5	0.34 3	2926.09	$(2,3)^-$	0.0	2^-
2938.38 6	0.190 19	2938.60	$(1^-, 2, 3)$	0.0	2^-
2943.15 5	0.43 4	(7533.80)	$1^+, 2^+$	4590.56	$(2^-, 3, 4^+)$
2945.07 14	0.067 10	4806.83	$(1 \text{ to } 3)^-$	1861.893	2^-
2952.86 6	0.170 17	4416.60	$(2,3)^-$	1463.649	$(1^-, 2, 3)$
2957.39 5	0.36 4	(7533.80)	$1^+, 2^+$	4576.26	$(2,3)^-$
2961.11 9	0.069 8	4778.05	$(1^- \text{ to } 4^+)$	1816.879	$(2, 3, 4^-)$
2964.63 6	0.167 17	4428.28	$(1^+, 2, 3)$	1463.649	$(1^-, 2, 3)$
2977.04 5	0.54 5	(7533.80)	$1^+, 2^+$	4556.68	$(1^-, 2, 3)$
2981.69 & 19	0.027 & 4	4179.43	$(2^-, 3, 4^+)$	1197.904	4^-
2981.69 & 19	0.027 & 4	4389.78	$(2^-, 3, 4^+)$	1407.912	$(1^-, 2, 3)$
2984.32 12	0.061 7	4128.34	3^-	1143.593	4^+
2987.07 17	0.030 4	3770.67?	$(0^- \text{ to } 3)$	783.885	2^-
2991.87 10	0.071 9	3674.14	$(1^-, 2, 3)$	681.942	$(2,3)$
2997.69 24	0.020 4	3696.39	$(3^-, 4^+)$	699.087	5^-
3008.28 9	0.135 8	3008.33	3^-	0.0	2^-
3010.54 8	0.176 10	3794.62	$(0^- \text{ to } 3)$	783.885	2^-
3014.6 3	0.222 12	3696.39	$(3^-, 4^+)$	681.942	$(2,3)$
3021.07 8	0.308 16	3021.108	$(2,3)^-$	0.0	2^-
3025.54 9	0.119 7	4938.98	$(1^-, 2, 3)$	1913.460	$(2^-, 3)$
3028.89 7	0.407 21	3287.16	$(2^-, 3, 4^+)$	258.260	4^-
3034.90 7	0.484 24	3876.94	$(1^- \text{ to } 4^+)$	841.937	3^-
3039.92 8	0.305 23	3040.19	3^-	0.0	2^-
3052.69 7	0.80 4	(7533.80)	$1^+, 2^+$	4481.07	$(2,3)^-$
3065.38 19	0.024 3	3323.73	3^-	258.260	4^-
3077.33 10	0.074 5	4590.56	$(2^-, 3, 4^+)$	1513.069	$(1^- \text{ to } 5^-)$
3080.1 & 3	0.019 & 3	5318.95	$(2^-, 3)$	2238.589	$(1,2,3)^-$
3080.1 & 3	0.019 & 3	5846.58	$(1^-, 2, 3^+)$	2765.960	$(2^+, 3)$
3088.47 11	0.095 8	3770.67?	$(0^- \text{ to } 3)$	681.942	$(2,3)$
3090.55 9	0.213 12	(7533.80)	$1^+, 2^+$	4443.14	$(0^- \text{ to } 4^+)$
3092.86 9	0.136 9	4556.68	$(1^-, 2, 3)$	1463.649	$(1^-, 2, 3)$
3105.49 7	0.86 4	(7533.80)	$1^+, 2^+$	4428.28	$(1^+, 2, 3)$

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06 (continued)** $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡ @	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{3110.29}$ 8	0.291 16				
3112.50 & 9	0.145 & 9	3794.62	(0 ⁻ to 3)	681.942	(2,3)
3112.50 & 9	0.145 & 9	4576.26	(2,3) ⁻	1463.649	(1 ⁻ ,2,3)
3117.04 7	1.26 6	(7533.80)	1 ⁺ ,2 ⁺	4416.60	(2,3) ⁻
$^{3120.98}$ 16	0.037 3				
$^{3123.85}$ 10	0.095 6				
3126.83 & 10	0.099 & 6	3233.93	(3,4 ⁺)	106.828	3 ⁻
3126.83 & 10	0.099 & 6	4590.56	(2 ⁻ ,3,4 ⁺)	1463.649	(1 ⁻ ,2,3)
3144.36 11	0.282 14	(7533.80)	1 ⁺ ,2 ⁺	4389.78	(2 ⁻ ,3,4 ⁺)
3150.87 11	0.057 4	3934.62	(2 ⁻ ,3)	783.885	2 ⁻
3160.04 8	0.346 19	3418.44	(2,3) ⁻	258.260	4 ⁻
3161.66 8	0.22 3	4416.60	(2,3) ⁻	1254.821	2 ⁻
3161.82 8	0.22 3	4428.28	(1 ⁺ ,2,3)	1266.300	(1,2,3) ⁻
3177.25 16	0.195 11	3284.41	(2,3) ⁻	106.828	3 ⁻
3180.00 19	0.19 4	3862.04	(1 ⁻ to 4 ⁺)	681.942	(2,3)
$^{3181.20}$ 16	0.18 4				
3185.09 9	0.096 5	4877.25	(0 to 4 ⁺)	1692.00	(1 ⁻ to 4 ⁻)
3188.9 3	0.013 2	3295.35	(2,3)	106.828	3 ⁻
3195.59 8	0.255 13	3195.80	(2 ⁻ ,3)	0.0	2 ⁻
3206.66 22	0.019 2	3888.33	(2,3) ⁻	681.942	(2,3)
3210.46 8	0.219 11	3210.61	(1 ⁺ ,2,3)	0.0	2 ⁻
3216.47 19	0.044 6	3323.73	3 ⁻	106.828	3 ⁻
3220.89 9	0.138 7	5064.01	(1 ⁻ to 4 ⁺)	1842.971	(1 ⁻ ,2,3)
3224.0 3	0.016 3	3862.04	(1 ⁻ to 4 ⁺)	638.726	3 ⁻
$^{3226.97}$ 10	0.079 5				
$^{3234.13}$ 12	0.040 3				
$^{3238.49}$ 11	0.075 6				
$^{3240.73}$ 8	0.180 10				
3252.93 13	0.044 4	4660.71	(2 ⁻ ,3)	1407.912	(1 ⁻ ,2,3)
3258.0 3	0.020 4	5246.63	(1 ⁻ to 4 ⁺)	1987.979	(0 ⁻ to 4 ⁻)
3265.39 16	0.030 3	5179.13	(0 ⁻ to 4 ⁺)	1913.460	(2 ⁻ ,3)
3269.86 16	0.022 2	4053.87	(2,3) ⁻	783.885	2 ⁻
3274.47 9	0.120 7	(7533.80)	1 ⁺ ,2 ⁺	4259.10	(1 ⁻ ,2,3)
3278.85 23	0.032 5	4389.78	(2 ⁻ ,3,4 ⁺)	1110.744	3 ⁺
3280.8 7	0.019 5	5002.99	(1 ⁻ ,2,3)	1723.44	(2,3,4 ⁺)
3283.44 18	0.090 8	4556.68	(1 ⁻ ,2,3)	1273.517	2 ⁻
3285.6 4	0.043 6	4128.34	3 ⁻	841.937	3 ⁻
$^{3287.91}$ 16	0.076 7				
3290.62 23	0.024 3	4556.68	(1 ⁻ ,2,3)	1266.300	(1,2,3) ⁻
3295.16 11	0.051 4	3295.35	(2,3)	0.0	2 ⁻
3310.40 8	0.348 18	4152.35	(2 ⁻ ,3,4 ⁺)	841.937	3 ⁻
3312.74 10	0.082 6	4154.70	(1 ⁻ ,2,3)	841.937	3 ⁻
3317.11 19	0.019 2	4428.28	(1 ⁺ ,2,3)	1110.744	3 ⁺
3321.65 9	0.189 12	4105.74?	(0 ⁻ to 3)	783.885	2 ⁻
3323.69 9	0.210 12	3323.73	3 ⁻	0.0	2 ⁻
3338.36 23	0.047 4	4036.86	3 ⁻	699.087	5 ⁻
3342.50 20	0.019 2	4806.83	(1 to 3) ⁻	1463.649	(1 ⁻ ,2,3)
3346.01 & 23	0.023 & 3	4612.82	(2 ⁺ ,3)	1266.300	(1,2,3) ⁻
3346.01 & 23	0.023 & 3	5953.50	(1,2,3)	2606.996	(1 ⁻ ,2,3)
3350.64 14	0.115 14	5978.32	4 ⁺	2627.847	(2 ⁻ ,3)
3354.22 9	0.166 9	(7533.80)	1 ⁺ ,2 ⁺	4179.43	(2 ⁻ ,3,4 ⁺)
$^{3366.79}$ 11	0.075 6				
3367.20 8	0.098 13	3367.32	(1 ⁺)	0.0	2 ⁻
3370.05 8	0.21 3	4481.07	(2,3) ⁻	1110.744	3 ⁺

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06 (continued)** $\gamma(^{42}\text{K})$ (continued)

$E_\gamma^\dagger$	$I_\gamma^{\ddagger@}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
3379.07 8	0.215 12	(7533.80)	$1^+, 2^+$	4154.70	$(1^-, 2, 3)$
3381.31 8	0.65 3	(7533.80)	$1^+, 2^+$	4152.35	$(2^-, 3, 4^+)$
3394.24 12	0.041 3	4660.71	$(2^-, 3)$	1266.300	$(1, 2, 3)^-$
3399.5 3	0.102 6	3658.59	$(2^-, 3)$	258.260	4^-
3405.34 7	2.07 10	(7533.80)	$1^+, 2^+$	4128.34	3^-
x 3410.66 13	0.036 3				
x 3414.36 9	0.126 7				
3417.07 16	0.040 4	4259.10	$(1^-, 2, 3)$	841.937	3^-
3421.09 8	0.53 3	3421.27	$(0^- \text{ to } 3)$	0.0	2^-
3427.93 8	0.232 14	(7533.80)	$1^+, 2^+$	4105.74?	$(0^- \text{ to } 3)$
3429.87 8	0.250 15	(7533.80)	$1^+, 2^+$	4103.72	$(0^- \text{ to } 4^+)$
x 3439.12 10	0.071 4				
3446.56 10	0.066 4	4959.64	$(0^- \text{ to } 4^+)$	1513.069	$(1^- \text{ to } 5^-)$
3450.39 13	0.142 18	4903.68	$(3^-, 4^+)$	1453.05	$(2^-, 3, 4^-)$
x 3455.18 8	0.203 11				
3459.36 11	0.060 4	5710.61	$(2^-, 3, 4^+)$	2251.062	$(1^-, 2, 3)$
3465.26 10	0.081 5	4576.26	$(2, 3)^-$	1110.744	3^+
3468.99 $\&$ 9	0.182 $\&$ 10	4612.82	$(2^+, 3)$	1143.593	4^+
3468.99 $\&$ 9	0.182 $\&$ 10	4877.25	$(0 \text{ to } 4^+)$	1407.912	$(1^-, 2, 3)$
x 3474.27 8	0.219 11				
3479.73 $\&$ 8	0.311 $\&$ 16	4590.56	$(2^-, 3, 4^+)$	1110.744	3^+
3479.73 $\&$ 8	0.311 $\&$ 16	(7533.80)	$1^+, 2^+$	4053.87	$(2, 3)^-$
x 3483.49 15	0.027 3				
3489.45 8	0.496 25	4128.34	3^-	638.726	3^-
3493.77 9	0.160 9	(7533.80)	$1^+, 2^+$	4039.96	$(1, 2, 3)$
3496.67 8	0.472 24	(7533.80)	$1^+, 2^+$	4036.86	3^-
3501.7 3	0.012 2	5246.63	$(1^- \text{ to } 4^+)$	1745.613	$(2^+, 3^+)$
3514.40 12	0.044 3	3621.20	$(2, 3)$	106.828	3^-
3519.73 8	1.45 7	(7533.80)	$1^+, 2^+$	4013.89	$(0^- \text{ to } 3)$
x 3524.37 10	0.109 7				
3528.78 17	0.092 18	3529.03	$(0^- \text{ to } 3)$	0.0	2^-
3539.88 13	0.034 3	3798.14	$(2^-, 3, 4^+)$	258.260	4^-
x 3548.45 20	0.033 3				
3551.83 10	0.070 4	4806.83	$(1 \text{ to } 3)^-$	1254.821	2^-
x 3565.36 9	0.152 8				
3574.58 20	0.028 4	4416.60	$(2, 3)^-$	841.937	3^-
3576.98 11	0.061 5	4259.10	$(1^-, 2, 3)$	681.942	$(2, 3)$
3582.50 15	0.026 2	4959.64	$(0^- \text{ to } 4^+)$	1377.121	$(2, 3)^-$
3589.45 9	0.218 11	3696.39	$(3^-, 4^+)$	106.828	3^-
x 3594.07 15	0.026 2				
3599.03 8	0.339 17	(7533.80)	$1^+, 2^+$	3934.62	$(2^-, 3)$
x 3610.11 10	0.101 6				
3624.83 14	0.025 2	5697.22	$(1^- \text{ to } 4^+)$	2072.009	$(2, 3)^-$
3638.65 16	0.024 2	4481.07	$(2, 3)^-$	841.937	3^-
3643.46 8	0.336 19	(7533.80)	$1^+, 2^+$	3890.09	$(0^- \text{ to } 3)$
3645.26 10	0.151 12	(7533.80)	$1^+, 2^+$	3888.33	$(2, 3)^-$
3656.63 8	0.73 4	(7533.80)	$1^+, 2^+$	3876.94	$(1^- \text{ to } 4^+)$
3659.96 16	0.033 3	5476.92	$(1^+, 2, 3)$	1816.879	$(2, 3, 4^-)$
3671.70 8	0.87 4	(7533.80)	$1^+, 2^+$	3862.04	$(1^- \text{ to } 4^+)$
x 3688.20 8	0.332 17				
x 3698.33 15	0.042 3				
3701.91 9	0.117 6	(7533.80)	$1^+, 2^+$	3831.74?	$(1^+, 2, 3)$
3707.96 12	0.039 3	4389.78	$(2^-, 3, 4^+)$	681.942	$(2, 3)$
3714.28 17	0.019 2	4556.68	$(1^-, 2, 3)$	841.937	3^-
x 3727.98 11	0.057 3				

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^x3732.40$ 14	0.044 3				
3735.52 9	0.201 11	(7533.80)	$1^+, 2^+$	3798.14	$(2^-, 3, 4^+)$
3738.94 8	0.77 4	(7533.80)	$1^+, 2^+$	3794.62	$(0^- \text{ to } 3)$
$^x3752.52$ 13	0.051 4				
3755.06 9	0.139 8	3862.04	$(1^- \text{ to } 4^+)$	106.828	3^-
$^x3759.14$ 12	0.040 3				
3763.03 10	0.102 5	(7533.80)	$1^+, 2^+$	3770.67?	$(0^- \text{ to } 3)$
3769.86 11	0.069 4	3876.94	$(1^- \text{ to } 4^+)$	106.828	3^-
3777.70 9	0.067 7	4416.60	$(2, 3)^-$	638.726	3^-
3790.36 9	0.164 9	5064.01	$(1^- \text{ to } 4^+)$	1273.517	2^-
3794.82 12	0.040 3	3794.62	$(0^- \text{ to } 3)$	0.0	2^-
3801.25 17	0.018 2	5789.69	$(0 \text{ to } 4^+)$	1987.979	$(0^- \text{ to } 4^-)$
3814.8 3	0.026 6	5081.26	$(1^-, 2, 3)$	1266.300	$(1, 2, 3)^-$
3816.80 14	0.060 6	5978.32	4^+	2161.645	$(2^+, 3, 4^+)$
3827.56 12	0.045 3	3934.62	$(2^-, 3)$	106.828	3^-
3831.32 11	0.063 4	3831.74?	$(1^+, 2, 3)$	0.0	2^-
3837.27 8	0.96 5	(7533.80)	$1^+, 2^+$	3696.39	$(3^-, 4^+)$
3842.41 12	0.043 3	4481.07	$(2, 3)^-$	638.726	3^-
3859.48 9	0.52 3	(7533.80)	$1^+, 2^+$	3674.14	$(1^-, 2, 3)$
$^x3862.89$ 9	0.173 9				
3869.12 10	0.082 5	5246.63	$(1^- \text{ to } 4^+)$	1377.121	$(2, 3)^-$
3874.7 4	0.24 3	4556.68	$(1^-, 2, 3)$	681.942	$(2, 3)$
3875.05 9	0.80 5	(7533.80)	$1^+, 2^+$	3658.59	$(2^-, 3)$
3881.34 20	0.016 2	5953.50	$(1, 2, 3)$	2072.009	$(2, 3)^-$
3889.93 10	0.104 6	3890.09	$(0^- \text{ to } 3)$	0.0	2^-
3893.97 9	0.157 8	4152.35	$(2^-, 3, 4^+)$	258.260	4^-
$^x3901.54$ 9	0.166 9				
3912.28 9	0.350 18	(7533.80)	$1^+, 2^+$	3621.20	$(2, 3)$
$^x3914.57$ 18	0.040 5				
3935.39 19	0.017 2	4778.05	$(1^- \text{ to } 4^+)$	841.937	3^-
$^x3943.94$ 10	0.142 7				
$^x3952.66$ 10	0.169 9				
$^x3971.64$ 15	0.022 2				
4005.79 23	0.104 6	(7533.80)	$1^+, 2^+$	3529.03	$(0^- \text{ to } 3)$
4013.77 9	0.73 4	4013.89	$(0^- \text{ to } 3)$	0.0	2^-
$^x4020.19$ 13	0.034 2				
4022.8 4	0.301 15	4806.83	$(1 \text{ to } 3)^-$	783.885	2^-
4030.70 9	0.258 13	(7533.80)	$1^+, 2^+$	3502.90	$(2^+, 3, 4^+)$
4033.4 4	0.036 4	4715.40	$(2^-, 3)$	681.942	$(2, 3)$
4037.2 3	0.024 3	4036.86	3^-	0.0	2^-
4039.64 15	0.043 4	4039.96	$(1, 2, 3)$	0.0	2^-
4048.9 3	0.063 4	4748.54	3^-	699.087	5^-
4053.64 12	0.047 3	4053.87	$(2, 3)^-$	0.0	2^-
$^x4057.92$ 12	0.055 4				
$^x4064.34$ 11	0.065 4				
4095.81 18	0.019 2	4778.05	$(1^- \text{ to } 4^+)$	681.942	$(2, 3)$
4101.15 17	0.021 2	4942.97	$(1^- \text{ to } 4^-)$	841.937	3^-
4105.75 12	0.062 4	4105.74?	$(0^- \text{ to } 3)$	0.0	2^-
4112.20 9	0.59 3	(7533.80)	$1^+, 2^+$	3421.27	$(0^- \text{ to } 3)$
4115.15 9	1.72 9	(7533.80)	$1^+, 2^+$	3418.44	$(2, 3)^-$
4120.72 11	0.091 5	5318.95	$(2^-, 3)$	1197.904	4^-
4124.2 3	0.014 2	4806.83	$(1 \text{ to } 3)^-$	681.942	$(2, 3)$
4127.93 14	0.045 3	4128.34	3^-	0.0	2^-
4131.35 23	0.021 2	4389.78	$(2^-, 3, 4^+)$	258.260	4^-
4140.4 3	0.011 2	5630.29	(4^+)	1489.30	$(1^- \text{ to } 5^-)$
4154.22 12	0.050 3	4154.70	$(1^-, 2, 3)$	0.0	2^-

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π
4158.8 3	0.009 2	4416.60	(2,3) ⁻	258.260	4 ⁻
4166.20 10	0.321 16	(7533.80)	1 ⁺ ,2 ⁺	3367.32	(1 ⁺)
^x 4173.09 12	0.060 4				
^x 4182.98 15	0.025 2				
4203.80 23	0.016 2	4903.68	(3 ⁻ ,4 ⁺)	699.087	5 ⁻
4209.94 10	0.226 12	(7533.80)	1 ⁺ ,2 ⁺	3323.73	3 ⁻
^x 4212.71 13	0.055 4				
4218.71 25	0.012 2	5002.99	(1 ⁻ ,2,3)	783.885	2 ⁻
4229.38 11	0.210 11	(7533.80)	1 ⁺ ,2 ⁺	3304.36	1 ⁺
4233.87 22	0.018 2	5697.22	(1 ⁻ to 4 ⁺)	1463.649	(1 ⁻ ,2,3)
4238.31 11	0.219 11	(7533.80)	1 ⁺ ,2 ⁺	3295.35	(2,3)
4246.39 12	0.120 7	(7533.80)	1 ⁺ ,2 ⁺	3287.16	(2 ⁻ ,3,4 ⁺)
4249.24 10	0.91 5	(7533.80)	1 ⁺ ,2 ⁺	3284.41	(2,3) ⁻
4254.09 20	0.018 2	5630.29	(4 ⁺)	1376.10	6 ⁺
4258.95 13	0.042 3	4259.10	(1 ⁻ ,2,3)	0.0	2 ⁻
4270.35 16	0.021 2	5759.69	(1 ⁻ ,2,3 ⁺)	1489.30	(1 ⁻ to 5 ⁻)
^x 4294.41 24	0.014 2				
4299.71 9	0.490 25	(7533.80)	1 ⁺ ,2 ⁺	3233.93	(3,4 ⁺)
4309.58 12	0.049 3	4416.60	(2,3) ⁻	106.828	3 ⁻
4319.91 10	0.190 10	5697.22	(1 ⁻ to 4 ⁺)	1377.121	(2,3) ⁻
4322.90 9	0.460 23	(7533.80)	1 ⁺ ,2 ⁺	3210.61	(1 ⁺ ,2,3)
4331.5 4	0.022 2	4590.56	(2 ⁻ ,3,4 ⁺)	258.260	4 ⁻
4337.71 9	0.83 4	(7533.80)	1 ⁺ ,2 ⁺	3195.80	(2 ⁻ ,3)
4366.0 4	0.007 2	5476.92	(1 ⁺ ,2,3)	1110.744	3 ⁺
^x 4371.43 10	0.228 12				
4374.04 10	0.149 8	4481.07	(2,3) ⁻	106.828	3 ⁻
4399.00 18	0.027 2	5081.26	(1 ⁻ ,2,3)	681.942	(2,3)
4402.48 21	0.052 6	4660.71	(2 ⁻ ,3)	258.260	4 ⁻
4404.62 11	0.134 9	5246.63	(1 ⁻ to 4 ⁺)	841.937	3 ⁻
^x 4410.83 15	0.025 2				
4416.31 10	0.217 11	4416.60	(2,3) ⁻	0.0	2 ⁻
4425.20 10	0.141 8	5064.01	(1 ⁻ to 4 ⁺)	638.726	3 ⁻
^x 4432.87 15	0.031 2				
4442.06 11	0.076 4	5081.26	(1 ⁻ ,2,3)	638.726	3 ⁻
4457.3 3	0.012 2	4715.40	(2 ⁻ ,3)	258.260	4 ⁻
4465.4 3	0.009 2	5978.32	4 ⁺	1513.069	(1 ⁻ to 5 ⁻)
^x 4472.85 14	0.026 2				
4481.16 18	0.040 4	4481.07	(2,3) ⁻	0.0	2 ⁻
4483.7 3	0.035 4	4590.56	(2 ⁻ ,3,4 ⁺)	106.828	3 ⁻
4493.41 10	0.435 22	(7533.80)	1 ⁺ ,2 ⁺	3040.19	3 ⁻
^x 4504.02 12	0.073 5				
4512.50 9	1.26 6	(7533.80)	1 ⁺ ,2 ⁺	3021.108	(2,3) ⁻
4519.11 10	0.64 3	(7533.80)	1 ⁺ ,2 ⁺	3014.46	(1,2,3) ⁻
4525.18 10	0.89 5	(7533.80)	1 ⁺ ,2 ⁺	3008.33	3
4534.97 13	0.045 3	5318.95	(2 ⁻ ,3)	783.885	2 ⁻
^x 4568.52 11	0.107 6				
^x 4581.67 22	0.015 2				
4594.98 10	0.52 3	(7533.80)	1 ⁺ ,2 ⁺	2938.60	(1 ⁻ ,2,3)
4601.31 21	0.017 2	5978.32	4 ⁺	1376.10	6 ⁺
4607.48 10	0.440 22	(7533.80)	1 ⁺ ,2 ⁺	2926.09	(2,3) ⁻
4612.3 6	0.007 2	4612.82	(2 ⁺ ,3)	0.0	2 ⁻
4616.58 10	0.274 14	(7533.80)	1 ⁺ ,2 ⁺	2917.10	(1 ⁻ to 4 ⁺)
4636.57 20	0.016 2	5318.95	(2 ⁻ ,3)	681.942	(2,3)
4645.03 11	0.077 4	4903.68	(3 ⁻ ,4 ⁺)	258.260	4 ⁻
4655.62 10	0.58 3	(7533.80)	1 ⁺ ,2 ⁺	2878.009	3 ⁻
4670.93 10	0.465 23	(7533.80)	1 ⁺ ,2 ⁺	2862.78	(2 ⁻ ,3)

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

E_γ †	I_γ ‡@	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
^x 4675.94 15	0.027 2					
^x 4686.38 11	0.081 4					
4693.1 4	0.009 2	5476.92	(1 ⁺ ,2,3)	783.885	2 ⁻	
4698.54 11	0.148 8	5953.50	(1,2,3)	1254.821	2 ⁻	
^x 4709.19 22	0.014 2					
4714.7 5	0.007 2	4715.40	(2 ⁻ ,3)	0.0	2 ⁻	
^x 4731.14 17	0.020 2					
4734.5 4	0.008 2	5846.58	(1 ⁻ ,2,3 ⁺)	1110.744	3 ⁺	
^x 4745.37 23	0.023 3					
4747.9 4	0.014 3	4748.54	3 ⁻	0.0	2 ⁻	
4767.57 10	4.11 21	(7533.80)	1 ⁺ ,2 ⁺	2765.960	(2 ⁺ ,3)	Additional information 33.
4815.35 10	1.46 7	(7533.80)	1 ⁺ ,2 ⁺	2718.098	(2 ⁻ ,3)	
^x 4826.89 16	0.030 2					
^x 4830.94 17	0.027 2					
4853.29 11	0.205 10	4853.60	(0 to 3) ⁻	0.0	2 ⁻	
^x 4861.33 11	0.165 9					
4880.6 4	0.062 4	(7533.80)	1 ⁺ ,2 ⁺	2653.79	(2 ⁻ ,3)	
4889.17 10	0.94 5	(7533.80)	1 ⁺ ,2 ⁺	2644.289	3 ⁻	
4895.7 3	0.012 2	5002.99	(1 ⁻ ,2,3)	106.828	3 ⁻	
4905.67 10	0.59 3	(7533.80)	1 ⁺ ,2 ⁺	2627.847	(2 ⁻ ,3)	
4926.46 10	0.59 3	(7533.80)	1 ⁺ ,2 ⁺	2606.996	(1 ⁻ ,2,3)	
4938.54 13	0.049 3	4938.98	(1 ⁻ ,2,3)	0.0	2 ⁻	
4959.88 10	0.368 19	(7533.80)	1 ⁺ ,2 ⁺	2573.63	(2,3)	
^x 4985.71 14	0.042 3					
^x 5031.31 12	0.121 8					
5051.32 10	2.01 10	(7533.80)	1 ⁺ ,2 ⁺	2482.147	(1,2,3) ⁻	
5057.6 3	0.013 2	5697.22	(1 ⁻ to 4 ⁺)	638.726	3 ⁻	
5080.94 13	0.059 3	5081.26	(1 ⁻ ,2,3)	0.0	2 ⁻	
5096.55 15	0.029 2	5097.04	(0 ⁻ to 3)	0.0	2 ⁻	
5111.39 10	2.01 10	(7533.80)	1 ⁺ ,2 ⁺	2422.155	(1 ⁻ ,2,3)	
5131.64 10	3.69 18	(7533.80)	1 ⁺ ,2 ⁺	2401.798	(2,3) ⁻	Additional information 34.
5144.68 11	1.03 5	(7533.80)	1 ⁺ ,2 ⁺	2388.835	3 ⁺	
5167.28 10	6.6 3	(7533.80)	1 ⁺ ,2 ⁺	2366.172	(2,3) ⁻	Additional information 35.
^x 5227.9 7	0.005 2					
^x 5239.85 22	0.017 2					
5282.38 11	0.54 3	(7533.80)	1 ⁺ ,2 ⁺	2251.062	(1 ⁻ ,2,3)	
5294.82 11	2.65 13	(7533.80)	1 ⁺ ,2 ⁺	2238.589	(1,2,3) ⁻	Additional information 36.
^x 5316.71 24	0.013 2					
5328.2 3	0.125 6	(7533.80)	1 ⁺ ,2 ⁺	2204.046	(2 ⁻ ,3,4 ⁺)	
5339.22 14	0.049 3	5978.32	4 ⁺	638.726	3 ⁻	
5346.34 13	0.058 3	(7533.80)	1 ⁺ ,2 ⁺	2187.23	3 ⁺	
5371.91 11	0.383 19	(7533.80)	1 ⁺ ,2 ⁺	2161.645	(2 ⁺ ,3,4 ⁺)	
^x 5405.17 23	0.013 1					
5452.25 16	0.028 2	5710.61	(2 ⁻ ,3,4 ⁺)	258.260	4 ⁻	
5461.44 11	2.52 13	(7533.80)	1 ⁺ ,2 ⁺	2072.009	(2,3) ⁻	Additional information 37.
5484.12 11	1.82 9	(7533.80)	1 ⁺ ,2 ⁺	2049.320	3 ⁺	
5595.93 11	1.37 7	(7533.80)	1 ⁺ ,2 ⁺	1937.492	(1,2,3) ⁻	
5619.90 [#] 15	0.61 [#] 3	(7533.80)	1 ⁺ ,2 ⁺	1913.460	(2 ⁻ ,3)	
5671.50 12	3.71 19	(7533.80)	1 ⁺ ,2 ⁺	1861.893	2 ⁻	Additional information 38.
5690.44 12	2.26 11	(7533.80)	1 ⁺ ,2 ⁺	1842.971	(1 ⁻ ,2,3)	
5716.54 12	0.187 10	(7533.80)	1 ⁺ ,2 ⁺	1816.879	(2,3,4 ⁻)	
5787.79 13	0.155 8	(7533.80)	1 ⁺ ,2 ⁺	1745.613	(2 ⁺ ,3 ⁺)	
5810.00 12	0.63 3	(7533.80)	1 ⁺ ,2 ⁺	1723.44	(2,3,4 ⁺)	
^x 5828.69 24	0.011 1					
^x 5840.01 21	0.013 1					
^x 5852.66 16	0.030 2					

Continued on next page (footnotes at end of table)

$^{41}\text{K}(\text{n},\gamma)\text{E=thermal}$ **1985Kr06** (continued) $\gamma(^{42}\text{K})$ (continued)

$E_\gamma^\dagger$	$I_\gamma^\ddagger@$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
^x 5858.0 5	0.005 1					
^x 5959.42 18	0.022 1					
^x 6047.7 4	0.005 1					
6069.65 13	0.310 16	(7533.80)	1 ⁺ ,2 ⁺	1463.649	(1 ⁻ ,2,3)	
6125.37 13	0.370 19	(7533.80)	1 ⁺ ,2 ⁺	1407.912	(1 ⁻ ,2,3)	
6133.19 16	0.400 20	(7533.80)	1 ⁺ ,2 ⁺	1400.03	(2,3)	
6156.15 13	0.90 5	(7533.80)	1 ⁺ ,2 ⁺	1377.121	(2,3) ⁻	Additional information 39.
6259.76 13	0.369 19	(7533.80)	1 ⁺ ,2 ⁺	1273.517	2 ⁻	
6267.03 13	0.79 4	(7533.80)	1 ⁺ ,2 ⁺	1266.300	(1,2,3) ⁻	
6278.49 13	1.54 8	(7533.80)	1 ⁺ ,2 ⁺	1254.821	2 ⁻	Additional information 40.
6389.70 14	0.206 10	(7533.80)	1 ⁺ ,2 ⁺	1143.593	4 ⁺	
6422.57 13	0.64 3	(7533.80)	1 ⁺ ,2 ⁺	1110.744	3 ⁺	
6691.34 14	0.79 4	(7533.80)	1 ⁺ ,2 ⁺	841.937	3 ⁻	
6851.29 14	5.6 3	(7533.80)	1 ⁺ ,2 ⁺	681.942	(2,3)	Additional information 41.
6894.52 14	1.25 6	(7533.80)	1 ⁺ ,2 ⁺	638.726	3 ⁻	Additional information 42.
7426.34 15	3.21 16	(7533.80)	1 ⁺ ,2 ⁺	106.828	3 ⁻	Additional information 43.
7533.16 15	1.86 9	(7533.80)	1 ⁺ ,2 ⁺	0.0	2 ⁻	Additional information 44.

[†] Systematic uncertainties of 5 ppm below 1.5 MeV energy, 10 ppm between 1.5 MeV and 3.0 MeV, and 20 ppm above 3 MeV photon energy are included.

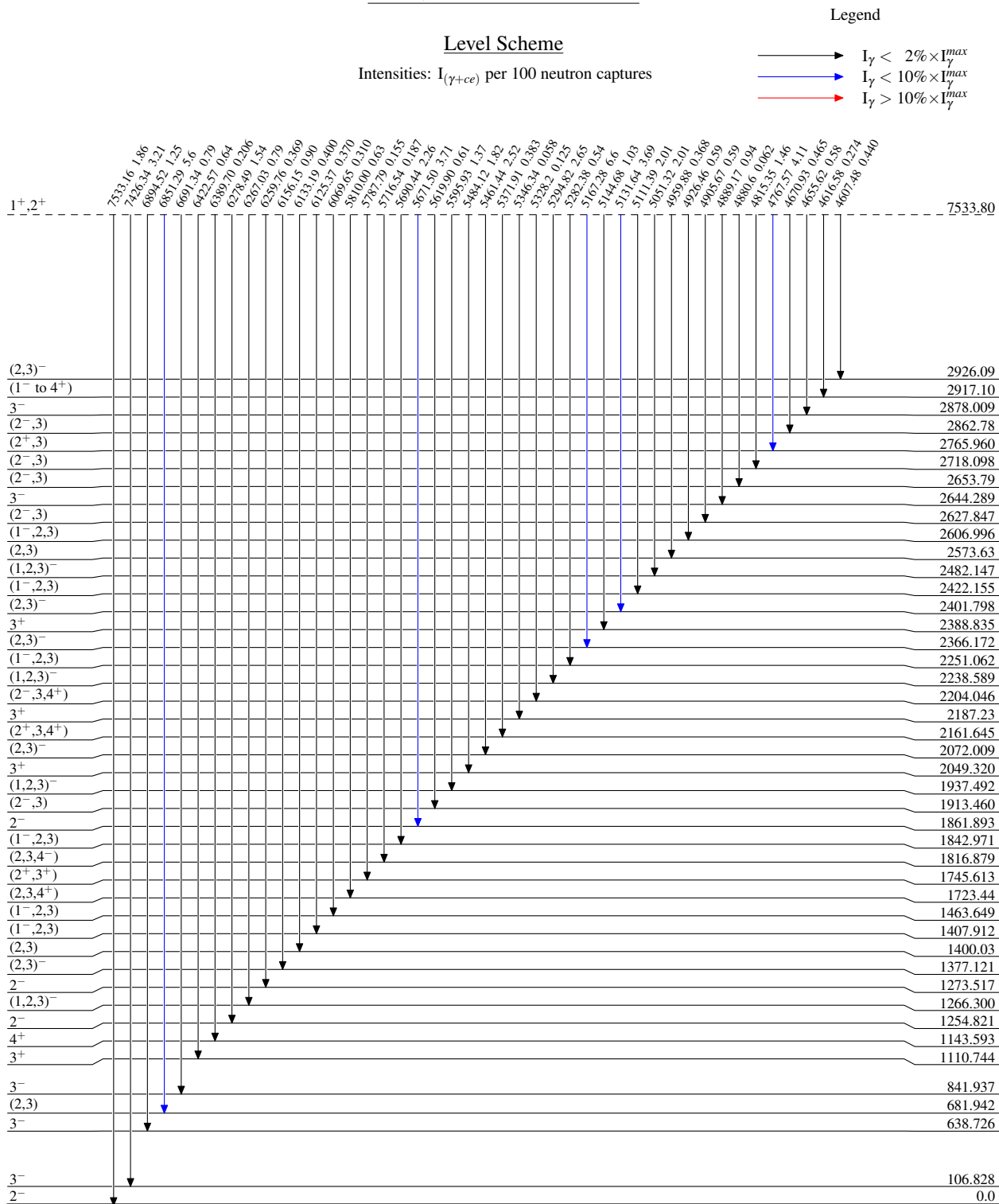
[‡] Intensities are per 100 neutron captures. Systematic uncertainties of 20% below 0.5 MeV, 15% between 0.5 MeV and 2 MeV, 10% between 2.0 MeV and 3.0 MeV, and 5% above 3 MeV are included. To obtain absolute cross section on the scale given in [2013Fi01](#), multiply listed I_γ value by an approximate factor of 0.0150. The obtained values of cross sections have been compared with corresponding ones in [2013Fi01](#) and they are in a good agreement within uncertainties, except for a few γ rays: 454.01, 830.89 and 1121.70, for which the values from [2013Fi01](#) is significantly higher.

[#] From $E(\text{transition})=5620.30$, branching=0.65% 3 as listed in table 3 of [1985Kr06](#).

[@] Intensity per 100 neutron captures.

[&] Multiply placed with undivided intensity.

^x γ ray not placed in level scheme.

$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

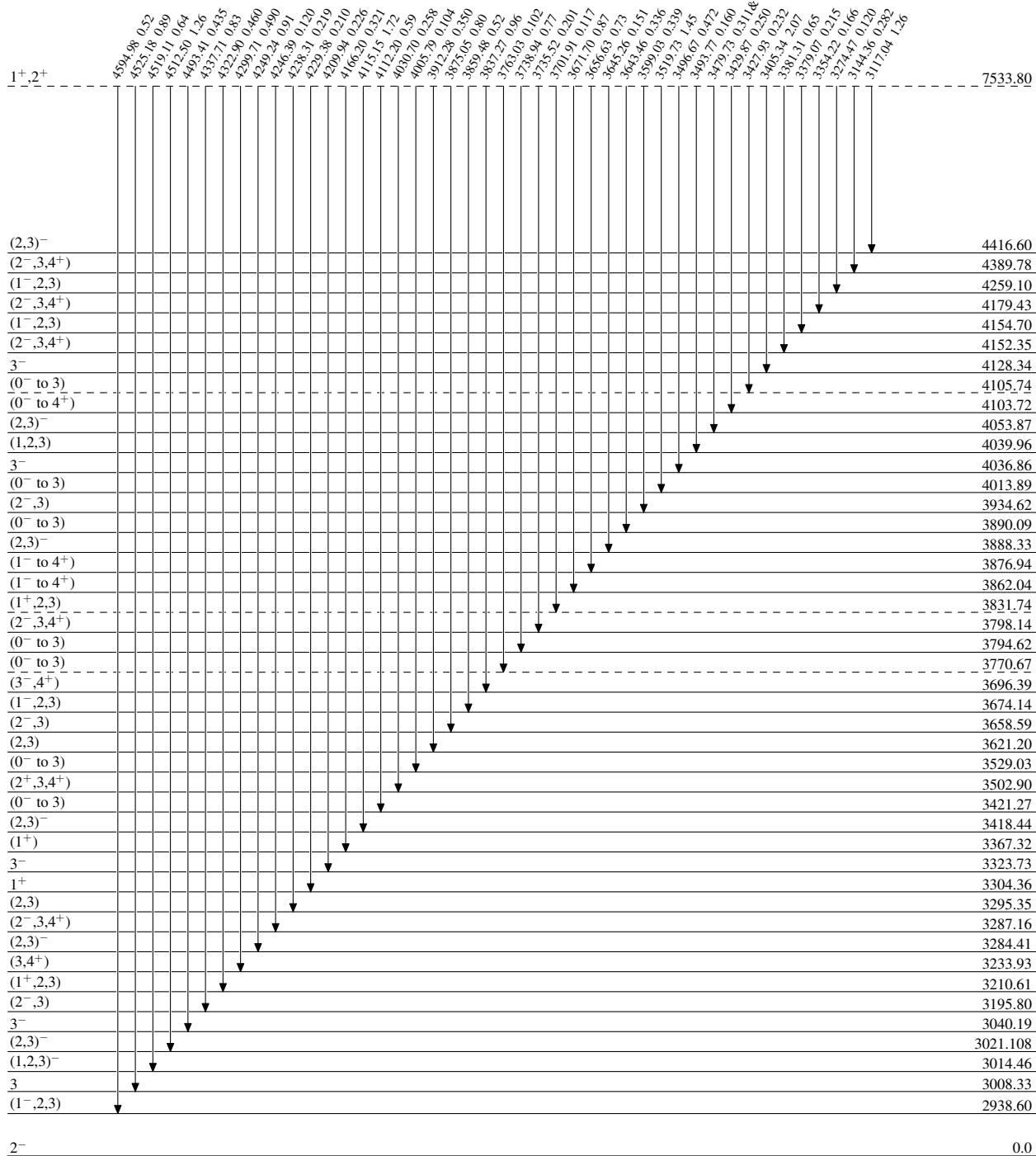
$^{41}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Legend

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

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



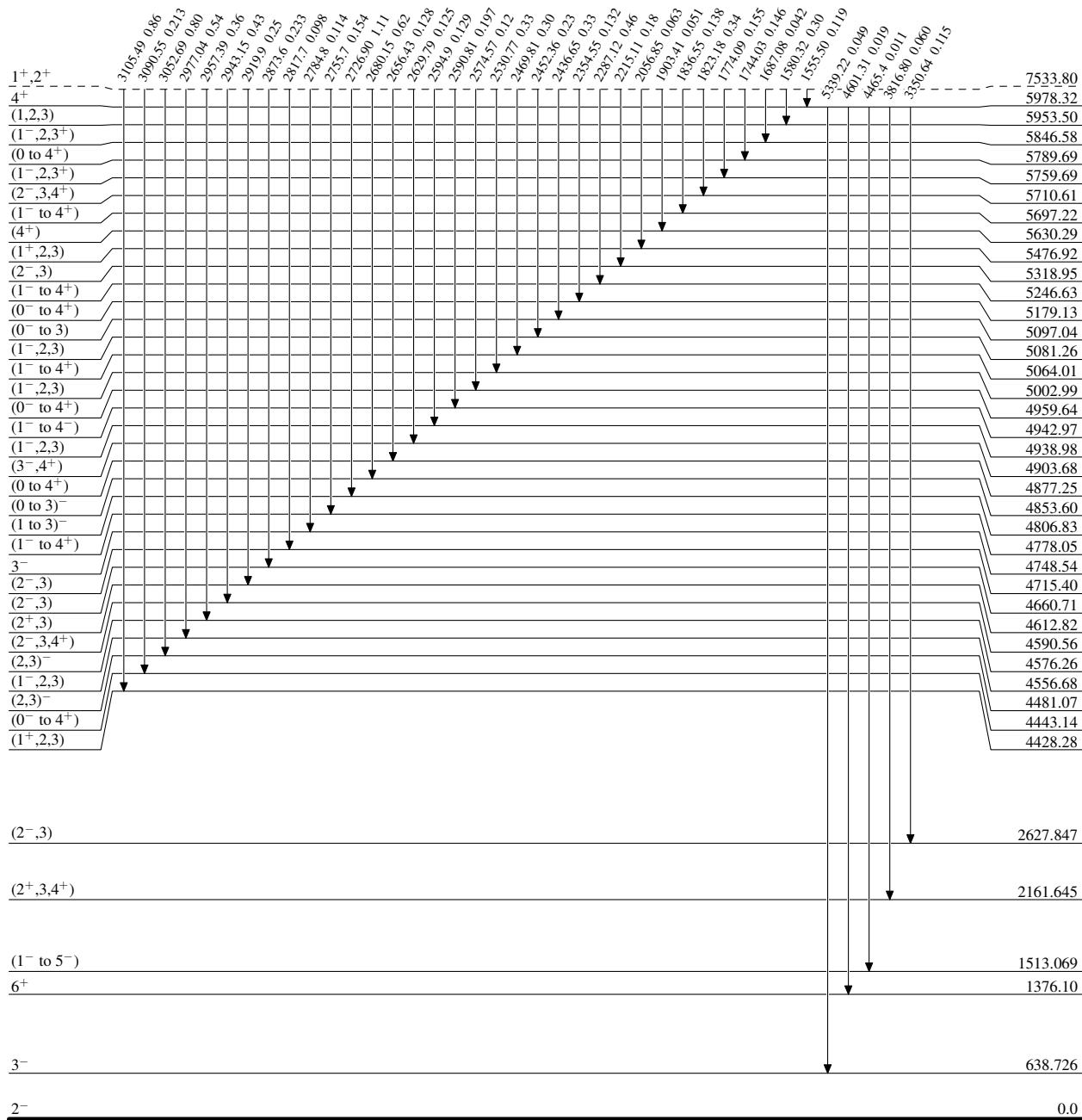
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Legend

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

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



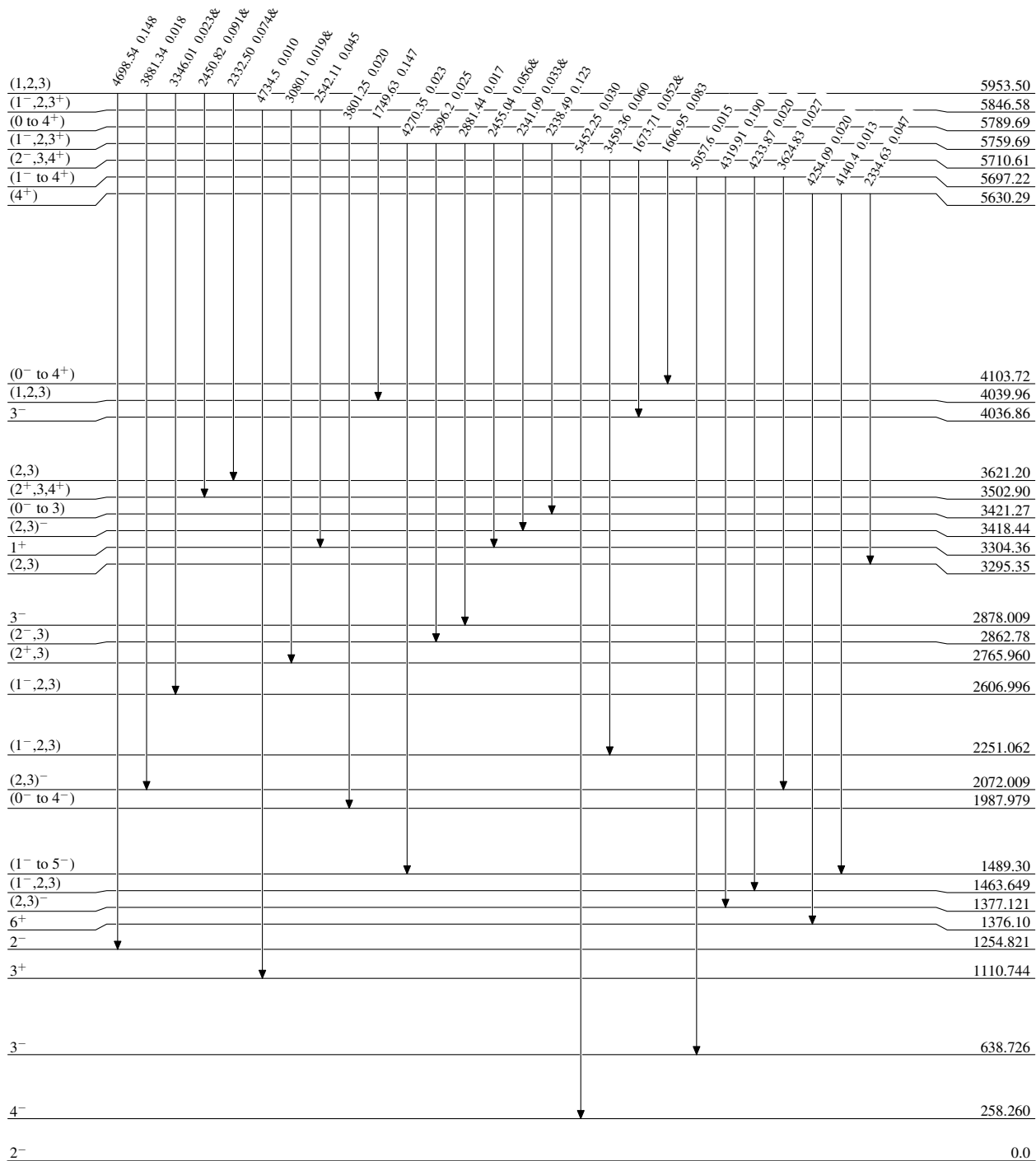
$^{41}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

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



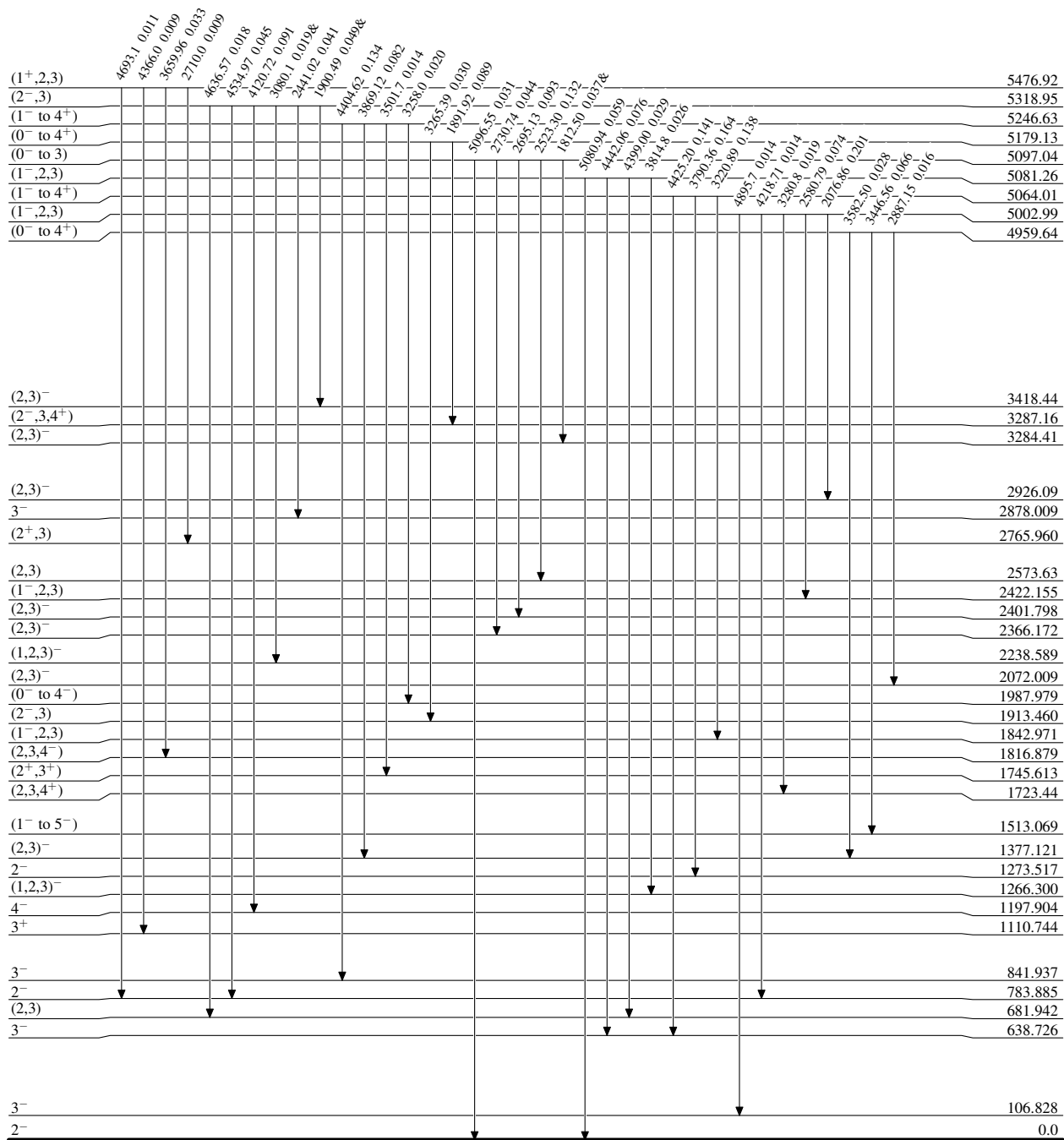
$^{41}\text{K}(\text{n},\gamma)$ E=thermal 1985Kr06

Level Scheme (continued)

Legend

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

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

 $^{42}_{19}\text{K}_{23}$

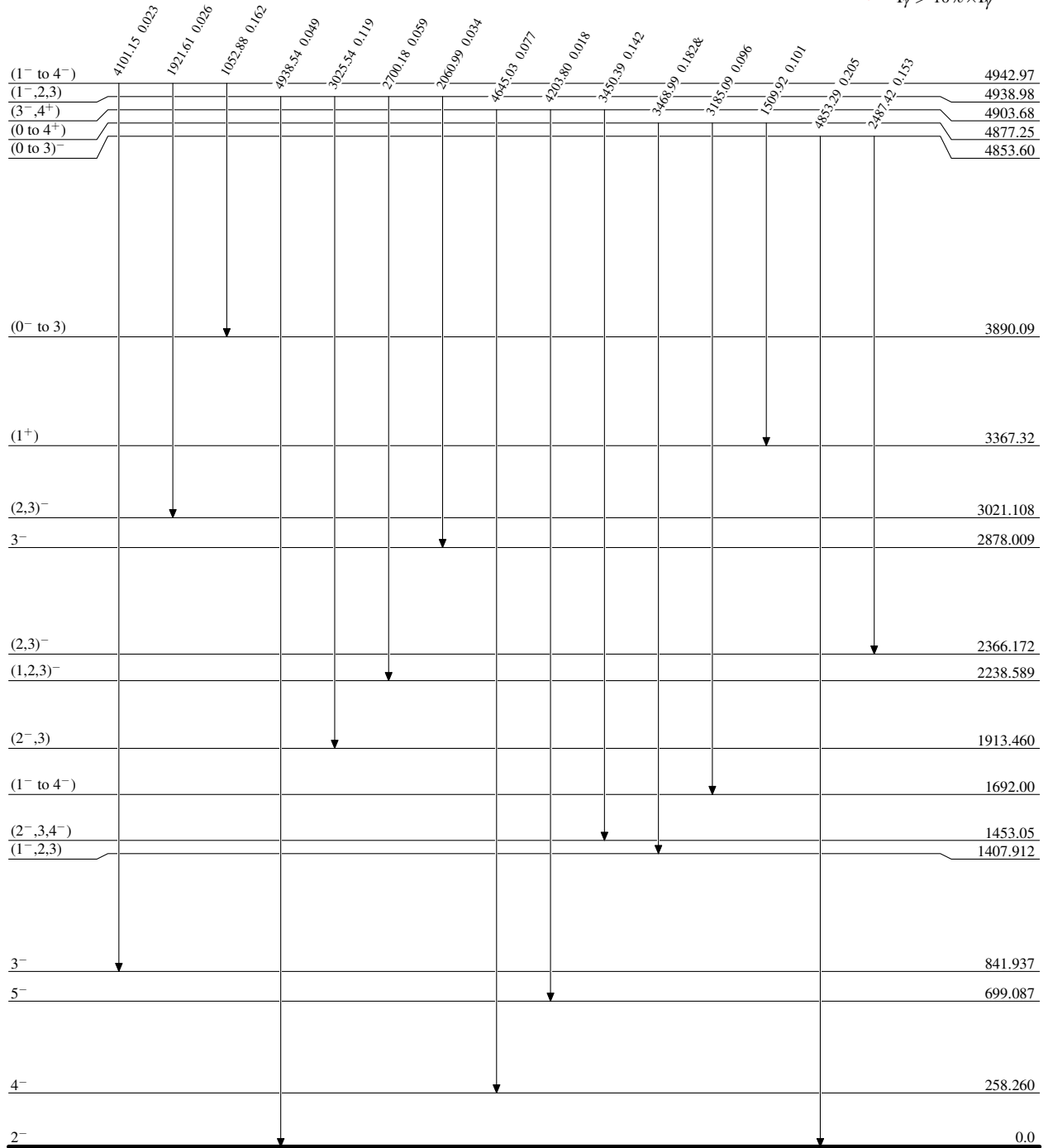
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

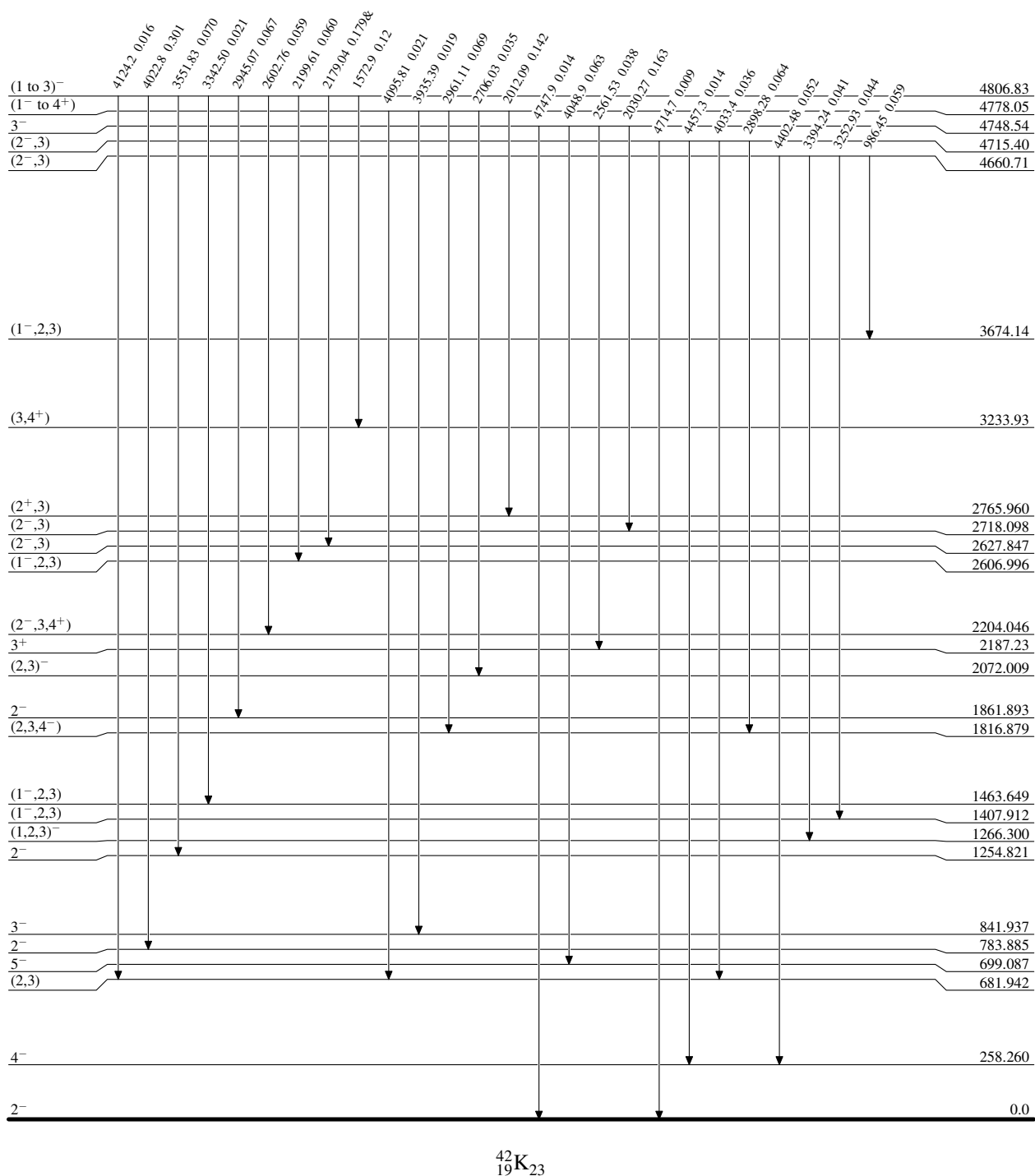
Legend

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

 $^{42}_{19}\text{K}_{23}$

Legend

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



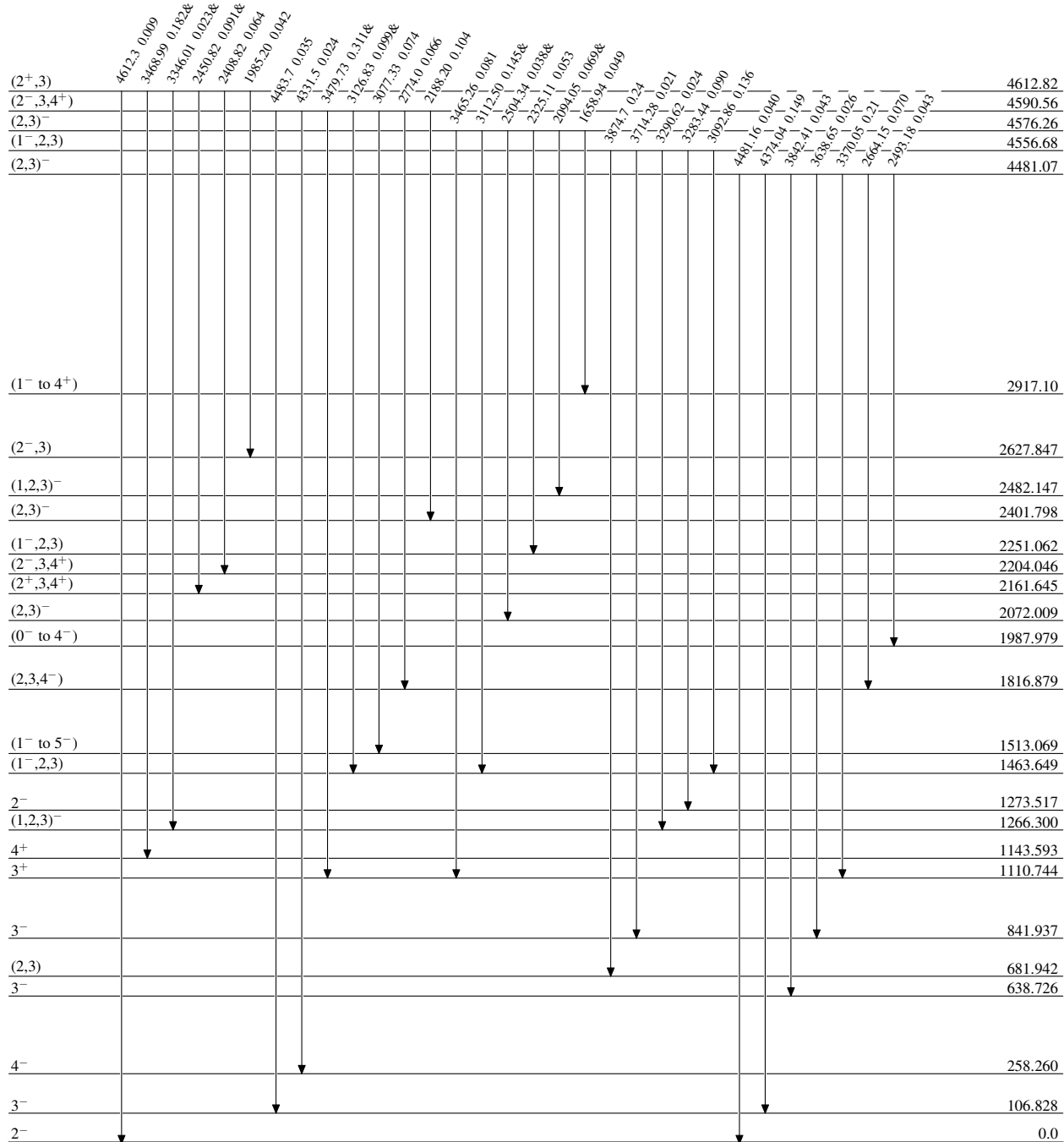
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Legend

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

 $^{42}_{19}\text{K}_{23}$

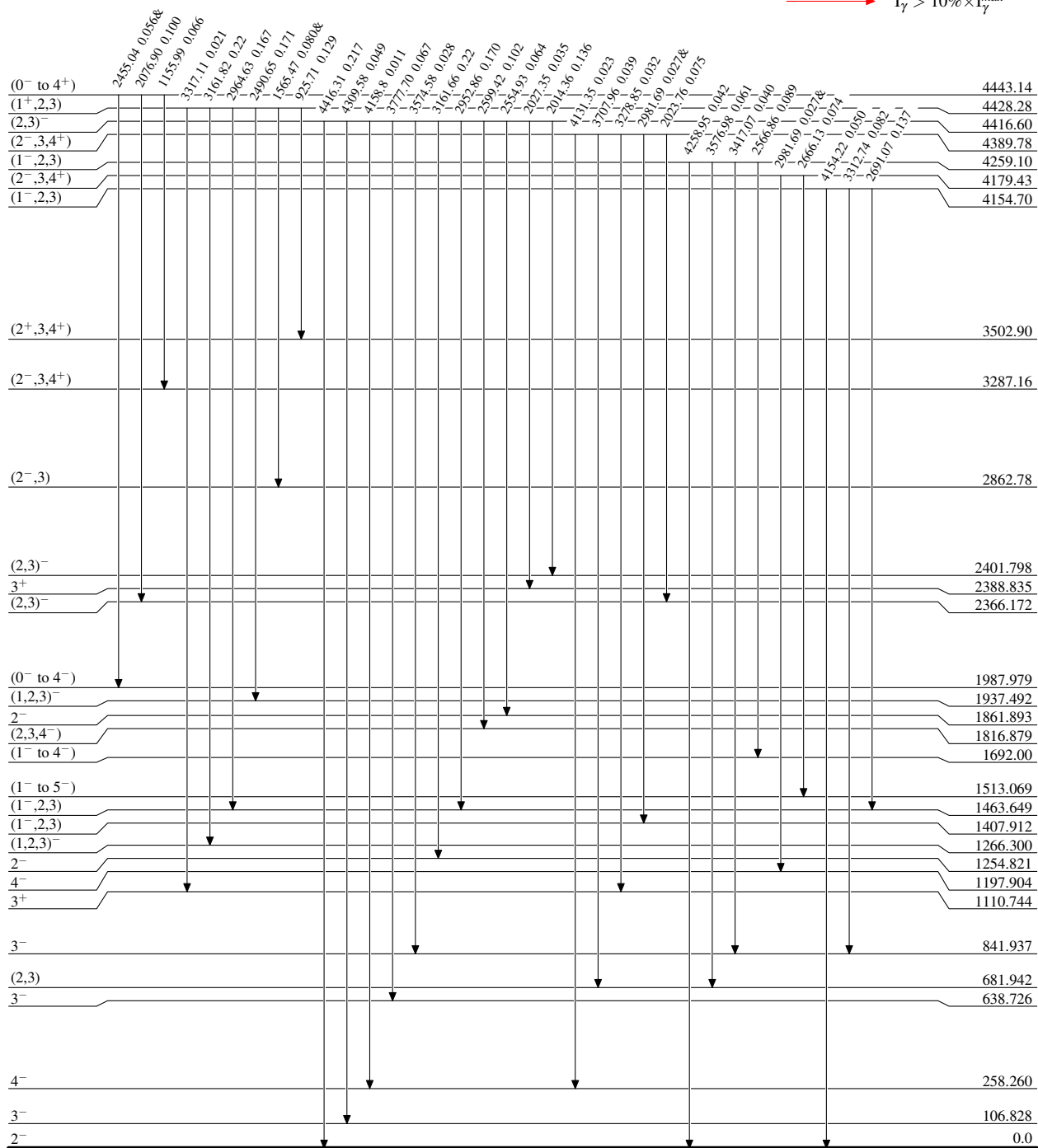
$^{41}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

 $^{42}_{19}\text{K}_{23}$

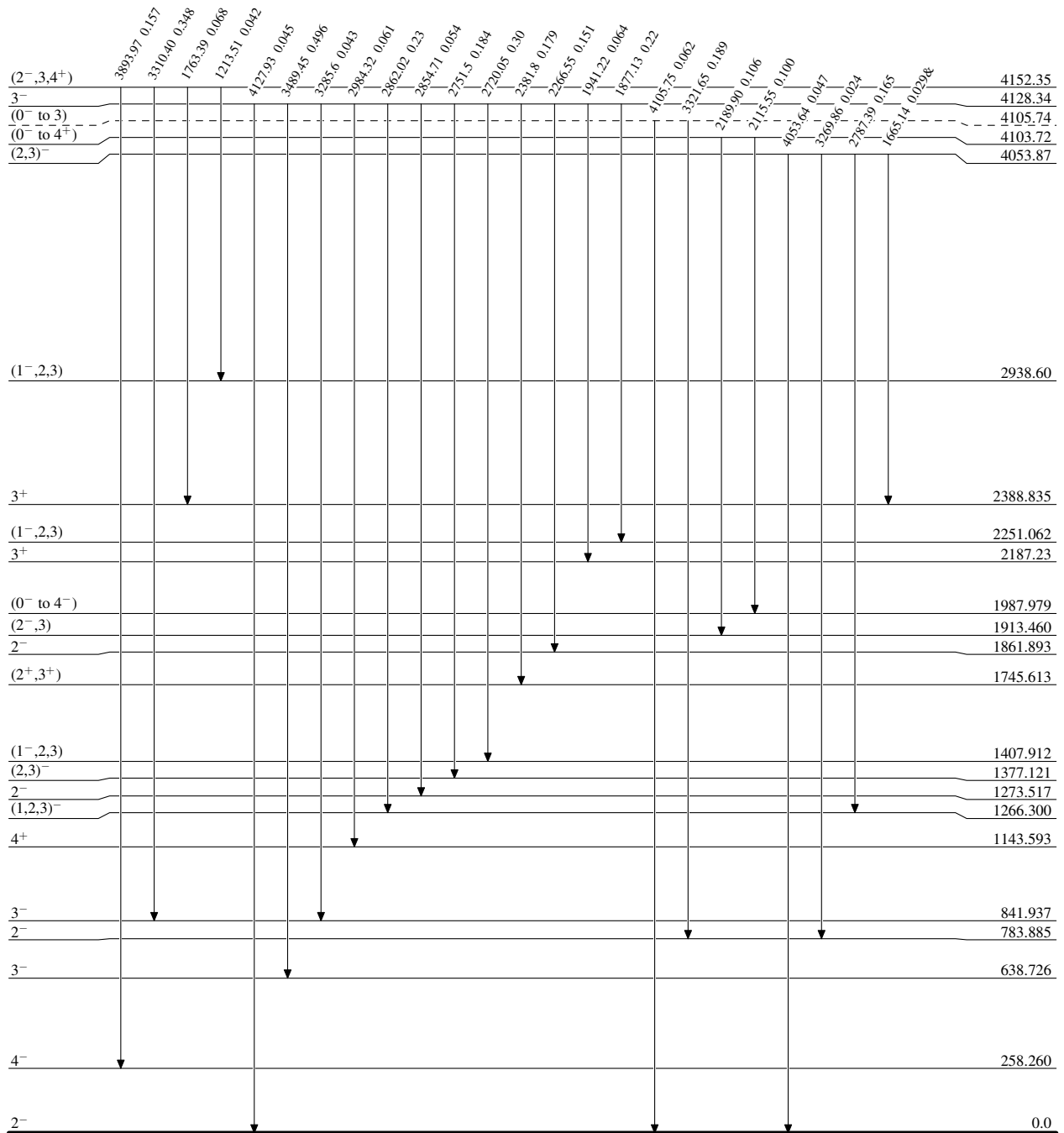
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

 $^{42}_{19}\text{K}_{23}$

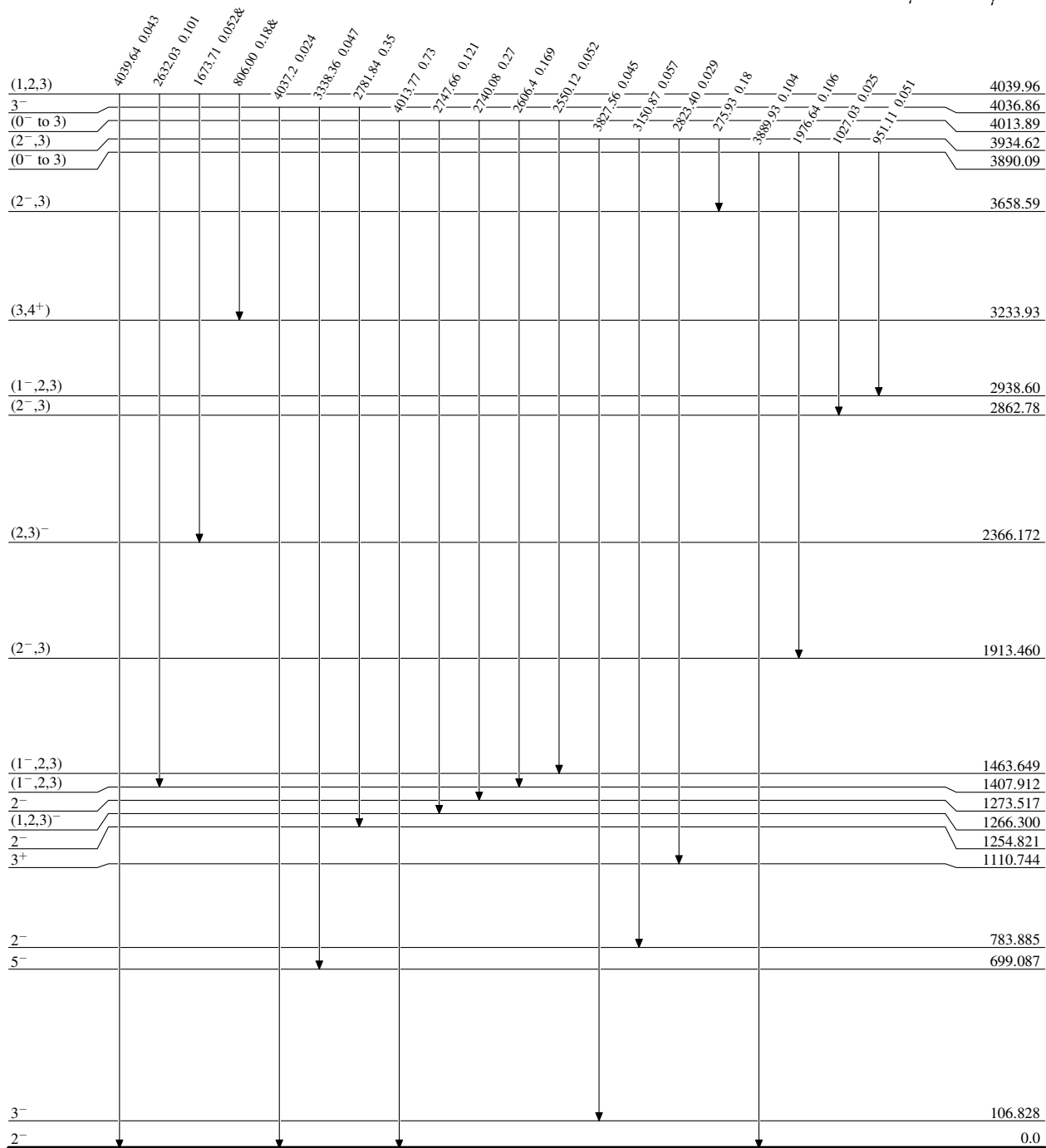
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

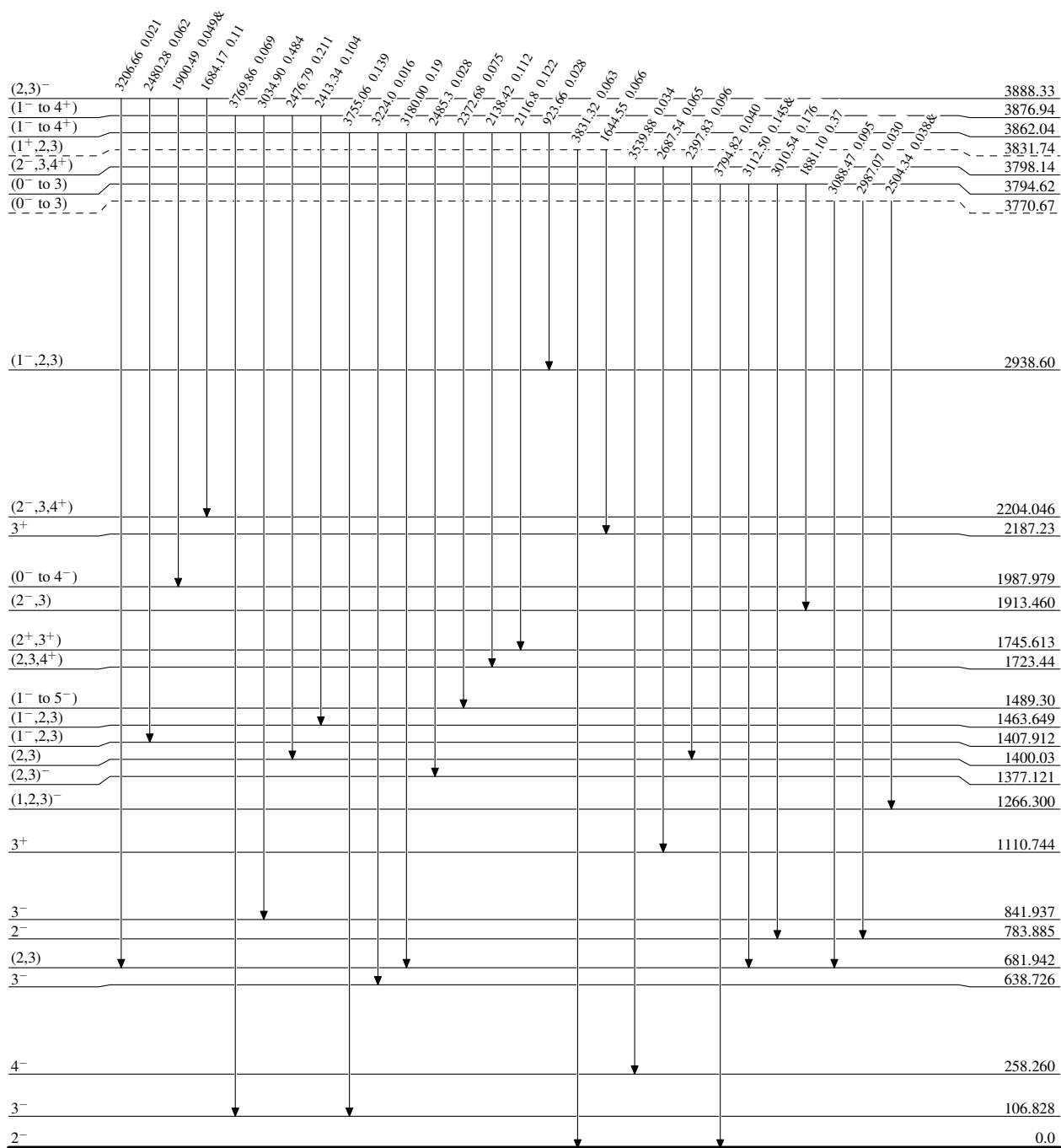
Legend

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



Legend

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

 ${}^{42}_{19}\text{K}_{23}$

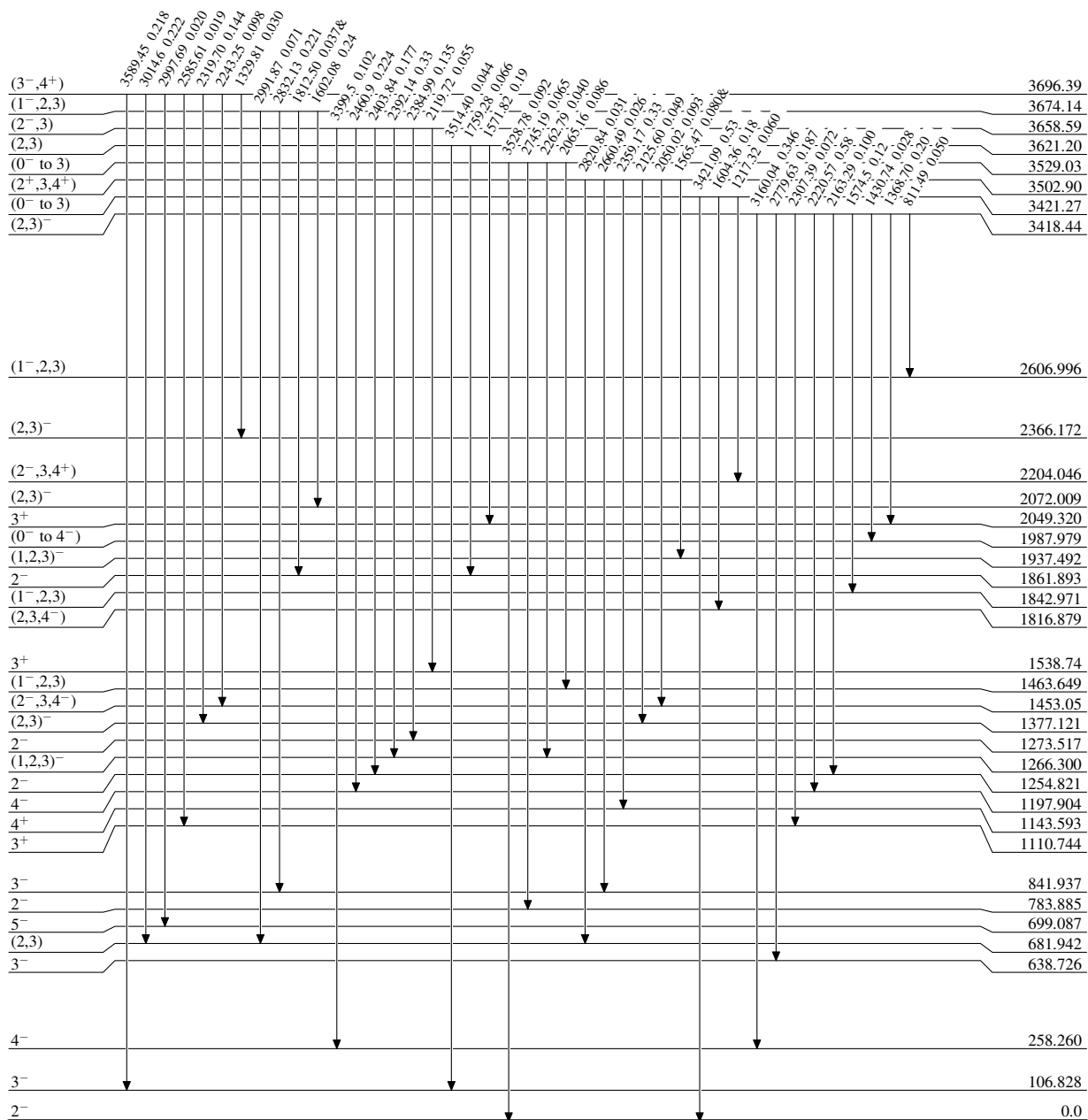
$^{41}\text{K}(\text{n},\gamma)$ E=thermal 1985Kr06

Level Scheme (continued)

Legend

Intensities: $I_{\gamma+ce}$ per 100 neutron captures
& Multiply placed: undivided intensity given

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
—→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
—→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$



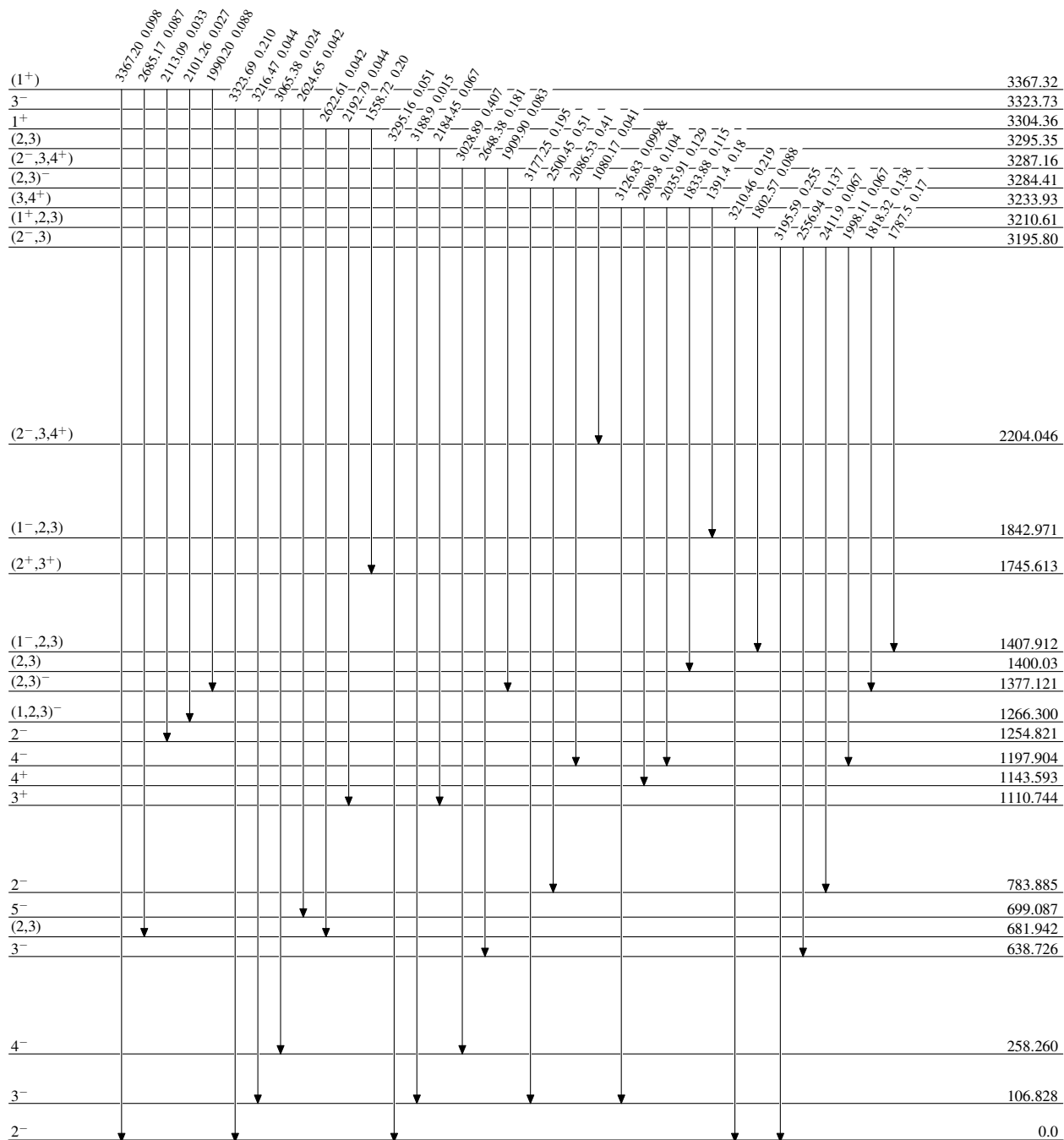
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

 $^{42}_{19}\text{K}_{23}$

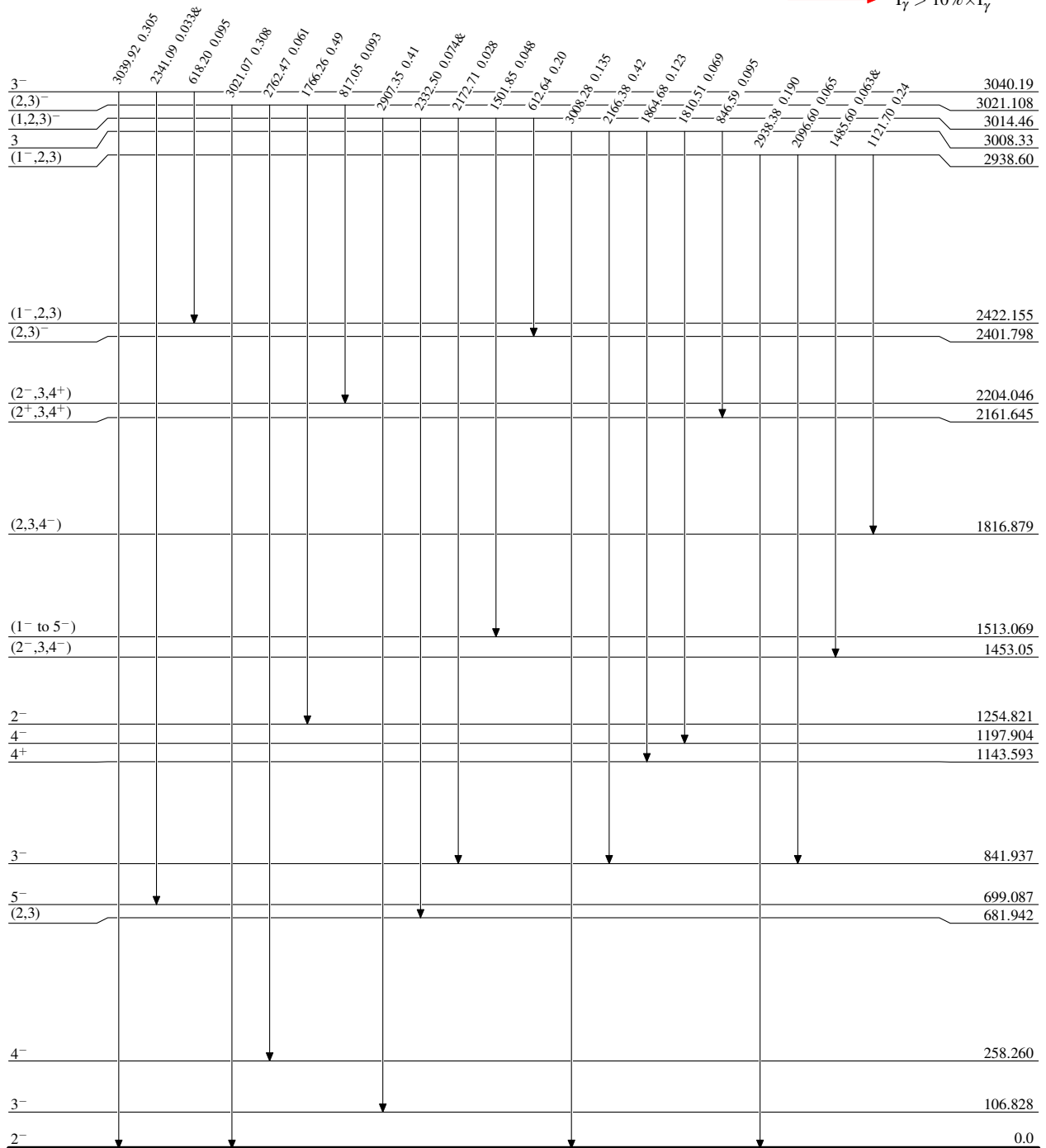
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

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

 $^{42}_{19}\text{K}_{23}$

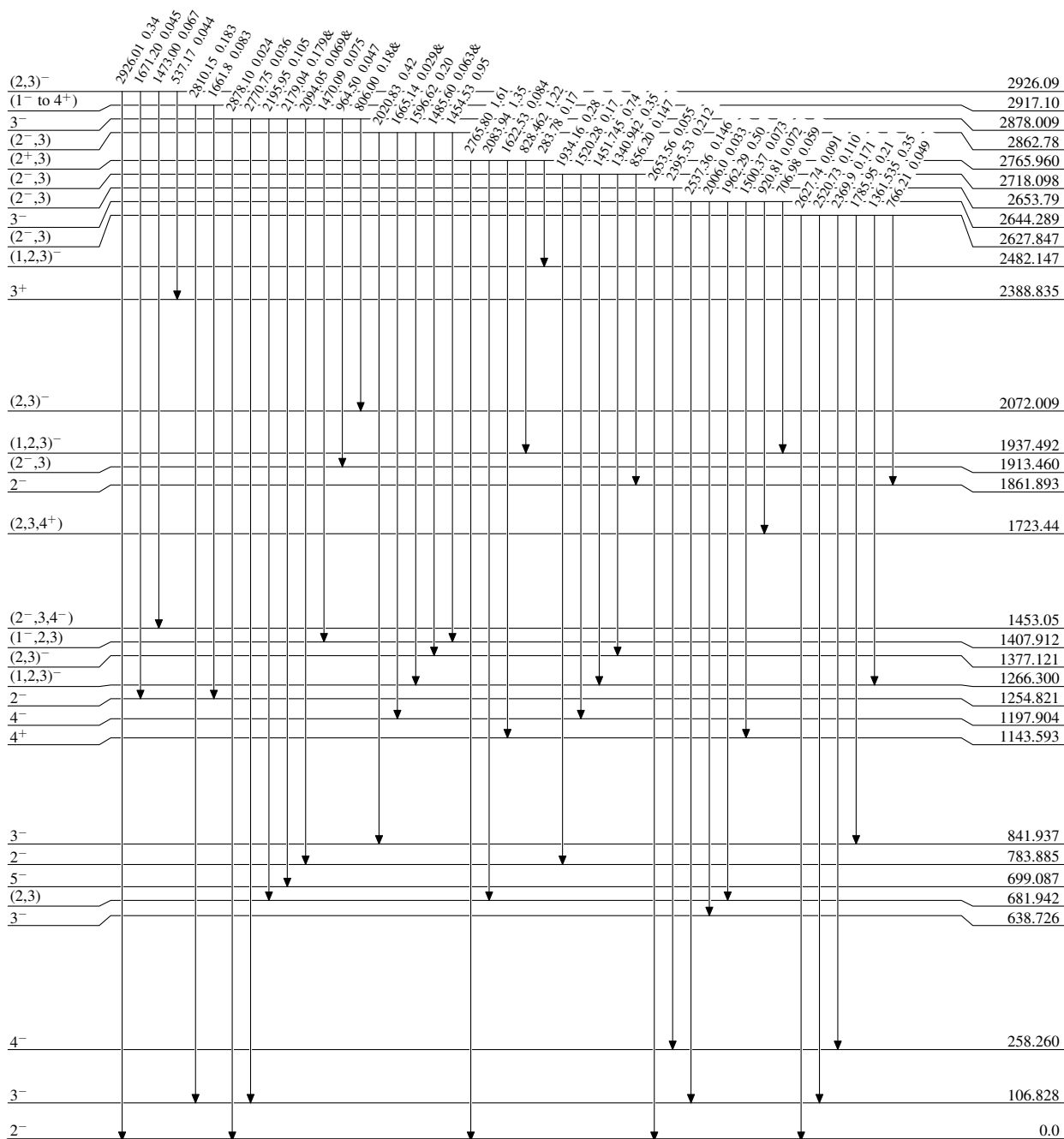
$^{41}\text{K}(\text{n},\gamma)$ E=thermal 1985Kr06

Level Scheme (continued)

Intensities: $I_{\gamma+ce}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

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

 $^{42}_{19}\text{K}_{23}$

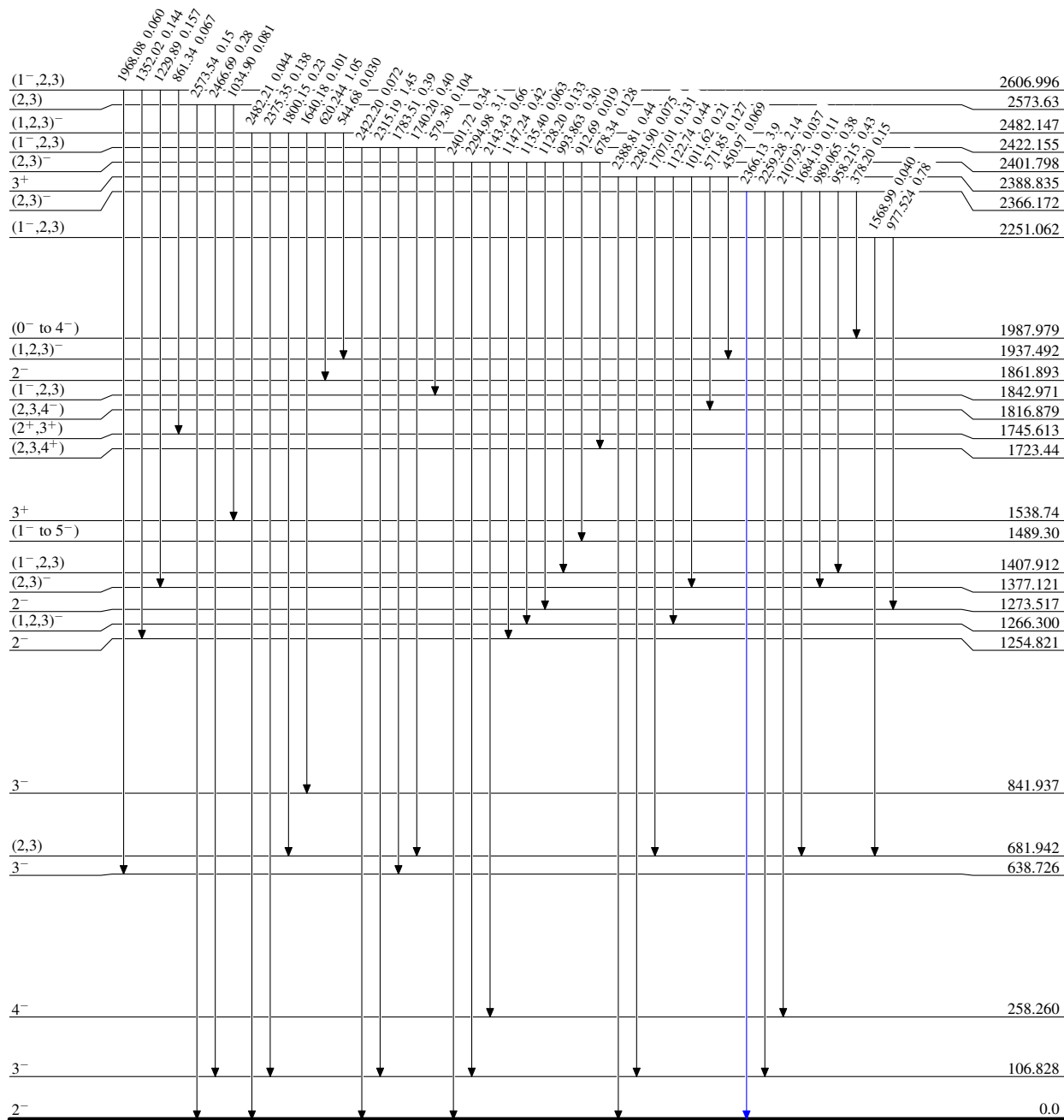
$^{41}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

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

 $^{42}_{19}\text{K}_{23}$

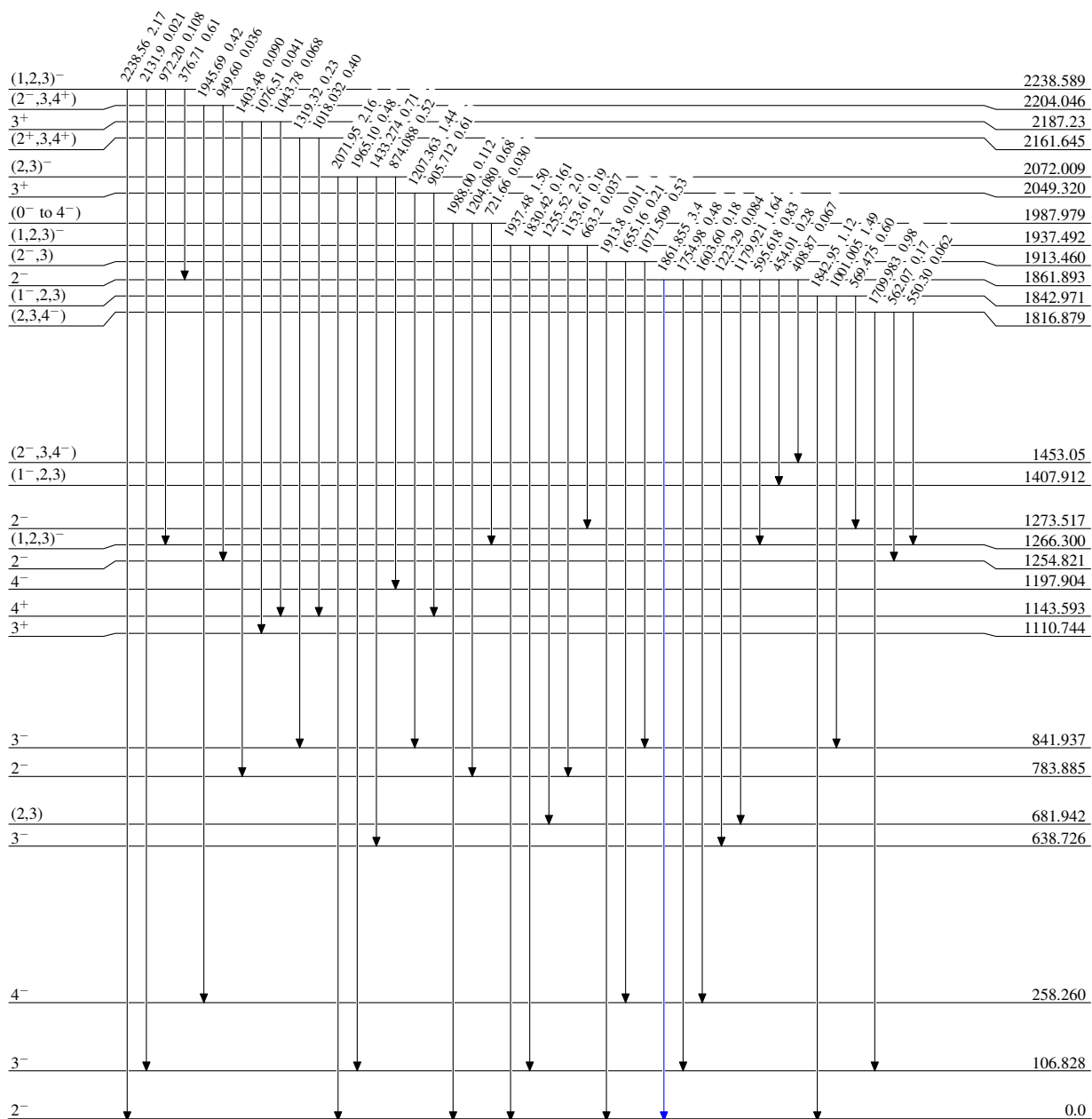
$^{41}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1985Kr06

Level Scheme (continued)

Intensities: $I_{\gamma+ce}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$



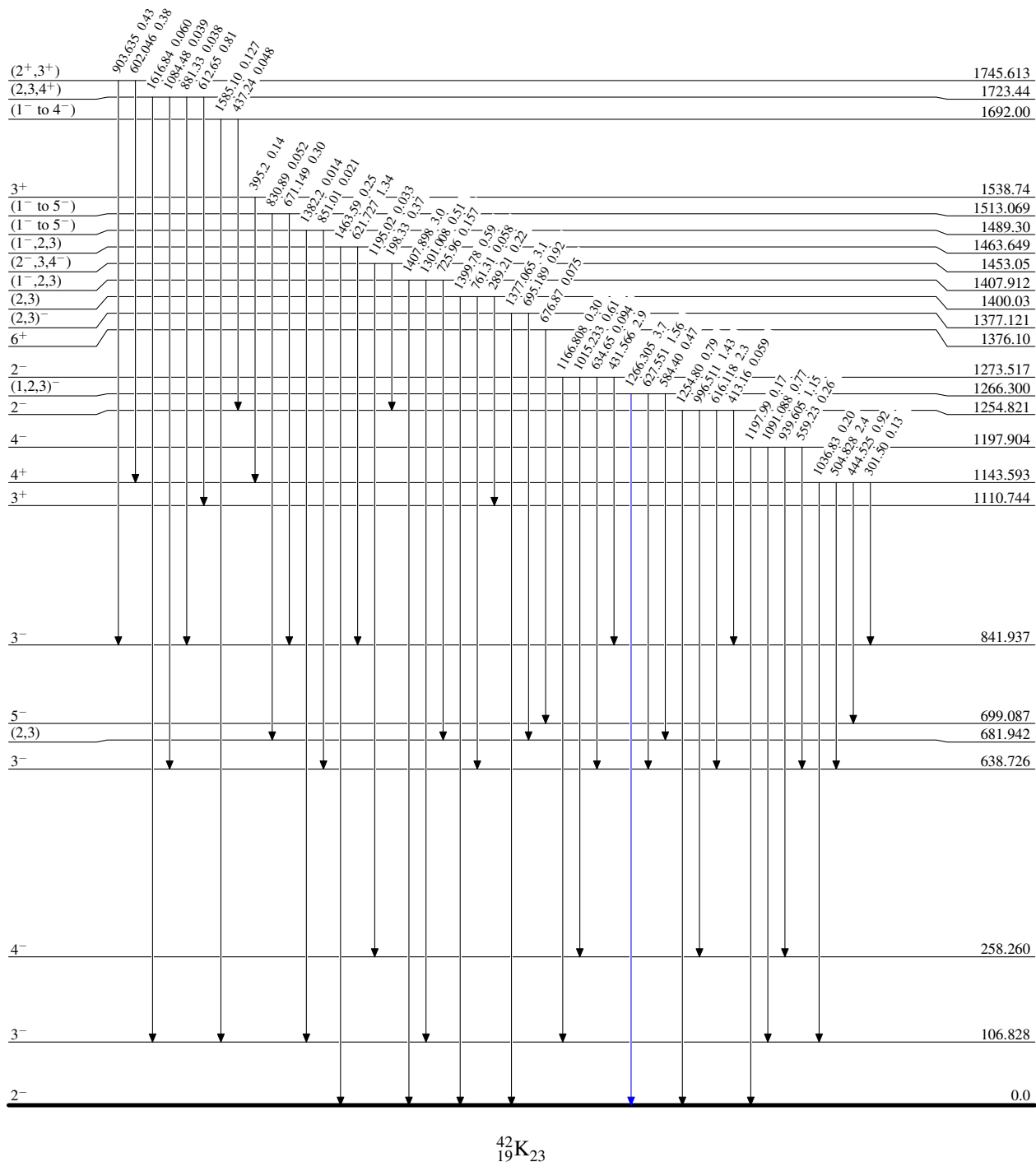
$^{41}\text{K}(\text{n},\gamma)$ E=thermal 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

—→ $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
 —→ $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

 $^{42}_{19}\text{K}_{23}$

$^{41}\text{K}(\text{n},\gamma)$ E=thermal 1985Kr06

Level Scheme (continued)

Intensities: $I_{(\gamma+ce)}$ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend

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

