

$^{40}\text{K}(\text{n},\gamma)$ E=thermal 1984Kr05,1971Be05

Type	Author	History	Citation	Literature Cutoff Date
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$\sigma_n=30.8$ (2006MuZX, which adopted value from 1971Be05) Others: 90.7 (2013Fi01), 70.20 (1952Po29).

1984Kr05: measured E_γ , I_γ with ILL curved crystal Bragg spectrometer for γ rays below 1.5 MeV and with a pair spectrometer and a Ge detector above 1.5 MeV. See also 1987Kr01 (from the same group as 1984Kr05) for some revisions to the level scheme proposed in 1984Kr05.

1971Be05 (also 1970BeZM): measured E_γ , I_γ using a Ge(Li) detector surrounded by a bifurcated NaI(Tl) annular detector and $\gamma\gamma$ using two Ge(Li) detectors. A total of 123 secondary and 38 primary transitions were reported incorporated in a level scheme of 27 levels up to 3.3 MeV.

2013Fi01: Measured E_γ , I_γ , total radiative neutron σ using a HPGe detector.

Additional information 1.

 ^{41}K Levels

The following levels proposed by 1971Be05 only have been omitted since these are not confirmed in the more detailed study of 1984Kr05: 1516.8, 2304.5, 2599.8, 2681.5, 3042.1, 3116.2, 3164.5 and 3281.1. The transitions reported by 1971Be05 connected with these levels have either not been seen by 1984Kr05 or assigned elsewhere.

E(level) [‡]	J^π [†]	Comments
0.0	$3/2^+$	
980.476 8	$1/2^+$	
1293.609 8	$7/2^-$	
1559.903 12	$3/2^+$	
1582.001 11	$3/2^-$	
1593.107 12	$1/2^+$	
1677.235 10	$7/2^+$	
1698.005 15	$5/2^+$	
2143.821 24	$5/2^+$	
2166.695 24	$3/2^-$	
2316.617 24	$5/2^-$	
2440.18 & 4	$(3/2, 5/2^-)$	
2447.83 7	$(3/2^+, 5/2, 7/2^+)$	J^π : $1/2, 5/2$ (1984Kr05).
2494.91 3	$9/2^+$	
2507.93 3	$7/2^+$	
2527.66 3	$11/2^+$	
2593.97 3	$1/2^-, 3/2^-$	
2710.48 & 4	$3/2^+, 5/2^+$	
2712.57 3	$(7/2)^-$	
2756.73 3	$5/2^+$	
2761.73 3	$11/2^-$	
2774.25 3	$13/2^+$	
3048.22 5	$1/2^-, 3/2^-$	
3141.84 3	$(7/2)^-$	
3142.43 3	$5/2^-$	J^π : $9/2^+$ (1984Kr05).
3213.61 4	$5/2^-$	J^π : $5/2$ (1984Kr05).
3235.57 4	$(3/2^-, 5/2, 7/2^-)$	J^π : $5/2, 7/2, (9/2^-)$ (1984Kr05).
3240.65 4	$(5/2^+, 7/2^-)$	J^π : $5/2^+, 7/2, 9/2^+$ (1984Kr05).
3431.84 4	$(9/2^-, 7/2^-)$	
3449.79 & 6	$5/2^-, 7/2^-$	
3489.30 # 15	$(5/2)^+$	J^π : $3/2^-, 5/2, 7/2$ (1984Kr05).
3521.38 # 9	$(5/2^+, 7/2^+)$	

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal 1984Kr05,1971Be05 (continued) ^{41}K Levels (continued)

E(level) [‡]	J ^π [†]	Comments
3534.45 4	(7/2 ⁺ , 9/2, 11/2 ⁺)	
3560.61 5	(3/2 ⁻ , 5/2, 7/2 ⁺)	
3572.38 ^{&} 5		
3612.77 5		
3651.46 5	(5/2, 7/2 ⁻)	
3761.54 5		
3774.66 5	5/2 ⁻ , 7/2 ⁻	J ^π : 5/2 (1984Kr05).
3826.90 4	(5/2, 7/2 ⁺)	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
3870.52 [#] 6	5/2 ⁻ , 7/2 ⁻	J ^π : 5/2, 7/2, 9/2 ⁺ (1984Kr05).
3990.40? @ 5		J ^π : 7/2 ⁻ , 9/2 (1984Kr05).
3996.49 4	(5/2 ⁺)	
4026.94 [#] 7		J ^π : 5/2, 7/2 ⁺ (1984Kr05).
4146.15 6	5/2 ⁻ , 7/2 ⁻	J ^π : 5/2, 7/2, 9/2 ⁺ (1984Kr05).
4164.57 4		J ^π : 5/2, 7/2 (1984Kr05).
4220.62 5	(5/2)	
4228.99 5	(5/2) ⁻	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
4244.22 5	(3/2) ⁻	J ^π : 5/2 ⁺ (1984Kr05).
4260.36 13		J ^π : 5/2 (1984Kr05).
4274.96 5	(7/2 ⁻ , 9/2 ⁺)	
4303.01 5	(5/2 ⁺ , 7/2 ⁺)	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
4345.66 5	(5/2, 7/2 ⁻)	J ^π : 5/2 ⁺ , 7/2 ⁻ (1984Kr05).
4459.72 5	1/2 ⁻ , 3/2 ⁻	J ^π : 5/2 ⁺ (1984Kr05).
4525.37 [#] 5		J ^π : 5/2, 7/2, 9/2 ⁺ (1984Kr05).
4568.75 [#] 5	(9/2 ⁺ , 11/2 ⁻)	J ^π : 9/2 ⁺ (1984Kr05).
4609.48 7	(5/2 ⁺ , 7/2, 9/2 ⁺)	
4730.70 5	(3/2) ⁻	J ^π : 5/2, 7/2, 9/2 (1984Kr05).
4735.86 6	(5/2 ⁺ , 7/2 ⁺)	
4745.49 10	(5/2 ⁺)	
4749.47 8	(3/2 ⁻ , 5/2, 7/2 ⁺)	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
4823.33 5	(7/2 ⁺ , 9/2 ⁺)	
4862.43 6	(3/2 ⁺ , 5/2)	
4927.83 6	(5/2) ⁺	
4948.94 [#] 6	(3/2 ⁻ , 5/2, 7/2 ⁻)	J ^π : 5/2, 7/2 ⁻ (1984Kr05).
5021.23? @ 8		
5096.20 8		J ^π : 5/2, 7/2 (1984Kr05).
5185.27 6	(5/2, 7/2 ⁻)	J ^π : 5/2, 7/2, 9/2 (1984Kr05).
5298.86 6	(3/2 ⁻ , 5/2, 7/2 ⁻)	J ^π : 5/2, 7/2 (1984Kr05).
5496.61 7	(7/2 ⁺)	
5548.19 7	(3/2 ⁺ , 5/2 ⁺ , 7/2 ⁺)	
5557.39? @ 9		J ^π : 5/2 ⁺ (1984Kr05).
5575.24? @ 8	(3/2 ⁻ , 5/2, 7/2 ⁺)	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
5604.58 [#] 8	(3/2 ⁻ , 5/2, 7/2 ⁺)	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
5610.83 [#] 6	(5/2, 7/2 ⁺)	J ^π : 5/2, 7/2 (1984Kr05).
5655.66 8	(3/2 ⁻ , 5/2 ⁺)	J ^π : 5/2 ⁺ (1984Kr05).
5659.25 [#] 8	(3/2 ⁻ , 5/2, 7/2 ⁺)	J ^π : 5/2, 7/2 ⁺ (1984Kr05).
5800.80 [#] 7	(3/2 ⁺ , 5/2 ⁺)	J ^π : 5/2 ⁺ (1984Kr05).
5826.66 7	(5/2) ⁺	J ^π : 5/2 ⁻ , 7/2, (9/2 ⁻) (1984Kr05).
5886.95 8	(3/2) ⁻	J ^π : 5/2 ⁺ (1984Kr05).
5912.50 8	(9/2 ⁺)	
5952.41 [#] 8	(7/2 ⁻ , 9/2 ⁻)	J ^π : 7/2 ⁻ , 9/2 (1984Kr05).
5968.89 [#] 8	(9/2 ⁺ , 11/2 ⁻)	J ^π : 9/2 ⁺ (1984Kr05).
6040.67 10	(3/2 ⁻ , 5/2, 7/2)	J ^π : 5/2, 7/2 (1984Kr05).

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) ^{41}K Levels (continued)

E(level) [‡]	J ^π [†]	Comments
6070.76 9	(5/2,7/2,9/2 ⁺)	
6078.56 7	(3/2) ⁻	J ^π : 5/2,7/2 ⁻ (1984Kr05).
6186.04 11	(5/2,7/2,9/2 ⁻)	J ^π : 5/2 ⁺ ,7/2,9/2 (1984Kr05).
6211.50 7	(7/2 ⁺ ,9/2 ⁻)	J ^π : 7/2 ⁺ ,9/2 (1984Kr05).
6229.88?@ 10	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2 ⁺ ,7/2,9/2 ⁺ (1984Kr05).
6255.96 8	(5/2,7/2 ⁻)	
6290.05 14	(3/2) ⁻	J ^π : 5/2 ⁺ (1984Kr05).
6394.31 10	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2 ⁺ (1984Kr05).
6434.51 9	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2,(9/2 ⁻) (1984Kr05).
6450.15?@ 10	(3/2 ⁻ ,5/2,7/2 ⁺)	J ^π : 5/2,7/2 ⁺ (1984Kr05).
6497.00?@ 10	(3/2) ⁻	J ^π : 5/2,7/2,9/2 (1984Kr05).
6528.13 9	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2,9/2 ⁺ (1984Kr05).
6769.77 10	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2 ⁻ (1984Kr05).
6782.54# 10		J ^π : 5/2,7/2,9/2 (1984Kr05).
6791.36# 9	(5/2,7/2 ⁻)	J ^π : 5/2,7/2 (1984Kr05).
6835.43 9	(5/2,7/2 ⁻)	J ^π : 5/2,7/2 ⁺ (1984Kr05).
6995.53# 11	(5/2,7/2,9/2 ⁺)	
7020.97 10	(3/2) ⁻	J ^π : 5/2,7/2,9/2 ⁺ (1984Kr05).
7035.28 14	(5/2) ⁻	J ^π : 5/2,7/2 ⁺ (1984Kr05).
7361.15?@ 11	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2 ⁻ (1984Kr05).
7593.06# 9		J ^π : 5/2,7/2,9/2 (1984Kr05).
7654.93 9	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2,9/2 ⁺ (1984Kr05).
7938.98 10		J ^π : 5/2,7/2,9/2 (1984Kr05).
8190.21# 12	(3/2 ⁻ ,5/2,7/2 ⁻)	J ^π : 5/2,7/2,9/2 ⁺ (1984Kr05).
8200.11 9	(5/2 ⁻ ,7/2 ⁻ ,3/2 ⁺)	J ^π : 5/2,7/2,9/2 ⁺ (1984Kr05).
9740.70# 10	(3/2) ⁻	J ^π : 5/2,7/2,9/2 (1984Kr05).
(10095.25 10)	7/2 ⁻ ,9/2 ⁻	E(level): S(n)=10095.37 6 (2012Wa38). Observed deexcitation intensity is 70% of g.s. feeding. J ^π : s-wave capture in ^{40}K (g.s. J ^π =4 ⁻), but population of mainly the levels of J<11/2 shows that the dominant component is 7/2 ⁻ (1984Kr05).

[†] From the Adopted Levels. J^π's proposed by **1984Kr05** are given under comments when these differ from those in Adopted Levels. These are based on prior literature values as well as the assumption that only E1, M1, and E2 transitions are observed.

[‡] From a least-squares fit to E_γ by evaluators.

Probable state (**1984Kr05**).

@ Tentative state (**1984Kr05**).

& Level proposed by **1987Kr01**.

 $\gamma(^{41}\text{K})$

The following weak primary transitions were reported by **1971Be05** only: 6111.5, 6395.5, 6500.8, 6620.6, 6629.3, 6979.3, 7416.6, 7791.5 and 8579.2. 6500.8 γ and 6395.5 γ were not seen by **1984Kr05** while all the other γ rays are assigned by **1984Kr05** to the $^{35}\text{Cl}(\text{n},\gamma)$ reaction.

The following weak secondary transitions were reported by **1971Be05** only: 198.8, 516.6, 788.4, 1122.2, 1164.1, and 1734.8.

516.6 γ is assigned by **1984Kr05** to $^{35}\text{Cl}(\text{n},\gamma)$ and 1122.2 γ as possible double escape line of 2144 γ . Placements by **1971Be05** of 788.4 γ from 3236 level and 1164.1 γ from 2144 level were not confirmed by **1984Kr05**.

$\gamma\gamma$ coin information is adopted by **1984Kr05** from **1971Be05**.

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
191.24 [#] 6	0.008 2	2507.93	7/2 ⁺	2316.617	5/2 ⁻
193.73 11	0.003 2	4220.62	(5/2)	4026.94	
246.587 3	0.54 8	2774.25	13/2 ⁺	2527.66	11/2 ⁺
258.53 5	0.015 3	5557.39?		5298.86	(3/2 ⁻ , 5/2, 7/2 ⁻)
266.841 19	0.009 3	2761.73	11/2 ⁻	2494.91	9/2 ⁺
288.388 6	0.035 12	1582.001	3/2 ⁻	1293.609	7/2 ⁻
293.786 ^f 10	0.023 ^f 5	3534.45	(7/2 ⁺ , 9/2, 11/2 ⁺)	3240.65	(5/2 ⁺ , 7/2 ⁻)
293.786 ^f 10	0.023 ^f 5	4568.75	(9/2 ⁺ , 11/2 ⁻)	4274.96	(7/2 ⁻ , 9/2 ⁺)
296.340 23	0.008 2	4525.37		4228.99	(5/2) ⁻
304.76 4	0.006 2	4525.37		4220.62	(5/2)
^x 314.73 11	0.007 3				
^x 327.766 2	0.028 6				
^x 336.627 6	0.079 13				
338.47 6	0.004 2	6835.43	(5/2, 7/2 ⁻)	6497.00?	(3/2) ⁻
339.41 4	0.008 2	4948.94	(3/2 ⁻ , 5/2, 7/2 ⁻)	4609.48	(5/2 ⁺ , 7/2, 9/2 ⁺)
344.79 8	0.143 22	3996.49	(5/2 ⁺)	3651.46	(5/2, 7/2 ⁻)
354.541 7	0.113 17	(10095.25)	7/2 ⁻ , 9/2 ⁻	9740.70	(3/2) ⁻
358.465 13	0.15 4	4228.99	(5/2) ⁻	3870.52	5/2 ⁻ , 7/2 ⁻
361.99 3	0.011 2	5185.27	(5/2, 7/2 ⁻)	4823.33	(7/2 ⁺ , 9/2 ⁺)
364.089 7	0.19 3	2507.93	7/2 ⁺	2143.821	5/2 ⁺
371.51 [#] 6	0.048 8	4146.15	5/2 ⁻ , 7/2 ⁻	3774.66	5/2 ⁻ , 7/2 ⁻
380.13 7	0.005 2	3141.84	(7/2 ⁻)	2761.73	11/2 ⁻
380.696 ^{bg} 8	0.067 10	3142.43	5/2 ⁻	2761.73	11/2 ⁻
383.617 6	0.142 21	1677.235	7/2 ⁺	1293.609	7/2 ⁻
385.107 [#] 7	0.099 19	3141.84	(7/2 ⁻)	2756.73	5/2 ⁺
395.945 2	0.62 13	2712.57	(7/2) ⁻	2316.617	5/2 ⁻
402.08 3	0.018 5	4228.99	(5/2) ⁻	3826.90	(5/2, 7/2 ⁺)
403.03 [#] 3	0.018 4	4164.57		3761.54	
^x 417.190 5	0.037 8				
418.80 4	0.006 2	3560.61	(3/2 ⁻ , 5/2, 7/2 ⁺)	3141.84	(7/2 ⁻)
419.31 ^f 3	0.007 ^f 2	5604.58	(3/2 ⁻ , 5/2, 7/2 ⁺)	5185.27	(5/2, 7/2 ⁻)
419.31 ^f 3	0.007 ^f 2	6078.56	(3/2) ⁻	5659.25	(3/2 ⁻ , 5/2, 7/2 ⁺)
429.790 [#] 10	0.114 22	3990.40?		3560.61	(3/2 ⁻ , 5/2, 7/2 ⁺)
445.814 5	0.23 5	2143.821	5/2 ⁺	1698.005	5/2 ⁺
454.557 7	0.022 5	5185.27	(5/2, 7/2 ⁻)	4730.70	(3/2) ⁻
^x 476.62 4	0.008 2				
^x 481.242 [‡] 20	0.013 3				
^x 487.991 23	0.009 2				
492.821 23	0.009 2	7020.97	(3/2) ⁻	6528.13	(3/2 ⁻ , 5/2, 7/2 ⁻)
539.09 3	0.018 4	3774.66	5/2 ⁻ , 7/2 ⁻	3235.57	(3/2 ⁻ , 5/2, 7/2 ⁻)
^x 541.83 [‡] 3	0.035 7				
545.876 7	0.072 17	2712.57	(7/2) ⁻	2166.695	3/2 ⁻
548.365 10	0.043 11	4823.33	(7/2 ⁺ , 9/2 ⁺)	4274.96	(7/2 ⁻ , 9/2 ⁺)
550.73 3	0.009 3	2143.821	5/2 ⁺	1593.107	1/2 ⁺
561.05 [#] 4	0.011 3	3774.66	5/2 ⁻ , 7/2 ⁻	3213.61	5/2 ⁻
561.842 22	0.014 3	2143.821	5/2 ⁺	1582.001	3/2 ⁻
^x 564.01 3	0.013 3				
^x 565.73 3	0.016 14				
566.650 ^{&} 17	0.087 18	2710.48	3/2 ⁺ , 5/2 ⁺	2143.821	5/2 ⁺
568.170 17	0.098 19	5298.86	(3/2 ⁻ , 5/2, 7/2 ⁻)	4730.70	(3/2) ⁻
573.597 9	0.052 12	2166.695	3/2 ⁻	1593.107	1/2 ⁺
579.418 7	0.89 17	1559.903	3/2 ⁺	980.476	1/2 ⁺
583.900 15	1.4 3	2143.821	5/2 ⁺	1559.903	3/2 ⁺

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
584.685 11	0.22 5	2166.695	3/2 ⁻	1582.001	3/2 ⁻
586.26 4	0.009 4	3826.90	(5/2 ⁺ ,7/2 ⁺)	3240.65	(5/2 ⁺ ,7/2 ⁻)
592.777# 25	0.016 5	4244.22	(3/2 ⁻)	3651.46	(5/2 ⁺ ,7/2 ⁻)
601.517 12	0.76 18	1582.001	3/2 ⁻	980.476	1/2 ⁺
606.824 18	0.027 8	2166.695	3/2 ⁻	1559.903	3/2 ⁺
607.846 ^f 9	0.089 ^f 21	4220.62	(5/2)	3612.77	
607.846 ^f 9	0.089 ^f 21	6434.51	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁻)	5826.66	(5/2 ⁺)
612.637 8	0.26 8	1593.107	1/2 ⁺	980.476	1/2 ⁺
612.925 8	0.31 7	2756.73	5/2 ⁺	2143.821	5/2 ⁺
614.766 ^{bg} 7	0.091 23	3142.43	5/2 ⁻	2527.66	11/2 ⁺
620.34 3	0.012 3	5548.19	(3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺)	4927.83	(5/2 ⁺)
623.486# 14	0.049 13	6450.15?	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁺)	5826.66	(5/2 ⁺)
633.891 8	0.72 17	3141.84	(7/2 ⁻)	2507.93	7/2 ⁺
^x 635.073 18	0.061 17				
639.345 11	0.031 17	2316.617	5/2 ⁻	1677.235	7/2 ⁺
645.17 6	0.015 3	6255.96	(5/2 ⁺ ,7/2 ⁻)	5610.83	(5/2 ⁺ ,7/2 ⁺)
646.924 4	0.40 9	3141.84	(7/2 ⁻)	2494.91	9/2 ⁺
655.60 3	0.011 3	5604.58	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁺)	4948.94	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁻)
^x 657.93 5	0.006 3				
659.92 ^f 9	0.025 ^f 6	4220.62	(5/2)	3560.61	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁺)
659.92 ^f 9	0.025 ^f 6	5185.27	(5/2 ⁺ ,7/2 ⁻)	4525.37	
^x 660.935 11	0.045 14				
^x 661.23 4	0.057 15				
670.112 8	0.38 10	3431.84	(9/2 ⁻ ,7/2 ⁻)	2761.73	11/2 ⁻
^x 672.039 [‡] 13	0.064 17				
^x 676.09 3	0.023 5				
685.056 ^f 8	0.083 ^f 20	3826.90	(5/2 ⁺ ,7/2 ⁺)	3141.84	(7/2 ⁻)
685.056 ^f 8	0.083 ^f 20	4459.72	1/2 ⁻ ,3/2 ⁻	3774.66	5/2 ⁻ ,7/2 ⁻
694.199 10	0.20 4	4345.66	(5/2 ⁺ ,7/2 ⁻)	3651.46	(5/2 ⁺ ,7/2 ⁻)
712.800 ^f 17	0.034 ^f 8	5575.24?	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁺)	4862.43	(3/2 ⁺ ,5/2)
712.800 ^f 17	0.034 ^f 8	6791.36	(5/2 ⁺ ,7/2 ⁻)	6078.56	(3/2 ⁻)
719.272 12	0.30 6	3431.84	(9/2 ⁻ ,7/2 ⁻)	2712.57	(7/2 ⁻)
732.714 ^f 6	0.51 ^f 12	3240.65	(5/2 ⁺ ,7/2 ⁻)	2507.93	7/2 ⁺
732.714 ^f 6	0.51 ^f 12	4164.57		3431.84	(9/2 ⁻ ,7/2 ⁻)
734.605 8	0.45 11	2316.617	5/2 ⁻	1582.001	3/2 ⁻
740.51 4	0.032 9	4274.96	(7/2 ⁻ ,9/2 ⁺)	3534.45	(7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺)
742.142 ^{f&} 13	0.100 ^f 21	2440.18	(3/2 ⁺ ,5/2 ⁻)	1698.005	5/2 ⁺
742.142 ^f 13	0.100 ^f 21	5604.58	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁺)	4862.43	(3/2 ⁺ ,5/2)
745.733 13	0.18 4	3240.65	(5/2 ⁺ ,7/2 ⁻)	2494.91	9/2 ⁺
768.531 19	0.079 21	4303.01	(5/2 ⁺ ,7/2 ⁺)	3534.45	(7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺)
773.471 19	0.11 3	5298.86	(3/2 ⁻ ,5/2 ⁺ ,7/2 ⁻)	4525.37	
796.926 20	0.88 22	2494.91	9/2 ⁺	1698.005	5/2 ⁺
817.659 9	2.3 5	2494.91	9/2 ⁺	1677.235	7/2 ⁺
825.19 3	0.038 8	3141.84	(7/2 ⁻)	2316.617	5/2 ⁻
^x 827.33 8	0.018 5				
830.679 9	2.7 6	2507.93	7/2 ⁺	1677.235	7/2 ⁺
846.967 ^{f&} 23	0.067 ^f 15	2440.18	(3/2 ⁺ ,5/2 ⁻)	1593.107	1/2 ⁺
846.967 ^f 23	0.067 ^f 15	4459.72	1/2 ⁻ ,3/2 ⁻	3612.77	
850.417 7	3.1 7	2527.66	11/2 ⁺	1677.235	7/2 ⁺
854.043 20	0.24 7	3996.49	(5/2 ⁺)	3142.43	5/2 ⁻
854.642 20	0.15 6	3996.49	(5/2 ⁺)	3141.84	(7/2 ⁻)

Continued on next page (footnotes at end of table)

$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ †	I_γ † ^e	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
880.14 3	0.074 15	5610.83	(5/2,7/2 ⁺)	4730.70	(3/2) ⁻	
887.13 ^f 5	0.070 ^f 21	5496.61	(7/2 ⁺)	4609.48	(5/2 ⁺ ,7/2,9/2 ⁺)	
887.13 ^f 5	0.070 ^f 21	6186.04	(5/2,7/2,9/2 ⁻)	5298.86	(3/2 ⁻ ,5/2,7/2 ⁻)	
891.260 20	0.081 16	5912.50	(9/2 ⁺)	5021.23?		
895.955 ^{bg} 10	0.33 7	2593.97	1/2 ⁻ ,3/2 ⁻	1698.005	5/2 ⁺	
904.38 ^{fbg} 3	0.063 ^f 13	3048.22	1/2 ⁻ ,3/2 ⁻	2143.821	5/2 ⁺	
904.38 ^f 3	0.063 ^f 13	6791.36	(5/2,7/2 ⁻)	5886.95	(3/2) ⁻	
918.949 13	0.86 20	3235.57	(3/2 ⁻ ,5/2,7/2 ⁻)	2316.617	5/2 ⁻	
948.001 13	0.51 11	2507.93	7/2 ⁺	1559.903	3/2 ⁺	
974.67 [#] 7	0.079 17	4749.47	(3/2 ⁻ ,5/2,7/2 ⁺)	3774.66	5/2 ⁻ ,7/2 ⁻	
980.461 16	3.4 7	980.476	1/2 ⁺	0.0	3/2 ⁺	
988.47 [#] 6	0.065 14	4228.99	(5/2) ⁻	3240.65	(5/2 ⁺ ,7/2 ⁻)	
993.21 8	0.036 9	4228.99	(5/2) ⁻	3235.57	(3/2 ⁻ ,5/2,7/2 ⁻)	
998.45 7	0.043 10	3142.43	5/2 ⁻	2143.821	5/2 ⁺	
1004.87 3	0.091 19	3761.54		2756.73	5/2 ⁺	
1006.81 3	0.44 9	3534.45	(7/2 ⁺ ,9/2,11/2 ⁺)	2527.66	11/2 ⁺	
1011.89 21	0.11 3	2593.97	1/2 ⁻ ,3/2 ⁻	1582.001	3/2 ⁻	
1014.498 18	0.33 7	2712.57	(7/2) ⁻	1698.005	5/2 ⁺	
1022.996 7	11.2 25	2316.617	5/2 ⁻	1293.609	7/2 ⁻	
1026.48 ^f 6	0.084 ^f 22	3521.38	(5/2 ⁺ ,7/2 ⁺)	2494.91	9/2 ⁺	
1026.48 ^f 6	0.084 ^f 22	3534.45	(7/2 ⁺ ,9/2,11/2 ⁺)	2507.93	7/2 ⁺	
1039.532 12	0.61 13	3534.45	(7/2 ⁺ ,9/2,11/2 ⁺)	2494.91	9/2 ⁺	
1041.51 5	0.108 25	3489.30	(5/2) ⁺	2447.83	(3/2 ⁺ ,5/2,7/2 ⁺)	
1051.27 4	0.064 14	5800.80	(3/2 ⁺ ,5/2 ⁺)	4749.47	(3/2 ⁻ ,5/2,7/2 ⁺)	
1058.708 15	0.41 8	2756.73	5/2 ⁺	1698.005	5/2 ⁺	
^x 1062.55 6	0.057 13					
1064.926 ^f 20	0.29 ^f 6	5800.80	(3/2 ⁺ ,5/2 ⁺)	4735.86	(5/2 ⁺ ,7/2 ⁺)	
1064.926 ^f 20	0.29 ^f 6	7593.06		6528.13	(3/2 ⁻ ,5/2,7/2 ⁻)	
1079.44 [#] 4	0.066 17	2756.73	5/2 ⁺	1677.235	7/2 ⁺	
1090.74 5	0.117 25	5826.66	(5/2) ⁺	4735.86	(5/2 ⁺ ,7/2 ⁺)	
1096.832 17	0.24 5	3240.65	(5/2 ⁺ ,7/2 ⁻)	2143.821	5/2 ⁺	
1101.71 3	0.15 3	4244.22	(3/2) ⁻	3142.43	5/2 ⁻	
1110.083 14	0.78 16	4345.66	(5/2,7/2 ⁻)	3235.57	(3/2 ⁻ ,5/2,7/2 ⁻)	
1115.20 [#] 3	0.19 4	3431.84	(9/2 ⁻ ,7/2 ⁻)	2316.617	5/2 ⁻	
1130.76 20	0.64 11	2712.57	(7/2) ⁻	1582.001	3/2 ⁻	
1156.32 [#] 12	0.14 4	5886.95	(3/2) ⁻	4730.70	(3/2) ⁻	
1186.170 17	0.60 16	2166.695	3/2 ⁻	980.476	1/2 ⁺	
1196.785 17	0.50 10	2756.73	5/2 ⁺	1559.903	3/2 ⁺	
1201.303 ^b 17	1.5 4	2494.91	9/2 ⁺	1293.609	7/2 ⁻	
1203.21 5	0.17 4	4345.66	(5/2,7/2 ⁻)	3142.43	5/2 ⁻	
1214.327 22	0.69 14	2507.93	7/2 ⁺	1293.609	7/2 ⁻	
1228.59 5	0.21 4	3990.40?		2761.73	11/2 ⁻	
^x 1231.46 16	0.15 6					
1247.40 4	0.24 5	6070.76	(5/2,7/2,9/2 ⁺)	4823.33	(7/2 ⁺ ,9/2 ⁺)	
^x 1250.85 9	0.084 20					
1255.71 7	0.18 7	3572.38		2316.617	5/2 ⁻	
1266.45 ^{fbg} 22	0.14 ^f 3	3761.54		2494.91	9/2 ⁺	
1266.45 ^{fbg} 22	0.14 ^f 3	3774.66	5/2 ⁻ ,7/2 ⁻	2507.93	7/2 ⁺	
1286.03 10	0.17 5	6782.54		5496.61	(7/2 ⁺)	
1293.586 7	41 9	1293.609	7/2 ⁻	0.0	3/2 ⁺	$\sigma_\gamma=37.1$ b 19 (2013Fi01).
1321.33 [#] 9	0.087 22	5096.20		3774.66	5/2 ⁻ ,7/2 ⁻	

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1356.0 [#] 3	0.051 14	5659.25	(3/2 ⁻ ,5/2,7/2 ⁺)	4303.01	(5/2 ⁺ ,7/2 ⁺)	
1368.47 12	0.12 3	4609.48	(5/2 ⁺ ,7/2,9/2 ⁺)	3240.65	(5/2 ⁺ ,7/2 ⁻)	
^x 1373.02 5	0.31 7					
1418.975 15	3.2 8	2712.57	(7/2 ⁻)	1293.609	7/2 ⁻	
1463.35 ^b 12	0.69 23	2756.73	5/2 ⁺	1293.609	7/2 ⁻	
1465.10 5	1.2 3	3142.43	5/2 ⁻	1677.235	7/2 ⁺	
1468.090 12	3.3 7	2761.73	11/2 ⁻	1293.609	7/2 ⁻	
1470.99 17	0.18 8	6769.77	(3/2 ⁻ ,5/2,7/2 ⁻)	5298.86	(3/2 ⁻ ,5/2,7/2 ⁻)	
^x 1481.59 16	0.08 3					
1488.54 4	0.34 7	3996.49	(5/2 ⁺)	2507.93	7/2 ⁺	
1499.78 [#] 13	0.25 5	5496.61	(7/2 ⁺)	3996.49	(5/2 ⁺)	
1513.31 [#] 8	0.40 4	4274.96	(7/2 ⁻ ,9/2 ⁺)	2761.73	11/2 ⁻	
1529.97 25	0.057 7	5557.39?		4026.94		
1534.2 [#] 5	0.030 5	7361.15?	(3/2 ⁻ ,5/2,7/2 ⁻)	5826.66	(5/2 ⁺)	
1542.19 [#] 21	0.066 8	3240.65	(5/2 ⁺ ,7/2 ⁻)	1698.005	5/2 ⁺	
1557.67 18	0.211 25	5548.19	(3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺)	3990.40?		
1559.89 3	4.1 4	1559.903	3/2 ⁺	0.0	3/2 ⁺	
^x 1563.96 11	0.167 17					
1581.98 4	3.7 4	1582.001	3/2 ⁻	0.0	3/2 ⁺	
1588.68 [#] 11	0.133 14	4730.70	(3/2 ⁻)	3141.84	(7/2 ⁻)	
1593.4 [#] 5	0.31 3	1593.107	1/2 ⁺	0.0	3/2 ⁺	
1606.05 ^f 8	0.194 ^f 20	5826.66	(5/2 ⁺)	4220.62	(5/2)	
1606.05 ^f 8	0.194 ^f 20	6791.36	(5/2,7/2 ⁻)	5185.27	(5/2,7/2 ⁻)	
1624.76 16	0.116 13	5185.27	(5/2,7/2 ⁻)	3560.61	(3/2 ⁻ ,5/2,7/2 ⁺)	
1631.5 ^{#&g} 4	0.26 7	3213.61	5/2 ⁻	1582.001	3/2 ⁻	
1649.96 ^f 14	0.157 ^f 17	4244.22	(3/2 ⁻)	2593.97	1/2 ⁻ ,3/2 ⁻	
1649.96 ^f 14	0.157 ^f 17	6835.43	(5/2,7/2 ⁻)	5185.27	(5/2,7/2 ⁻)	
1666.51 15	0.101 12	4260.36		2593.97	1/2 ⁻ ,3/2 ⁻	
1677.23 4	19.7 20	1677.235	7/2 ⁺	0.0	3/2 ⁺	$\sigma_\gamma=13 \text{ b } 3$ (2013Fi01).
1697.93 4	8.1 8	1698.005	5/2 ⁺	0.0	3/2 ⁺	
1716.2 [#] 5	0.032 7	4164.57		2447.83	(3/2 ⁺ ,5/2,7/2 ⁺)	
1721.02 [#] 4	0.51 5	4228.99	(5/2 ⁻)	2507.93	7/2 ⁺	
1727.24 ^f 24	0.123 ^f 15	3870.52	5/2 ⁻ ,7/2 ⁻	2143.821	5/2 ⁺	
1727.24 ^f 24	0.123 ^f 15	7938.98		6211.50	(7/2 ⁺ ,9/2 ⁻)	
1739.14 7	0.27 3	6835.43	(5/2,7/2 ⁻)	5096.20		
1747.88 [#] 16	0.098 11	5912.50	(9/2 ⁺)	4164.57		
1753.64 18	0.088 10	5185.27	(5/2,7/2 ⁻)	3431.84	(9/2 ⁻ ,7/2 ⁻)	
^x 1763.7 [‡] 3	0.051 7					
1770.55 ^f 22	0.072 ^f 8	6229.88?	(3/2 ⁻ ,5/2,7/2 ⁻)	4459.72	1/2 ⁻ ,3/2 ⁻	
1770.55 ^f 22	0.072 ^f 8	6791.36	(5/2,7/2 ⁻)	5021.23?		
1790.3 3	0.069 8	3489.30	(5/2 ⁺)	1698.005	5/2 ⁺	
1794.6 9	0.199 20	4568.75	(9/2 ⁺ ,11/2 ⁻)	2774.25	13/2 ⁺	
1804.7 [#] 3	0.033 8	5968.89	(9/2 ⁺ ,11/2 ⁻)	4164.57		
1808.7 ^f 3	0.06 ^f 3	4303.01	(5/2 ⁺ ,7/2 ⁺)	2494.91	9/2 ⁺	
1808.7 ^f 3	0.06 ^f 3	5298.86	(3/2 ⁻ ,5/2,7/2 ⁻)	3489.30	(5/2 ⁺)	
1840.93 15	0.111 12	6450.15?	(3/2 ⁻ ,5/2,7/2 ⁺)	4609.48	(5/2 ⁺ ,7/2,9/2 ⁺)	
1848.82 4	3.5 4	3142.43	5/2 ⁻	1293.609	7/2 ⁻	
1852.85 6	0.40 4	4609.48	(5/2 ⁺ ,7/2,9/2 ⁺)	2756.73	5/2 ⁺	
1857.90 10	0.191 20	6078.56	(3/2 ⁻)	4220.62	(5/2)	
1867.45 ^f 25	0.069 ^f 8	5298.86	(3/2 ⁻ ,5/2,7/2 ⁻)	3431.84	(9/2 ⁻ ,7/2 ⁻)	

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$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ †	I_γ † ^e	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1867.45 ^f 25	0.069 ^f 8	7938.98		6070.76	(5/2,7/2,9/2 ⁺)
1895.09 ^d 4	1.11 ^d 11	3572.38		1677.235	7/2 ⁺
1904.97 7	0.32 3	(10095.25)	7/2 ⁻ ,9/2 ⁻	8190.21	(3/2 ⁻ ,5/2,7/2 ⁻)
1909.74 14	0.28 3	8200.11	(5/2 ⁻ ,7/2 ⁻ ,3/2 ⁺)	6290.05	(3/2) ⁻
1919.95 4	2.07 21	3213.61	5/2 ⁻	1293.609	7/2 ⁻
1941.91 4	1.91 19	3235.57	(3/2 ⁻ ,5/2,7/2 ⁻)	1293.609	7/2 ⁻
1946.95 4	0.97 10	3240.65	(5/2 ⁺ ,7/2 ⁻)	1293.609	7/2 ⁻
1953.0 [#] 3	0.102 12	5604.58	(3/2 ⁻ ,5/2,7/2 ⁺)	3651.46	(5/2,7/2 ⁻)
^x 1965.91 13	0.146 15				
1974.22 4	1.08 11	3651.46	(5/2,7/2 ⁻)	1677.235	7/2 ⁺
1986.36 ^f 23	0.081 ^f 9	4303.01	(5/2 ⁺ ,7/2 ⁺)	2316.617	5/2 ⁻
1986.36 ^f 23	0.081 ^f 9	7938.98		5952.41	(7/2 ⁻ ,9/2 ⁻)
^x 1998.9 [‡] 4	0.17 3				
2011.7 [#] 9	0.222 23	6255.96	(5/2,7/2 ⁻)	4244.22	(3/2) ⁻
2026.4 [#] 3	0.09 3	5800.80	(3/2 ⁺ ,5/2 ⁺)	3774.66	5/2 ⁻ ,7/2 ⁻
2030.51 [#] 20	0.122 13	3612.77		1582.001	3/2 ⁻
2041.02 [#] 7	0.37 4	4568.75	(9/2 ⁺ ,11/2 ⁻)	2527.66	11/2 ⁺
2046.31 [#] 16	0.168 18	6290.05	(3/2) ⁻	4244.22	(3/2) ⁻
2059.8 [#] 3	0.120 16	5886.95	(3/2) ⁻	3826.90	(5/2,7/2 ⁺)
2062.7 [#] 3	0.197 22	4228.99	(5/2) ⁻	2166.695	3/2 ⁻
2066.1 [#] 4	0.070 10	4823.33	(7/2 ⁺ ,9/2 ⁺)	2756.73	5/2 ⁺
2077.55 [#] 12	0.28 3	4244.22	(3/2) ⁻	2166.695	3/2 ⁻
2083.64 7	0.33 3	6229.88?	(3/2 ⁻ ,5/2,7/2 ⁻)	4146.15	5/2 ⁻ ,7/2 ⁻
2089.12 [#] 24	0.085 10	6434.51	(3/2 ⁻ ,5/2,7/2 ⁻)	4345.66	(5/2,7/2 ⁻)
^x 2100.72 [‡] 5	0.43 4				
2106.50 19	0.112 12	7654.93	(3/2 ⁻ ,5/2,7/2 ⁻)	5548.19	(3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺)
2114.10 25	0.83 8	4609.48	(5/2 ⁺ ,7/2,9/2 ⁺)	2494.91	9/2 ⁺
2121.40 [#] 25	0.105 12	8200.11	(5/2 ⁻ ,7/2 ⁻ ,3/2 ⁺)	6078.56	(3/2) ⁻
2128.6 [#] 3	0.118 14	3826.90	(5/2,7/2 ⁺)	1698.005	5/2 ⁺
2138.12 4	1.01 10	3431.84	(9/2 ⁻ ,7/2 ⁻)	1293.609	7/2 ⁻
2143.71 4	4.7 5	2143.821	5/2 ⁺	0.0	3/2 ⁺
2149.73 [#] 5	0.43 4	3826.90	(5/2,7/2 ⁺)	1677.235	7/2 ⁺
2156.17 ^{&} 6	1.26 13	3449.79	5/2 ⁻ ,7/2 ⁻	1293.609	7/2 ⁻
2158.93 [#] 8	0.54 6	6186.04	(5/2,7/2,9/2 ⁻)	4026.94	
2166.72 5	0.49 5	2166.695	3/2 ⁻	0.0	3/2 ⁺
2171.01 6	0.47 5	4927.83	(5/2) ⁺	2756.73	5/2 ⁺
2192.21 12	0.28 3	3774.66	5/2 ⁻ ,7/2 ⁻	1582.001	3/2 ⁻
2195.58 [#] 14	0.25 3	3489.30	(5/2) ⁺	1293.609	7/2 ⁻
2201.53 ^f 9	0.26 ^f 3	3761.54		1559.903	3/2 ⁺
2201.53 ^f 9	0.26 ^f 3	4345.66	(5/2,7/2 ⁻)	2143.821	5/2 ⁺
2211.93 19	0.177 19	7035.28	(5/2) ⁻	4823.33	(7/2 ⁺ ,9/2 ⁺)
2215.33 [#] 21	0.156 17	4927.83	(5/2) ⁺	2712.57	(7/2) ⁻
2240.95 [#] 7	0.68 7	4735.86	(5/2 ⁺ ,7/2 ⁺)	2494.91	9/2 ⁺
2250.38 ^{#bg} 15	0.213 22	4745.49	(5/2 ⁺)	2494.91	9/2 ⁺
2268.13 [#] 19	0.125 14	4862.43	(3/2 ⁺ ,5/2)	2593.97	1/2 ⁻ ,3/2 ⁻
2278.5 [#] 6	0.047 8	6040.67	(3/2 ⁻ ,5/2,7/2)	3761.54	
2295.9 [#] 3	0.196 25	4823.33	(7/2 ⁺ ,9/2 ⁺)	2527.66	11/2 ⁺
2298.55 12	0.46 5	3996.49	(5/2 ⁺)	1698.005	5/2 ⁺

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ †	I_γ † ^e	$E_i(\text{level})$	J_i^π	E_f	J_f^π
2304.83# 17	0.138 15	5826.66	(5/2) ⁺	3521.38	(5/2 ⁺ , 7/2 ⁺)
2315.33 20	0.51 8	4823.33	(7/2 ⁺ , 9/2 ⁺)	2507.93	7/2 ⁺
2316.55 20	0.38 7	2316.617	5/2 ⁻	0.0	3/2 ⁺
2319.27 5	1.37 14	3996.49	(5/2 ⁺)	1677.235	7/2 ⁺
2328.34# 15	0.156 17	4823.33	(7/2 ⁺ , 9/2 ⁺)	2494.91	9/2 ⁺
2355.9# 6	0.093 19	7654.93	(3/2 ⁻ , 5/2, 7/2 ⁻)	5298.86	(3/2 ⁻ , 5/2, 7/2 ⁻)
2358.46# 23	0.24 3	3651.46	(5/2, 7/2 ⁻)	1293.609	7/2 ⁻
2375.7# 3	0.083 10	4823.33	(7/2 ⁺ , 9/2 ⁺)	2447.83	(3/2 ⁺ , 5/2, 7/2 ⁺)
2381.1# 4	0.16 3	4525.37		2143.821	5/2 ⁺
2383.4# 4	0.18 3	5096.20		2712.57	(7/2) ⁻
2405.64 21	0.117 14	5548.19	(3/2 ⁺ , 5/2 ⁺ , 7/2 ⁺)	3142.43	5/2 ⁻
2414.92# 7	0.48 5	5655.66	(3/2 ⁻ , 5/2 ⁺)	3240.65	(5/2 ⁺ , 7/2 ⁻)
2419.03# 8	0.47 5	4735.86	(5/2 ⁺ , 7/2 ⁺)	2316.617	5/2 ⁻
2428.92# 18	0.231 24	4745.49	(5/2 ⁺)	2316.617	5/2 ⁻
2433.16# 21	0.29 3	7361.15?	(3/2 ⁻ , 5/2, 7/2 ⁻)	4927.83	(5/2) ⁺
2436.61 9	0.98 10	3996.49	(5/2 ⁺)	1559.903	3/2 ⁺
2440.28& 6	0.86 9	2440.18	(3/2, 5/2 ⁻)	0.0	3/2 ⁺
2447.77# 6	0.45 5	2447.83	(3/2 ⁺ , 5/2, 7/2 ⁺)	0.0	3/2 ⁺
2458.5 3	0.090 10	6070.76	(5/2, 7/2, 9/2 ⁺)	3612.77	
2466.90 ^{bg} 7	0.73 7	4026.94		1559.903	3/2 ⁺
2480.92 5	0.63 6	3774.66	5/2 ⁻ , 7/2 ⁻	1293.609	7/2 ⁻
2487.27 4	1.53 15	4164.57		1677.235	7/2 ⁺
2502.12 5	0.73 7	(10095.25)	7/2 ⁻ , 9/2 ⁻	7593.06	
2507.88 4	3.2 3	2507.93	7/2 ⁺	0.0	3/2 ⁺
2513.88 12	0.25 3	5655.66	(3/2 ⁻ , 5/2 ⁺)	3141.84	(7/2) ⁻
2521.84 ^f 24	0.111 ^f 13	4220.62	(5/2)	1698.005	5/2 ⁺
2521.84 ^f 24	0.111 ^f 13	6782.54		4260.36	
2531.48 12	0.44 5	6528.13	(3/2 ⁻ , 5/2, 7/2 ⁻)	3996.49	(5/2 ⁺)
2534.4# 4	0.161 21	8190.21	(3/2 ⁻ , 5/2, 7/2 ⁻)	5655.66	(3/2 ⁻ , 5/2 ⁺)
2543.49# 19	0.210 22	4220.62	(5/2)	1677.235	7/2 ⁺
2559.9# 3	0.19 3	6835.43	(5/2, 7/2 ⁻)	4274.96	(7/2 ⁻ , 9/2 ⁺)
2562.55# 11	0.72 8	4260.36		1698.005	5/2 ⁺
2567.4# 4	0.096 12	6394.31	(3/2 ⁻ , 5/2, 7/2 ⁻)	3826.90	(5/2, 7/2 ⁺)
2576.48 ^f 25	0.107 ^f 13	3870.52	5/2 ⁻ , 7/2 ⁻	1293.609	7/2 ⁻
2576.48 ^f 25	0.107 ^f 13	4274.96	(7/2 ⁻ , 9/2 ⁺)	1698.005	5/2 ⁺
^x 2583.8‡ 14	0.028 10				
2588.3# 5	0.19 4	5096.20		2507.93	7/2 ⁺
2590.6# 7	0.13 3	5826.66	(5/2) ⁺	3235.57	(3/2 ⁻ , 5/2, 7/2 ⁻)
^x 2599.44 8	0.38 4				
2605.08 7	0.45 5	4303.01	(5/2 ⁺ , 7/2 ⁺)	1698.005	5/2 ⁺
2611.15 12	0.33 3	4927.83	(5/2) ⁺	2316.617	5/2 ⁻
2615.48# 25	0.198 21	7361.15?	(3/2 ⁻ , 5/2, 7/2 ⁻)	4745.49	(5/2 ⁺)
2619.41 19	0.214 23	6394.31	(3/2 ⁻ , 5/2, 7/2 ⁻)	3774.66	5/2 ⁻ , 7/2 ⁻
2647.83 ^f 25	0.114 ^f 13	4345.66	(5/2, 7/2 ⁻)	1698.005	5/2 ⁺
2647.83 ^f 25	0.114 ^f 13	5096.20		2447.83	(3/2 ⁺ , 5/2, 7/2 ⁺)
^x 2658.8‡ 18	0.04 3				
2668.55 10	1.19 12	4345.66	(5/2, 7/2 ⁻)	1677.235	7/2 ⁺
2671.1# 4	0.23 3	5912.50	(9/2 ⁺)	3240.65	(5/2 ⁺ , 7/2 ⁻)

Continued on next page (footnotes at end of table)

$^{40}\text{K}(\text{n},\gamma)$ E=thermal 1984Kr05,1971Be05 (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ †	I_γ †e	$E_i(\text{level})$	J_i^π	E_f	J_f^π
2677.27# 10	0.43 4	5185.27	(5/2,7/2 ⁻)	2507.93	7/2 ⁺
^x 2681.54‡ 13	0.30 3				
2688.19 12	0.34 4	6450.15?	(3/2 ⁻ ,5/2,7/2 ⁺)	3761.54	
2692.14 22	0.198 22	6995.53	(5/2,7/2,9/2 ⁺)	4303.01	(5/2 ⁺ ,7/2 ⁺)
2702.64 7	0.49 5	3996.49	(5/2 ⁺)	1293.609	7/2 ⁻
2710.41& 16	0.188 20	2710.48	3/2 ⁺ ,5/2 ⁺	0.0	3/2 ⁺
^x 2719.22‡ 17	0.181 19				
2727.07 18	0.173 18	7654.93	(3/2 ⁻ ,5/2,7/2 ⁻)	4927.83	(5/2) ⁺
2733.90 7	0.56 6	(10095.25)	7/2 ⁻ ,9/2 ⁻	7361.15?	(3/2 ⁻ ,5/2,7/2 ⁻)
2756.68 4	2.7 3	2756.73	5/2 ⁺	0.0	3/2 ⁺
2763.40 6	0.58 6	4345.66	(5/2,7/2 ⁻)	1582.001	3/2 ⁻
^x 2780.15 15	0.30 3				
2784.08# 17	0.26 3	5496.61	(7/2 ⁺)	2712.57	(7/2) ⁻
2794.04bg 20	0.26 7	3774.66	5/2 ⁻ ,7/2 ⁻	980.476	1/2 ⁺
2805.21# 13	0.29 3	6040.67	(3/2 ⁻ ,5/2,7/2)	3235.57	(3/2 ⁻ ,5/2,7/2 ⁻)
2809.9# 4	0.099 12	5952.41	(7/2 ⁻ ,9/2 ⁻)	3142.43	5/2 ⁻
^x 2817.10 13	0.237 25				
2827.06# 24	0.136 16	6040.67	(3/2 ⁻ ,5/2,7/2)	3213.61	5/2 ⁻
2833.7 3	0.136 16	6394.31	(3/2 ⁻ ,5/2,7/2 ⁻)	3560.61	(3/2 ⁻ ,5/2,7/2 ⁺)
2838.1# 3	0.120 14	6078.56	(3/2) ⁻	3240.65	(5/2 ⁺ ,7/2 ⁻)
2850.2# 4	0.29 6	5298.86	(3/2 ⁻ ,5/2,7/2 ⁻)	2447.83	(3/2 ⁺ ,5/2,7/2 ⁺)
2852.25 17	0.83 10	4146.15	5/2 ⁻ ,7/2 ⁻	1293.609	7/2 ⁻
2862.57# 15	0.44 5	5575.24?	(3/2 ⁻ ,5/2,7/2 ⁺)	2712.57	(7/2) ⁻
^x 2865.8‡ 3	0.30 3				
^x 2869.7 3	0.188 22				
2875.7 3	0.122 15	6528.13	(3/2 ⁻ ,5/2,7/2 ⁻)	3651.46	(5/2,7/2 ⁻)
^x 2887.18 6	0.57 6				
2899.77 6	0.79 8	4459.72	1/2 ⁻ ,3/2 ⁻	1559.903	3/2 ⁺
2919.06 13	0.25 3	7654.93	(3/2 ⁻ ,5/2,7/2 ⁻)	4735.86	(5/2 ⁺ ,7/2 ⁺)
2926.96 6	0.58 6	4220.62	(5/2)	1293.609	7/2 ⁻
2935.07 5	0.96 10	4228.99	(5/2) ⁻	1293.609	7/2 ⁻
2945.08# 12	0.33 3	6186.04	(5/2,7/2,9/2 ⁻)	3240.65	(5/2 ⁺ ,7/2 ⁻)
2950.55 5	1.63 16	4244.22	(3/2) ⁻	1293.609	7/2 ⁻
2963.0# 4	0.086 13	5557.39?		2593.97	1/2 ⁻ ,3/2 ⁻
2968.61f 18	0.217f 23	5496.61	(7/2 ⁺)	2527.66	11/2 ⁺
2968.61f 18	0.217f 23	6995.53	(5/2,7/2,9/2 ⁺)	4026.94	
2981.26 5	2.55 25	4274.96	(7/2 ⁻ ,9/2 ⁺)	1293.609	7/2 ⁻
2988.2# 10	0.034 8	5496.61	(7/2 ⁺)	2507.93	7/2 ⁺
^x 2995.81 19	0.186 20				
3001.4 3	0.133 16	5496.61	(7/2 ⁺)	2494.91	9/2 ⁺
3015.8# 4	0.132 25	3996.49	(5/2 ⁺)	980.476	1/2 ⁺
3024.88 21	0.31 3	7020.97	(3/2) ⁻	3996.49	(5/2 ⁺)
3038.4 3	0.32 4	4735.86	(5/2 ⁺ ,7/2 ⁺)	1698.005	5/2 ⁺
3042.81 20	0.62 5	6186.04	(5/2,7/2,9/2 ⁻)	3142.43	5/2 ⁻
3047.8# 3	0.47 5	3048.22	1/2 ⁻ ,3/2 ⁻	0.0	3/2 ⁺
3051.7# 3	0.37 5	4345.66	(5/2,7/2 ⁻)	1293.609	7/2 ⁻
3059.75 10	0.87 6	(10095.25)	7/2 ⁻ ,9/2 ⁻	7035.28	(5/2) ⁻
3067.79#bg 20	0.37 3	4745.49	(5/2 ⁺)	1677.235	7/2 ⁺
3073.97 9	1.15 7	(10095.25)	7/2 ⁻ ,9/2 ⁻	7020.97	(3/2) ⁻
3086.7# 7	0.09 3	6229.88?	(3/2 ⁻ ,5/2,7/2 ⁻)	3142.43	5/2 ⁻

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ †	I_γ † ^e	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{x3090.0}_{\dagger} 8$	0.07 3				
3099.57 10	0.41 3	(10095.25)	$7/2^-, 9/2^-$	6995.53	$(5/2, 7/2, 9/2^+)$
3124.5# 7	0.049 15	4823.33	$(7/2^+, 9/2^+)$	1698.005	$5/2^+$
3129.59# 15	0.258 22	5886.95	$(3/2)^-$	2756.73	$5/2^+$
3138.25 14	0.251 22	5912.50	$(9/2^+)$	2774.25	$13/2^+$
3146.19 13	0.44 3	4823.33	$(7/2^+, 9/2^+)$	1677.235	$7/2^+$
3150.6# 3	0.223 25	5912.50	$(9/2^+)$	2761.73	$11/2^-$
3155.0# 3	0.154 22	5298.86	$(3/2^-, 5/2, 7/2^-)$	2143.821	$5/2^+$
3163.67 10	0.61 4	4745.49	$(5/2^+)$	1582.001	$3/2^-$
3179.67 10	0.65 4	5496.61	$(7/2^+)$	2316.617	$5/2^-$
3185.2# 3	0.177 22	4862.43	$(3/2^+, 5/2)$	1677.235	$7/2^+$
3191.2 3	0.33 4	5952.41	$(7/2^-, 9/2^-)$	2761.73	$11/2^-$
3194.8# 6	0.12 3	5968.89	$(9/2^+, 11/2^-)$	2774.25	$13/2^+$
$^{x3201.9}_4$	0.156 21				
3206.7# 3	0.201 23	5968.89	$(9/2^+, 11/2^-)$	2761.73	$11/2^-$
3213.7#bg 4	0.122 18	3213.61	$5/2^-$	0.0	$3/2^+$
3229.6# 5	0.44 11	4927.83	$(5/2)^+$	1698.005	$5/2^+$
$^{x3244.1}_{\dagger} 3$	0.38 5				
3253.1# 9	0.31 16	4927.83	$(5/2)^+$	1677.235	$7/2^+$
3259.52 14	1.08 8	(10095.25)	$7/2^-, 9/2^-$	6835.43	$(5/2, 7/2^-)$
3282.8# 5	0.20 5	6040.67	$(3/2^-, 5/2, 7/2)$	2756.73	$5/2^+$
3292.64# 19	0.266 25	5800.80	$(3/2^+, 5/2^+)$	2507.93	$7/2^+$
3304.17# 15	0.38 3	(10095.25)	$7/2^-, 9/2^-$	6791.36	$(5/2, 7/2^-)$
3312.70 14	0.51 4	(10095.25)	$7/2^-, 9/2^-$	6782.54	
3317.59 22	0.31 3	7593.06		4274.96	$(7/2^-, 9/2^+)$
3325.40 12	0.50 4	(10095.25)	$7/2^-, 9/2^-$	6769.77	$(3/2^-, 5/2, 7/2^-)$
3334.6# 3	0.169 21	4927.83	$(5/2)^+$	1593.107	$1/2^+$
$^{x3362.1}_4$	0.105 14				
3366.78# 13	0.336 23	4948.94	$(3/2^-, 5/2, 7/2^-)$	1582.001	$3/2^-$
3379.76 12	0.304 20	7654.93	$(3/2^-, 5/2, 7/2^-)$	4274.96	$(7/2^-, 9/2^+)$
3385.88# 10	0.379 24	6434.51	$(3/2^-, 5/2, 7/2^-)$	3048.22	$1/2^-, 3/2^-$
$^{x3399.7}_5$	0.177 20				
3404.78 15	0.45 3	5912.50	$(9/2^+)$	2507.93	$7/2^+$
3410.75 21	0.285 25	7654.93	$(3/2^-, 5/2, 7/2^-)$	4244.22	$(3/2)^-$
3416.8 3	0.25 3	5912.50	$(9/2^+)$	2494.91	$9/2^+$
3421.2 5	0.128 23	7035.28	$(5/2)^-$	3612.77	
3437.10# 12	0.45 3	4730.70	$(3/2)^-$	1293.609	$7/2^-$
3455.86 9	0.79 5	4749.47	$(3/2^-, 5/2, 7/2^+)$	1293.609	$7/2^-$
3479.8# 3	0.19 3	4459.72	$1/2^-, 3/2^-$	980.476	$1/2^+$
3488.59 ^{fc} 21	0.82 ^f 10	3489.30	$(5/2)^+$	0.0	$3/2^+$
3488.59 ^f 21	0.82 ^f 10	5655.66	$(3/2^-, 5/2^+)$	2166.695	$3/2^-$
$^{x3499.8}_{\dagger} 8$	0.071 22				
$^{x3508.2}_{\dagger} 10$	0.13 6				
$^{x3511.3}_{\dagger} 8$	0.16 7				
3520.84# 15	0.47 4	3521.38	$(5/2^+, 7/2^+)$	0.0	$3/2^+$
3529.4# 4	0.149 24	4823.33	$(7/2^+, 9/2^+)$	1293.609	$7/2^-$
3540.8# 9	0.10 4	6782.54		3240.65	$(5/2^+, 7/2^-)$
3561.0 5	0.45 12	3560.61	$(3/2^-, 5/2, 7/2^+)$	0.0	$3/2^+$
3565.4# 7	0.46 12	(10095.25)	$7/2^-, 9/2^-$	6528.13	$(3/2^-, 5/2, 7/2^-)$

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{x}3578.95^a$ 24	0.108 11				
$^{x}3585.54$ 16	0.165 13				
3597.88 15	0.229 17	(10095.25)	7/2 ⁻ , 9/2 ⁻	6497.00?	(3/2) ⁻
3612.91 11	0.268 17	3612.77		0.0	3/2 ⁺
$^{x}3620.27$ 10	0.294 18				
3627.74 [#] 14	0.209 15	6769.77	(3/2 ⁻ , 5/2, 7/2 ⁻)	3141.84	(7/2 ⁻)
3634.1 [#] 3	0.073 10	4927.83	(5/2) ⁺	1293.609	7/2 ⁻
3644.2 3	0.23 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	6450.15?	(3/2 ⁻ , 5/2, 7/2 ⁺)
3655.0 3	0.23 3	4948.94	(3/2 ⁻ , 5/2, 7/2 ⁻)	1293.609	7/2 ⁻
3660.75 13	0.64 5	(10095.25)	7/2 ⁻ , 9/2 ⁻	6434.51	(3/2 ⁻ , 5/2, 7/2 ⁻)
$^{x}3670.55$ 25	0.152 17				
3683.71 7	0.91 5	6211.50	(7/2 ⁺ , 9/2 ⁻)	2527.66	11/2 ⁺
3693.2 [#] 3	0.116 15	6835.43	(5/2, 7/2 ⁻)	3141.84	(7/2 ⁻)
3700.85 10	0.53 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	6394.31	(3/2 ⁻ , 5/2, 7/2 ⁻)
3715.9 ^f 4	0.095 ^f 15	5298.86	(3/2 ⁻ , 5/2, 7/2 ⁻)	1582.001	3/2 ⁻
3715.9 ^f 4	0.095 ^f 15	6211.50	(7/2 ⁺ , 9/2 ⁻)	2494.91	9/2 ⁺
3723.9 3	0.118 15	6040.67	(3/2 ⁻ , 5/2, 7/2)	2316.617	5/2 ⁻
3740.45 [#] 23	0.25 3	8200.11	(5/2 ⁻ , 7/2 ⁻ , 3/2 ⁺)	4459.72	1/2 ⁻ , 3/2 ⁻
3747.9 ^f 6	0.095 ^f 20	6255.96	(5/2, 7/2 ⁻)	2507.93	7/2 ⁺
3747.9 ^f 6	0.095 ^f 20	7361.15?	(3/2 ⁻ , 5/2, 7/2 ⁻)	3612.77	
3761.21 7	1.69 9	3761.54		0.0	3/2 ⁺
3774.74 12	0.60 4	3774.66	5/2 ⁻ , 7/2 ⁻	0.0	3/2 ⁺
3785.6 [#] 3	0.179 23	7020.97	(3/2) ⁻	3235.57	(3/2 ⁻ , 5/2, 7/2 ⁻)
3792.6 3	0.201 24	7938.98		4146.15	5/2 ⁻ , 7/2 ⁻
3805.04 11	0.69 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	6290.05	(3/2) ⁻
3815.21 10	0.67 4	6528.13	(3/2 ⁻ , 5/2, 7/2 ⁻)	2712.57	(7/2) ⁻
3826.55 [#] 15	0.40 3	3826.90	(5/2, 7/2 ⁺)	0.0	3/2 ⁺
3839.07 11	0.58 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	6255.96	(5/2, 7/2 ⁻)
3865.20 12	0.327 21	(10095.25)	7/2 ⁻ , 9/2 ⁻	6229.88?	(3/2 ⁻ , 5/2, 7/2 ⁻)
3870.84 11	0.364 22	5548.19	(3/2 ⁺ , 5/2 ⁺ , 7/2 ⁺)	1677.235	7/2 ⁺
3883.57 6	1.04 6	(10095.25)	7/2 ⁻ , 9/2 ⁻	6211.50	(7/2 ⁺ , 9/2 ⁻)
$^{x}3889.75$ 18	0.229 17				
3895.0 4	0.078 11	6211.50	(7/2 ⁺ , 9/2 ⁻)	2316.617	5/2 ⁻
3908.84 7	1.56 9	(10095.25)	7/2 ⁻ , 9/2 ⁻	6186.04	(5/2, 7/2, 9/2 ⁻)
$^{x}3925.35$ 9	0.80 5				
3932.7 [#] 5	0.098 18	5610.83	(5/2, 7/2 ⁺)	1677.235	7/2 ⁺
3939.9 [#] 3	0.25 3	8200.11	(5/2 ⁻ , 7/2 ⁻ , 3/2 ⁺)	4260.36	
3944.8 5	0.141 23	8190.21	(3/2 ⁻ , 5/2, 7/2 ⁻)	4244.22	(3/2) ⁻
$^{x}3973.74$ 16	0.40 3				
3996.25 6	2.50 13	3996.49	(5/2 ⁺)	0.0	3/2 ⁺
$^{x}4004.50$ 18	0.296 24				
4016.40 14	0.42 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	6078.56	(3/2) ⁻
4024.41 13	0.43 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	6070.76	(5/2, 7/2, 9/2 ⁺)
4041.0 [#] 6	0.068 16	5021.23?		980.476	1/2 ⁺
4054.41 9	0.75 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	6040.67	(3/2 ⁻ , 5/2, 7/2)
4063.0 [#] 3	0.143 18	5655.66	(3/2 ⁻ , 5/2 ⁺)	1593.107	1/2 ⁺
$^{x}4088.53$ 6	0.449 24				
4099.69 24	0.084 8	5659.25	(3/2 ⁻ , 5/2, 7/2 ⁺)	1559.903	3/2 ⁺
$^{x}4105.17$ 9	0.335 19				
4117.87 8	0.318 18	6434.51	(3/2 ⁻ , 5/2, 7/2 ⁻)	2316.617	5/2 ⁻
4126.14 7	0.392 21	(10095.25)	7/2 ⁻ , 9/2 ⁻	5968.89	(9/2 ⁺ , 11/2 ⁻)
4142.63 6	0.61 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	5952.41	(7/2 ⁻ , 9/2 ⁻)

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$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{x}4150.83$ 13	0.131 9				
$^{x}4167.05$ 13	0.149 10				
4175.64 23	0.089 8	6769.77	(3/2 ⁻ , 5/2, 7/2 ⁻)	2593.97	1/2 ⁻ , 3/2 ⁻
4182.54 6	0.86 5	(10095.25)	7/2 ⁻ , 9/2 ⁻	5912.50	(9/2 ⁺)
$^{x}4187.79$ 10	0.317 19				
$^{x}4200.51$ 9	0.227 13				
4208.05 6	0.74 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	5886.95	(3/2 ⁻)
$^{x}4215.83$ 9	0.343 20				
4220.63 12	0.251 15	4220.62	(5/2)	0.0	3/2 ⁺
4227.4 3	0.089 13	6394.31	(3/2 ⁻ , 5/2, 7/2 ⁻)	2166.695	3/2 ⁻
4228.8 3	0.109 14	4228.99	(5/2) ⁻	0.0	3/2 ⁺
4238.51 20	0.165 14	6995.53	(5/2, 7/2, 9/2 ⁺)	2756.73	5/2 ⁺
$^{x}4251.80$ 18	0.205 16				
4259.73 11	0.376 23	4260.36		0.0	3/2 ⁺
4268.34 7	0.73 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	5826.66	(5/2) ⁺
$^{x}4283.91$ 8	0.54 3				
4294.09 8	0.55 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	5800.80	(3/2 ⁺ , 5/2 ⁺)
4302.7 3	0.101 12	4303.01	(5/2 ⁺ , 7/2 ⁺)	0.0	3/2 ⁺
4322.00 [#] 18	0.121 10	7035.28	(5/2) ⁻	2712.57	(7/2) ⁻
$^{x}4332.02$ 23	0.097 9				
$^{x}4339.53$ 9	0.329 19				
$^{x}4350.62$ 24	0.089 9				
4372.6 ^f 5	0.108 ^f 13	6070.76	(5/2, 7/2, 9/2 ⁺)	1698.005	5/2 ⁺
4372.6 ^f 5	0.108 ^f 13	8200.11	(5/2 ⁻ , 7/2 ⁻ , 3/2 ⁺)	3826.90	(5/2, 7/2 ⁺)
4380.2 [#] 10	0.062 12	6078.56	(3/2) ⁻	1698.005	5/2 ⁺
4429.0 5	0.065 10	8190.21	(3/2 ⁻ , 5/2, 7/2 ⁻)	3761.54	
4435.0 6	0.54 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	5659.25	(3/2 ⁻ , 5/2, 7/2 ⁺)
4439.37 7	1.20 7	(10095.25)	7/2 ⁻ , 9/2 ⁻	5655.66	(3/2 ⁻ , 5/2 ⁺)
$^{x}4446.47$ 17	0.179 13				
4459.0 [#] 6	0.59 3	4459.72	1/2 ⁻ , 3/2 ⁻	0.0	3/2 ⁺
4465.7 4	0.063 9	6782.54		2316.617	5/2 ⁻
4474.0 7	0.032 7	6791.36	(5/2, 7/2 ⁻)	2316.617	5/2 ⁻
4484.24 11	0.333 20	(10095.25)	7/2 ⁻ , 9/2 ⁻	5610.83	(5/2, 7/2 ⁺)
4489.92 11	0.388 23	(10095.25)	7/2 ⁻ , 9/2 ⁻	5604.58	(3/2 ⁻ , 5/2, 7/2 ⁺)
4496.0 4	0.067 9	6078.56	(3/2) ⁻	1582.001	3/2 ⁻
4509.6 3	0.142 18	6186.04	(5/2, 7/2, 9/2 ⁻)	1677.235	7/2 ⁺
4519.62 13	0.47 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	5575.24?	(3/2 ⁻ , 5/2, 7/2 ⁺)
4532.7 3	0.37 5	5826.66	(5/2) ⁺	1293.609	7/2 ⁻
4536.7 4	0.26 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	5557.39?	
4546.79 8	1.15 7	(10095.25)	7/2 ⁻ , 9/2 ⁻	5548.19	(3/2 ⁺ , 5/2 ⁺ , 7/2 ⁺)
4576.65 11	0.200 12	5557.39?		980.476	1/2 ⁺
$^{x}4582.9$ 3	0.101 10				
$^{x}4587.2$ [‡] 8	0.034 9				
4598.26 6	0.87 5	(10095.25)	7/2 ⁻ , 9/2 ⁻	5496.61	(7/2 ⁺)
4639.50 19	0.087 7	8200.11	(5/2 ⁻ , 7/2 ⁻ , 3/2 ⁺)	3560.61	(3/2 ⁻ , 5/2, 7/2 ⁺)
4647.89 [#] 17	0.105 8	7361.15?	(3/2 ⁻ , 5/2, 7/2 ⁻)	2712.57	(7/2) ⁻
$^{x}4657.35$ 7	0.53 3				
4668.25 ^f 24	0.099 ^f 9	6835.43	(5/2, 7/2 ⁻)	2166.695	3/2 ⁻
4668.25 ^f 24	0.099 ^f 9	8190.21	(3/2 ⁻ , 5/2, 7/2 ⁻)	3521.38	(5/2 ⁺ , 7/2 ⁺)
4673.52 11	0.270 16	6255.96	(5/2, 7/2 ⁻)	1582.001	3/2 ⁻
4696.38 ^f 17	0.280 ^f 20	6290.05	(3/2) ⁻	1593.107	1/2 ⁺
4696.38 ^f 17	0.280 ^f 20	6394.31	(3/2 ⁻ , 5/2, 7/2 ⁻)	1698.005	5/2 ⁺
4701.3 5	0.145 16	8190.21	(3/2 ⁻ , 5/2, 7/2 ⁻)	3489.30	(5/2) ⁺

Continued on next page (footnotes at end of table)

$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
4705.8 8	0.056 15	6290.05	(3/2) ⁻	1582.001	3/2 ⁻
^x 4723.26 9	0.369 21				
4735.9 [#] 3	0.076 9	4735.86	(5/2 ⁺ , 7/2 ⁺)	0.0	3/2 ⁺
4744.6 6	0.44 3	4745.49	(5/2 ⁺)	0.0	3/2 ⁺
4749.05 11	0.51 3	4749.47	(3/2 ⁻ , 5/2, 7/2 ⁺)	0.0	3/2 ⁺
4776.65 22	0.110 10	6070.76	(5/2, 7/2, 9/2 ⁺)	1293.609	7/2 ⁻
4796.10 [#] 7	0.81 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	5298.86	(3/2 ⁻ , 5/2, 7/2 ⁻)
4820.08 18	0.167 12	5800.80	(3/2 ⁺ , 5/2 ⁺)	980.476	1/2 ⁺
^x 4832.47 [‡] 9	0.54 3				
^x 4855.30 17	0.085 6				
4862.43 10	0.186 11	4862.43	(3/2 ⁺ , 5/2)	0.0	3/2 ⁺
^x 4875.66 16	0.122 8				
4880.8 [#] 6	0.027 5	7593.06		2712.57	(7/2) ⁻
4891.12 14	0.098 7	7035.28	(5/2) ⁻	2143.821	5/2 ⁺
4905.3 9	0.15 5	5886.95	(3/2) ⁻	980.476	1/2 ⁺
4910.04 25	0.63 6	(10095.25)	7/2 ⁻ , 9/2 ⁻	5185.27	(5/2, 7/2 ⁻)
^x 4926.2 3	0.33 4				
^x 4978.6 4	0.150 21				
4998.64 [#] 8	0.60 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	5096.20	
^x 5012.68 11	0.315 19				
5021.19 17	0.165 12	5021.23?		0.0	3/2 ⁺
5073.4 5	0.096 16	(10095.25)	7/2 ⁻ , 9/2 ⁻	5021.23?	
^x 5083.40 20	0.275 23				
5114.5 4	0.153 18	6791.36	(5/2, 7/2 ⁻)	1677.235	7/2 ⁺
5146.00 21	0.37 3	(10095.25)	7/2 ⁻ , 9/2 ⁻	4948.94	(3/2 ⁻ , 5/2, 7/2 ⁻)
5151.7 3	0.29 3	8200.11	(5/2 ⁻ , 7/2 ⁻ , 3/2 ⁺)	3048.22	1/2 ⁻ , 3/2 ⁻
5157.8 [#] 7	0.085 18	6835.43	(5/2, 7/2 ⁻)	1677.235	7/2 ⁺
5167.18 10	0.81 5	(10095.25)	7/2 ⁻ , 9/2 ⁻	4927.83	(5/2) ⁺
5203.2 3	0.134 16	6497.00?	(3/2) ⁻	1293.609	7/2 ⁻
5225.9 4	0.117 17	7938.98		2712.57	(7/2) ⁻
5232.14 25	0.223 20	(10095.25)	7/2 ⁻ , 9/2 ⁻	4862.43	(3/2 ⁺ , 5/2)
^x 5249.91 19	0.262 21				
^x 5260.2 [‡] 10	0.039 13				
5271.54 7	1.88 10	(10095.25)	7/2 ⁻ , 9/2 ⁻	4823.33	(7/2 ⁺ , 9/2 ⁺)
^x 5278.9 3	0.111 12				
^x 5288.2 4	0.065 10				
^x 5299.95 21	0.127 12				
5309.3 5	0.053 9	6290.05	(3/2) ⁻	980.476	1/2 ⁺
5319.5 9	0.028 9	6995.53	(5/2, 7/2, 9/2 ⁺)	1677.235	7/2 ⁺
5345.65 12	1.13 8	(10095.25)	7/2 ⁻ , 9/2 ⁻	4749.47	(3/2 ⁻ , 5/2, 7/2 ⁺)
5349.57 10	1.56 9	(10095.25)	7/2 ⁻ , 9/2 ⁻	4745.49	(5/2 ⁺)
5357.7 3	0.43 4	7035.28	(5/2) ⁻	1677.235	7/2 ⁺
5359.0 3	0.53 5	(10095.25)	7/2 ⁻ , 9/2 ⁻	4735.86	(5/2 ⁺ , 7/2 ⁺)
5364.03 12	0.60 4	(10095.25)	7/2 ⁻ , 9/2 ⁻	4730.70	(3/2) ⁻
^x 5420.46 18	0.244 18				
^x 5440.87 14	0.359 24				
5476.0 ^f 3	0.116 ^f 14	6769.77	(3/2 ⁻ , 5/2, 7/2 ⁻)	1293.609	7/2 ⁻
5476.0 ^f 3	0.116 ^f 14	7035.28	(5/2) ⁻	1559.903	3/2 ⁺
5485.42 7	1.61 9	(10095.25)	7/2 ⁻ , 9/2 ⁻	4609.48	(5/2 ⁺ , 7/2, 9/2 ⁺)
^x 5495.88 ^{f@} 8	1.32 ^f 7				
5495.88 ^{f@g} 8	1.32 ^f 7	5496.61	(7/2 ⁺)	0.0	3/2 ⁺
5510.82 15	0.297 20	7654.93	(3/2 ⁻ , 5/2, 7/2 ⁻)	2143.821	5/2 ⁺
5526.14 13	0.369 23	(10095.25)	7/2 ⁻ , 9/2 ⁻	4568.75	(9/2 ⁺ , 11/2 ⁻)

Continued on next page (footnotes at end of table)

$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ †	I_γ †e	$E_i(\text{level})$	J_i^π	E_f	J_f^π
5541.64 17	0.329 23	6835.43	(5/2,7/2 ⁻)	1293.609	7/2 ⁻
5547.91 12	0.56 3	5548.19	(3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺)	0.0	3/2 ⁺
5568.8 4	0.149 19	(10095.25)	7/2 ⁻ ,9/2 ⁻	4525.37	
5573.9 3	0.183 20	5575.24?	(3/2 ⁻ ,5/2,7/2 ⁺)	0.0	3/2 ⁺
5604.26 18	0.262 19	5604.58	(3/2 ⁻ ,5/2,7/2 ⁺)	0.0	3/2 ⁺
5610.3 5	0.080 12	5610.83	(5/2,7/2 ⁺)	0.0	3/2 ⁺
5635.26 8	1.45 8	(10095.25)	7/2 ⁻ ,9/2 ⁻	4459.72	1/2 ⁻ ,3/2 ⁻
^x 5646.3 4	0.071 10				
5658.9 15	0.257 17	5659.25	(3/2 ⁻ ,5/2,7/2 ⁺)	0.0	3/2 ⁺
^x 5676.90 18	0.203 15				
5727.03 22	0.75 7	7020.97	(3/2) ⁻	1293.609	7/2 ⁻
5749.31 9	4.06 23	(10095.25)	7/2 ⁻ ,9/2 ⁻	4345.66	(5/2,7/2 ⁻)
5776.8 10	0.10 3	7361.15?	(3/2 ⁻ ,5/2,7/2 ⁻)	1582.001	3/2 ⁻
5791.75 25	0.55 5	(10095.25)	7/2 ⁻ ,9/2 ⁻	4303.01	(5/2 ⁺ ,7/2 ⁺)
^x 5806.0 8	0.11 3				
5819.99 11	2.16 13	(10095.25)	7/2 ⁻ ,9/2 ⁻	4274.96	(7/2 ⁻ ,9/2 ⁺)
5834.25 15	1.04 7	(10095.25)	7/2 ⁻ ,9/2 ⁻	4260.36	
5850.46 13	1.36 9	(10095.25)	7/2 ⁻ ,9/2 ⁻	4244.22	(3/2) ⁻
5865.66 13	1.52 10	(10095.25)	7/2 ⁻ ,9/2 ⁻	4228.99	(5/2) ⁻
5873.60 23	0.65 6	(10095.25)	7/2 ⁻ ,9/2 ⁻	4220.62	(5/2)
5930.19 9	1.23 7	(10095.25)	7/2 ⁻ ,9/2 ⁻	4164.57	
5948.69 11	0.65 4	(10095.25)	7/2 ⁻ ,9/2 ⁻	4146.15	5/2 ⁻ ,7/2 ⁻
6068.06 25	0.174 16	(10095.25)	7/2 ⁻ ,9/2 ⁻	4026.94	
6098.23 7	5.4 3	(10095.25)	7/2 ⁻ ,9/2 ⁻	3996.49	(5/2 ⁺)
6104.2 3	0.38 4	(10095.25)	7/2 ⁻ ,9/2 ⁻	3990.40?	
6224.9 3	0.152 16	(10095.25)	7/2 ⁻ ,9/2 ⁻	3870.52	5/2 ⁻ ,7/2 ⁻
6267.86 11	0.85 5	(10095.25)	7/2 ⁻ ,9/2 ⁻	3826.90	(5/2,7/2 ⁺)
6289.24 21	0.272 22	6290.05	(3/2) ⁻	0.0	3/2 ⁺
6308.8 8	0.049 12	9740.70	(3/2) ⁻	3431.84	(9/2 ⁻ ,7/2 ⁻)
6319.7 6	0.88 5	(10095.25)	7/2 ⁻ ,9/2 ⁻	3774.66	5/2 ⁻ ,7/2 ⁻
6333.24 9	1.80 10	(10095.25)	7/2 ⁻ ,9/2 ⁻	3761.54	
^x 6357.9 5	0.097 14				
6443.17 11	0.382 22	(10095.25)	7/2 ⁻ ,9/2 ⁻	3651.46	(5/2,7/2 ⁻)
6450.6 4	0.069 8	6450.15?	(3/2 ⁻ ,5/2,7/2 ⁺)	0.0	3/2 ⁺
6481.45 21	0.120 10	(10095.25)	7/2 ⁻ ,9/2 ⁻	3612.77	
6522.4 6	0.030 5	8200.11	(5/2 ⁻ ,7/2 ⁻ ,3/2 ⁺)	1677.235	7/2 ⁺
6534.26 22	0.093 7	(10095.25)	7/2 ⁻ ,9/2 ⁻	3560.61	(3/2 ⁻ ,5/2,7/2 ⁺)
6560.22 8	0.64 3	(10095.25)	7/2 ⁻ ,9/2 ⁻	3534.45	(7/2 ⁺ ,9/2,11/2 ⁺)
6573.41 13	0.203 12	(10095.25)	7/2 ⁻ ,9/2 ⁻	3521.38	(5/2 ⁺ ,7/2 ⁺)
^x 6588.1 8	0.022 5				
6606.1# 3	0.085 7	(10095.25)	7/2 ⁻ ,9/2 ⁻	3489.30	(5/2) ⁺
6644.90 15	0.306 20	7938.98		1293.609	7/2 ⁻
6662.85 10	0.82 5	(10095.25)	7/2 ⁻ ,9/2 ⁻	3431.84	(9/2 ⁻ ,7/2 ⁻)
6853.9 3	0.37 4	(10095.25)	7/2 ⁻ ,9/2 ⁻	3240.65	(5/2 ⁺ ,7/2 ⁻)
6859.4 5	0.22 3	(10095.25)	7/2 ⁻ ,9/2 ⁻	3235.57	(3/2 ⁻ ,5/2,7/2 ⁻)
6881.05 10	1.63 9	(10095.25)	7/2 ⁻ ,9/2 ⁻	3213.61	5/2 ⁻
6952.26 10	1.97 11	(10095.25)	7/2 ⁻ ,9/2 ⁻	3142.43	5/2 ⁻
7028.03 25	0.044 4	9740.70	(3/2) ⁻	2712.57	(7/2) ⁻
7046.71 19	0.062 5	(10095.25)	7/2 ⁻ ,9/2 ⁻	3048.22	1/2 ⁻ ,3/2 ⁻
7337.71 12	2.04 12	(10095.25)	7/2 ⁻ ,9/2 ⁻	2756.73	5/2 ⁺
7381.97 11	2.33 13	(10095.25)	7/2 ⁻ ,9/2 ⁻	2712.57	(7/2) ⁻
7586.57 10	0.53 3	(10095.25)	7/2 ⁻ ,9/2 ⁻	2507.93	7/2 ⁺
7599.37 14	0.244 15	(10095.25)	7/2 ⁻ ,9/2 ⁻	2494.91	9/2 ⁺
7777.89 14	9.1 6	(10095.25)	7/2 ⁻ ,9/2 ⁻	2316.617	5/2 ⁻
7950.70 13	2.78 17	(10095.25)	7/2 ⁻ ,9/2 ⁻	2143.821	5/2 ⁺

Continued on next page (footnotes at end of table)

$^{40}\text{K}(\text{n},\gamma)$ E=thermal **1984Kr05,1971Be05** (continued) $\gamma(^{41}\text{K})$ (continued)

E_γ [†]	I_γ ^{†e}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
8396.41 12	0.183 10	(10095.25)	$7/2^-, 9/2^-$	1698.005	$5/2^+$
8417.05 19	0.112 9	(10095.25)	$7/2^-, 9/2^-$	1677.235	$7/2^+$
8445.5 7	0.009 2	9740.70	$(3/2)^-$	1293.609	$7/2^-$
^x 8469.5 7	0.010 2				
8512.31 14	0.202 21	(10095.25)	$7/2^-, 9/2^-$	1582.001	$3/2^-$
8800.55 13	1.02 7	(10095.25)	$7/2^-, 9/2^-$	1293.609	$7/2^-$

[†] From **1984Kr05**. I_γ includes systematic uncertainty of 15% below 1.5 MeV, 10% between 1.5 and 3.0 MeV and 5% above 3 MeV.

[‡] This γ has either multiple placements or very improbable placement on the basis of J^π and intensity arguments (**1984Kr05**).

Multiple placement is possible but the given placement is favored by J^π and intensity arguments (**1984Kr05**).

@ Assumed (**1984Kr05**) as doublet, one component from 5496 level, the other remains unidentified. However, the level scheme of **1984Kr05** does not show a g.s. transition from 5496 level. The evaluators have placed this γ from 5496 based on comment by **1984Kr05**.

& Placement is questionable since the branching ratios in (n, γ) (**1984Kr05**) and (n,n' γ) (**1987Kr01**) disagree.

^a May deexcite a 3579 level as proposed by **1986Bi03** in (p, γ).

^b Placement questioned by **1986Bi03** and/or **1986Sm13** in (p, γ); since this γ was not seen in their singles γ or $\gamma\gamma$ coin spectra, as expected from significant branching reported by **1984Kr05**.

^c Placement proposed by **1986Sm13** in (p, γ).

^d Part ($\approx 25\%$) of this γ ray may deexcite 3489 level as in (p, γ).

^e Intensity per 100 neutron captures.

^f Multiply placed with undivided intensity.

^g Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

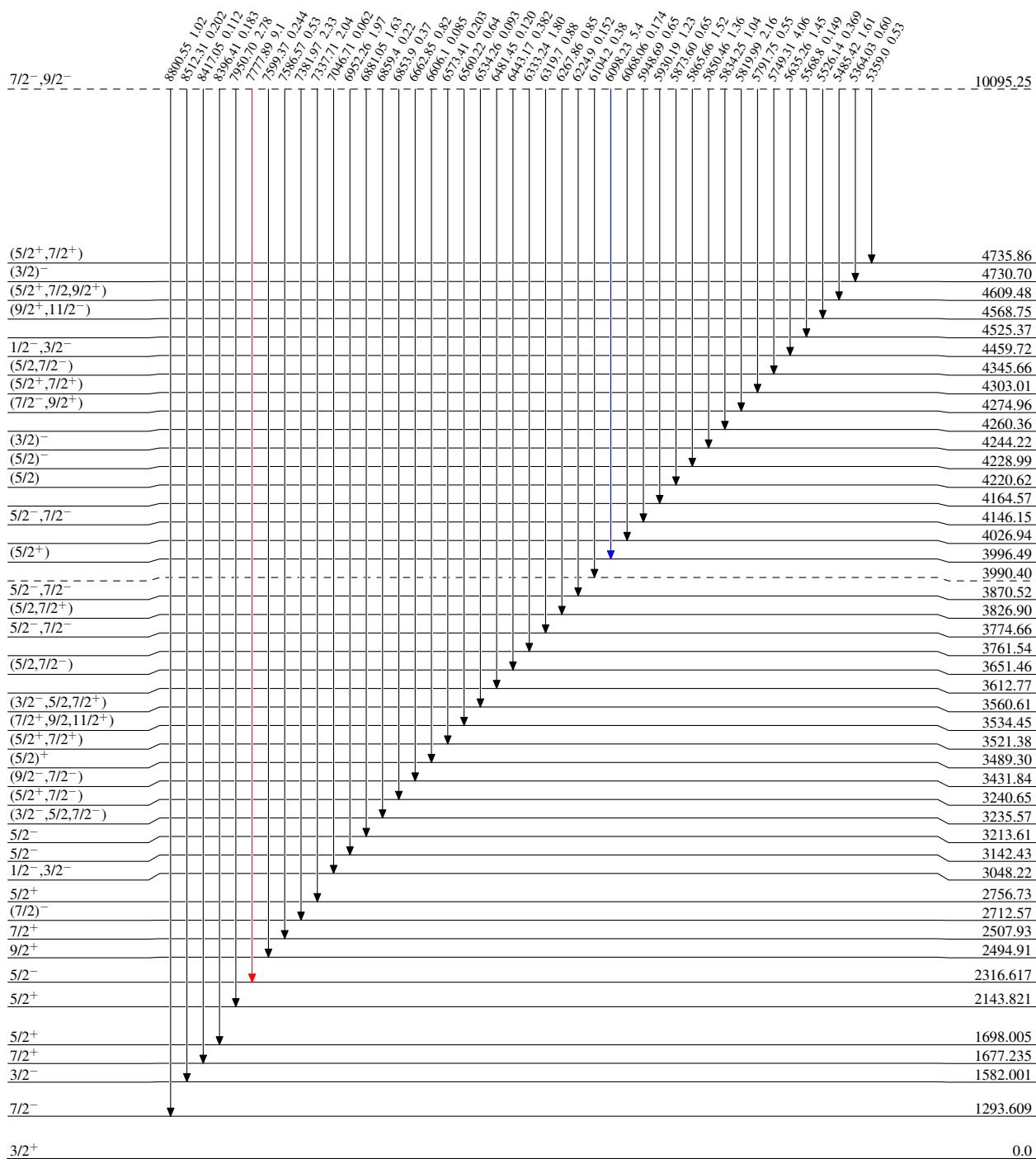
$^{40}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1984Kr05,1971Be05

Legend

Level Scheme

Intensities: Relative I_γ

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



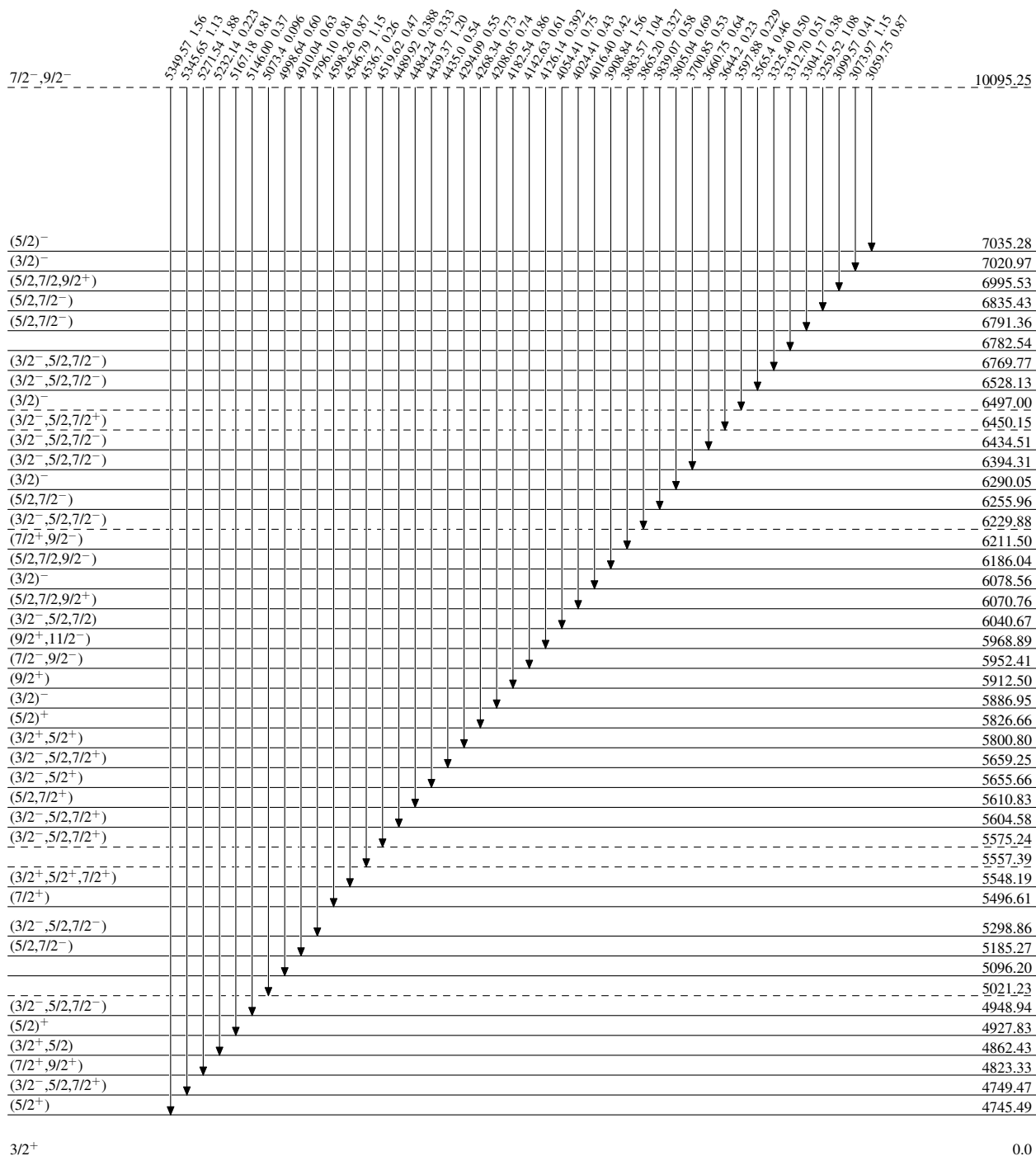
$^{40}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1984Kr05,1971Be05

Legend

Level Scheme (continued)

Intensities: Relative I_γ

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



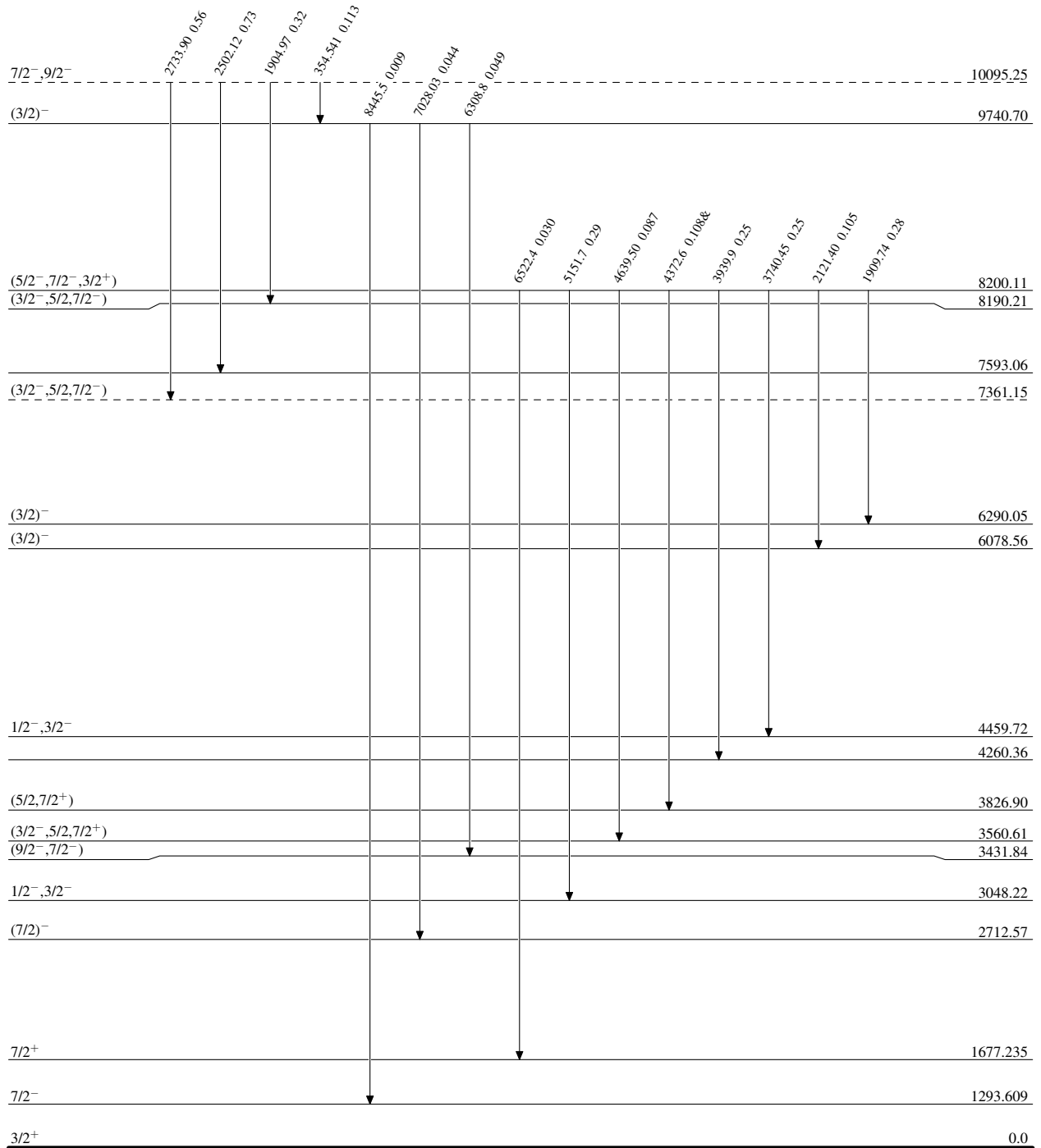
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend

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

 $^{41}_{19}\text{K}_{22}$

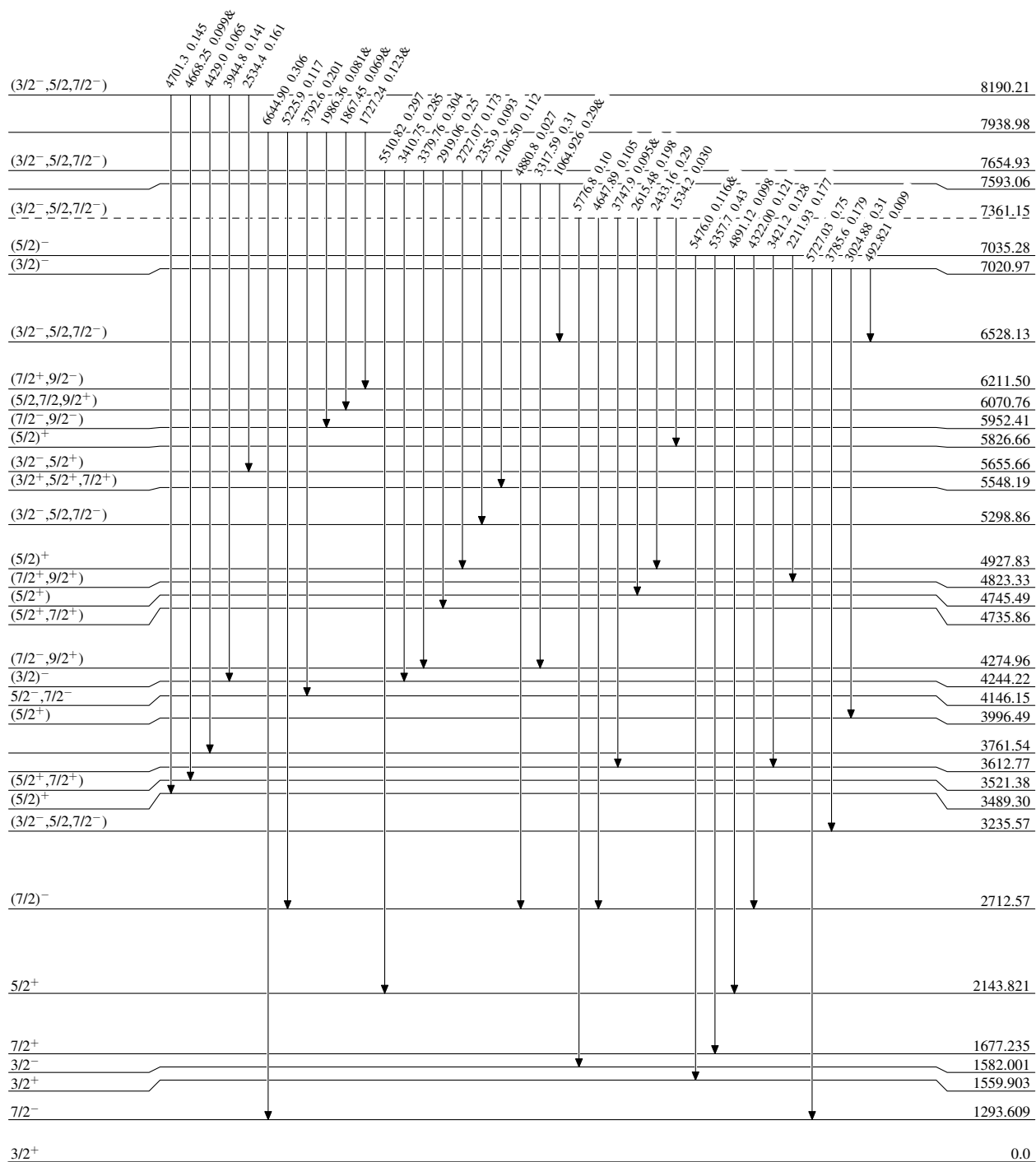
$^{40}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



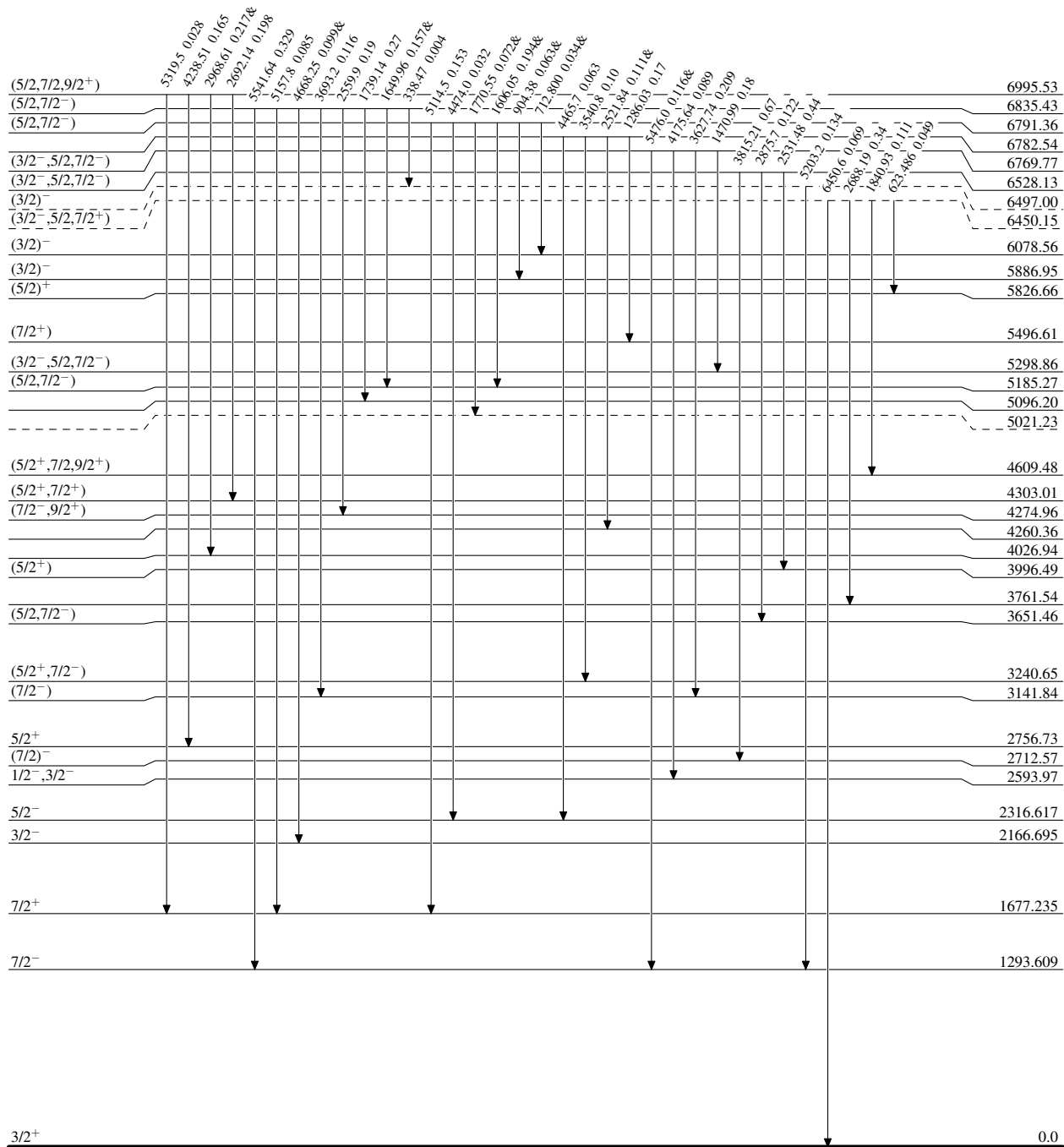
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



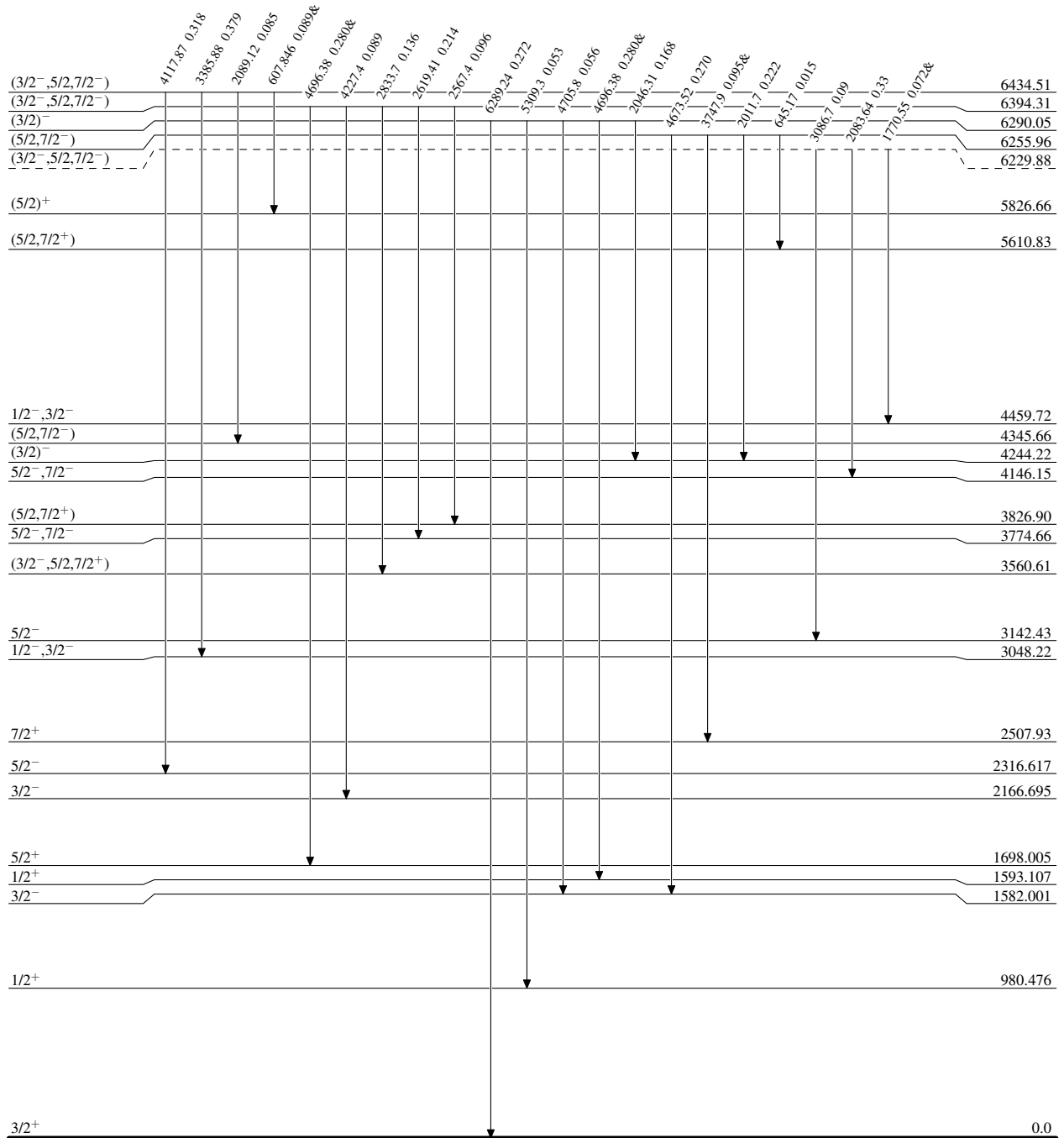
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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

 $^{41}_{19}\text{K}_{22}$

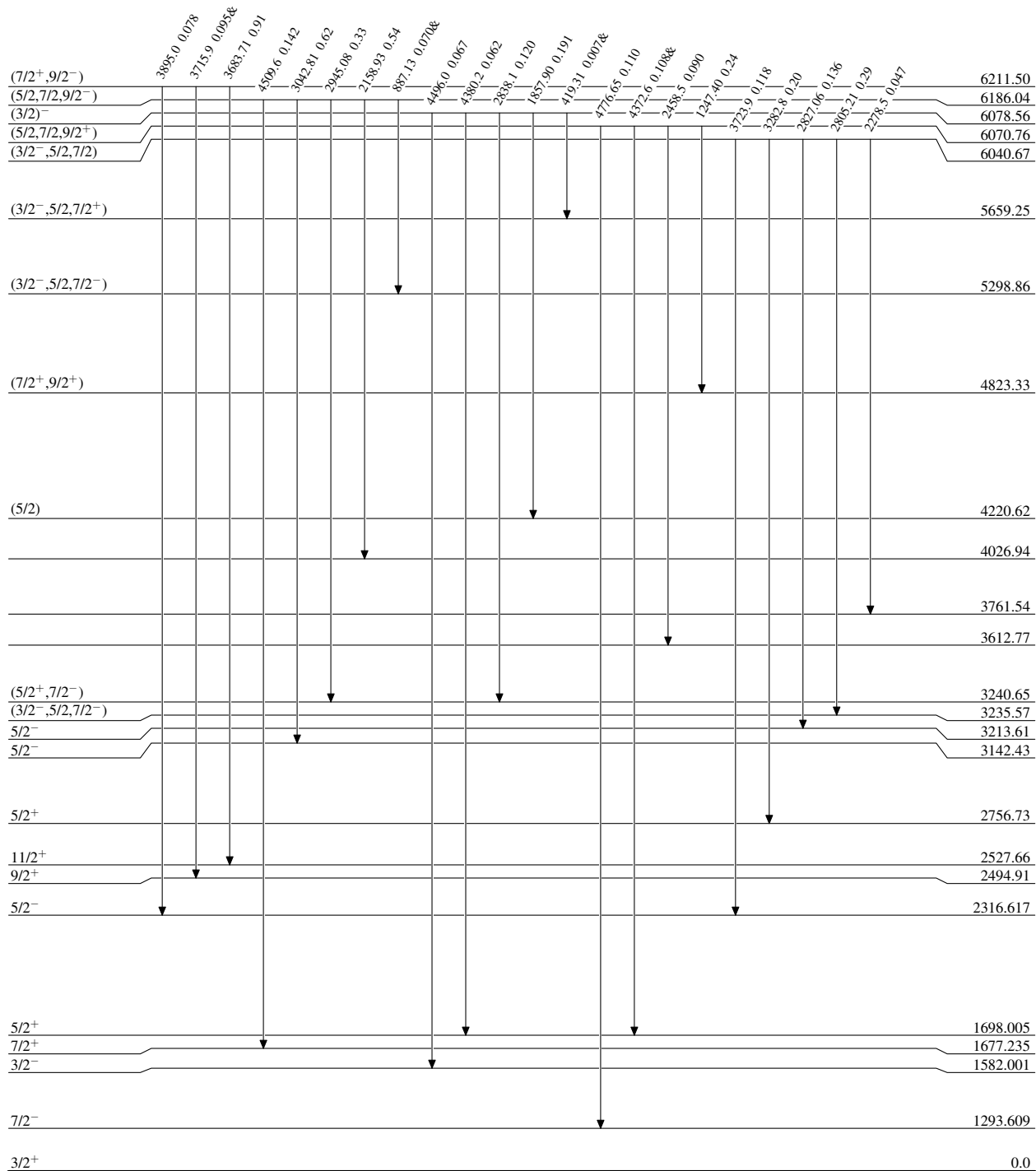
$^{40}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



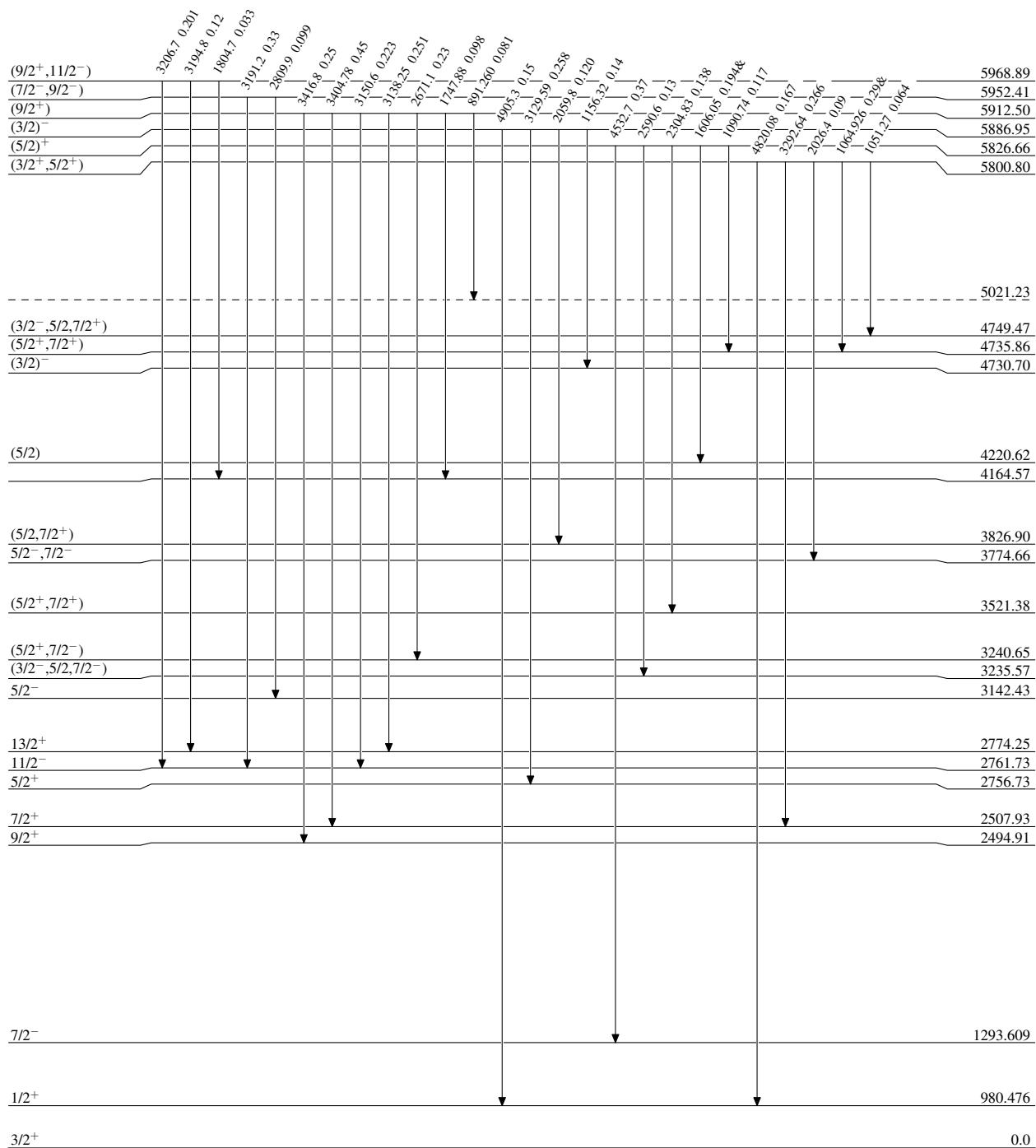
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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

 $^{41}_{19}\text{K}_{22}$

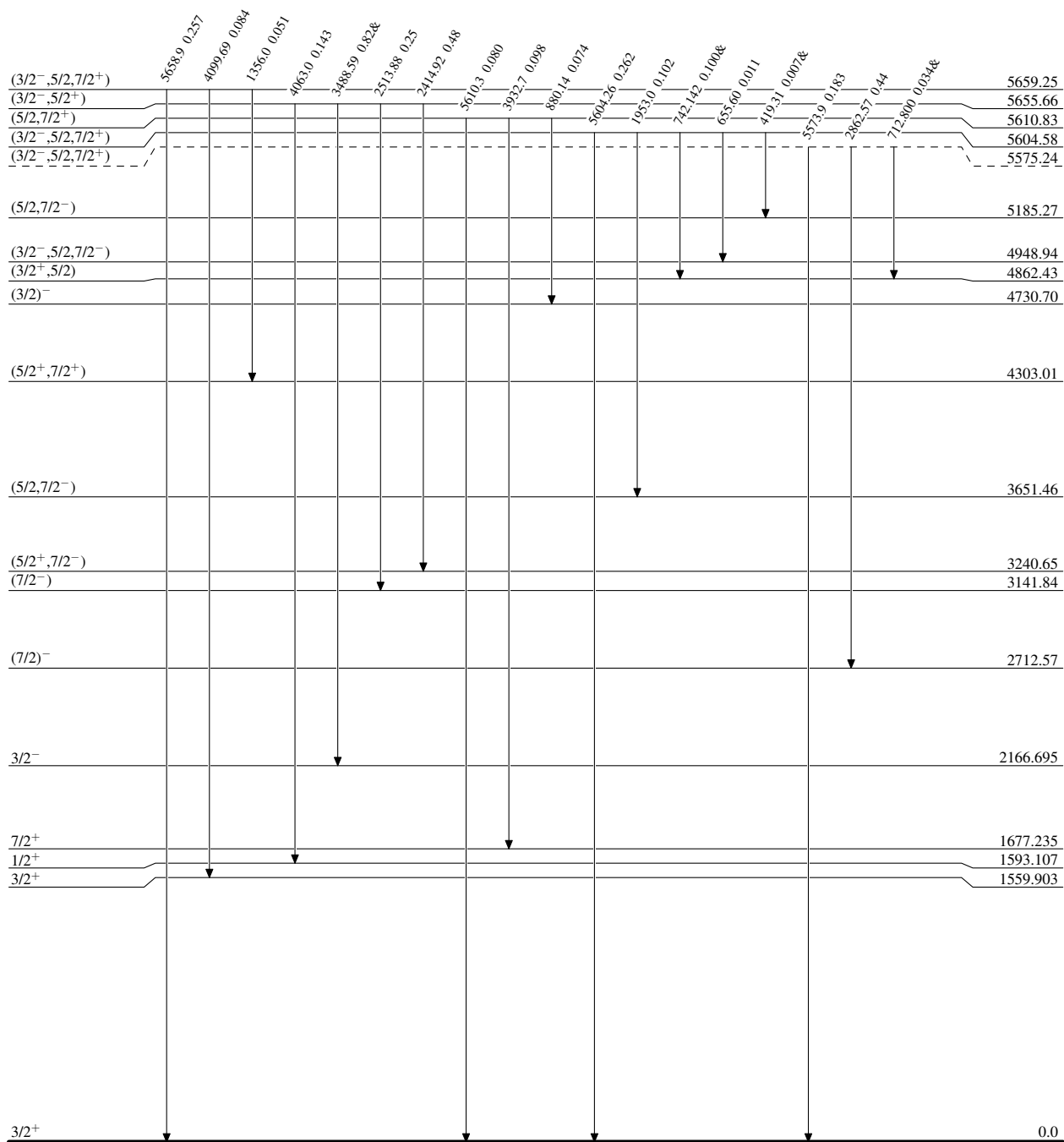
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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

 $^{41}_{19}\text{K}_{22}$

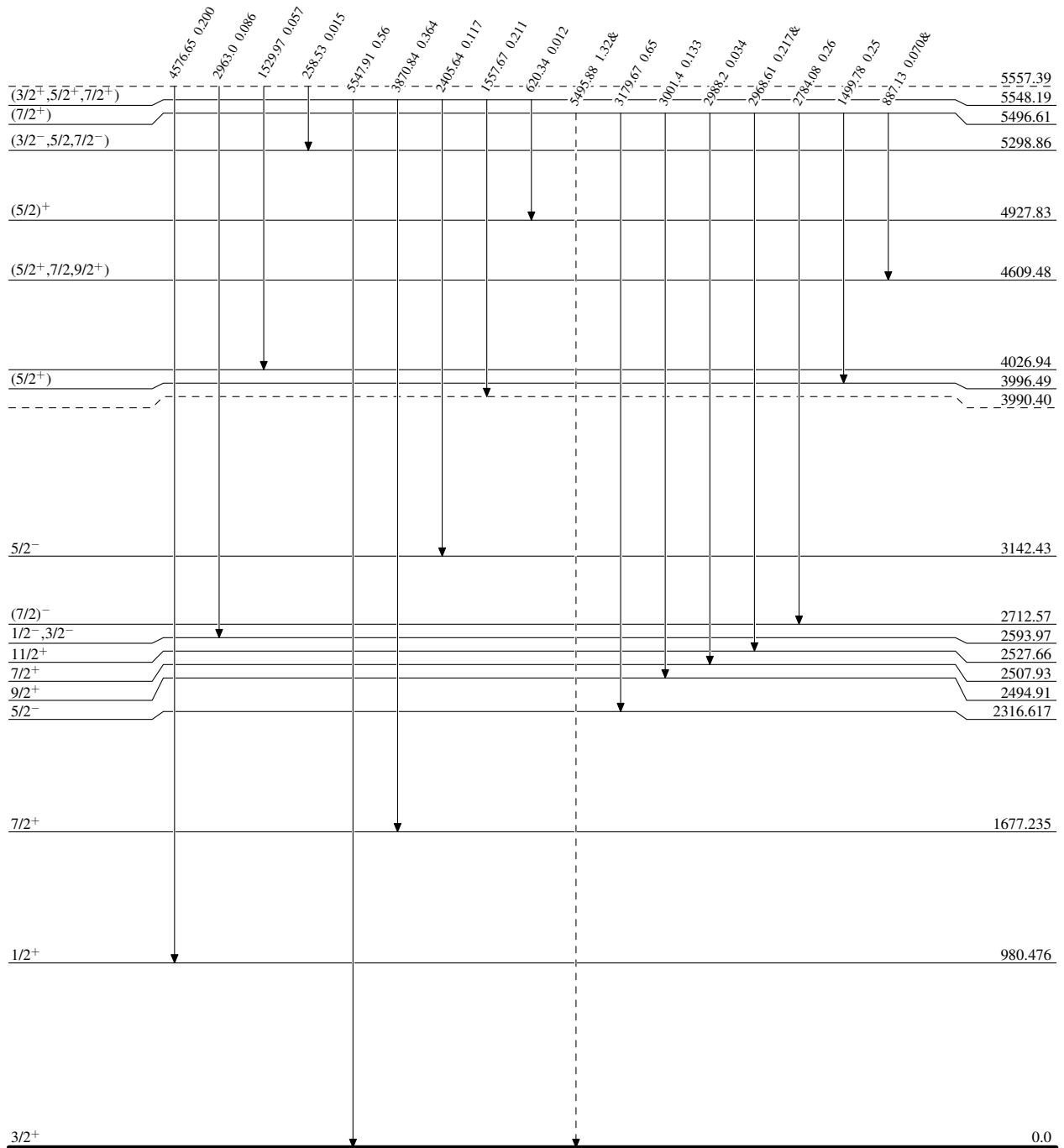
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
 $\cdots\cdots\cdots\longrightarrow$ γ Decay (Uncertain)

 $^{41}_{19}\text{K}_{22}$

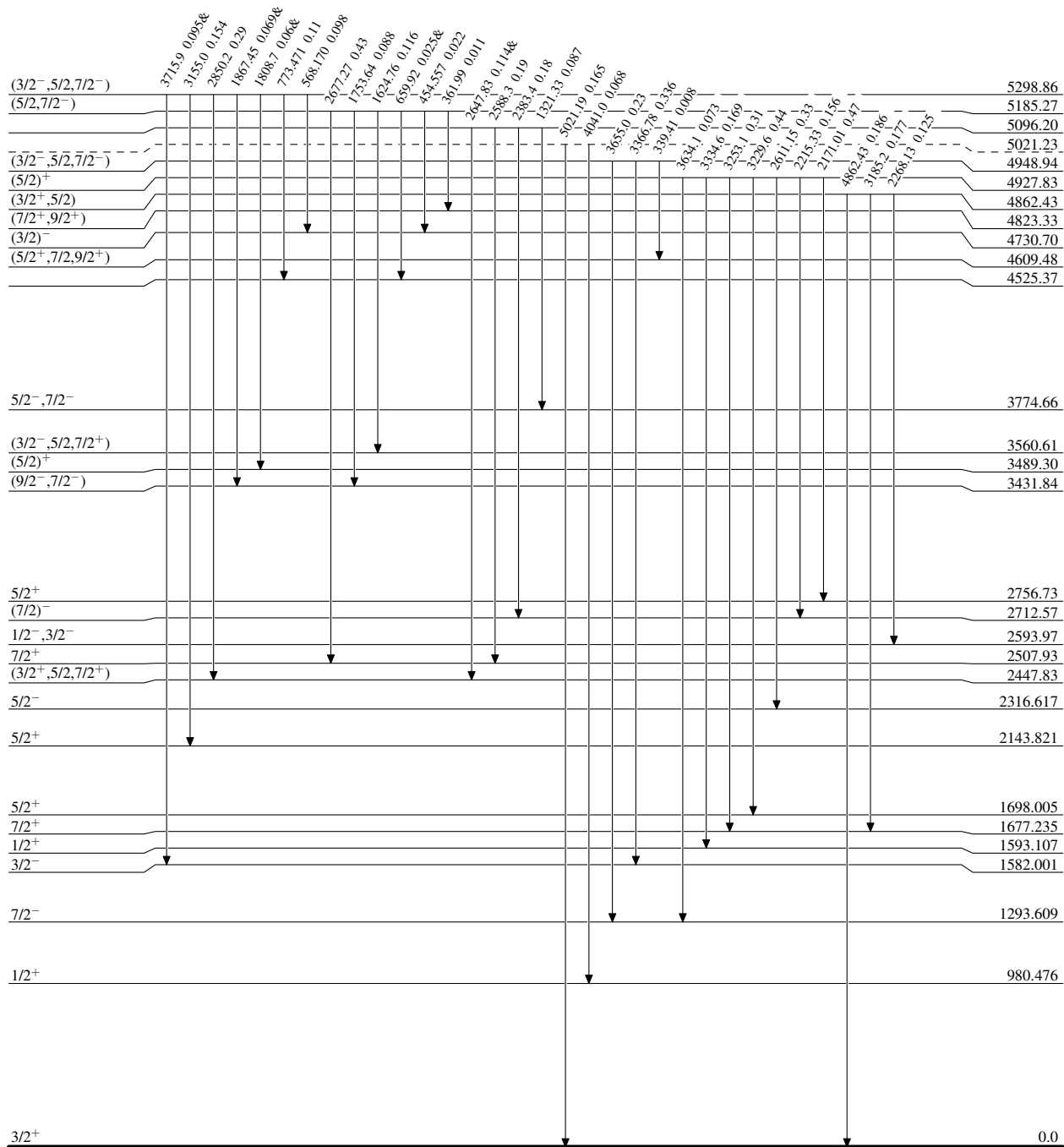
$^{40}\text{K}(\text{n},\gamma)\text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



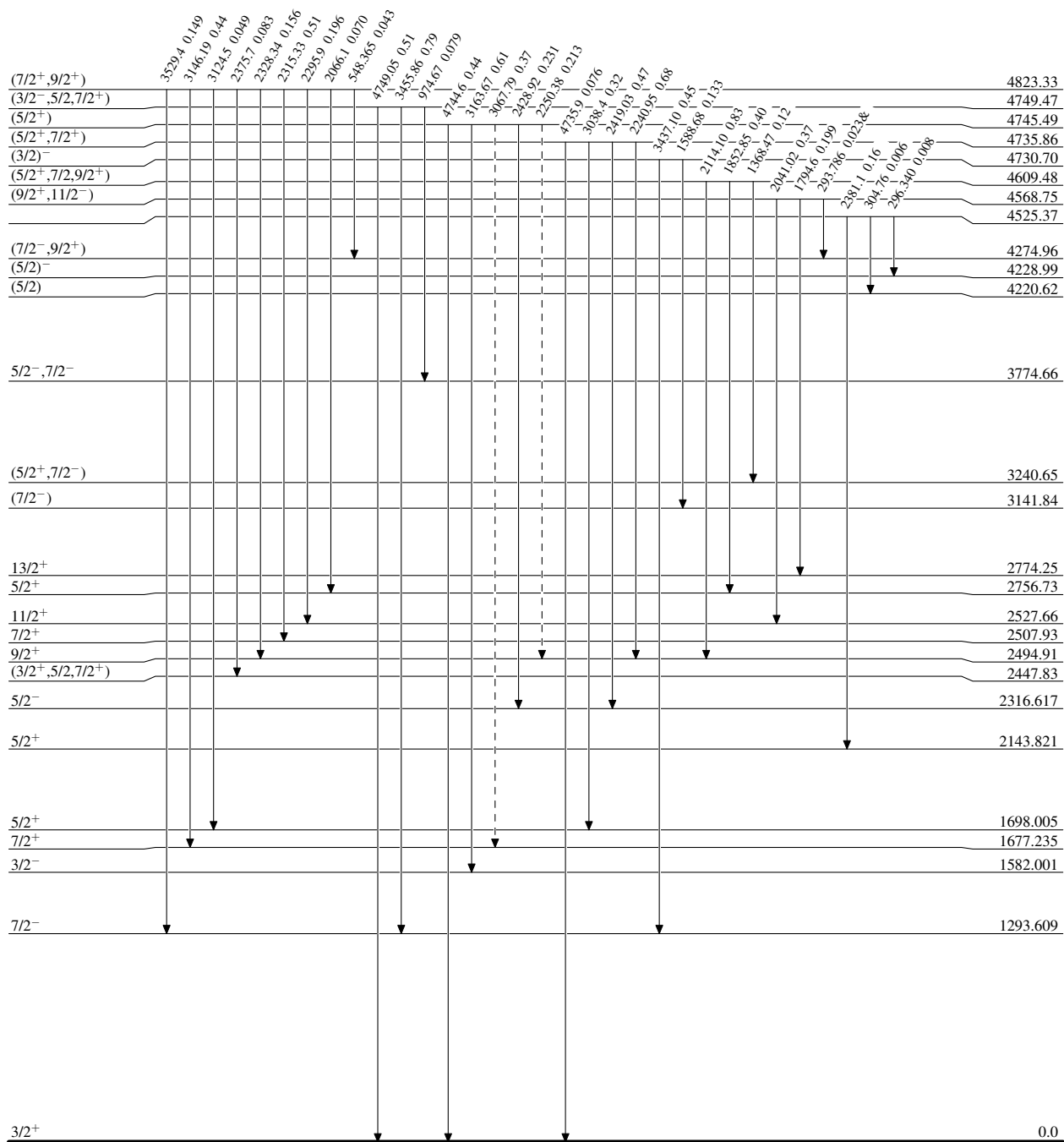
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Legend

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
 $-----\longrightarrow$ γ Decay (Uncertain)



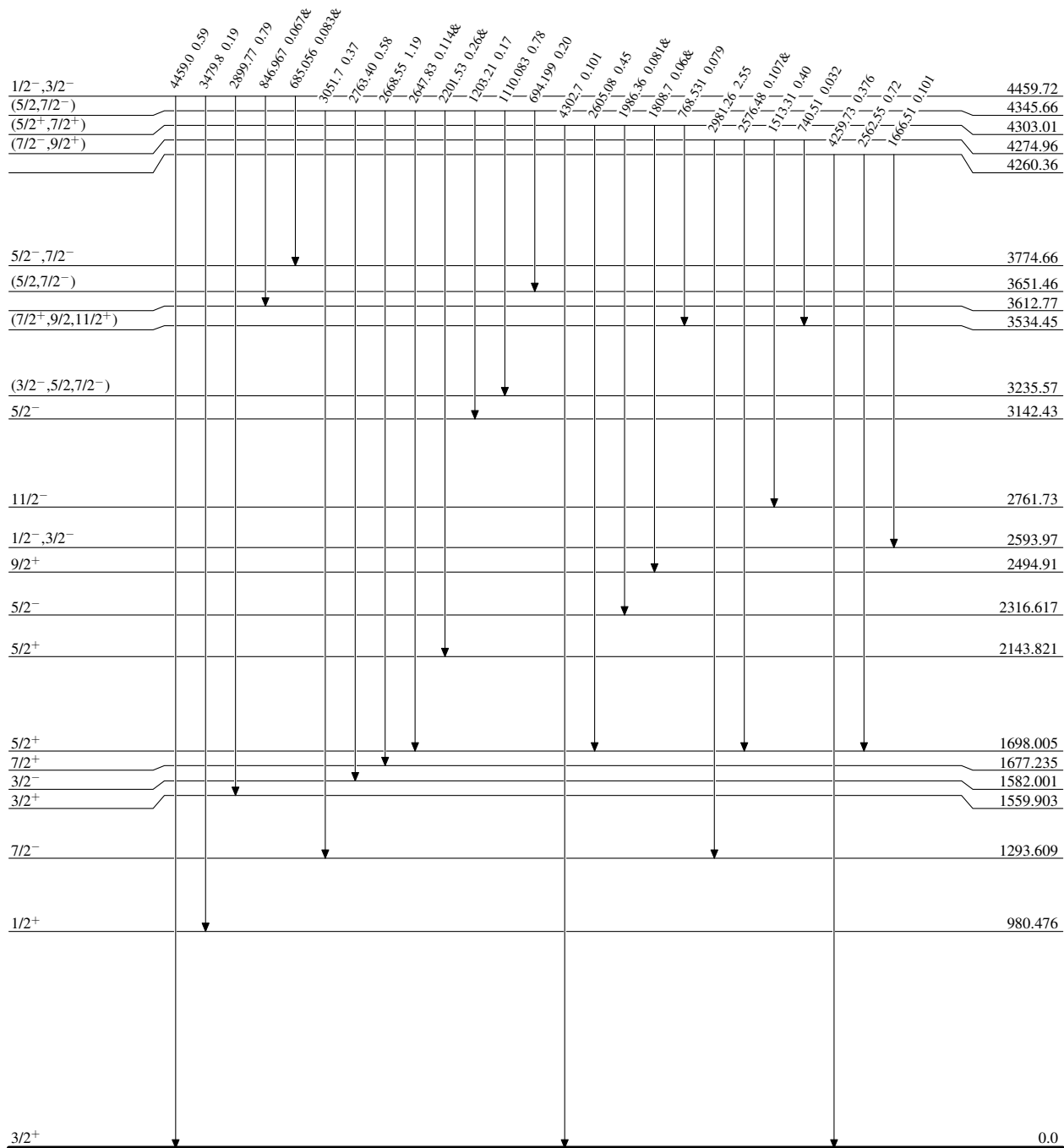
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Legend

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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

 $^{41}_{19}\text{K}_{22}$

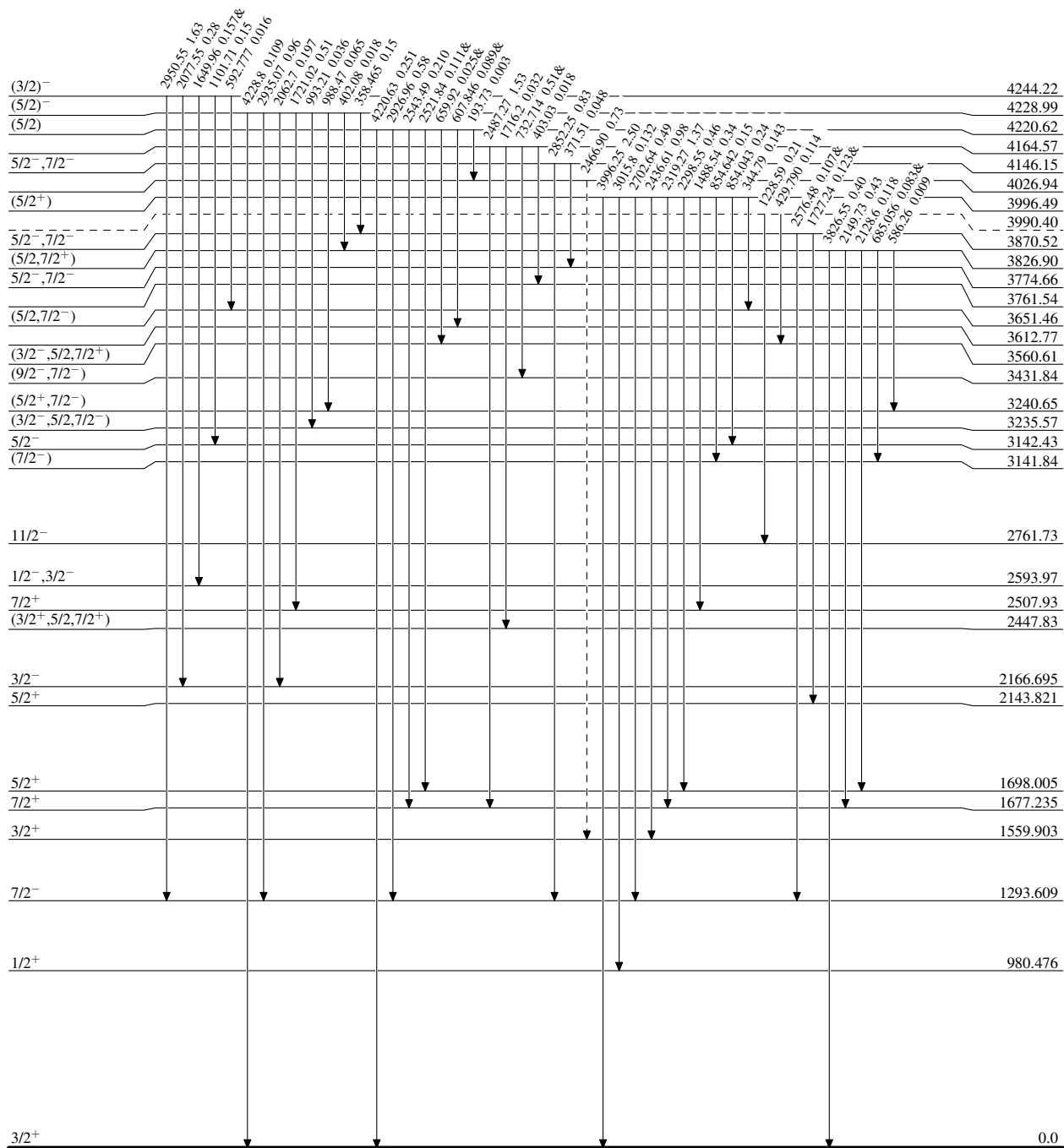
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
 $---$ γ Decay (Uncertain)



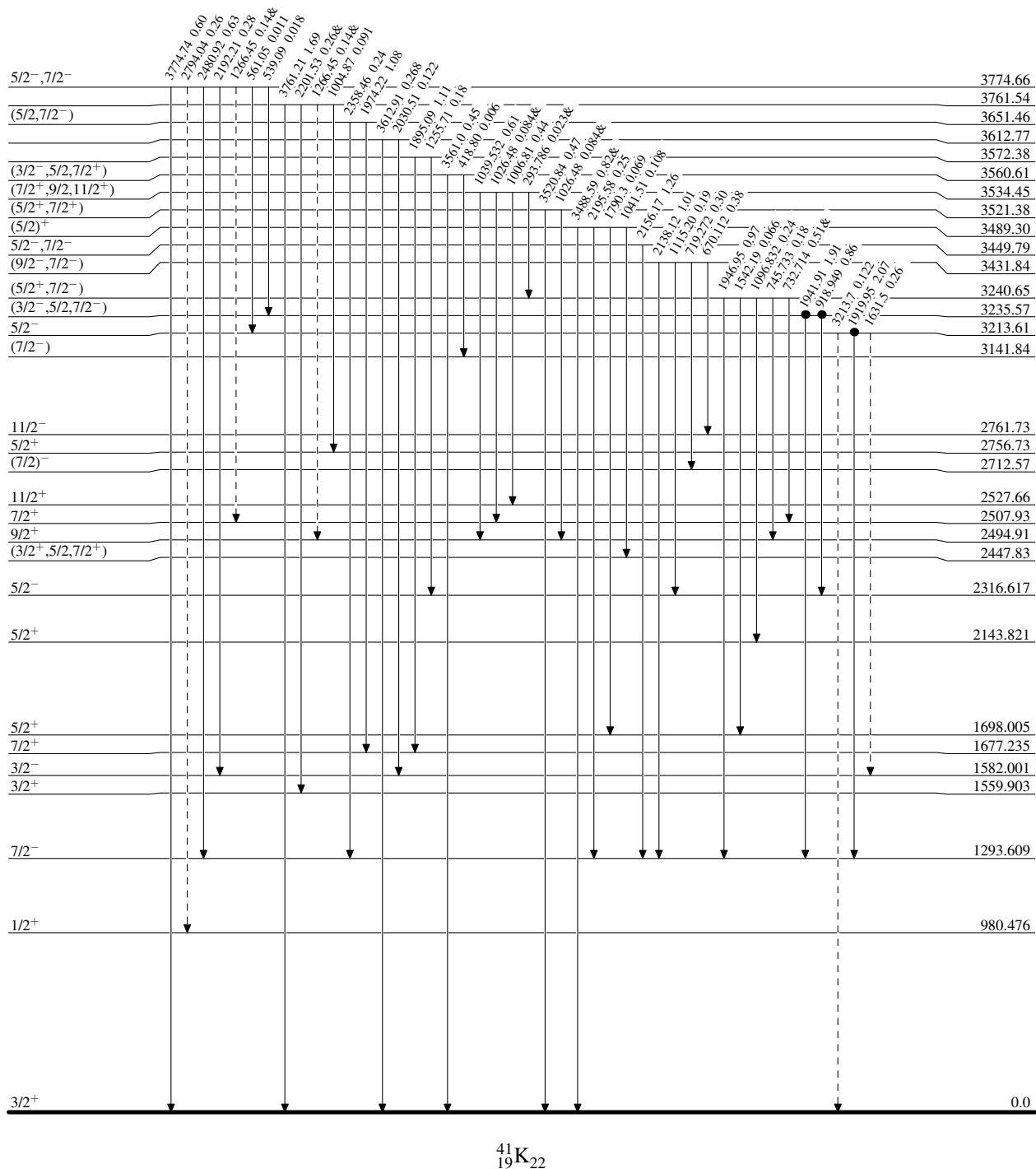
$^{40}\text{K}(\text{n},\gamma)$ E=thermal 1984Kr05,1971Be05

Legend

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
 $\cdots\cdots\cdots$ γ Decay (Uncertain)
 $\bullet$ Coincidence



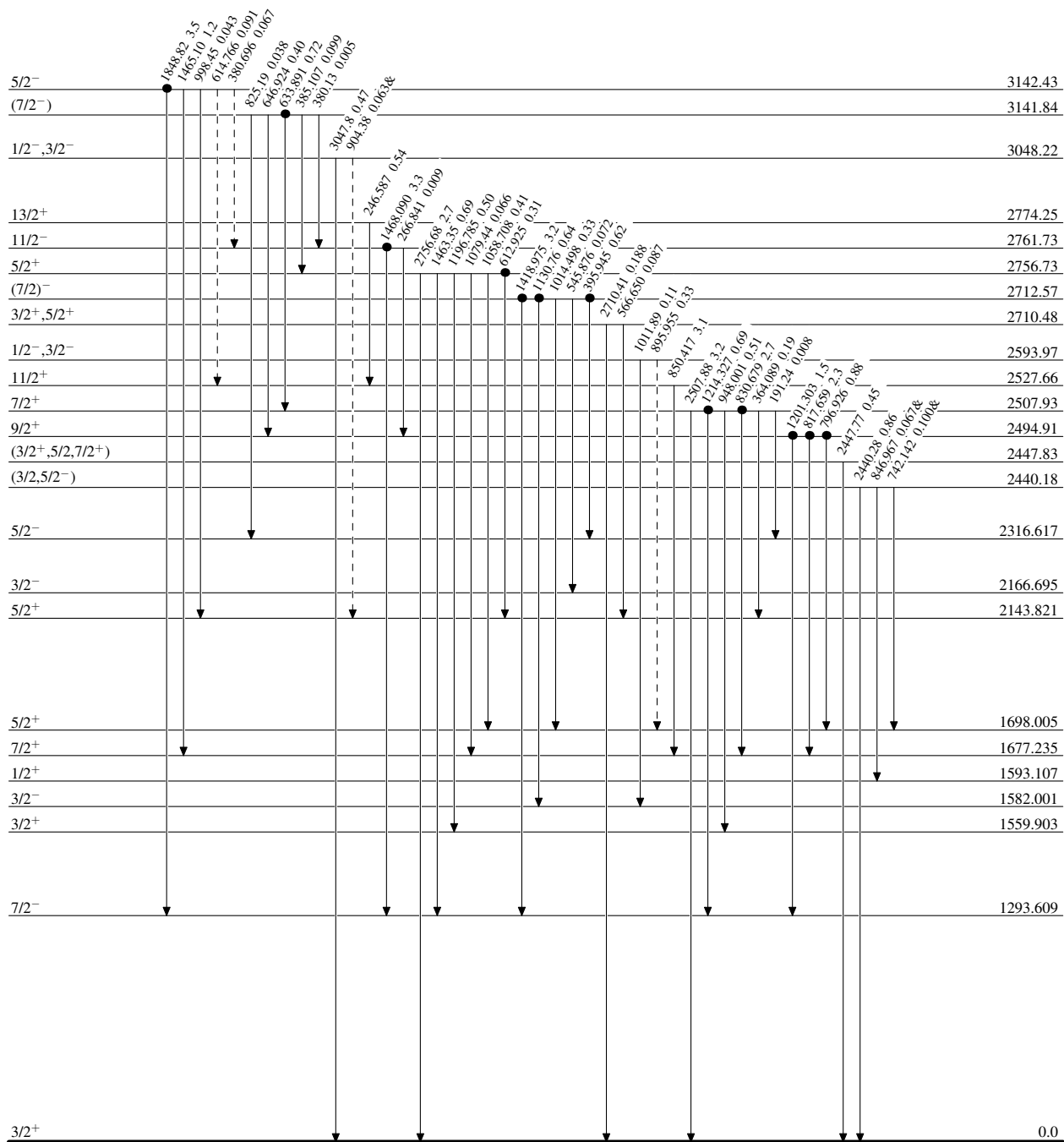
$^{40}\text{K}(\text{n},\gamma) \text{E=thermal}$ 1984Kr05,1971Be05

Legend

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
 $-\cdots-$ γ Decay (Uncertain)
 $\bullet$ Coincidence

 $^{41}_{19}\text{K}_{22}$

$^{40}\text{K}(\text{n},\gamma)$ E=thermal 1984Kr05,1971Be05

Level Scheme (continued)

Intensities: Relative I_γ
& Multiplied: undivided intensity given

Legend

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

