^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 140, 1 (2017)	30-Sep-2015

1984Vo01: (n,γ) Thermal neutrons were produced from the high-flux reactor of the Institut Laue-Langevin at Grenoble. Targets were 36 mg ^{nat}KCl in wrapped in Al or 190 mg and 62 mg ^{nat}KF in a graphite container. γ rays were detected with the ILL curved-crystal spectrometers GAMS, a large-volume Ge(Li) detector and a pair spectrometer. Measured Eγ, Iγ. Deduced levels. A total of 427 γ rays were reported out of which 302 were placed amongst 63 levels, with 38 γ rays doubly or multiply assigned.

2013Fi01: (n,γ) Thermal neutrons were provided by the 10-MW Budapest Reactor. Target was a 0.02 g stoichiometric, high purity KCl. γ rays were detected with a Compton-suppressed HPGe detector. Measured Eγ, total radiative neutron σ. Deduced levels, J, π, feedings. Monte Carlo simulations using computer code DICEBOX. Comparison with statistical model calculations, previous studies, and ENSDF evaluations. A total of 320 γ rays were reported out of which 291 γ rays were associated with 83 levels.

1972Op01: (n,γ) thermal neutrons were produced from the high-flux reactor at Petten, Netherlands. Targets were 400 mg natural K_2CO_3 or 400 mg 98.3% enriched K_2Co_3. γ rays were detected with two Ge(Li) detectors (FWHM=3.0 and 2.6 keV at 1.33 MeV). Measured Eγ, Iγ, $\gamma\gamma$-coin. Deduced levels. A total of 222 γ rays were reported out of which 187 γ rays were associated with 56 levels. $\gamma\gamma$-coin data involved about 25 transitions.

1970Jo04: (n,γ) thermal neutrons were produced from the McMaster reactor. Target was a 35 g sample of natural potassium metal sealed in a quartz tube. γ rays were detected with Ge(Li) detectors. Measured Eγ, Iγ, $\gamma\gamma$-coin. Deduced levels. A total of 252 γ rays were reported out of which 202 γ rays were associated with 56 levels. $\gamma\gamma$-coin data involved 62 transitions.

2002Va28: (n,γ). Measured $\gamma\gamma$-coin, two-quantum cascades. A total of 70 intermediate levels were found from 96 cascades.

Others:

2003MoZU, 2002Re13: Compilations.

2001Ac04: (n,γ). Measured Eγ, Iγ. Deduced k_0 factor.

1988Se06: (n,γ). Measured $\gamma\gamma(\theta)$.

1974Op01, 1972Op02, 1969Ab03: (pol n,γ). Measured γ(circ pol) of capture γ rays to nine levels. Deduced interference in capture state.

1974IsZX: (n,γ). Measured Eγ, Iγ.

1972Se19: (n,γ). Measured relative intensities for six secondary γ rays and nine primary γ rays.

1972GoZN, 1971GoYN: (n,γ). Measured Eγ, Iγ, $\gamma\gamma$-coin, $\gamma\gamma(\theta)$. Deduced levels, J, π, Q.

1970Ei03: (pol n,γ). Measured γ(circ pol) of capture γ rays to 30-keV level.

1969Bo04: (n,γ). Measured $\gamma\gamma$(t) for 30-keV level.

1966Ke07: (n,γ). Measured Eγ, Iγ.

1965Ru06: (n,γ). Measured Eγ, Iγ.

1956Br42, 1956Ad49, 1952Ki32: (n,γ). Measured Eγ, Iγ.

The γ-ray placements and the resulting level scheme is primarily from 1984Vo01, which is mostly based on earlier (n,γ) studies of 1972Op01 and 1970Jo04 combined with other reaction studies. However, based on a better Eγ precision achieved in the work of 1984Vo01, placements for several γ rays are different than proposed by 1970Jo04 and/or 1972Op01. Based on consistency with level energies, intensity balance through the level scheme and spin-parity considerations, 2013Fi01 have resolved many multiple placements of γ rays by 1984Vo01, and have also placed many unplaced γ rays in 1984Vo01. New levels are proposed by 2013Fi01 based on these new placements as well as new γ-ray transitions observed in their work.

^{40}K Levels

The following levels reported by 1972Op01 and/or 1970Jo04 have been omitted since they have not been confirmed in the high-resolution work of 1984Vo01 and 2013Fi01 (either the γ rays decaying from there levels were not observed or were placed differently based on better precision in 1984Vo01 and 2013Fi01): 4586.8, 4665.8 from 1972Op01; 2457.5, 2557.9, 2978.6, 3378.3, 3875.0, 4273.3, 4579.6 from 1970Jo04; 2947.5, 3711.1, 3902.1, 4908.5 from 1972Op01 and 1970Jo04.

E(level)[†]	J$^\pi$[#]	$T_{1/2}$	Comments
0.0	4$^-$		
29.8299 *5*	3$^-$[@]	4.26 ns *8*	$T_{1/2}$: from $\gamma\gamma$(t) in 1969Bo04.

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^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

^{40}K Levels (continued)

E(level)[†]	Jπ[#]	Comments
521.7?[a] *10*		
800.1430 *19*	2−[@]	
891.404 *18*	5−	
1084.3?[a] *10*		
1173.4?[a] *16*		
1228.2?[a] *5*		
1248.4?[a] *3*		
1330.5?[a] *19*		
1409.2?[a] *17*		
1520.7?[a] *11*		
1556.6?[a] *22*		
1643.641 *10*	0+	
1877.7?[a] *8*		
1959.072 *10*	2+	
2047.339 *16*	2−[@]	
2069.805 *20*	3−[&]	
2076.1?[a] *7*		
2103.682 *22*	1−[&]	Jπ: (1,2,3)− (1974Op01).
2260.48 *3*	3+	
2271.1?[a] *10*		
2289.871 *10*	1+	
2290.531 *19*	3−	
2397.206 *23*	4−	
2419.167 *14*	2−[@]	
2422.1?[a] *16*		
2423.7? *8*		E(level): this level is proposed in 2013Fi01 only based on the placement of a 2688.1γ from the 5111.9 level. But this level was neither observed in other work nor listed in Table 3 of populated levels in 2013Fi01. The evaluator have considered this level as questionable.
2575.946 *25*	2+	Jπ: 2+ (1984Vo01).
2618.1?[a] *12*		
2626.003 *22*	0−	
2730.356 *18*	1	
2746.93 *5*	3−	
2756.674 *23*	2+	Jπ: 2+,(3) (1984Vo01).
2786.646 *16*	3+	
2807.88 *4*	(1,2)−	
2925.1?[a] *10*		
2939.2?[a] *8*		
2946.2?[a] *11*		
2985.86 *3*	(2−,3+)	
3000.0?[a] *4*		
3027.971 *23*	(2−,3+)	
3063.5?[a] *11*		
3093.8?[a] *7*		
3109.56 *4*	1+,2+	
3128.463 *25*	(2−,3+)	Jπ: (2−,3,4+) (1984Vo01).
3140.7?[a] *2*		
3146.42 *4*	1(−)	
3153.84 *6*	(2−,3)	Jπ: 3− (1984Vo01).
3228.66 *5*	2−	
3305.2?[a] *12*		
3326.6?[a] *6*		

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^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

^{40}K Levels (continued)

E(level)[†]	Jπ[#]	Comments
3367.98 *8*	(2,3)$^-$	
3373.4?[a] *15*		
3393.67 *5*	2$^-$	
3414.35 *3*	2$^+$	
3428.9?[a] *7*		
3439.145 *25*	(2$^+$)[@]	Jπ: (1,2) (1974Op01), 1$^-$,2$^+$ (1984Vo01).
3486.09 *4*	2$^-$	
3517.7?[a] *11*		
3528.4?[a] *9*		
3557.32 *7*	(1$^-$ to 4$^+$)	
3578.3?[a] *10*		
3599.223 *24*	2$^-$	
3629.98 *4*	2$^-$,3$^-$	Jπ: (2,3)$^-$ (1984Vo01).
3655.6?[a] *3*		
3663.798 *24*	(1$^-$,2,3,4$^+$)	Jπ: (2$^-$,3,4$^+$) (1984Vo01).
3709.5?[a] *13*		
3713.09[‡] *7*	(2)$^-$	
3719.6?[a] *12*		
3738.47 *3*	1$^+$	Jπ: 1$^+$,(2$^-$,3$^+$) (1984Vo01).
3768.49 *14*	(2)$^-$	Jπ: (1$^-$,2,3) (1984Vo01).
3797.55 *3*	1$^+$	
3807.8?[a] *11*		
3821.47 *3*	2$^-$	
3840.254 *24*	(1,2$^+$)	
3856.4?[a] *6*		
3868.67 *4*	2$^-$	Jπ: 3$^-$,(2$^-$) (1984Vo01).
3887.83 *4*	(1$^-$,2$^-$)	
3924.15 *7*	(2$^-$,3$^+$)	
3933.0?[a] *15*		
4020.36 *4*	(2)$^-$	
4058.3?[a] *10*		
4104.47 *4*	(1$^-$,2,3$^-$)	
4110.82 *3*	2	
4149.03 *3*	(2$^-$,3$^+$)	
4165.4?[a] *7*		
4179.99 *4*	(3$^-$)	
4213.03 *6*	(2$^-$,3$^+$)	
4251.59[‡] *14*	(1,2$^-$)	
4253.68 *4*	(1,2)$^-$[&]	Jπ: (1,2)$^-$ (1974Op01).
4280.51 *9*	2$^-$	
4313.94[‡] *11*	2$^-$	
4350.69[‡] *20*	(2$^-$)	
4395.86 *3*	(2)$^-$	Jπ: (≤ 3)$^-$ (1984Vo01).
4419.38 *7*	(2$^-$,3,4$^+$)	
4463.61[‡] *6*	(1$^-$,2,3,4$^-$)	
4473.05 *7*	(2$^-$,3,4$^-$)	
4537.06 *4*	(2$^-$)	
4544.12[‡] *5*	(2$^-$)	
4662.29[‡] *24*	(2$^-$)	
4666.46[‡] *6*	(2$^-$)	
4744.134 *25*	(2$^+$)	
4789.01 *8*	2$^-$	Jπ: 1$^+$ from 2013Fi01.

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^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

^{40}K Levels (continued)

E(level)[†]	Jπ[#]	Comments
4807.76[‡] *11*	(0,1,2,3)$^-$	
4851.22[‡] *12*	(2$^-$,3,4$^+$)	
4872.58 *6*	(2,3)$^-$	
4906.9?[a] *13*		
4960.23[‡] *5*	(2,3$^-$)	
4993.14 *5*	(2$^-$)	Jπ: (1$^-$:4$^+$) (1984Vo01).
5023.92[‡] *14*	(2$^-$,3,4$^-$)	
5063.38 *5*	(2$^-$,3$^+$)	
5111.9[‡] *7*	(2,3)$^-$	
5189.86[‡] *4*	(2$^-$)	
5213.70[‡] *12*	2$^-$	
5246.85[‡] *17*		
5488.76[‡] *5*	(2$^-$,3,4$^-$)	
6098.24[‡] *4*	(1$^-$,2,3,4$^-$)	
6311?[a] *3*		
(7799.553 *14*)	1$^+$,2$^+$	E(level): S(n)=7799.62 *6* (2012Wa38). Jπ: s-wave capture in ^{39}K (g.s. $J^\pi=3/2^+$). From γγ(θ)), an incoherent superposition of 1$^+$ and 2$^+$ is allowed, while from γ(circ pol), superposition is coherent, with either constructive or destructive interference.

[†] From a least-squares fit to γ-ray energies, unless otherwise noted. Doubly or multiply placed γ rays were not used in the least-squares procedure. Uncertainties of some γ rays were increased by a factor 2 or 4 in the fitting procedure in order to get an acceptable fit (reduced $\chi^2<3$).

[‡] Levels proposed by 2013Fi01.

[#] From Adopted Levels, unless otherwise noted.

[@] Based on γ(circ pol) in 1974Op01 and γγ(θ) in 1988Se06.

[&] Based on γ(circ pol) in 1974Op01 and arguments in Adopted Levels.

[a] From 2002Va28 based on two-quantum cascades. These levels are not included in the Adopted Levels due to insufficient information about decay modes and J^π values.

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$

Iγ normalization: normalized assuming Σ(Iγ to g.s.)=100 (1984Vo01). However, observed deexcitation intensity from the capture state is 89% of g.s. feeding.
σ_n=2.1 2 (1981MuZQ), 2.19 3 (2003MoZU). 2013Fi01 measured a total cross section of 2.252 b *16* observed feeding the GS and the 30-keV levels and they also deduce σ=2.28 b *4* or 2.35 b *15* using two different approaches that both combine measured data and simulations based on statistical model accounting for unobserved statistical GS feeding.

The following γ rays reported by 1972Op01 and/or 1970Jo04 have been omitted since they are not confirmed in the high-resolution work of 1984Vo01 and 2013Fi01: 246.9, 380.2, 1582.9, 1674.1, 2102.1, 2294.9, 3120.5, 3447.0, 4299.9, 4452.6, 4769.5, 4908.6, 5495.9 and 5840.9 from 1972Op01; 243.6, 284.6, 291.5, 297.5, 300.3, 368.3, 387.1, 421.6, 432.6, 475.9, 485.3, 608.6, 701.8, 720.7, 734.6, 1008.3, 1139.1, 1410.6, 1468.5, 1583.6, 1646.0, 1659.0, 1675.8, 1747.8, 2105.2, 2136.6, 2304.1, 2620.2, 2860.3, 2978.6, 3473.3, 3767.6, 3794.4, 3829.1, 4122.3, 4239.7, 4638.3, 4770.4, 5133.7, 5341.5, 5366.5, 5461.3, and 5841.8 from 1970Jo04.

$\gamma\gamma$-coin information is from 1970Jo04 as shown by 1984Vo01.

$\gamma\gamma(\theta)$ results (1988Se06)

Level	γ_1	(γ)	γ_2	A_2	A_4	A_2 (if A4=0)	
1644	843		770	-0.04 7	+0.09 10	-0.01 6	
1959	1159		770	-0.072 22	+0.03 3	-0.062 20	
2047	1247		770	-0.09 4	+0.05 6	-0.08 4	
2104	1304		770	+0.18 6	-0.14 8	+0.14 6	
2419	1619		770	-0.09 6	+0.09 8	-0.06 5	
2626	522	(1304)	770	-0.10 15	-0.18 21	-0.16 13	a
2626	522		1304	-0.03 21	+0.5 3	+0.10 19	
2626	522		2074	-0.12 15	-0.03 22	-0.13 14	
2808	2008		770	-0.09 10	+0.18 14	-0.03 9	
3439	1480		1159	+0.05 11	+0.04 16	+0.06 10	
3439	1480	(1159)	770	+0.07 11	-0.05 16	+0.05 10	a
7800	4360		1480	+0.34 16	-0.16 21	+0.30 16	
7800	5173		522	+0.04 13	-0.10 18	+0.01 12	
7800	5380		1619	+0.32 5	+0.01 6	+0.32 5	
7800	5380	(1619)	770	-0.01 3	0.00 5	-0.01 3	a
7800	5509		646	+0.17 7	+0.03 9	+0.18 6	
7800	5695		1304	-0.21 9	+0.14 14	-0.17 8	
7800	5695		2074	+0.09 7	0.00 9	+0.09 6	
7800	5752		1247	-0.13 7	-0.02 10	-0.14 6	
7800	5752	(1247)	770	+0.04 8	-0.11 11	0.00 7	a
7800	5752		2018	-0.1 4	+0.1 3	+0.06 21	
7800	5752		2047	-0.19 14	-0.01 20	-0.20 12	
7800	6999		770	-0.06 5	0.00 8	-0.06 5	

a: triple $\gamma(\gamma)\gamma(\theta)$

γ(circ pol), $\gamma\gamma(\theta)$ Results (1974Op01) For Primary Transitions

γ_1	Intermediate level	R	γ_2	Final level	A_2	F	
3546	4254	+0.49 10					
4360	3439	+0.98 9					
5380	2419	0.00 3	1619	800	+0.19 2	0.96 2	d
5509	2290	+0.70 6					

From ENSDF

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5695	2104	-0.41 4	2074	30	+0.05 2	d	
5695	2104		1304	800	-0.13 2		
5729	2070	-0.46 5	2070	0	+0.07 6	1	
5729	2070		2040	30	-0.20 2		
5729	2070		1178	800			
5752	2047	+0.08 3	2047	0	-0.09 2	0.02 1 d	
5752	2047		2017	30	+0.08 2		
5752	2047		1247	800	-0.21 1		
6999	801	+0.63 6				0.09 4 c,0.91 4	
7769	30	-0.50 3 e				1	

R: γ(circ pol) Coefficient
F: Fraction Of 2^+ Component In ^{40}K Capture State
c: Constructive Interference. d: Destructive Interference
e: -0.48 16 (1970Ei03)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	Comments
29.8299 *5*	86 *7*	29.8299	3^-	0.0	4^-	D(+Q)[d]	≤0.073[d]	I_γ: from total feeding of 30-keV level using α(M1)=0.298. σ_γ=1.938 b *15* (2013Fi01).
106.1[a] *3*	0.0247[a] *17*	2397.206	4^-	2290.531	3^-			σ_γ=0.00058 b *4* (2013Fi01).
185.97 *10*	0.118 *19*	2289.871	1^+	2103.682	1^-			σ_γ=0.00080 b *15* (2013Fi01). E_γ: also placed from 3414 and 3924 levels by 1984Vo01, resolved by 2013Fi01.
249.54[a] *16*	0.012[a] *3*	3663.798	$(1^-,2,3,4^+)$	3414.35	2^+			σ_γ=0.00029 b *7* (2013Fi01).
284.1[&g]		1084.3?		800.1430	2^-			E_γ: 1970Jo04 report an unplaced γ ray at E=284.6 *13*, not observed in 1984Vo01 and 2013Fi01.
311.13 *4*	0.133 *5*	2730.356	1	2419.167	2^-			σ_γ=0.00286 b *23* (2013Fi01).
315.52 *8*	0.062 *8*	2575.946	2^+	2260.48	3^+			σ_γ=0.00176 b *21* (2013Fi01). E_γ: also placed from 2419 and 4789 levels by 1984Vo01, resolved by 2013Fi01.
320.9 *6*	0.009 *5*	3128.463	$(2^-,3^+)$	2807.88	$(1,2)^-$			
327.23 *8*	0.062 *8*	2397.206	4^-	2069.805	3^-			
330.798 *7*	0.33 *3*	2289.871	1^+	1959.072	2^+			σ_γ=0.0069 b *3* (2013Fi01).
335.44[f] *14*	0.040[f] *6*	3821.47	2^-	3486.09	2^-			
335.44[f] *14*	0.040[f] *6*	4872.58	$(2,3)^-$	4537.06	(2^-)			
337.75 *12*	0.036 *6*	2756.674	2^+	2419.167	2^-			
349.33 *4*	0.053 *7*	2419.167	2^-	2069.805	3^-			σ_γ=0.00117 b *20* (2013Fi01).
371.792 *10*	0.172 *18*	3128.463	$(2^-,3^+)$	2756.674	2^+			σ_γ=0.00404 b *25* (2013Fi01). E_γ: also placed from 2419 level by 1984Vo01.
376.53 *3*	0.031 *4*	3486.09	2^-	3109.56	$1^+,2^+$			
383.01 *18*	0.020 *4*	3797.55	1^+	3414.35	2^+			σ_γ=0.00095 b *21* (2013Fi01).
397.28 *17*	0.030 *7*	3153.84	$(2^-,3)$	2756.674	2^+			
440.77 *7*	0.047 *7*	4104.47	$(1^-,2,3^-)$	3663.798	$(1^-,2,3,4^+)$			
[x]444.43 *8*	0.037 *5*							
454.19 *8*	0.038 *5*	3868.67	2^-	3414.35	2^+			σ_γ=0.00069 b *18* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-6

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
460.092 *14*	0.136 *15*	2419.167	2^-	1959.072	2^+	σ_γ=0.00412 b *23* (2013Fi01). E_γ: also placed from 2104 level by 1984Vo01.
496.06 *4*	0.047 *5*	2786.646	3^+	2290.531	3^-	σ_γ=0.00115 b *27* (2013Fi01).
504.5 *5*	0.062 *18*	4104.47	$(1^-,2,3^-)$	3599.223	2^-	
521.7[&g]		521.7?		0.0	4^-	
522.319 *7*	1.53 *16*	2626.003	0^-	2103.682	1^-	σ_γ=0.0391 b *8* (2013Fi01).
528.76[f] *14*	0.017[f] *3*	2575.946	2^+	2047.339	2^-	
528.76[f] *14*	0.017[f] *3*	3557.32	$(1^-$ to $4^+)$	3027.971	$(2^-,3^+)$	
534.3[f] *3*	0.009[f] *3*	3109.56	$1^+,2^+$	2575.946	2^+	
534.3[f] *3*	0.009[f] *3*	3663.798	$(1^-,2,3,4^+)$	3128.463	$(2^-,3^+)$	
534.3[f] *3*	0.009[f] *3*	4020.36	$(2)^-$	3486.09	2^-	
534.3[f] *3*	0.009[f] *3*	4789.01	2^-	4253.68	$(1,2)^-$	
554.741[b@] *23*	0.133 *17*	3663.798	$(1^-,2,3,4^+)$	3109.56	$1^+,2^+$	σ_γ=0.0034 b *3* (2013Fi01).
[x]558.73 *10*	0.044 *7*					
563.86[@] *6*	0.073 *9*	4744.134	(2^+)	4179.99	(3^-)	σ_γ=0.0010 b *3* (2013Fi01).
[x]569.98 *7*	0.062 *8*					σ_γ=0.0027 b *3* (2013Fi01).
602.26 *17*	0.034 *6*	3629.98	$2^-,3^-$	3027.971	$(2^-,3^+)$	
613.384 *24*	0.203 *23*	3599.223	2^-	2985.86	$(2^-,3^+)$	σ_γ=0.0053 b *3* (2013Fi01).
[x]616.43 *6*	0.096 *11*					
620.96[f] *7*	0.070[f] *8*	3367.98	$(2,3)^-$	2746.93	3^-	
620.96[f] *7*	0.070[f] *8*	3768.49	$(2)^-$	3146.42	$1^{(-)}$	
626.1[f] *3*	0.010[f] *3*	2730.356	1	2103.682	1^-	
626.1[f] *3*	0.010[f] *3*	4020.36	$(2)^-$	3393.67	2^-	
627.66 *3*	0.095 *10*	3414.35	2^+	2786.646	3^+	σ_γ=0.00250 b *28* (2013Fi01).
640.4 *6*	0.044 *22*	3868.67	2^-	3228.66	2^-	σ_γ=0.0018 b *3* (2013Fi01). E_γ: also placed from 3768, 4744 and 4789 levels by 1984Vo01, resolved by 2013Fi01.
646.223 *5*	2.10 *12*	2289.871	1^+	1643.641	0^+	σ_γ=0.0508 b *9* (2013Fi01).
657.39 *3*	0.078 *8*	4395.86	$(2)^-$	3738.47	1^+	σ_γ=0.00137 b *23* (2013Fi01).
666.91[b] *5*	0.057 *6*	2626.003	0^-	1959.072	2^+	σ_γ=0.00198 b *24* (2013Fi01).
678.13[f] *20*	0.027[f] *5*	3486.09	2^-	2807.88	$(1,2)^-$	
678.13[f] *20*	0.027[f] *5*	3663.798	$(1^-,2,3,4^+)$	2985.86	$(2^-,3^+)$	
678.13[f] *20*	0.027[f] *5*	4789.01	2^-	4110.82	2	
695.31 *8*	0.042 *6*	2985.86	$(2^-,3^+)$	2290.531	3^-	σ_γ=0.00125 b *23* (2013Fi01). E_γ: also placed from 3924 level by 1984Vo01, resolved by 2013Fi01.
720.5[&g]		1520.7?		800.1430	2^-	E_γ: 1970Jo04 report an unplaced γ ray at E=720.7 *10*, not observed in 1984Vo01 and 2013Fi01.
727.1[f] *3*	0.014[f] *3*	3146.42	$1^{(-)}$	2419.167	2^-	
727.1[f] *3*	0.014[f] *3*	4213.03	$(2^-,3^+)$	3486.09	2^-	
730.48 *15*	0.024 *4*	3840.254	$(1,2^+)$	3109.56	$1^+,2^+$	

From ENSDF

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ †	I_γ ‡ e	E_i(level)	J_i^π	E_f	J_f^π	Mult. #	δ #	Comments
737.45 *3*	0.146 *15*	3027.971	(2$^-$,3$^+$)	2290.531	3$^-$			σ_γ=0.0036 b *3* (2013Fi01).
740.89 *6*	0.26 *3*	4179.99	(3$^-$)	3439.145	(2$^+$)			σ_γ=0.0064 b *3* (2013Fi01).
756.4 &g		1556.6?		800.1430	2$^-$			
756.4 f *6*	0.08 f *4*	3153.84	(2$^-$,3)	2397.206	4$^-$			
756.4 f *6*	0.08 f *4*	3486.09	2$^-$	2730.356	1			
756.4 f *6*	0.08 f *4*	4149.03	(2$^-$,3$^+$)	3393.67	2$^-$			
756.4 f *6*	0.08 f *4*	4419.38	(2$^-$,3,4$^+$)	3663.798	(1$^-$,2,3,4$^+$)			
760.6 *4*	0.12 *4*	2807.88	(1,2)$^-$	2047.339	2$^-$			
770.3053 *18*	43 *4*	800.1430	2$^-$	29.8299	3$^-$	D(+Q) d	+0.04 d +*3*−*6*	σ_γ=1.017 b *14* (2013Fi01).
x783.82 *4*	0.103 *11*							
x791.06 *4*	0.50 *5*							σ_γ=0.0117 b *5* (2013Fi01).
798.8 f *3*	0.062 f *7*	4213.03	(2$^-$,3$^+$)	3414.35	2$^+$			
798.8 f *3*	0.062 f *7*	4537.06	(2$^-$)	3738.47	1$^+$			
800.3 *3*	0.063 *7*	800.1430	2$^-$	0.0	4$^-$			σ_γ=0.0029 b *3* (2013Fi01). E_γ: also placed from 3557 level by 1984Vo01.
811.39 *13*	0.023 *4*	3797.55	1$^+$	2985.86	(2$^-$,3$^+$)			
813.12 *7*	0.046 *6*	4993.14	(2$^-$)	4179.99	(3$^-$)			σ_γ=0.0013 b *3* (2013Fi01). E_γ: also placed from 3439 level by 1984Vo01, resolved by 2013Fi01.
827.552 *15*	0.45 *5*	2786.646	3$^+$	1959.072	2$^+$			σ_γ=0.0109 b *5* (2013Fi01).
838.8 *5*	0.066 *17*	3128.463	(2$^-$,3$^+$)	2289.871	1$^+$			σ_γ=0.00107 b *23* (2013Fi01).
843.478 *16*	1.57 *16*	1643.641	0$^+$	800.1430	2$^-$			σ_γ=0.0222 b *6* (2013Fi01).
848.7 *3*	0.104 *19*	2807.88	(1,2)$^-$	1959.072	2$^+$			σ_γ=0.00218 b *25* (2013Fi01). E_γ: also placed from 3110 level by 1984Vo01.
862.2 f *3*	0.012 f *3*	891.404	5$^-$	29.8299	3$^-$			
862.2 f *3*	0.012 f *3*	4419.38	(2$^-$,3,4$^+$)	3557.32	(1$^-$ to 4$^+$)			
x869.97 *4*	0.143 *15*							σ_γ=0.0036 b *3* (2013Fi01).
891.372 *21*	0.90 *9*	891.404	5$^-$	0.0	4$^-$			σ_γ=0.0213 b *7* (2013Fi01).
903.878 *23*	0.150 *15*	4744.134	(2$^+$)	3840.254	(1,2$^+$)			σ_γ=0.0034 b *3* (2013Fi01).
x915.38 *16*	0.017 *3*							
920.12 f *18*	0.017 f *3*	4149.03	(2$^-$,3$^+$)	3228.66	2$^-$			
920.12 f *18*	0.017 f *3*	4789.01	2$^-$	3868.67	2$^-$			
926.24 b *15*	0.019 *4*	3713.09	(2)$^-$	2786.646	3$^+$			
938.72 *6*	0.098 *11*	3228.66	2$^-$	2289.871	1$^+$			
946.29 @ *8*	0.037 *4*	4744.134	(2$^+$)	3797.55	1$^+$			
951.16 *7*	0.043 *5*	4179.99	(3$^-$)	3228.66	2$^-$			
958.35 *9*	0.026 *3*	3027.971	(2$^-$,3$^+$)	2069.805	3$^-$			σ_γ=0.0009 b *3* (2013Fi01).
x971.74 *19*	0.028 *5*							
976.85 b *6*	0.109 *12*	5189.86	(2$^-$)	4213.03	(2$^-$,3$^+$)			σ_γ=0.0029 b *3* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-8

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ[†]	I_γ[‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
981.03[@] *7*	0.103 *12*	3557.32	(1⁻ to 4⁺)	2575.946	2⁺	σ_γ=0.0025 b *3* (2013Fi01). E_γ: also placed from 3768 level by 1984Vo01.
1001.05[@] *5*	0.081 *9*	4110.82	2	3109.56	1⁺,2⁺	
[x]1018.11 *4*	0.141 *15*					
1023.21 *4*	0.26 *3*	3599.223	2⁻	2575.946	2⁺	σ_γ=0.0051 b *3* (2013Fi01).
1027.09 *24*	0.036 *8*	2985.86	(2⁻,3⁺)	1959.072	2⁺	σ_γ=0.0012 b *3* (2013Fi01).
[x]1031.1 *3*	0.020 *5*					
1034.28[f] *20*	0.038[f] *6*	3821.47	2⁻	2786.646	3⁺	
1034.28[f] *20*	0.038[f] *6*	4020.36	(2)⁻	2985.86	(2⁻,3⁺)	
1034.28[f] *20*	0.038[f] *6*	4473.05	(2⁻,3,4⁻)	3439.145	(2⁺)	
[x]1043.58 *12*	0.023 *3*					
1058.03[b] *4*	0.112 *12*	4544.12	(2⁻)	3486.09	2⁻	σ_γ=0.0024 b *3* (2013Fi01).
1062.20 *8*	0.052 *6*	3109.56	1⁺,2⁺	2047.339	2⁻	σ_γ=0.0019 b *3* (2013Fi01).
1068.87 *3*	0.40 *4*	3027.971	(2⁻,3⁺)	1959.072	2⁺	σ_γ=0.0089 b *5* (2013Fi01). E_γ: also placed from 4993 level by 1984Vo01, resolved by 2013Fi01.
1074.39 *9*	0.144 *17*	3821.47	2⁻	2746.93	3⁻	σ_γ=0.0029 b *3* (2013Fi01).
1077.5[&g]		1877.7?		800.1430	2⁻	
1079.44 *13*	0.100 *13*	4473.05	(2⁻,3,4⁻)	3393.67	2⁻	σ_γ=0.0016 b *3* (2013Fi01).
1082.92 *7*	0.200 *22*	4110.82	2	3027.971	(2⁻,3⁺)	σ_γ=0.0038 b *5* (2013Fi01).
1086.707 *19*	1.11 *11*	2730.356	1	1643.641	0⁺	σ_γ=0.0250 b *8* (2013Fi01).
1090.9 *3*	0.037 *9*	3821.47	2⁻	2730.356	1	
[x]1096.72 *7*	0.101 *11*					
1100.13 *18*	0.042 *6*	4253.68	(1,2)⁻	3153.84	(2⁻,3)	
[x]1110.50 *7*	0.114 *12*					
1113.3 *3*	0.029 *5*	2756.674	2⁺	1643.641	0⁺	σ_γ=0.0013 b *3* (2013Fi01).
1118.38 *13*	0.054 *7*	4104.47	(1⁻,2,3⁻)	2985.86	(2⁻,3⁺)	σ_γ=0.0009 b *3* (2013Fi01).
1121.77 *7*	0.111 *12*	3868.67	2⁻	2746.93	3⁻	σ_γ=0.0021 b *3* (2013Fi01).
1124.91 *6*	0.120 *13*	4110.82	2	2985.86	(2⁻,3⁺)	σ_γ=0.0019 b *3* (2013Fi01). E_γ: also placed from 3229, 4252 and 4789 levels by 1984Vo01, resolved by 2013Fi01.
1131.17 *5*	0.103 *11*	3887.83	(1⁻,2⁻)	2756.674	2⁺	σ_γ=0.0014 b *3* (2013Fi01).
1143.5[&g]		1173.4?		29.8299	3⁻	
1144.7 *5*	0.08 *3*	4744.134	(2⁺)	3599.223	2⁻	σ_γ=0.0016 b *3* (2013Fi01).
1150.58 *18*	0.23 *4*	3109.56	1⁺,2⁺	1959.072	2⁺	σ_γ=0.0042 b *5* (2013Fi01).
1158.901 *20*	7.8 *8*	1959.072	2⁺	800.1430	2⁻	σ_γ=0.180 b *3* (2013Fi01).
1162.59 *24*	0.31 *5*	4149.03	(2⁻,3⁺)	2985.86	(2⁻,3⁺)	σ_γ=0.0061 b *5* (2013Fi01). E_γ: also placed from 3738 level by 1984Vo01, resolved by 2013Fi01.
[x]1172.20 *11*	0.042 *5*					
1178.38 *4*	0.36 *4*	2069.805	3⁻	891.404	5⁻	σ_γ=0.0078 b *9* (2013Fi01).
1187.45 *8*	0.062 *7*	3146.42	1(⁻)	1959.072	2⁺	σ_γ=0.0025 b *3* (2013Fi01).
1195.81[@] *7*	0.055 *6*	3486.09	2⁻	2290.531	3⁻	σ_γ=0.0014 b *3* (2013Fi01).
1198.3[&g]		1228.2?		29.8299	3⁻	

From ENSDF

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ[†]	I_γ[‡e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	Comments
1201.86[b] 5	0.106 11	3599.223	2⁻	2397.206	4⁻			σγ=0.0025 b 3 (2013Fi01).
1204.36[b] 10	0.046 6	4313.94	2⁻	3109.56	1⁺,2⁺			
1213.53[b@] 8	0.047 5	4020.36	(2)⁻	2807.88	(1,2)⁻			σγ=0.0011 b 3 (2013Fi01).
[x]1219.47 11	0.041 5							
1221.71 7	0.067 7	3797.55	1⁺	2575.946	2⁺			σγ=0.0017 b 3 (2013Fi01).
[x]1226.31 5	0.071 8							σγ=0.0016 b 3 (2013Fi01).
1232.74 3	0.134 14	3629.98	2⁻,3⁻	2397.206	4⁻			σγ=0.0034 b 3 (2013Fi01).
1247.173 24	3.8 4	2047.339	2⁻	800.1430	2⁻	M1+E2	+0.10 4	σγ=0.0883 b 15 (2013Fi01). Additional information 1.
1248.4[&g]		1248.4?		0.0	4⁻			
1255.29[b] 9	0.107 12	5023.92	(2⁻,3,4⁻)	3768.49	(2)⁻			σγ=0.0024 b 3 (2013Fi01).
1262.1[a] 3	0.068[a] 13	3887.83	(1⁻,2⁻)	2626.003	0⁻			Eγ: 1261.1 9 (1970Jo04), placed from 3367 level by 1970Jo04. σγ=0.0016 b 3 (2013Fi01).
1265.54 9	0.199 23	4419.38	(2⁻,3,4⁺)	3153.84	(2⁻,3)			
1267.5[f] 3	0.105[f] 21	3557.32	(1⁻ to 4⁺)	2289.871	1⁺			
1267.5[f] 3	0.105[f] 21	4253.68	(1,2)⁻	2985.86	(2⁻,3⁺)			
1267.5[f] 3	0.105[f] 21	4395.86	(2)⁻	3128.463	(2⁻,3⁺)			
1269.56 5	0.47 5	2069.805	3⁻	800.1430	2⁻			σγ=0.0081 b 5 (2013Fi01).
[x]1283.3 3	0.051 16							σγ=0.0009 b 3 (2013Fi01).
1303.53 7	2.7 3	2103.682	1⁻	800.1430	2⁻	D+Q[d]	+0.13[d] 8	σγ=0.0619 b 14 (2013Fi01).
1308.9 4	0.043 17	3599.223	2⁻	2289.871	1⁺			σγ=0.0018 b 3 (2013Fi01). Eγ: also placed from 3599 to 2290.5 (J^π=3⁻), 4419 and 4537 levels by 1984Vo01, resolved by 2013Fi01.
1320.9 4	0.30 3	3367.98	(2,3)⁻	2047.339	2⁻			σγ=0.0074 b 6 (2013Fi01).
1330.5[&g]		1330.5?		0.0	4⁻			
[x]1331.58 4	0.152 16							σγ=0.0028 b 5 (2013Fi01).
1335.48 18	0.033 6	3439.145	(2⁺)	2103.682	1⁻			
1348.06 14	0.035 4	3924.15	(2⁻,3⁺)	2575.946	2⁺			σγ=0.0008 b 5 (2013Fi01). Eγ: also placed from 3768 and 4104 levels by 1984Vo01, resolved by 2013Fi01.
1354.12 3	0.161 7	4110.82	2	2756.674	2⁺			σγ=0.0039 b 5 (2013Fi01).
1365.06[b] 24	0.066 12	4350.69	(2⁻)	2985.86	(2⁻,3⁺)			σγ=0.0016 b 3 (2013Fi01).
1373.227 21	1.29 13	3663.798	(1⁻,2,3,4⁺)	2290.531	3⁻			σγ=0.0283 b 8 (2013Fi01).
[x]1377.16 11	0.122 16							
1393.16[c@] 8	0.126 14	5189.86	(2⁻)	3797.55	1⁺			σγ=0.0021 b 5 (2013Fi01). Eγ: placed by 1984Vo01 from 4180 level.
1399.03 4	0.53 5	2290.531	3⁻	891.404	5⁻			σγ=0.0117 b 6 (2013Fi01).
1402.73[b] 9	0.125 14	4960.23	(2,3⁻)	3557.32	(1⁻ to 4⁺)			σγ=0.0033 b 7 (2013Fi01).
1409.2[&g]		1409.2?		0.0	4⁻			Eγ: 1970Jo04 report an γ ray at E=1410.6 9, placed from 4538 level, not observed in 1984Vo01 and 2013Fi01.
[x]1416.67 9	0.048 6							

From ENSDF

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ[†]	I_γ[‡e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	Comments
[x]1419.01 *3*	0.233 *24*							σ_γ=0.0034 b *5* (2013Fi01).
1424.229 *23*	0.36 *4*	3821.47	2^-	2397.206	4^-			σ_γ=0.0078 b *6* (2013Fi01).
1427.45 *18*	0.022 *3*	4537.06	(2^-)	3109.56	$1^+,2^+$			
1434.50 *6*	0.140 *15*	3393.67	2^-	1959.072	2^+			σ_γ=0.0024 b *5* (2013Fi01).
1438.72 *4*	0.218 *23*	3486.09	2^-	2047.339	2^-			σ_γ=0.0055 b *5* (2013Fi01).
[x]1449.98 *6*	0.047 *5*							
1452.39[b] *12*	0.0200 *20*	3713.09	$(2)^-$	2260.48	3^+			
[x]1454.90 *10*	0.025 *3*							
[x]1460.81 *10*	0.049 *6*							σ_γ=0.0025 b *5* (2013Fi01).
1466.11[@] *3*	0.26 *3*	3109.56	$1^+,2^+$	1643.641	0^+			σ_γ=0.0053 b *5* (2013Fi01).
[x]1473.66 *16*	0.036 *5*							
1478.01 *6*	0.32 *3*	3738.47	1^+	2260.48	3^+			σ_γ=0.0041 b *9* (2013Fi01).
1480.09 *4*	1.54 *16*	3439.145	(2^+)	1959.072	2^+	D(+Q)[d]	+0.22[d] *22*	δ: from δ=0.00 *45* in 1988Se06. σ_γ=0.0398 b *10* (2013Fi01).
[x]1483.86 *8*	0.077 *9*							σ_γ=0.0011 b *5* (2013Fi01).
1487.42[f] *9*	0.097[f] *12*	3557.32	$(1^-$ to $4^+)$	2069.805	3^-			
1487.42[f] *9*	0.097[f] *12*	4473.05	$(2^-,3,4^-)$	2985.86	$(2^-,3^+)$			
1489.77 *5*	1.21 *12*	2289.871	1^+	800.1430	2^-			σ_γ=0.0312 b *9* (2013Fi01).
1496.0[a] *3*	0.051[a] *21*	3599.223	2^-	2103.682	1^-			σ_γ=0.0012 b *5* (2013Fi01).
1503.00 *10*	0.41 *4*	3146.42	$1^{(-)}$	1643.641	0^+			σ_γ=0.0096 b *6* (2013Fi01).
1509.9[f] *3*	0.022[f] *4*	3153.84	$(2^-,3)$	1643.641	0^+			
1509.9[f] *3*	0.022[f] *4*	3557.32	$(1^-$ to $4^+)$	2047.339	2^-			
[x]1517.10 *9*	0.122 *14*							σ_γ=0.0020 b *3* (2013Fi01).
[x]1521.02 *21*	0.059 *9*							
1530.7 *3*	0.058 *14*	3821.47	2^-	2290.531	3^-			
1536.84[b@] *5*	0.26 *3*	3797.55	1^+	2260.48	3^+			σ_γ=0.0039 b *5* (2013Fi01).
1551.77 *9*	0.102 *12*	3599.223	2^-	2047.339	2^-			σ_γ=0.0034 b *5* (2013Fi01).
1560.44 *19*	0.175 *21*	3629.98	$2^-,3^-$	2069.805	3^-			σ_γ=0.0030 b *7* (2013Fi01).
[x]1562.78 *7*	0.31 *3*							
1566.21[b@] *7*	0.155 *17*	4960.23	$(2,3^-)$	3393.67	2^-			σ_γ=0.0029 b *6* (2013Fi01).
1578.97 *12*	0.035 *4*	3868.67	2^-	2289.871	1^+			
1597.88[c] *4*	0.29 *3*	3887.83	$(1^-,2^-)$	2289.871	1^+			σ_γ=0.0063 b *3* (2013Fi01). E_γ: placed by 1984Vo01 from 3557 level.
1613.84 *4*	5.7 *6*	1643.641	0^+	29.8299	3^-	[E3]		σ_γ=0.1345 b *23* (2013Fi01).
1619.00 *4*	6.2 *6*	2419.167	2^-	800.1430	2^-	D+Q[d]	+0.24[d] *6*	δ: other: +0.06 *6* or +1.9 *3* (1974Op01). σ_γ=0.1461 b *24* (2013Fi01).
1625.67[b] *14*	0.32 *4*	4251.59	$(1,2^-)$	2626.003	0^-			σ_γ=0.0077 b *5* (2013Fi01).
1634.26[a] *8*	0.277[a] *22*	3924.15	$(2^-,3^+)$	2289.871	1^+			E_γ: 1635.1 *9* (1970Jo04), placed from 3738 level by 1970Jo04. σ_γ=0.0065 b *5* (2013Fi01).
1665.43 *4*	0.143 *15*	4395.86	$(2)^-$	2730.356	1			σ_γ=0.0032 b *5* (2013Fi01).
[x]1667.69 *5*	0.102 *11*							σ_γ=0.0024 b *5* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-11

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
1680.8[b] 4	0.010 3	4666.46	(2⁻)	2985.86	(2⁻,3⁺)	
1691.26 6	0.111 12	3738.47	1⁺	2047.339	2⁻	σ_γ=0.0017 b 5 (2013Fi01).
1695.44 8	0.100 11	5063.38	(2⁻,3⁺)	3367.98	(2,3)⁻	
1702.35[b] 3	0.33 3	6098.24	(1⁻,2,3,4⁻)	4395.86	(2)⁻	σ_γ=0.0054 b 5 (2013Fi01).
1704.70 20	0.31 16	4280.51	2⁻	2575.946	2⁺	σ_γ=0.0075 b 8 (2013Fi01).
1704.73 9	0.94 12	3663.798	(1⁻,2,3,4⁺)	1959.072	2⁺	σ_γ=0.0200 b 8 (2013Fi01).
[x]1710.19 24	0.023 4					
1718.68 4	0.166 7	4872.58	(2,3)⁻	3153.84	(2⁻,3)	σ_γ=0.0024 b 5 (2013Fi01).
1725.68[f] 17	0.033[f] 5	4473.05	(2⁻,3,4⁻)	2746.93	3⁻	
1725.68[f] 17	0.033[f] 5	4872.58	(2,3)⁻	3146.42	1(⁻)	
1751.76 5	0.225 23	4149.03	(2⁻,3⁺)	2397.206	4⁻	σ_γ=0.0045 b 5 (2013Fi01).
1754.72[b@] 17	0.036 5	3713.09	(2)⁻	1959.072	2⁺	
1761.10[f] 7	0.030[f] 4	4179.99	(3⁻)	2419.167	2⁻	
1761.10[f] 17	0.030[f] 4	4789.01	2⁻	3027.971	(2⁻,3⁺)	
1765.24 15	0.224 23	3868.67	2⁻	2103.682	1⁻	σ_γ=0.0054 b 5 (2013Fi01).
1771.4[f] 5	0.031[f] 9	3414.35	2⁺	1643.641	0⁺	
1771.4[f] 5	0.031[f] 9	3840.254	(1,2⁺)	2069.805	3⁻	
1779.14[a] 8	0.328[a] 22	3738.47	1⁺	1959.072	2⁺	σ_γ=0.0077 b 5 (2013Fi01).
1795.45 4	1.34 14	3439.145	(2⁺)	1643.641	0⁺	σ_γ=0.0329 b 9 (2013Fi01).
[x]1811.2 3	0.032 6					
1813.94 14	0.072 9	4104.47	(1⁻,2,3⁻)	2290.531	3⁻	Additional information 2.
1817.9[&g]		2618.1?		800.1430	2⁻	
1820.35[c@] 5	0.27 3	4395.86	(2)⁻	2575.946	2⁺	σ_γ=0.0057 b 6 (2013Fi01). E_γ: placed from 3924 and 4111 levels by 1984Vo01.
1825.77 5	0.65 7	2626.003	0⁻	800.1430	2⁻	σ_γ=0.0166 b 8 (2013Fi01).
1832.01[b@] 5	0.117 12	4960.23	(2,3⁻)	3128.463	(2⁻,3⁺)	σ_γ=0.0032 b 6 (2013Fi01).
1838.61 8	0.44 4	3797.55	1⁺	1959.072	2⁺	σ_γ=0.0106 b 7 (2013Fi01).
1843.33 9	0.065 7	4419.38	(2⁻,3,4⁺)	2575.946	2⁺	
1846.72 6	0.105 11	4993.14	(2⁻)	3146.42	1(⁻)	σ_γ=0.0026 b 6 (2013Fi01). E_γ: also placed from 4473 level by 1984Vo01, resolved by 2013Fi01.
[x]1854.99 5	0.202 21					σ_γ=0.0034 b 5 (2013Fi01).
1858.51 5	0.54 5	4149.03	(2⁻,3⁺)	2290.531	3⁻	σ_γ=0.0122 b 6 (2013Fi01).
1881.20 5	0.50 5	3840.254	(1,2⁺)	1959.072	2⁺	σ_γ=0.0104 b 6 (2013Fi01).
1888.43 8	0.098 11	4149.03	(2⁻,3⁺)	2260.48	3⁺	σ_γ=0.0017 b 6 (2013Fi01).
[x]1892.0 3	0.037 5					
[x]1901.6 4	0.029 5					
[x]1910.70 6	0.171 18					σ_γ=0.0037 b 5 (2013Fi01).
1916.51 6	0.26 3	4020.36	(2)⁻	2103.682	1⁻	σ_γ=0.0043 b 5 (2013Fi01).
1919.28[a] 20	0.149[a] 22	4179.99	(3⁻)	2260.48	3⁺	σ_γ=0.0035 b 5 (2013Fi01).
1929.34 10	1.8 3	1959.072	2⁺	29.8299	3⁻	σ_γ=0.0447 b 10 (2013Fi01).

From ENSDF

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

γ(^{40}K) (continued)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	Comments
1930.2 *3*	0.5 *3*	2730.356	1	800.1430	2^-			
1931.23[a] *20*	0.32[a] *3*	5488.76	$(2^-,3,4^-)$	3557.32	$(1^-$ to $4^+)$			σ_γ=0.0075 b *6* (2013Fi01).
1935.7 *3*	0.125 *22*	4744.134	(2^+)	2807.88	$(1,2)^-$			
1946.43 *17*	0.040 *6*	2746.93	3^-	800.1430	2^-			
1953.74 *6*	0.31 *3*	5063.38	$(2^-,3^+)$	3109.56	$1^+,2^+$			σ_γ=0.0051 b *6* (2013Fi01).
1956.58 *5*	1.84 *18*	2756.674	2^+	800.1430	2^-			σ_γ=0.0457 b *12* (2013Fi01).
1961.11 *6*	0.154 *16*	4537.06	(2^-)	2575.946	2^+			σ_γ=0.0037 b *6* (2013Fi01).
1964.27[@] *23*	0.037 *6*	3924.15	$(2^-,3^+)$	1959.072	2^+			
1973.00 *4*	0.32 *3*	4020.36	$(2)^-$	2047.339	2^-			σ_γ=0.0070 b *6* (2013Fi01).
[x]1994.08 *15*	0.188 *24*							σ_γ=0.0035 b *6* (2013Fi01).
2001.24 *20*	0.137 *20*	4104.47	$(1^-,2,3^-)$	2103.682	1^-			σ_γ=0.0020 b *5* (2013Fi01).
2007.71 *4*	2.5 *3*	2807.88	$(1,2)^-$	800.1430	2^-			σ_γ=0.0578 b *14* (2013Fi01).
2013.90 *20*	0.17 *3*	4744.134	(2^+)	2730.356	1			
[x]2014.24 *11*	0.201 *23*							
2017.53 *4*	2.7 *3*	2047.339	2^-	29.8299	3^-	M1+E2	+0.07 *4*	δ: or −9 *2* (1974Op01). Other: +0.25 *21* or ≤−8 (1988Se06). σ_γ=0.0608 b *14* (2013Fi01).
2022.32 *17*	0.165 *23*	4419.38	$(2^-,3,4^+)$	2397.206	4^-			σ_γ=0.0043 b *6* (2013Fi01).
2031.6 *3*	0.26 *4*	4789.01	2^-	2756.674	2^+			
2039.94 *4*	2.7 *3*	2069.805	3^-	29.8299	3^-	M1(+E2)	+0.2 *2*	σ_γ=0.0585 b *15* (2013Fi01).
2047.28 *4*	2.7 *3*	2047.339	2^-	0.0	4^-	E2		σ_γ=0.0605 b *15* (2013Fi01).
2057.07 *5*	0.141 *16*	4104.47	$(1^-,2,3^-)$	2047.339	2^-			σ_γ=0.0025 b *5* (2013Fi01).
[x]2067.53 *11*	0.28 *3*							
2070.08 *15*	2.01 *20*	2069.805	3^-	0.0	4^-	M1(+E2)	+0.01 *10*	σ_γ=0.0409 b *11* (2013Fi01).
2073.74 *10*	6.5 *7*	2103.682	1^-	29.8299	3^-			σ_γ=0.155 b *3* (2013Fi01).
2076.1[&g]		2076.1?		0.0	4^-			
2077.41[a] *13*	0.33[a] *3*	4807.76	$(0,1,2,3)^-$	2730.356	1			σ_γ=0.0078 b *6* (2013Fi01).
2094.61 *10*	0.048 *5*	3738.47	1^+	1643.641	0^+			
2109.9[a] *3*	0.064[a] *21*	4179.99	(3^-)	2069.805	3^-			σ_γ=0.0015 b *5* (2013Fi01).
2115.77 *14*	0.031 *4*	4872.58	$(2,3)^-$	2756.674	2^+			
[x]2122.02 *5*	0.121 *13*							σ_γ=0.0018 b *5* (2013Fi01).
2124.9[&g]		2925.1?		800.1430	2^-			
[x]2131.66 *17*	0.036 *5*							
2139.0[&g]		2939.2?		800.1430	2^-			
2143.37 *11*	0.139 *16*	4213.03	$(2^-,3^+)$	2069.805	3^-			σ_γ=0.0025 b *5* (2013Fi01).
2149.93 *5*	0.43 *4*	4253.68	$(1,2)^-$	2103.682	1^-			σ_γ=0.0083 b *6* (2013Fi01).
2153.81 *4*	0.79 *8*	3797.55	1^+	1643.641	0^+			σ_γ=0.0178 b *8* (2013Fi01).
2162.16[@] *17*	0.041 *5*	4789.01	2^-	2626.003	0^-			
2168.16 *4*	0.179 *19*	4744.134	(2^+)	2575.946	2^+			σ_γ=0.0043 b *5* (2013Fi01).
2173.67[b] *8*	0.094 *10*	4960.23	$(2,3^-)$	2786.646	3^+			σ_γ=0.0032 b *5* (2013Fi01).
2183.70 *20*	0.47 *24*	4253.68	$(1,2)^-$	2069.805	3^-			σ_γ=0.0223 b *8* (2013Fi01).
2185.70 *20*	0.47 *24*	2985.86	$(2^-,3^+)$	800.1430	2^-			
2196.61 *5*	0.34 *4*	3840.254	$(1,2^+)$	1643.641	0^+			σ_γ=0.0086 b *6* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-13

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
2199.8[&g]		3000.0?		800.1430	2^-	
2204.08[b@] *10*	0.34 *4*	4960.23	$(2,3^-)$	2756.674	2^+	σ_γ=0.0062 b *7* (2013Fi01).
2206.35 *10*	0.75 *8*	4253.68	$(1,2)^-$	2047.339	2^-	σ_γ=0.0187 b *14* (2013Fi01).
						E_γ: also placed from 4993 level by 1984Vo01, resolved by 2013Fi01.
2221.27[@] *11*	0.183 *24*	4179.99	(3^-)	1959.072	2^+	
2230.54 *5*	0.81 *8*	2260.48	3^+	29.8299	3^-	σ_γ=0.0228 b *11* (2013Fi01).
2233.0 *4*	0.16 *16*	4280.51	2^-	2047.339	2^-	
2241.2[&g]		2271.1?		29.8299	3^-	
2246.3[a] *3*	0.14[a] *3*	4350.69	(2^-)	2103.682	1^-	σ_γ=0.0034 b *6* (2013Fi01).
2260.11[@] *10*	0.31 *3*	2260.48	3^+	0.0	4^-	σ_γ=0.0078 b *6* (2013Fi01).
2263.4[&g]		3063.5?		800.1430	2^-	
[x]2271.19 *12*	0.085 *10*					σ_γ=0.0017 b *3* (2013Fi01).
2290.58 *7*	2.8 *3*	2290.531	3^-	0.0	4^-	σ_γ=0.0655 b *15* (2013Fi01).
2310.70[b] *5*	0.51 *5*	(7799.553)	$1^+,2^+$	5488.76	$(2^-,3,4^-)$	σ_γ=0.0102 b *7* (2013Fi01).
[x]2322.75 *13*	0.127 *14*					σ_γ=0.0021 b *5* (2013Fi01).
[x]2330.16 *10*	0.28 *3*					σ_γ=0.0051 b *6* (2013Fi01).
2346.05 *10*	0.69 *7*	3146.42	$1^{(-)}$	800.1430	2^-	σ_γ=0.0155 b *8* (2013Fi01).
2348.72 *9*	0.24 *3*	4395.86	$(2)^-$	2047.339	2^-	σ_γ=0.0054 b *6* (2013Fi01).
2359.8[a] *8*	0.034[a] *21*	5488.76	$(2^-,3,4^-)$	3128.463	$(2^-,3^+)$	σ_γ=0.0008 b *5* (2013Fi01).
2367.17 *5*	0.58 *6*	2397.206	4^-	29.8299	3^-	σ_γ=0.0177 b *8* (2013Fi01).
[x]2373.74 *5*	0.102 *11*					σ_γ=0.0074 b *6* (2013Fi01).
2375.85[b] *5*	0.113 *12*	4666.46	(2^-)	2290.531	3^-	
[x]2384.99 *11*	0.141 *15*					σ_γ=0.0042 b *5* (2013Fi01).
2389.18 *5*	1.34 *13*	2419.167	2^-	29.8299	3^-	σ_γ=0.0339 b *11* (2013Fi01).
2393.84[b] *12*	0.108 *12*	4463.61	$(1^-,2,3,4^-)$	2069.805	3^-	σ_γ=0.0026 b *6* (2013Fi01).
2397.12 *6*	0.224 *23*	2397.206	4^-	0.0	4^-	σ_γ=0.0061 b *6* (2013Fi01).
2403.04[c] *9*	0.119 *13*	5189.86	(2^-)	2786.646	3^+	σ_γ=0.0038 b *6* (2013Fi01).
						E_γ: placed by 1984Vo01 from 4473 level.
2416.06[b] *11*	0.194 *23*	4463.61	$(1^-,2,3,4^-)$	2047.339	2^-	
2418.69 *15*	0.63 *6*	2419.167	2^-	0.0	4^-	σ_γ=0.0158 b *8* (2013Fi01).
2422.1[&g]		2422.1?		0.0	4^-	
[x]2424.66 *5*	0.54 *6*					σ_γ=0.0123 b *8* (2013Fi01).
2428.28 *9*	0.25 *3*	3228.66	2^-	800.1430	2^-	
[x]2448.11 *17*	0.045 *6*					
[x]2450.5 *3*	0.031 *5*					
2454.7 *3*	0.025 *4*	4744.134	(2^+)	2289.871	1^+	
2459.48[b] *5*	0.191 *20*	5189.86	(2^-)	2730.356	1	σ_γ=0.0041 b *5* (2013Fi01).
2467.31 *10*	0.067 *7*	4110.82	2	1643.641	0^+	σ_γ=0.0011 b *5* (2013Fi01).
						E_γ: also placed from 4537 level by 1984Vo01, resolved by 2013Fi01.
[x]2471.5 *3*	0.025 *4*					
2483.8 *3*	0.029 *8*	4744.134	(2^+)	2260.48	3^+	

From ENSDF

$^{40}_{19}K_{21}$-14

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
2505.0[&g]		3305.2?		800.1430	2^-	
[x]2518.8 *3*	0.045 *7*					
2526.5[&g]		3326.6?		800.1430	2^-	
2528.44 *11*	0.139 *15*	4789.01	2^-	2260.48	3^+	
2539.87[b@] *7*	0.27 *3*	6098.24	$(1^-,2,3,4^-)$	3557.32	(1^- to 4^+)	σ_γ=0.0041 b *5* (2013Fi01).
[x]2542.92 *6*	0.77 *8*					σ_γ=0.0099 b *6* (2013Fi01).
2545.85 *10*	2.8 *3*	2575.946	2^+	29.8299	3^-	σ_γ=0.0604 b *14* (2013Fi01).
2552.64[b] *17*	0.020 *3*	(7799.553)	$1^+,2^+$	5246.85		
[x]2557.03 *13*	0.027 *4*					
[x]2564.89 *19*	0.055 *7*					
2568.8[f] *4*	0.033[f] *6*	3367.98	$(2,3)^-$	800.1430	2^-	
2568.8[f] *4*	0.033[f] *6*	4213.03	$(2^-,3^+)$	1643.641	0^+	
[x]2572.08 *11*	0.113 *13*					
2573.2[&g]		3373.4?		800.1430	2^-	
2577.63 *10*	0.32 *3*	4537.06	(2^-)	1959.072	2^+	σ_γ=0.0059 b *6* (2013Fi01).
2586.06[b] *14*	0.094 *11*	(7799.553)	$1^+,2^+$	5213.70	2^-	
[x]2589.23 *11*	0.146 *16*					
2593.32 *10*	0.50 *5*	3393.67	2^-	800.1430	2^-	σ_γ=0.0109 b *6* (2013Fi01).
[x]2604.0 *4*	0.12 *3*					σ_γ=0.0021 b *3* (2013Fi01).
2609.98[c@] *9*	1.40 *9*	(7799.553)	$1^+,2^+$	5189.86	(2^-)	σ_γ=0.0240 b *8* (2013Fi01). E_γ: placed by 1984Vo01 from 4254 level.
2614.21 *9*	1.16 *7*	3414.35	2^+	800.1430	2^-	σ_γ=0.0186 b *7* (2013Fi01).
2627.7[b@] *3*	0.18 *3*	5023.92	$(2^-,3,4^-)$	2397.206	4^-	σ_γ=0.0012 b *3* (2013Fi01).
2638.93 *11*	1.04 *7*	3439.145	(2^+)	800.1430	2^-	σ_γ=0.0162 b *7* (2013Fi01).
2644.0 *3*	0.26 *4*	5063.38	$(2^-,3^+)$	2419.167	2^-	σ_γ=0.0032 b *5* (2013Fi01).
[x]2659.7 *4*	0.098 *20*					
2668.8[b] *4*	0.107 *20*	4960.23	$(2,3^-)$	2290.531	3^-	σ_γ=0.0019 b *5* (2013Fi01).
2680.4[b] *5*	0.073 *19*	5488.76	$(2^-,3,4^-)$	2807.88	$(1,2)^-$	σ_γ=0.0024 b *6* (2013Fi01).
2685.6 *3*	0.24 *5*	3486.09	2^-	800.1430	2^-	σ_γ=0.0045 b *8* (2013Fi01). E_γ: also placed from 4789 level by 1984Vo01, resolved by 2013Fi01.
2688.1[bg] *4*	0.19 *5*	5111.9	$(2,3)^-$	2423.7?		E_γ: placed by 2013Fi01 to a level at 2324. But this level was neither observed in other work nor listed in Table 3 of populated levels in 2013Fi01. The evaluator have considered this placement as questionable. σ_γ=0.0021 b *7* (2013Fi01).
[x]2697.6 *3*	0.144 *22*					
2702.60 *16*	0.28 *3*	4993.14	(2^-)	2290.531	3^-	σ_γ=0.0041 b *7* (2013Fi01).
2716.95 *11*	0.50 *4*	2746.93	3^-	29.8299	3^-	σ_γ=0.0088 b *7* (2013Fi01).
2726.62 *7*	1.58 *9*	2756.674	2^+	29.8299	3^-	σ_γ=0.0253 b *10* (2013Fi01).
2728.2[&g]		3528.4?		800.1430	2^-	
2736.09 *9*	0.83 *5*	(7799.553)	$1^+,2^+$	5063.38	$(2^-,3^+)$	σ_γ=0.0130 b *8* (2013Fi01).
2747.00 *18*	0.26 *3*	2746.93	3^-	0.0	4^-	σ_γ=0.0034 b *6* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-15

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ †	I_γ ‡e	E_i(level)	J_i^π	E_f	J_f^π	Comments
2755.2&g		3557.32	(1$^-$ to 4$^+$)	800.1430	2$^-$	
2756.81 *7*	1.93 *10*	2786.646	3$^+$	29.8299	3$^-$	σ_γ=0.0307 b *11* (2013Fi01).
2775.21b *17*	0.27 *3*	(7799.553)	1$^+$,2$^+$	5023.92	(2$^-$,3,4$^-$)	σ_γ=0.0038 b *6* (2013Fi01).
2778.1&g		3578.3?		800.1430	2$^-$	
2784.4 *4*	0.21 *5*	4744.134	(2$^+$)	1959.072	2$^+$	σ_γ=0.0044 b *6* (2013Fi01).
2787.0 *6*	0.14 *5*	2786.646	3$^+$	0.0	4$^-$	
2799.30 *18*	0.95 *10*	3599.223	2$^-$	800.1430	2$^-$	σ_γ=0.0163 b *8* (2013Fi01).
2806.53 *12*	1.76 *13*	(7799.553)	1$^+$,2$^+$	4993.14	(2$^-$)	σ_γ=0.0288 b *10* (2013Fi01).
2839.71b@ *7*	1.87 *10*	(7799.553)	1$^+$,2$^+$	4960.23	(2,3$^-$)	σ_γ=0.0322 b *10* (2013Fi01).
2855.4&g		3655.6?		800.1430	2$^-$	
2857.15b@ *15*	0.29 *3*	4960.23	(2,3$^-$)	2103.682	1$^-$	σ_γ=0.0063 b *6* (2013Fi01).
2892.19b *15*	0.36 *3*	4851.22	(2$^-$,3,4$^+$)	1959.072	2$^+$	σ_γ=0.0071 b *6* (2013Fi01).
x2897.9 *7*	0.061 *20*					
2909.3&g		3709.5?		800.1430	2$^-$	
2912.6c *3*	0.145 *21*	4960.23	(2,3$^-$)	2047.339	2$^-$	σ_γ=0.0037 b *6* (2013Fi01). E_γ: placed by 1984Vo01 from 4873 level.
2916.3&g		2946.2?		29.8299	3$^-$	
x2917.81 *9*	0.89 *5*					σ_γ=0.0148 b *8* (2013Fi01).
2919.4&g		3719.6?		800.1430	2$^-$	
2922.91 *20*	0.33 *3*	4993.14	(2$^-$)	2069.805	3$^-$	σ_γ=0.0068 b *7* (2013Fi01).
2925.1&g		2925.1?		0.0	4$^-$	
2926.85 *10*	0.73 *5*	(7799.553)	1$^+$,2$^+$	4872.58	(2,3)$^-$	σ_γ=0.0116 b *8* (2013Fi01).
2938.32 *9*	0.67 *4*	3738.47	1$^+$	800.1430	2$^-$	σ_γ=0.0109 b *7* (2013Fi01).
2949.23b@ *15*	0.63 *4*	(7799.553)	1$^+$,2$^+$	4851.22	(2$^-$,3,4$^+$)	σ_γ=0.0099 b *7* (2013Fi01).
2955.94 *16*	0.41 *3*	2985.86	(2$^-$,3$^+$)	29.8299	3$^-$	σ_γ=0.0056 b *6* (2013Fi01).
2967.8 *3*	0.163 *19*	3768.49	(2)$^-$	800.1430	2$^-$	σ_γ=0.0027 b *5* (2013Fi01).
2992.60b@ *14*	0.50 *3*	(7799.553)	1$^+$,2$^+$	4807.76	(0,1,2,3)$^-$	σ_γ=0.0073 b *8* (2013Fi01).
x3000.4 *3*	0.133 *17*					
3007.6&g		3807.8?		800.1430	2$^-$	
3010.55 *14*	0.50 *3*	(7799.553)	1$^+$,2$^+$	4789.01	2$^-$	σ_γ=0.0079 b *8* (2013Fi01).
3027.7 *3*	0.139 *18*	3027.971	(2$^-$,3$^+$)	0.0	4$^-$	σ_γ=0.0027 b *6* (2013Fi01).
3034.43b *17*	0.293 *24*	4993.14	(2$^-$)	1959.072	2$^+$	σ_γ=0.0077 b *6* (2013Fi01).
3040.24 *13*	0.62 *4*	3840.254	(1,2$^+$)	800.1430	2$^-$	σ_γ=0.0101 b *7* (2013Fi01).
3055.58 *12*	2.86 *17*	(7799.553)	1$^+$,2$^+$	4744.134	(2$^+$)	σ_γ=0.0523 b *14* (2013Fi01).
3056.2&g		3856.4?		800.1430	2$^-$	
3063.5&g		3063.5?		0.0	4$^-$	
3063.9&g		3093.8?		29.8299	3$^-$	
3068.7 *4*	0.25 *4*	3868.67	2$^-$	800.1430	2$^-$	σ_γ=0.0051 b *6* (2013Fi01).
3088.3 *5*	0.19 *4*	3887.83	(1$^-$,2$^-$)	800.1430	2$^-$	σ_γ=0.0038 b *7* (2013Fi01).
3098.56 *20*	0.37 *14*	3128.463	(2$^-$,3$^+$)	29.8299	3$^-$	σ_γ=0.0143 b *8* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-16

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ[†]	I_γ[‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
3100.42 *20*	0.37 *14*	4744.134	(2^+)	1643.641	0^+	
3128.06 *13*	0.61 *4*	3128.463	$(2^-,3^+)$	0.0	4^-	σ_γ=0.0093 b *6* (2013Fi01).
3132.8[&g]		3933.0?		800.1430	2^-	
3133.49[b@] *14*	0.51 *4*	(7799.553)	$1^+,2^+$	4666.46	(2^-)	σ_γ=0.0075 b *6* (2013Fi01).
3137.3[a] *4*	0.102[a] *21*	(7799.553)	$1^+,2^+$	4662.29	(2^-)	σ_γ=0.0024 b *5* (2013Fi01).
3140.7[&g]		3140.7?		0.0	4^-	
3144.30[c] *19*	0.28 *3*	5213.70	2^-	2069.805	3^-	σ_γ=0.0046 b *5* (2013Fi01). E_γ: placed by 1984Vo01 from 4789 level.
3153.5 *3*	0.38 *3*	3153.84	$(2^-,3)$	0.0	4^-	σ_γ=0.0044 b *5* (2013Fi01).
3198.6 *3*	0.146 *22*	3228.66	2^-	29.8299	3^-	σ_γ=0.0034 b *5* (2013Fi01).
[x]3204.7 *4*	0.101 *20*					σ_γ=0.0021 b *5* (2013Fi01).
[x]3214.12 *24*	0.223 *24*					σ_γ=0.0048 b *5* (2013Fi01).
3220.08 *21*	0.24 *3*	4020.36	$(2)^-$	800.1430	2^-	σ_γ=0.0055 b *6* (2013Fi01).
3229.4 *4*	0.128 *21*	3228.66	2^-	0.0	4^-	σ_γ=0.0024 b *5* (2013Fi01).
3255.9[b] *4*	0.37 *7*	(7799.553)	$1^+,2^+$	4544.12	(2^-)	σ_γ=0.0066 b *6* (2013Fi01).
3258.1[&g]		4058.3?		800.1430	2^-	
3262.56 *12*	2.43 *17*	(7799.553)	$1^+,2^+$	4537.06	(2^-)	σ_γ=0.0423 b *12* (2013Fi01).
3286.4 *8*	0.15 *5*	4179.99	(3^-)	891.404	5^-	
3304.24 *11*	0.99 *7*	4104.47	$(1^-,2,3^-)$	800.1430	2^-	σ_γ=0.0164 b *8* (2013Fi01).
3310.9 *5*	0.12 *3*	4110.82	2	800.1430	2^-	σ_γ=0.0026 b *5* (2013Fi01).
3326.44 *12*	0.79 *6*	(7799.553)	$1^+,2^+$	4473.05	$(2^-,3,4^-)$	σ_γ=0.0141 b *8* (2013Fi01).
3326.6[&g]		3326.6?		0.0	4^-	
3336.3[c] *10*	1.7 *8*	(7799.553)	$1^+,2^+$	4463.61	$(1^-,2,3,4^-)$	σ_γ=0.0184 b *15* (2013Fi01). E_γ: placed by 1984Vo01 from 3368 level.
3338.2[a] *3*	0.24[a] *6*	3367.98	$(2,3)^-$	29.8299	3^-	E_γ: 3339.1 *6* (1972Op01), also placed by 1972Op01. σ_γ=0.0056 b *14* (2013Fi01).
3348.91 *10*	1.12 *7*	4149.03	$(2^-,3^+)$	800.1430	2^-	σ_γ=0.0194 b *9* (2013Fi01).
3368.9 *6*	0.10 *3*	3367.98	$(2,3)^-$	0.0	4^-	σ_γ=0.0021 b *5* (2013Fi01).
3380.3 *4*	0.22 *4*	(7799.553)	$1^+,2^+$	4419.38	$(2^-,3,4^+)$	σ_γ=0.0044 b *6* (2013Fi01).
3384.66 *24*	0.40 *5*	3414.35	2^+	29.8299	3^-	σ_γ=0.0070 b *7* (2013Fi01).
3403.59 *11*	1.00 *7*	(7799.553)	$1^+,2^+$	4395.86	$(2)^-$	σ_γ=0.0188 b *9* (2013Fi01).
3418.5[a] *6*	0.08[a] *3*	5488.76	$(2^-,3,4^-)$	2069.805	3^-	E_γ: 3419.2 *8*, unplaced in 1970Jo04. σ_γ=0.0019 b *6* (2013Fi01).
3428.9[&g]		3428.9?		0.0	4^-	
[x]3429.8 *7*	0.09 *3*					
3448.8[a] *5*	0.33[a] *8*	(7799.553)	$1^+,2^+$	4350.69	(2^-)	E_γ: 3448.7 *8*, unplaced in 1970Jo04; 3447.0 *5*, unplaced in 1972Op01. σ_γ=0.0078 b *18* (2013Fi01).
3452.2 *10*	1.71 *10*	4253.68	$(1,2)^-$	800.1430	2^-	σ_γ=0.0278 b *16* (2013Fi01).
3480.6 *5*	0.13 *3*	4280.51	2^-	800.1430	2^-	σ_γ=0.0015 b *9* (2013Fi01).
3517.7[&g]		3517.7?		0.0	4^-	
3518.85 *10*	1.05 *7*	(7799.553)	$1^+,2^+$	4280.51	2^-	σ_γ=0.0209 b *10* (2013Fi01).
3526.99[@] *10*	1.02 *7*	3557.32	$(1^-$ to $4^+)$	29.8299	3^-	σ_γ=0.0191 b *10* (2013Fi01).

From ENSDF

$^{40}_{19}K_{21}$-17

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ[†]	I_γ[‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
3545.95[@] 6	4.7 3	(7799.553)	$1^+,2^+$	4253.68	$(1,2)^-$	σ_γ=0.0840 b 20 (2013Fi01).
3548.8[a] 4	0.29[a] 8	(7799.553)	$1^+,2^+$	4251.59	$(1,2^-)$	σ_γ=0.0068 b 18 (2013Fi01).
3569.30 8	0.45 3	3599.223	2^-	29.8299	3^-	σ_γ=0.0082 b 7 (2013Fi01).
[x]3578.2 3	0.070 12					
3586.53 13	0.217 17	(7799.553)	$1^+,2^+$	4213.03	$(2^-,3^+)$	σ_γ=0.0038 b 6 (2013Fi01).
3599.62 20	0.185 19	3629.98	$2^-,3^-$	29.8299	3^-	σ_γ=0.0033 b 6 (2013Fi01).
3619.40 6	0.77 4	(7799.553)	$1^+,2^+$	4179.99	(3^-)	σ_γ=0.0146 b 9 (2013Fi01).
3629.94 15	0.33 3	3629.98	$2^-,3^-$	0.0	4^-	σ_γ=0.0071 b 7 (2013Fi01).
3633.88 9	0.63 4	3663.798	$(1^-,2,3,4^+)$	29.8299	3^-	σ_γ=0.0105 b 8 (2013Fi01).
3650.34 5	2.22 11	(7799.553)	$1^+,2^+$	4149.03	$(2^-,3^+)$	σ_γ=0.0400 b 15 (2013Fi01).
3663.32[c] 9	0.44 3	4463.61	$(1^-,2,3,4^-)$	800.1430	2^-	σ_γ=0.0070 b 7 (2013Fi01).
3683.3[a] 5	0.10[a] 3	3713.09	$(2)^-$	29.8299	3^-	σ_γ=0.0024 b 6 (2013Fi01).
3688.67 15	1.49 12	(7799.553)	$1^+,2^+$	4110.82	2	σ_γ=0.0311 b 12 (2013Fi01).
3695.15 11	1.43 10	(7799.553)	$1^+,2^+$	4104.47	$(1^-,2,3^-)$	σ_γ=0.0260 b 11 (2013Fi01).
3737.01 10	1.14 7	4537.06	(2^-)	800.1430	2^-	σ_γ=0.0217 b 7 (2013Fi01).
3743.2[b] 3	0.21 3	4544.12	(2^-)	800.1430	2^-	σ_γ=0.0029 b 5 (2013Fi01).
[x]3764.84 19	0.180 17					σ_γ=0.0035 b 6 (2013Fi01).
3778.99 10	0.93 6	(7799.553)	$1^+,2^+$	4020.36	$(2)^-$	σ_γ=0.0161 b 8 (2013Fi01).
3791.9 3	0.18 3	3821.47	2^-	29.8299	3^-	σ_γ=0.0037 b 6 (2013Fi01).
3822.17[b@] 13	0.264 19	3821.47	2^-	0.0	4^-	E_γ: 3820.5 (2002Va28), also placed by 2002Va28 from $\gamma\gamma$-coin. σ_γ=0.0052 b 6 (2013Fi01).
3838.50 7	0.62 4	3868.67	2^-	29.8299	3^-	σ_γ=0.0126 b 8 (2013Fi01).
3857.97 11	0.305 21	3887.83	$(1^-,2^-)$	29.8299	3^-	σ_γ=0.0054 b 6 (2013Fi01).
3868.3 10	0.12 5	3868.67	2^-	0.0	4^-	
3874.7 3	0.28 6	(7799.553)	$1^+,2^+$	3924.15	$(2^-,3^+)$	σ_γ=0.0090 b 7 (2013Fi01).
3895.7 11	0.21 11	3924.15	$(2^-,3^+)$	29.8299	3^-	
[x]3899.0 7	0.32 11					σ_γ=0.0078 b 8 (2013Fi01).
3911.49 18	0.96 9	(7799.553)	$1^+,2^+$	3887.83	$(1^-,2^-)$	σ_γ=0.0189 b 10 (2013Fi01).
3930.64 5	1.56 8	(7799.553)	$1^+,2^+$	3868.67	2^-	σ_γ=0.0310 b 12 (2013Fi01).
3943.81 6	0.98 5	4744.134	(2^+)	800.1430	2^-	σ_γ=0.0195 b 10 (2013Fi01).
3959.19 5	1.48 8	(7799.553)	$1^+,2^+$	3840.254	$(1,2^+)$	σ_γ=0.0284 b 11 (2013Fi01).
3977.83 5	1.29 7	(7799.553)	$1^+,2^+$	3821.47	2^-	σ_γ=0.0247 b 11 (2013Fi01).
3989.07[b] 14	0.242 19	4789.01	2^-	800.1430	2^-	σ_γ=0.0038 b 6 (2013Fi01).
4001.78 5	1.61 9	(7799.553)	$1^+,2^+$	3797.55	1^+	σ_γ=0.0296 b 12 (2013Fi01).
4008.1[b] 3	0.139 15	4807.76	$(0,1,2,3)^-$	800.1430	2^-	
4031.58[@] 14	0.221 17	(7799.553)	$1^+,2^+$	3768.49	$(2)^-$	σ_γ=0.0047 b 5 (2013Fi01).
4060.92 5	1.53 8	(7799.553)	$1^+,2^+$	3738.47	1^+	σ_γ=0.0275 b 11 (2013Fi01).
4080.69 12	0.325 22	4110.82	2	29.8299	3^-	σ_γ=0.0066 b 7 (2013Fi01).
4086.13[b] 9	0.46 3	(7799.553)	$1^+,2^+$	3713.09	$(2)^-$	σ_γ=0.0079 b 8 (2013Fi01).
4106.7[&g]		4906.9?		800.1430	2^-	
4110.39[a] 20	0.32[a] 3	4110.82	2	0.0	4^-	E_γ: 4110.6 from 2002Va28, 4110.7 8 from 1972Op01, 4111.4 10 from 1970Jo04. Also

From ENSDF

$^{40}_{19}K_{21}$-18

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ [†]	I_γ [‡ e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
						placed by 2002Va28.
						σ_γ=0.0075 b *7* (2013Fi01).
4118.5 [&g]		4149.03	$(2^-,3^+)$	29.8299	3^-	
4135.58 *5*	3.41 *18*	(7799.553)	$1^+,2^+$	3663.798	$(1^-,2,3,4^+)$	σ_γ=0.0634 b *19* (2013Fi01).
4135.6 [&g]		4165.4?		29.8299	3^-	
4148.4 *3*	0.134 *18*	4149.03	$(2^-,3^+)$	0.0	4^-	
4165.4 [&g]		4165.4?		0.0	4^-	
4169.31 *9*	0.71 *4*	(7799.553)	$1^+,2^+$	3629.98	$2^-,3^-$	σ_γ=0.0134 b *8* (2013Fi01).
4200.04 *5*	2.23 *12*	(7799.553)	$1^+,2^+$	3599.223	2^-	σ_γ=0.0448 b *16* (2013Fi01).
4223.66 *7*	0.83 *5*	4253.68	$(1,2)^-$	29.8299	3^-	σ_γ=0.0141 b *9* (2013Fi01).
4242.47 [@] *11*	0.45 *3*	(7799.553)	$1^+,2^+$	3557.32	$(1^-$ to $4^+)$	σ_γ=0.0092 b *9* (2013Fi01).
4249.5 *4*	0.119 *16*	4280.51	2^-	29.8299	3^-	
4280.35 *22*	0.37 *4*	4280.51	2^-	0.0	4^-	σ_γ=0.0071 b *5* (2013Fi01).
4312.8 *3*	0.28 *4*	(7799.553)	$1^+,2^+$	3486.09	2^-	σ_γ=0.0055 b *5* (2013Fi01).
4319.6 [a] *5*	0.068 [a] *13*	4350.69	(2^-)	29.8299	3^-	σ_γ=0.0016 b *3* (2013Fi01).
4360.19 *6*	4.33 *24*	(7799.553)	$1^+,2^+$	3439.145	(2^+)	σ_γ=0.0874 b *24* (2013Fi01).
4384.95 *7*	1.47 *8*	(7799.553)	$1^+,2^+$	3414.35	2^+	σ_γ=0.0278 b *12* (2013Fi01).
4389.32 [c] *18*	0.37 *3*	5189.86	(2^-)	800.1430	2^-	σ_γ=0.0057 b *8* (2013Fi01).
						E_γ: placed by 1984Vo01 from 4419 level.
4405.36 *11*	0.42 *3*	(7799.553)	$1^+,2^+$	3393.67	2^-	σ_γ=0.0073 b *8* (2013Fi01).
[x]4421.15 *14*	0.294 *22*					σ_γ=0.0056 b *7* (2013Fi01).
4431.17 *16*	0.59 *5*	(7799.553)	$1^+,2^+$	3367.98	$(2,3)^-$	σ_γ=0.0105 b *9* (2013Fi01).
4472.80 *11*	0.40 *3*	4473.05	$(2^-,3,4^-)$	0.0	4^-	σ_γ=0.0074 b *5* (2013Fi01).
4506.96 *7*	0.77 *5*	4537.06	(2^-)	29.8299	3^-	σ_γ=0.0179 b *10* (2013Fi01).
4652.94 *8*	0.52 *3*	(7799.553)	$1^+,2^+$	3146.42	$1^{(-)}$	σ_γ=0.0124 b *8* (2013Fi01).
4662.1 [a] *3*	0.21 [a] *3*	4662.29	(2^-)	0.0	4^-	σ_γ=0.0050 b *6* (2013Fi01).
4667.0 [b] *4*	0.110 *21*	4666.46	(2^-)	0.0	4^-	
4670.84 *10*	0.66 *4*	(7799.553)	$1^+,2^+$	3128.463	$(2^-,3^+)$	σ_γ=0.0190 b *10* (2013Fi01).
4688.9 *5*	0.052 *11*	(7799.553)	$1^+,2^+$	3109.56	$1^+,2^+$	σ_γ=0.0018 b *5* (2013Fi01).
4842.8 *4*	0.076 *12*	4872.58	$(2,3)^-$	29.8299	3^-	
4851.16 [b] *25*	0.120 *13*	4851.22	$(2^-,3,4^+)$	0.0	4^-	σ_γ=0.0020 b *7* (2013Fi01).
4860.4 [&g]		(7799.553)	$1^+,2^+$	2939.2?		
4872.47 *14*	0.252 *19*	4872.58	$(2,3)^-$	0.0	4^-	
4874.5 [&g]		(7799.553)	$1^+,2^+$	2925.1?		
4906.9 [&g]		4906.9?		0.0	4^-	E_γ: 1972Op01 report a γ ray at E=4908.6 *13* placed from a 4908 level. This γ ray was not observed in 1984Vo01 and 2013Fi01.
[x]4912.4 *7*	0.044 *11*					
4929.3 [b] *3*	0.183 *21*	4960.23	$(2,3^-)$	29.8299	3^-	σ_γ=0.0028 b *5* (2013Fi01).
4962.2 *4*	0.107 *19*	4993.14	(2^-)	29.8299	3^-	
4991.38 *5*	2.18 *11*	(7799.553)	$1^+,2^+$	2807.88	$(1,2)^-$	σ_γ=0.0487 b *16* (2013Fi01).
4993.9 [&g]		4993.14	(2^-)	0.0	4^-	

From ENSDF

$^{40}_{19}K_{21}$-19

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

E_γ [†]	I_γ [‡e]	E_i(level)	J_i^π	E_f	J_f^π	Comments
5012.47 *6*	1.17 *6*	(7799.553)	$1^+,2^+$	2786.646	3^+	σ_γ=0.0255 b *12* (2013Fi01).
5042.43 *6*	1.78 *9*	(7799.553)	$1^+,2^+$	2756.674	2^+	σ_γ=0.0395 b *17* (2013Fi01).
5062.9 *4*	0.070 *9*	5063.38	$(2^-,3^+)$	0.0	4^-	
5068.65[@] *6*	1.25 *7*	(7799.553)	$1^+,2^+$	2730.356	1	σ_γ=0.0252 b *14* (2013Fi01).
5111.5[a] *7*	0.081[a] *21*	5111.9	$(2,3)^-$	0.0	4^-	σ_γ=0.0019 b *5* (2013Fi01).
5173.19 *5*	2.30 *12*	(7799.553)	$1^+,2^+$	2626.003	0^-	σ_γ=0.0454 b *17* (2013Fi01). E_γ: 5073.19 In 1984Vo01 is a misprint.
5181.5[&g]		(7799.553)	$1^+,2^+$	2618.1?		
5188.8[b] *3*	0.053 *6*	5189.86	(2^-)	0.0	4^-	
5216.9[b] *6*	0.020 *4*	5246.85		29.8299	3^-	
5223.14 *7*	0.377 *20*	(7799.553)	$1^+,2^+$	2575.946	2^+	σ_γ=0.0099 b *9* (2013Fi01).
[x]5228.86 *24*	0.057 *5*					
5377.5[&g]		(7799.553)	$1^+,2^+$	2422.1?		
5379.84 *6*	7.9 *4*	(7799.553)	$1^+,2^+$	2419.167	2^-	σ_γ=0.164 b *5* (2013Fi01).
5488.5[a] *5*	0.14[a] *3*	5488.76	$(2^-,3,4^-)$	0.0	4^-	E_γ: 5489.3 *15*, unplaced in 1970Jo04. σ_γ=0.0033 b *6* (2013Fi01).
5509.12 *7*	3.17 *16*	(7799.553)	$1^+,2^+$	2289.871	1^+	σ_γ=0.0674 b *21* (2013Fi01).
5528.5[&g]		(7799.553)	$1^+,2^+$	2271.1?		
5695.38 *7*	5.6 *3*	(7799.553)	$1^+,2^+$	2103.682	1^-	σ_γ=0.128 b *3* (2013Fi01).
5723.5[&g]		(7799.553)	$1^+,2^+$	2076.1?		
5729.21 *7*	2.28 *12*	(7799.553)	$1^+,2^+$	2069.805	3^-	σ_γ=0.0492 b *20* (2013Fi01).
5751.60 *7*	5.5 *3*	(7799.553)	$1^+,2^+$	2047.339	2^-	σ_γ=0.122 b *3* (2013Fi01).
5921.9[&g]		(7799.553)	$1^+,2^+$	1877.7?		
6067.6[b] *3*	0.050 *5*	6098.24	$(1^-,2,3,4^-)$	29.8299	3^-	σ_γ=0.0014 b *3* (2013Fi01).
6243.0[&g]		(7799.553)	$1^+,2^+$	1556.6?		
6278.9[&g]		(7799.553)	$1^+,2^+$	1520.7?		
6310.9[&g]		6311?		0.0	4^-	
6390.4[&g]		(7799.553)	$1^+,2^+$	1409.2?		
6469.1[&g]		(7799.553)	$1^+,2^+$	1330.5?		
6551.2[&g]		(7799.553)	$1^+,2^+$	1248.4?		
6571.4[&g]		(7799.553)	$1^+,2^+$	1228.2?		
6626.2[&g]		(7799.553)	$1^+,2^+$	1173.4?		
6715.3[&g]		(7799.553)	$1^+,2^+$	1084.3?		
6998.77 *10*	2.15 *11*	(7799.553)	$1^+,2^+$	800.1430	2^-	σ_γ=0.0503 b *23* (2013Fi01).
7277.9[&g]		(7799.553)	$1^+,2^+$	521.7?		
7768.75 *19*	5.6 *3*	(7799.553)	$1^+,2^+$	29.8299	3^-	σ_γ=0.113 b *5* (2013Fi01).

[†] From 1984Vo01, unless otherwise noted. Values reported in 2013Fi01 are in a good agreement with the quoted values here but with less precision. Extensive Eγ

From ENSDF

$^{40}_{19}K_{21}$-20

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01 (continued)

$\gamma(^{40}K)$ (continued)

and Iγ data are also available from 1972Op01 1970Jo04, but are much less precise, thus not considered here.

‡ From 1984Vo01, unless otherwise noted. To convert relative Iγ values in 1984Vo01 to cross section values, multiply by 0.0235 *3*, which is obtained by 2013Fi01 from a least-squares fit to their cross-section values versus the corresponding relative Iγ values in 1984Vo01. Cross-section values from 2013Fi01 are given under comments.

Based on γ(circ pol) in 1974Op01, unless otherwise noted.

@ Uncertainties were increased by a factor of 2 in the least-squares fit, except for 554.741γ, 1213.53γ, 1393.16γ, 1466.11γ, 1820.35γ, and 2539.87γ, increased by a factor of 4. Poor fit for 554.741γ with the fitted energy deviates by about 5 times the quoted energy uncertainty.

& From $\gamma\gamma$-coin data of 2002Va28.

a Observed and placed in 2013Fi01, not observed in 1984Vo01. Relative intensities are deduced by evaluator by dividing cross-section values in 2013Fi01 by 0.0235 *3*.

b Placed by 2013Fi01, unplaced in 1984Vo01.

c Placed by 2013Fi01, placed differently in 1984Vo01.

d From $\gamma\gamma(\theta)$ in 1988Se06.

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.

From ENSDF

$^{40}_{19}K_{21}$-21

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme

Intensities: Relative I_γ

Legend

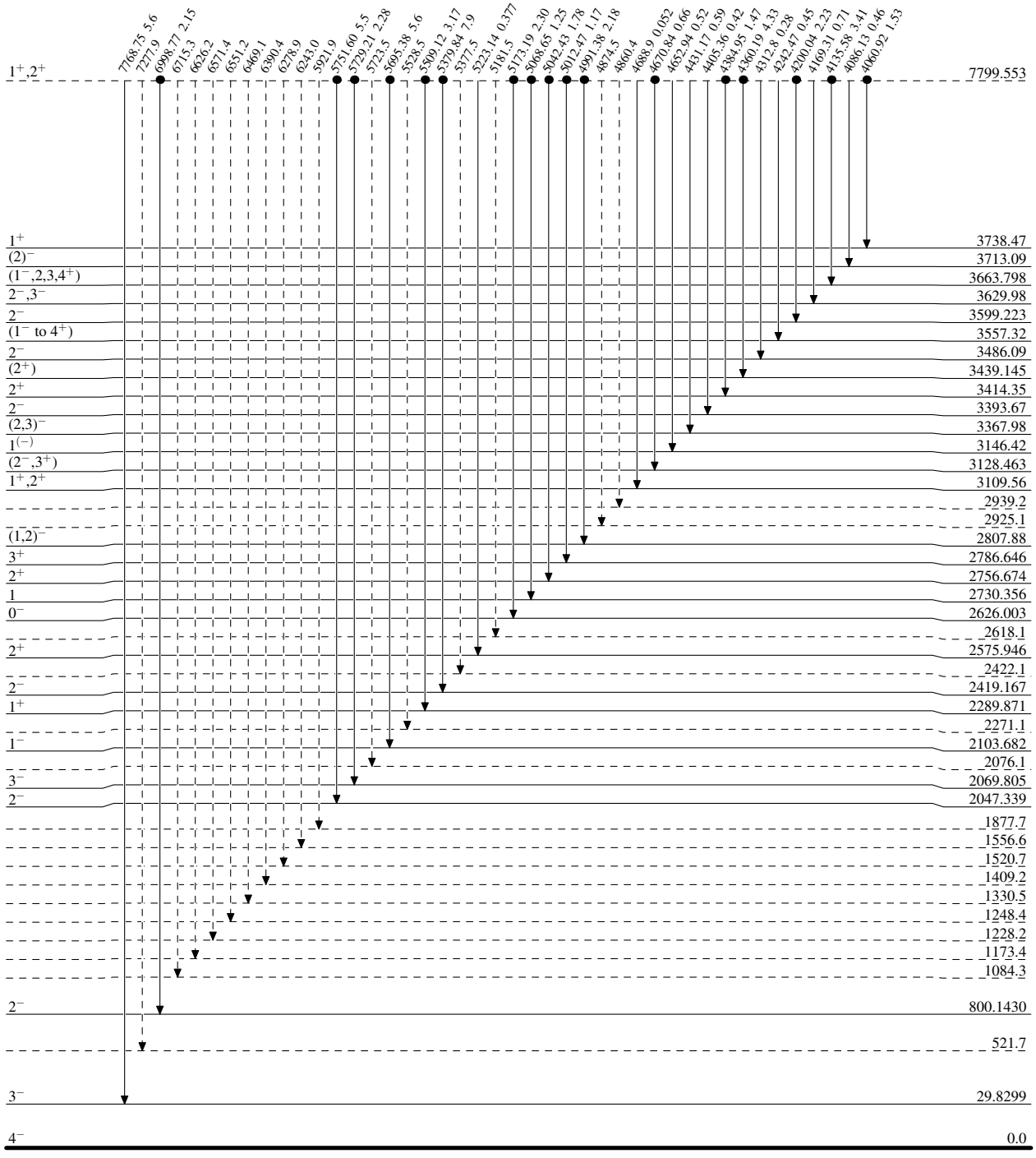
$I_\gamma < 2\% \times I_\gamma^{max}$

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

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

γ Decay (Uncertain)

Coincidence



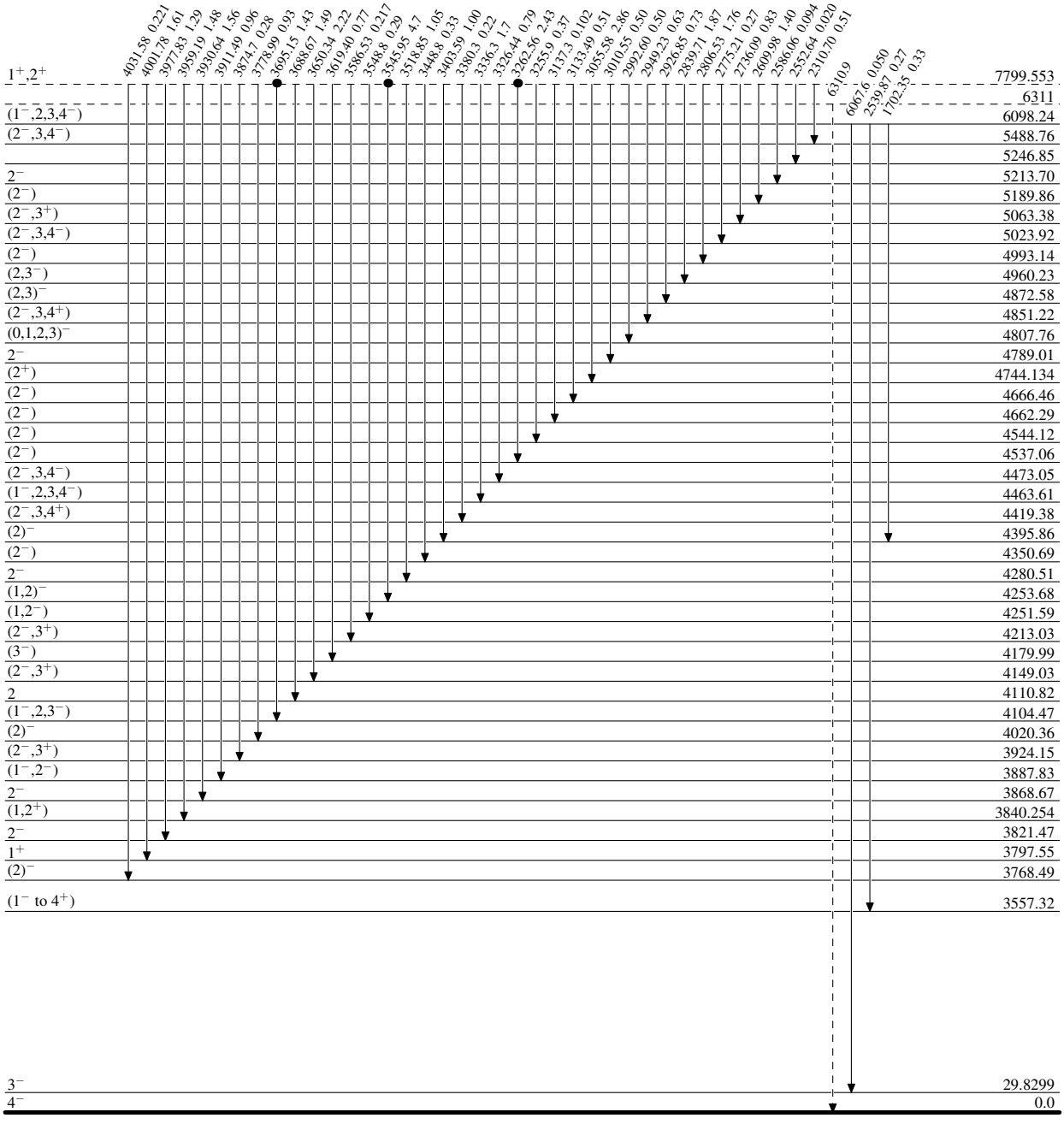
$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

Intensities: Relative I_γ

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



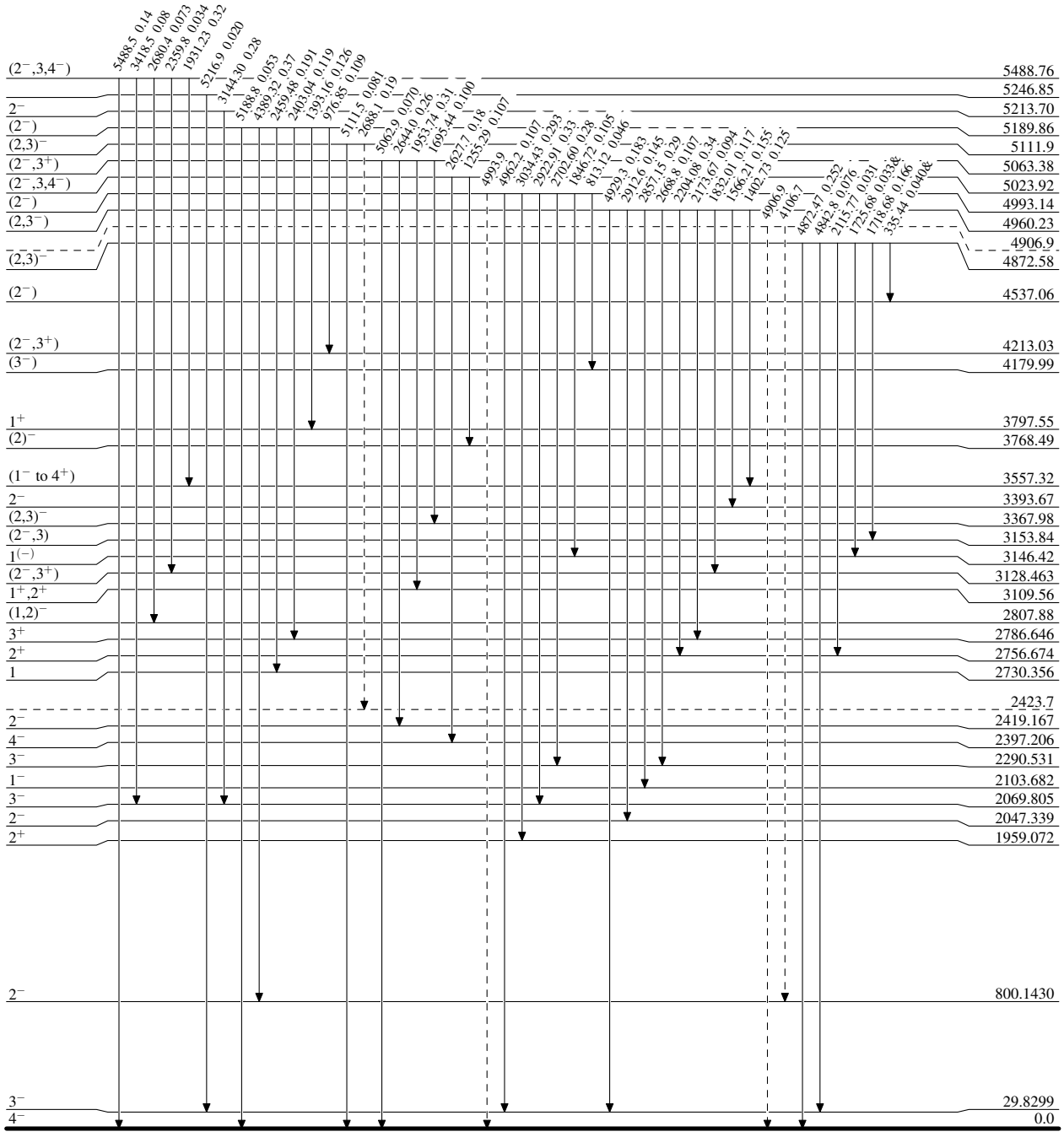
$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



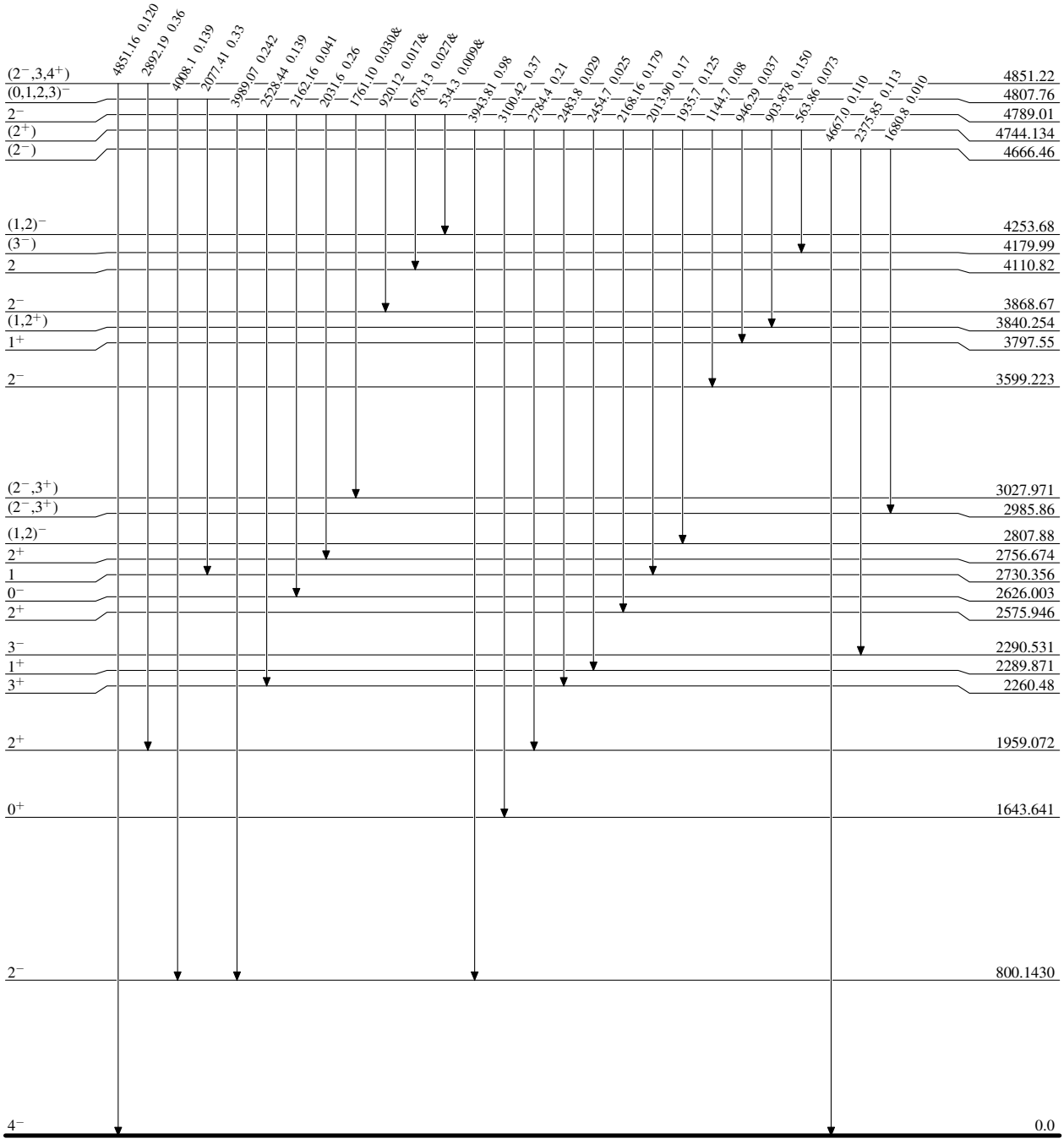
$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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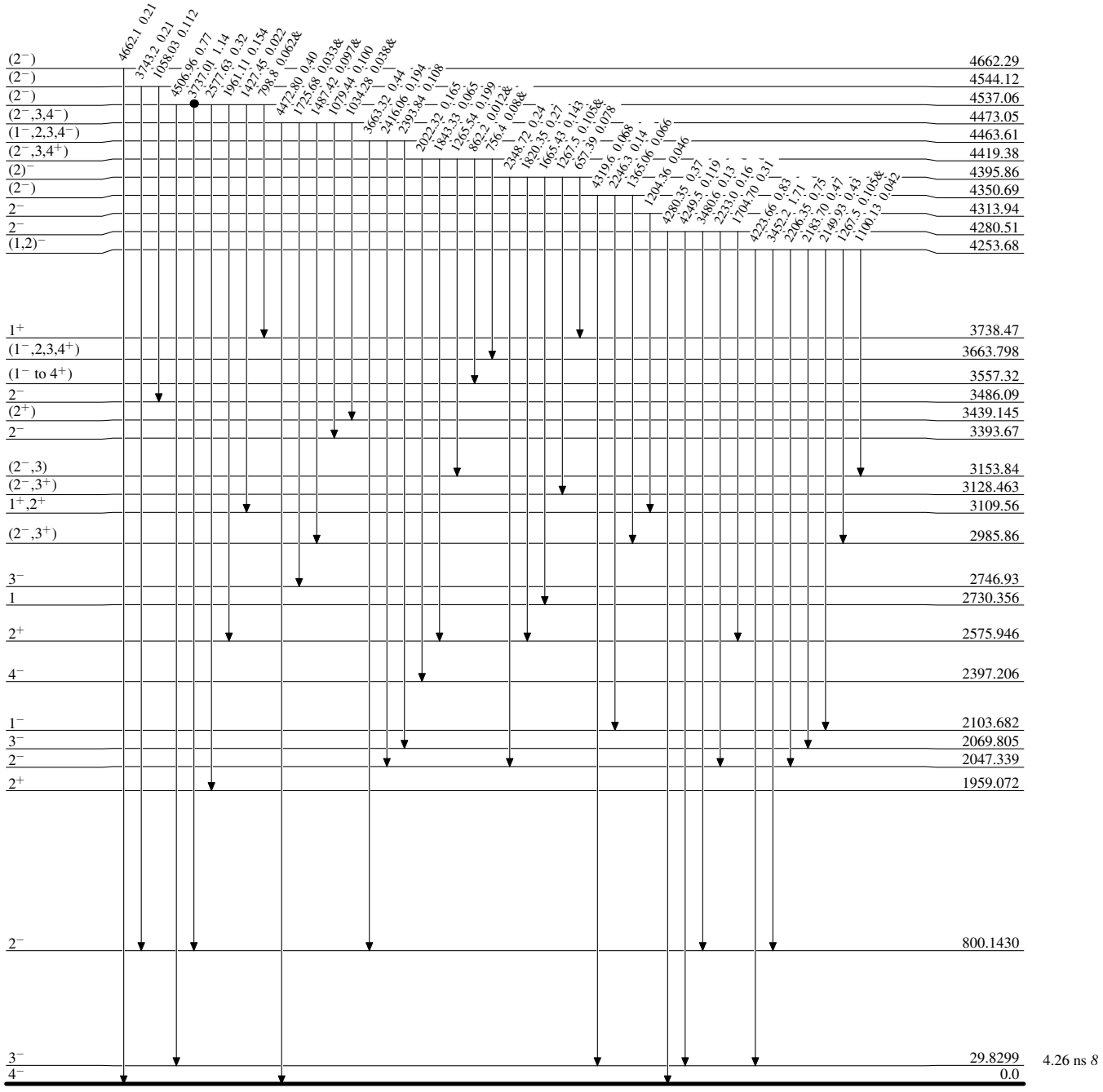
Coincidence



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Legend

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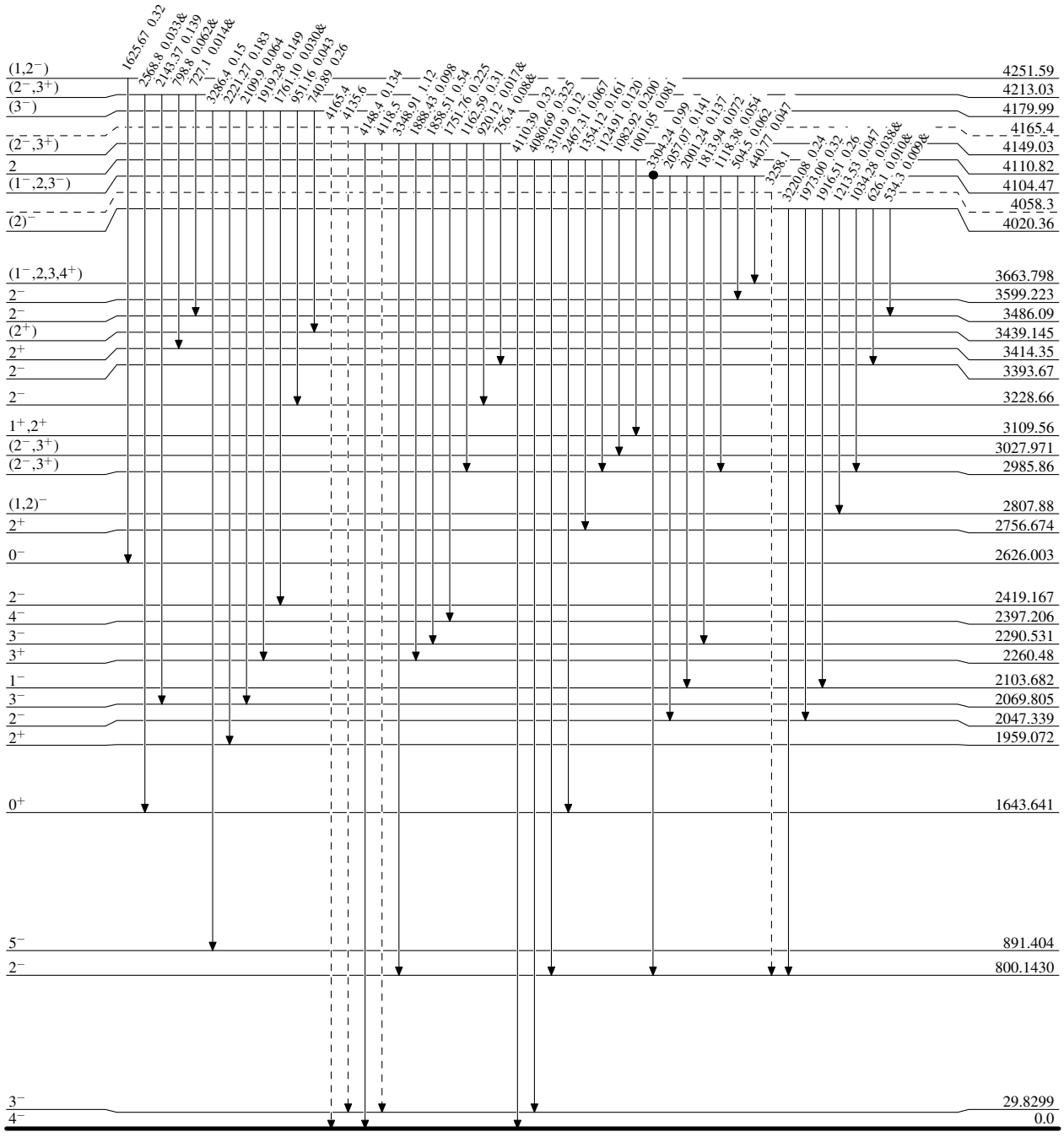
γ Decay (Uncertain)
Coincidence

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend
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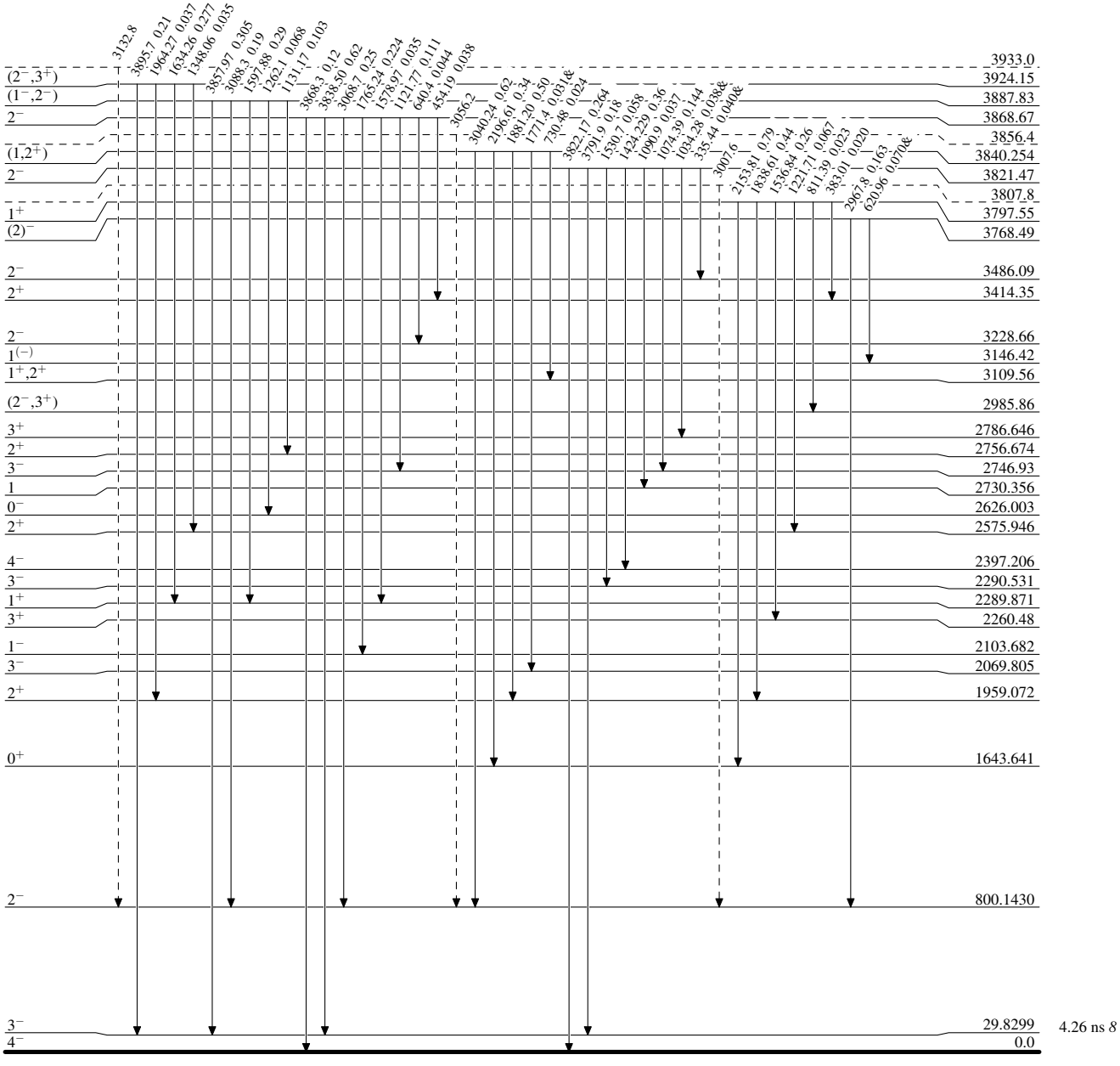
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Legend

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

$I_\gamma < 2\% \times I_\gamma^{max}$
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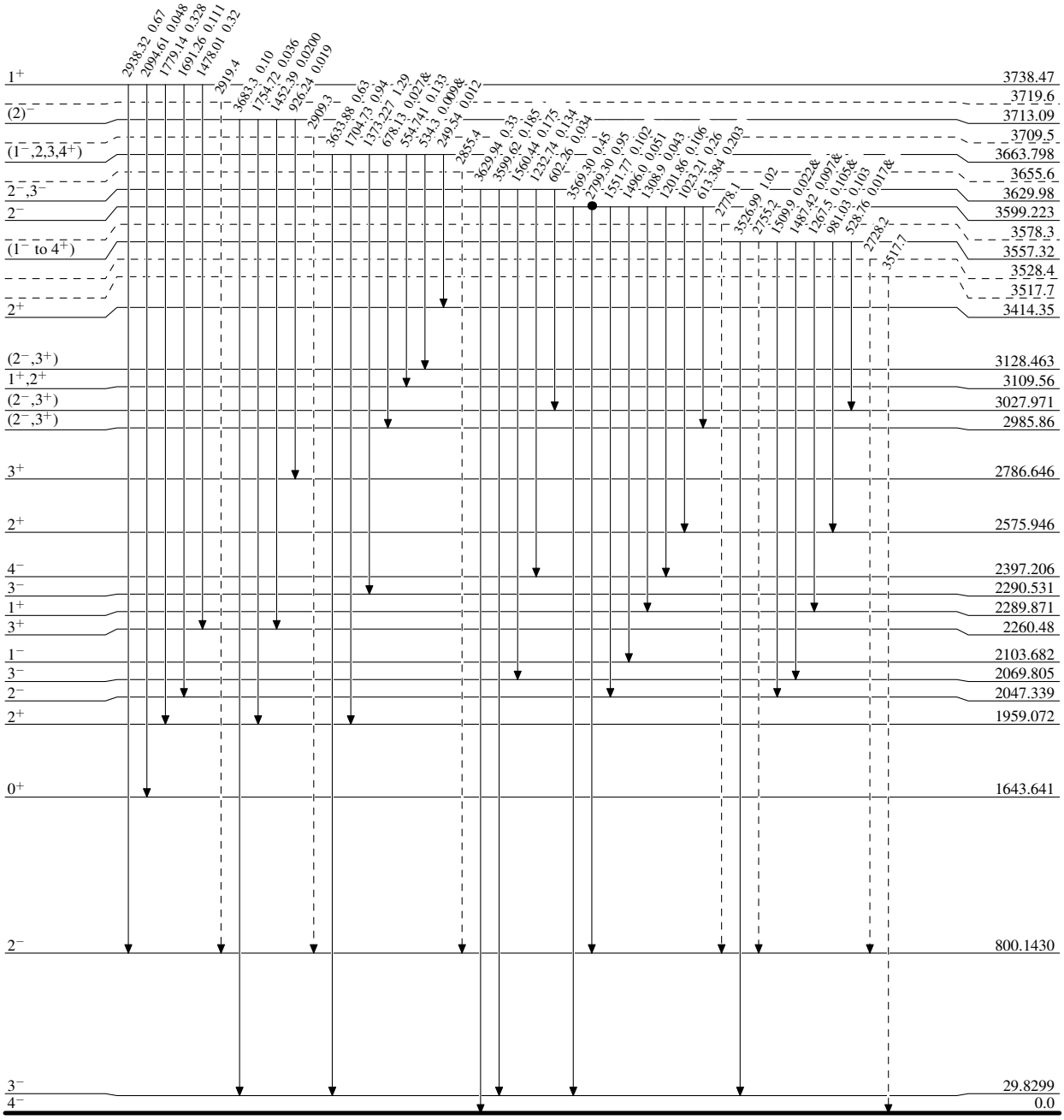
γ Decay (Uncertain)
Coincidence



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

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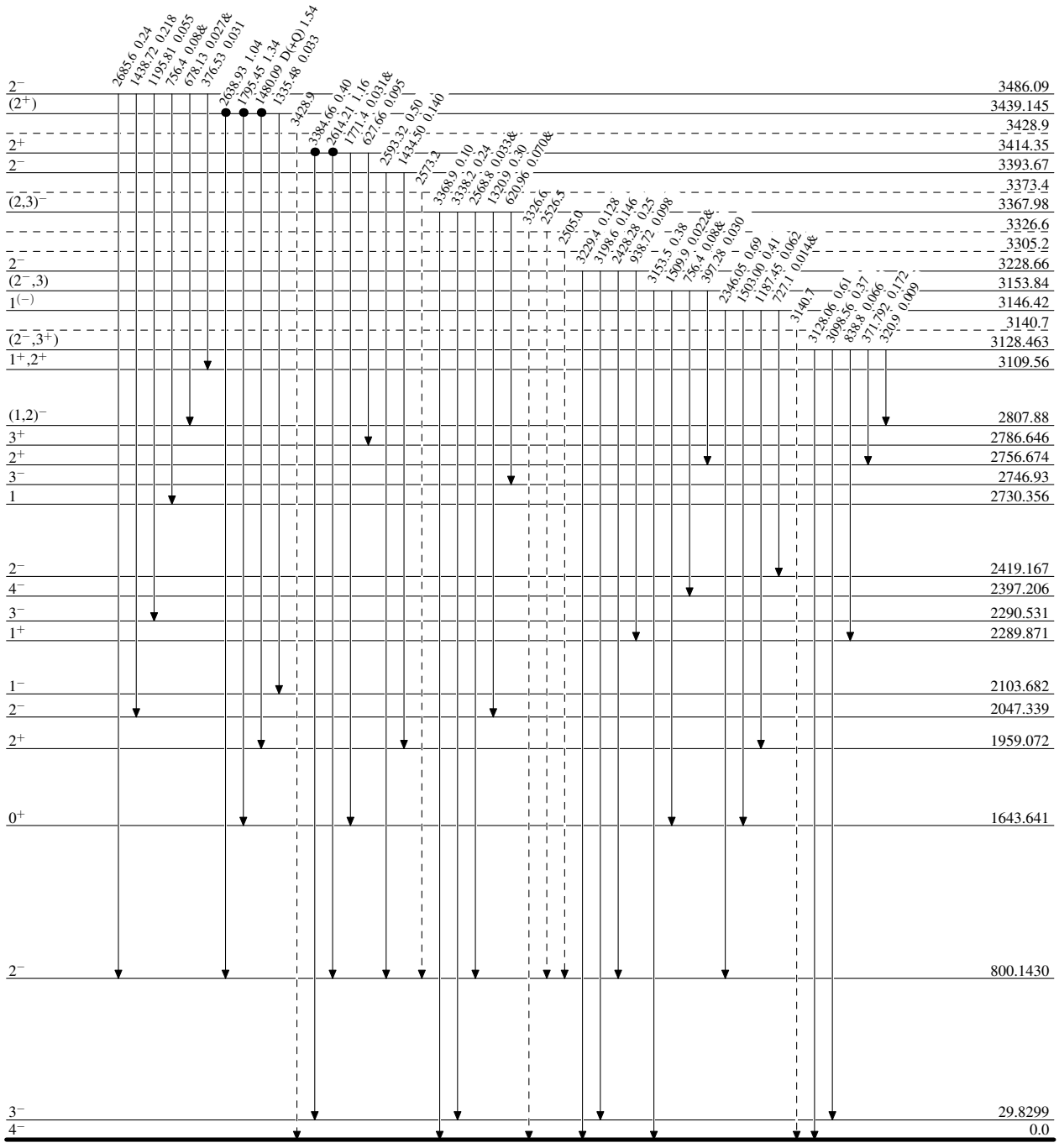
γ Decay (Uncertain)
Coincidence

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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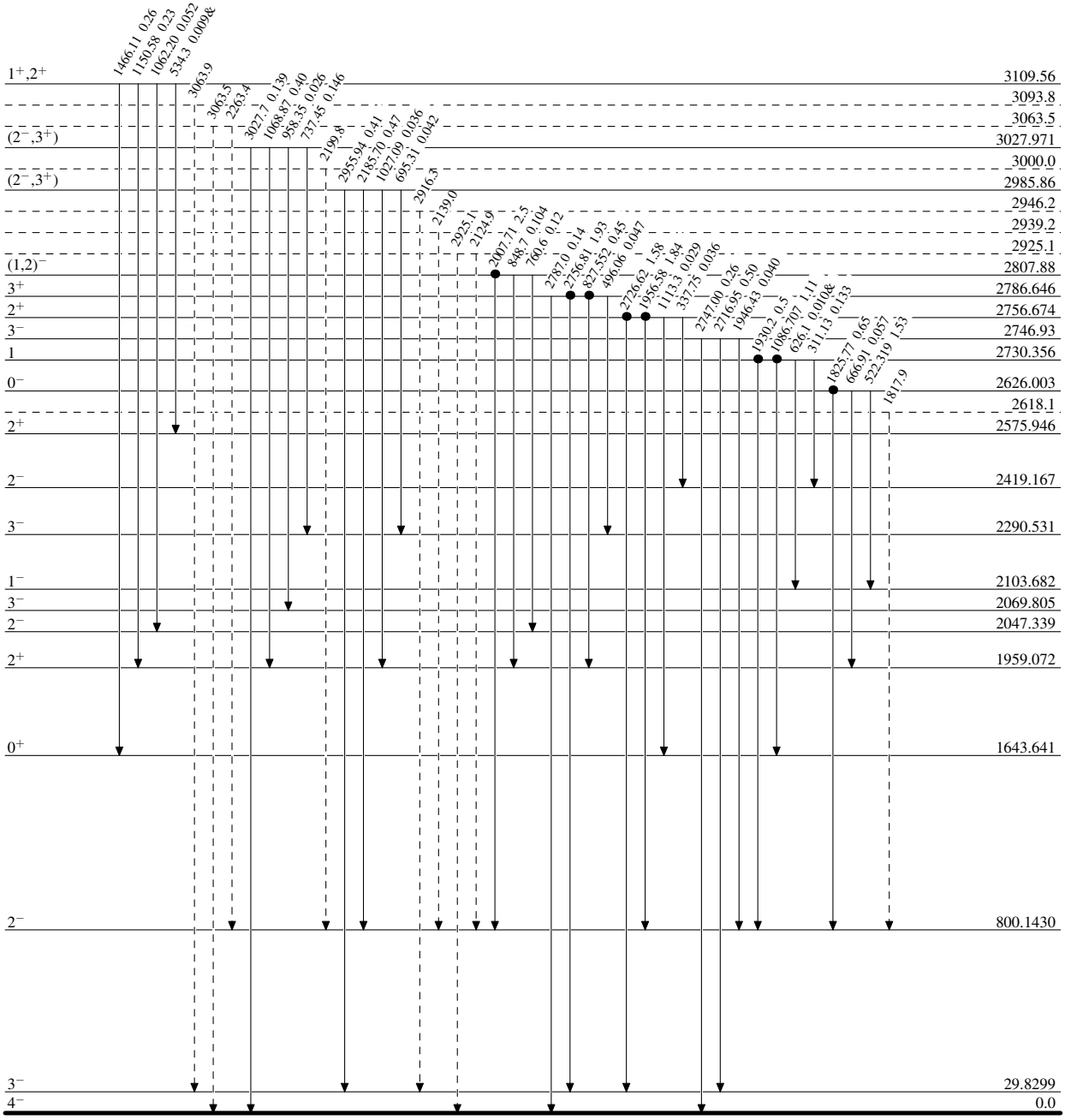
- γ Decay (Uncertain)
- Coincidence



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

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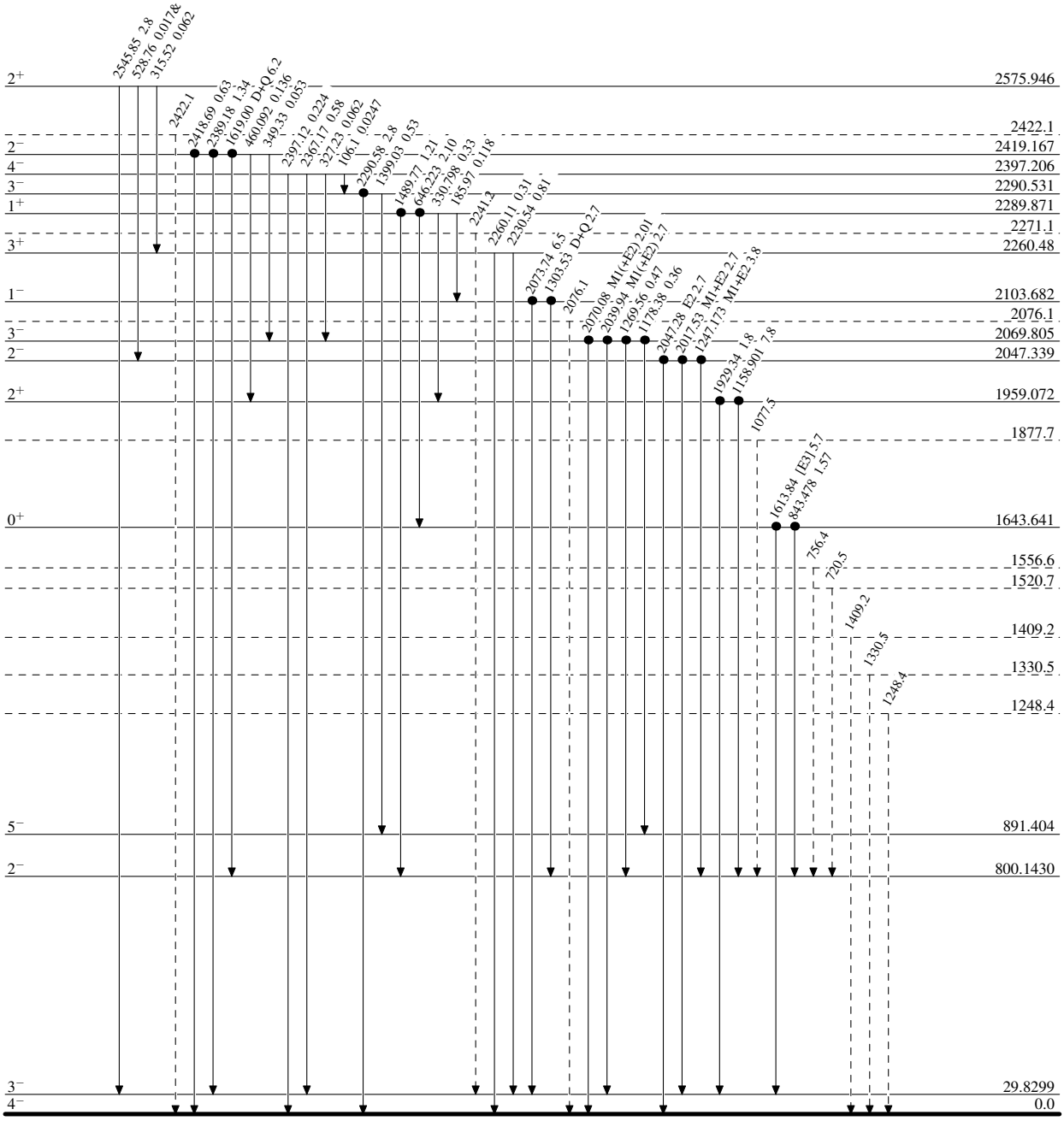
γ Decay (Uncertain)
Coincidence

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given



$^{40}_{19}K_{21}$

^{39}K(n,γ),(pol n,γ) E=thermal 1984Vo01,2013Fi01,1972Op01

Level Scheme (continued)

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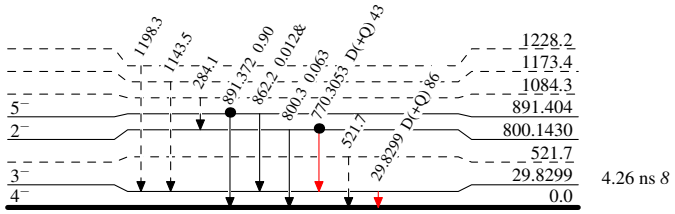
- Coincidence



$^{40}_{19}K_{21}$