

$^{86}\text{Kr}(\alpha,3n\gamma), {}^{84}\text{Kr}(\alpha,n\gamma)$ **1981Ek01,1975Ar06**

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)	NDS 129, 1 (2015)	27-Jul-2015

1981Ek01: ${}^{84}\text{Kr}(\alpha,n\gamma)$, E=11-17 MeV, Ge detectors, measured γ spectra, angular distributions, linear polarization, excitation functions, $\gamma\gamma$ coincidences, and DSA half-life measurements.

1975Ar06: ${}^{84}\text{Kr}(\alpha,xn\gamma)$, E=10-14 MeV and ${}^{86}\text{Kr}(\alpha,3n\gamma)$, E=11-40 MeV, Ge detectors, measured γ spectra, angular distributions, $\gamma\gamma$ coincidences, and DSA half-life measurements.

 ^{87}Sr Levels

E(level)	J $^{\pi}$ [†]	T $_{1/2}$ [‡]	Comments
0.0	9/2 $^{+}$		
388.54 18	1/2 $^{-}$	2.815 h 12	T $_{1/2}$: from Adopted Levels. J $^{\pi}$: From Adopted Levels.
873.29 24	3/2 $^{-}$	1.7 ps 7	J $^{\pi}$: linear polarization measurements and additional arguments in Adopted Levels.
1228.36 23	5/2 $^{+}$	1.0 ps 4	J $^{\pi}$: from E1 γ to 3/2 $^{-}$ level and E2 γ to 9/2 $^{+}$ supported by $\gamma(\theta)$ and $\gamma(\text{pol})$.
1254.0 3	5/2 $^{-}$	2.8 ps +28-9	J $^{\pi}$: $\gamma(\theta)$ and $\gamma(\text{pol})$ supporting E2 γ to 1/2 $^{-}$; additional argument in Adopted Levels.
1740.0 4	13/2 $^{+}$ #	0.28 ps 9	J $^{\pi}$: γ yield function and yrast argument.
1770.7 3	5/2 $^{+}$	5.5 ps +63-21	J $^{\pi}$: $\gamma(\theta)$ and polarization supporting E2 γ to 9/2 $^{+}$; additional argument in Adopted Levels.
1919.9 4	7/2 $^{+}$	0.15 ps 5	J $^{\pi}$: $\gamma(\theta)$ and $\gamma(\text{pol})$ are consistent only with J $^{\pi}=7/2^{+}$ and J $^{\pi}=11/2^{+}$ (1981Ek01).
2109.8 5	3/2 $^{-}$	0.10 ps 3	J $^{\pi}$: Adopted Levels and consistent with $\gamma(\theta)$ and polarization.
2153.5 6	(11/2) $^{+}$	<0.09 ps	J $^{\pi}$: $\gamma(\theta)$ and polarization supporting M1+E2 γ to 9/2 $^{+}$; additional argument in Adopted Levels.
2168.8 4	(1/2) $^{+}$		
2235.7 10	9/2 $^{+}$	0.15 ps 4	J $^{\pi}$: $\gamma(\theta)$ and $\gamma(\text{pol})$ are consistent only with J $^{\pi}=9/2^{+}$ (1981Ek01).
2414.7 3	3/2 $^{-}$	0.12 ps 4	J $^{\pi}$: γ excitation function suggests J=(3/2) (1981Ek01).
2420.4 8	(5/2) $^{-}$	0.08 ps 4	J $^{\pi}$: γ excitation function suggests J=(5/2) (1981Ek01). T $_{1/2}$: from measurement at E $_{\alpha}$ =11 Mev; at E $_{\alpha}$ =14 MeV 1981Ek01 measure 0.19 ps 4.
2536.3 6	11/2 $^{-}$	0.19 ps 8	J $^{\pi}$: from $\gamma(\theta)$ and $\gamma(\text{pol})$ for 591 γ 1981Ek01 derive J $^{\pi}=11/2^{-}$.
2550.0 8	(7/2) $^{+}$	0.22 ps 7	J $^{\pi}$: γ excitation function suggests J=(7/2) (1981Ek01); further supported by $\gamma(\theta)$ and $\gamma(\text{pol})$.
2555.0 7	(9/2) $^{-}$	0.06 ps 4	J $^{\pi}$: From Adopted Levels.
2596.0 5	13/2 $^{-}$	1.0 ps 4	J $^{\pi}$: Supported by $\gamma(\theta)$ and $\gamma(\text{pol})$ with additional argument in Adopted Levels.
2682.2 6	(3/2) $^{+}$	0.25 ps 9	J $^{\pi}$: $\gamma(\theta)$, $\gamma(\text{pol})$, and excitation function in (α,ny) favor J $^{\pi}=(3/2)^{+}$.
2704.3? 20			E(level): not confirmed by 1981Ek01 .
2706.9 6	7/2 $^{+},9/2^{+}$	0.55 ps 14	J $^{\pi}$: From Adopted Levels.
2821.2 6	(9/2) $^{+}$	0.7 ps 3	J $^{\pi}$: $\gamma(\theta)$ and polarization for 1050 γ give 5/2 $^{+},7/2^{+},9/2^{+}$ and J $^{\pi}$ function suggests J \geq 9/2 (1981Ek01). γ excitation
2831.2 5	15/2 $^{-}$	<0.35 ps	J $^{\pi}$: From Adopted Levels.
2920.8 12	7/2 $^{+},9/2^{+}$		J $^{\pi}$: From Adopted Levels.
3035.5 5			
3117.4 6	13/2 $^{-}$	0.38 ps 12	J $^{\pi}$: from $\gamma(\theta)$ and $\gamma(\text{pol})$ 1981Ek01 derive J $^{\pi}=13/2^{-}$.
3155.0 15			
3249.4 5	(17/2) $^{-}$ #	1.3 ps +16-6	J $^{\pi}$: from $\gamma(\theta)$, $\gamma(\text{pol})$, and excitation function.
3390.9 6	(19/2) $^{-}$ #		J $^{\pi}$: yield function and additional arguments in Adopted Levels.
3610.9 6	(21/2) $^{+}$		J $^{\pi}$: Yield functions.
3718.0 6	(19/2)		J $^{\pi}$: from γ yield functions and correlation of alignment to initial J.
4440.3 10	(23/2) $^{+}$		J $^{\pi}$: presumably dipole γ to 21/2 $^{+}$; from γ yield functions it follows that 829 γ is part of the yrast cascade.

[†] Assignments are from these data while those from Adopted Levels are indicated.

[‡] From DSAM analysis (**1981Ek01**), unless indicated otherwise.

 $^{86}\text{Kr}(\alpha,3n\gamma)$, $^{84}\text{Kr}(\alpha,n\gamma)$ 1981Ek01, 1975Ar06 (continued) ^{87}Sr Levels (continued)

From γ yield functions, 1975Ar06 conclude that the 1740-1091-418-142-220-829 cascade forms the yrast cascade whereby the 1740 transition is an E2 transition and the other transitions are dipole transitions.

$^{86}\text{Kr}(\alpha, 3n\gamma), ^{84}\text{Kr}(\alpha, n\gamma)$ **1981Ek01, 1975Ar06 (continued)**
 $\gamma(^{87}\text{Sr})$
coin: from [1981Ek01](#).

E_γ^{\dagger}	I_γ^{\ddagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.#	$\delta^{\#}$	α^d	Comments
141.5 2	14 5	3390.9	(19/2) ⁻	3249.4	(17/2) ⁻	(D) ^a			
220.0 2	1.6 2	3610.9	(21/2)	3390.9	(19/2) ⁻	(D) ^a			
235.2@ 4	2.2	2831.2	15/2 ⁻	2596.0	13/2 ⁻				
327.1 3	1.85 8	3718.0	(19/2)	3390.9	(19/2) ⁻				E_γ : Not reported by 1981Ek01 . From $I\gamma(235\gamma)/I\gamma(1091\gamma)=0.067$ in 1975Ar06 . $A_2=-0.29$ 11, $A_4=0$ (1975Ar06). $A_2=+0.39$ 5, $A_4=-0.10$ 7.
355.1 2	17.9 5	1228.36	5/2 ⁺	873.29	3/2 ⁻	E1(+M2)	+0.07 +2-5	0.00280 11	$B(E1)(W.u.)=(0.0012 4)$; $B(M2)(W.u.)=(2.1\times 10^2 14)$ $B(E1)(W.u.)=0.0012 4$ $\alpha(K)=0.00248 9$; $\alpha(L)=0.000270 11$; $\alpha(M)=4.52\times 10^{-5}$ 18 $\alpha(N)=5.65\times 10^{-6}$ 23; $\alpha(O)=3.60\times 10^{-7}$ 14 $A_2=-0.106$ 18, $A_4=-0.005$ 21. Pol=+0.25 5.
380.8 3	11 4	1254.0	5/2 ⁻	873.29	3/2 ⁻				Mult.: M2 exceeds RUL by 1 to 2 σ . Using the minimum δ and maximum $T_{1/2}$, $B(M2)(W.u.)>12$, while the maximum δ and minimum $T_{1/2}$ yields $B(M2)(W.u.)<575$. The RUL limit is 1.
388.6@ ^b 2		388.54	1/2 ⁻	0.0	9/2 ⁺	M4			Mult.: From Adopted Levels.
418.2 2	20.0 6	3249.4	(17/2) ⁻	2831.2	15/2 ⁻	M1+E2		0.0052 12	$\alpha(K)=0.0046$ 11; $\alpha(L)=0.00052$ 13; $\alpha(M)=8.7\times 10^{-5}$ 22 $\alpha(N)=1.1\times 10^{-5}$ 3; $\alpha(O)=6.7\times 10^{-7}$ 14 $A_2=-0.239$ 16, $A_4=-0.007$ 20. Pol=-0.29 5.
484.9@ ^b 3	123 4	873.29	3/2 ⁻	388.54	1/2 ⁻	M1+E2	+0.19 5	0.00286 5	$\alpha(K)=0.00253$ 5; $\alpha(L)=0.000277$ 5; $\alpha(M)=4.66\times 10^{-5}$ 8 $\alpha(N)=5.85\times 10^{-6}$ 10; $\alpha(O)=3.81\times 10^{-7}$ 6 $A_2=-0.018$ 18, $A_4=-0.023$ 22. Pol=-0.14 2.
517.3& 10	10 3	1770.7	5/2 ⁺	1254.0	5/2 ⁻				
521.0& 7	3.6 2	3117.4	13/2 ⁻	2596.0	13/2 ⁻	M1+E2	+0.29 16	0.00245 9	$\alpha(K)=0.00217$ 8; $\alpha(L)=0.000238$ 10; $\alpha(M)=3.99\times 10^{-5}$ 16 $\alpha(N)=5.01\times 10^{-6}$ 19; $\alpha(O)=3.26\times 10^{-7}$ 11 $A_2=+0.50$ 8, $A_4=-0.09$ 8. Pol=+0.37 23.
542.3 3	15.1 5	1770.7	5/2 ⁺	1228.36	5/2 ⁺	M1(+E2)	-0.04 8	0.00217 4	$\alpha(K)=0.00192$ 3; $\alpha(L)=0.000210$ 4; $\alpha(M)=3.52\times 10^{-5}$ 6 $\alpha(N)=4.43\times 10^{-6}$ 7; $\alpha(O)=2.90\times 10^{-7}$ 5 $A_2=+0.139$ 18, $A_4=-0.018$ 22. Pol=+0.25 7.
581.3 5	5.7 2	3117.4	13/2 ⁻	2536.3	11/2 ⁻	M1+E2	+0.047 +12-23	0.00185	$\alpha(K)=0.001640$ 24; $\alpha(L)=0.000179$ 3;

⁸⁶Kr(α ,3n γ), ⁸⁴Kr(α ,n γ) 1981Ek01,1975Ar06 (continued) γ (⁸⁷Sr) (continued)

E_γ^{\dagger}	I_γ^{\ddagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	$\delta^{\#}$	α^d	Comments
691.8 4	9 3	1919.9	7/2 ⁺	1228.36	5/2 ⁺				$\alpha(M)=3.00\times 10^{-5}$ 5 $\alpha(N)=3.77\times 10^{-6}$ 6; $\alpha(O)=2.47\times 10^{-7}$ 4 $A_2=-0.21$ 4, $A_4=0.00$ 4. Pol=-0.68 15.
787.0 4	8.1 3	2706.9	7/2 ⁺ ,9/2 ⁺	1919.9	7/2 ⁺	M1(+E2)	0.00 9	9.39×10^{-4}	$\alpha(K)=0.000832$ 12; $\alpha(L)=8.99\times 10^{-5}$ 13; $\alpha(M)=1.509\times 10^{-5}$ 22 $\alpha(N)=1.90\times 10^{-6}$ 3; $\alpha(O)=1.249\times 10^{-7}$ 18 $A_2=-0.312$ 23, $A_4=-0.012$ 27. Pol=-0.41 15.
^x 806.8 @ 6									
829.4 @ 8		4440.3	(23/2)	3610.9	(21/2)	(D) ^a			$A_2=-0.25$ 22, $A_4=0$ (1975Ar06). $\alpha(K)=0.00031$ 6; $\alpha(L)=3.4\times 10^{-5}$ 6; $\alpha(M)=5.7\times 10^{-6}$ 10 $\alpha(N)=7.1\times 10^{-7}$ 13; $\alpha(O)=4.6\times 10^{-8}$ 8
855.9 3	37.9 11	2596.0	13/2 ⁻	1740.0	13/2 ⁺	E1+(M2)	-0.10 12	0.00035 6	$A_2=+0.299$ 24, $A_4=+0.001$ 28. Pol=-0.62 9.
+									
865.4 @ ^b 4	64.4 19	1254.0	5/2 ⁻	388.54	1/2 ⁻	E2		8.17×10^{-4}	$\alpha(K)=0.000723$ 11; $\alpha(L)=7.93\times 10^{-5}$ 12; $\alpha(M)=1.331\times 10^{-5}$ 19 $\alpha(N)=1.666\times 10^{-6}$ 24; $\alpha(O)=1.068\times 10^{-7}$ 15 $A_2=+0.190$ 20, $A_4=-0.031$ 24. Pol=+0.30 4. δ : $\delta(M3/E2)=0.00 +11-27$.
882.0 & 8	10 3	3035.5		2153.5	(11/2) ⁺				
911.5 5	6.2 3	2682.2	(3/2) ⁺	1770.7	5/2 ⁺	M1+E2	-0.5 +3-13	6.90×10^{-4} 24	$\alpha(K)=0.000611$ 21; $\alpha(L)=6.6\times 10^{-5}$ 3; $\alpha(M)=1.11\times 10^{-5}$ 5 $\alpha(N)=1.40\times 10^{-6}$ 6; $\alpha(O)=9.14\times 10^{-8}$ 24 $A_2=+0.08$ 4, $A_4=-0.01$ 5. Pol=-0.04 17.
^x 1034.4 @ 8									
1050.5 5	7.5 3	2821.2	(9/2) ⁺	1770.7	5/2 ⁺	E2		5.17×10^{-4}	$\alpha(K)=0.000458$ 7; $\alpha(L)=4.98\times 10^{-5}$ 7; $\alpha(M)=8.35\times 10^{-6}$ 12 $\alpha(N)=1.047\times 10^{-6}$ 15; $\alpha(O)=6.78\times 10^{-8}$ 10 $A_2=+0.30$ 3, $A_4=-0.01$ 4. Pol=0.29 16.
1091.3 3	32.9 12	2831.2	15/2 ⁻	1740.0	13/2 ⁺	E1(+M2)	+0.012 17	2.11×10^{-4}	$\alpha(K)=0.000188$ 3; $\alpha(L)=2.00\times 10^{-5}$ 3; $\alpha(M)=3.35\times 10^{-6}$ 5 $\alpha(N)=4.22\times 10^{-7}$ 6; $\alpha(O)=2.76\times 10^{-8}$ 4 $A_2=-0.256$ 16, $A_4=-0.021$ 20. Pol=+0.39 5. δ : $\delta(M2/E1)=+0.012$ 17.

⁸⁶Kr(α ,3n γ), ⁸⁴Kr(α ,n γ) 1981Ek01,1975Ar06 (continued)

<u>$\gamma^{(87}\text{Sr})$ (continued)</u>										
E_γ^{\dagger}	I_γ^{\ddagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	$\delta^{\#}$	α^d	Comments	
1166.9 & 12	10.5 4	2420.4	(5/2) ⁻	1254.0	5/2 ⁻	D+Q			$A_2=+0.36$ 3, $A_4=-0.03$ 4. Pol=-0.51 25.	
1228.5 @b 4	100 3	1228.36	5/2 ⁺	0.0	9/2 ⁺	E2		3.78×10^{-4}	$\alpha(K)=0.000324$ 5; $\alpha(L)=3.50 \times 10^{-5}$ 5; $\alpha(M)=5.88 \times 10^{-6}$ 9 $\alpha(N)=7.38 \times 10^{-7}$ 11; $\alpha(O)=4.81 \times 10^{-8}$ 7; $\alpha(IPF)=1.261 \times 10^{-5}$ 19 $A_2=+0.107$ 16, $a_4=-0.024$ 20. Pol=+0.14 3.	
1236.5 4	8.9 4	2109.8	3/2 ⁻	873.29	3/2 ⁻	M1+E2		3.73×10^{-4}	$\alpha(K)=0.000320$ 5; $\alpha(L)=3.44 \times 10^{-5}$ 5; $\alpha(M)=5.77 \times 10^{-6}$ 9 $\alpha(N)=7.26 \times 10^{-7}$ 11; $\alpha(O)=4.76 \times 10^{-8}$ 7; $\alpha(IPF)=1.25 \times 10^{-5}$ 16 $A_2=+0.15$ 4, $A_4=-0.10$ 4. Pol=+0.15 19.	
1295.5 ^e 3	5 ^{ec} 4	2168.8	(1/2) ⁺	873.29	3/2 ⁻					
1295.5 ^e 3	10 ^{ec} 3	3035.5		1740.0	13/2 ⁺					
1321.6 7	14.1 6	2550.0	(7/2) ⁺	1228.36	5/2 ⁺	M1+E2		3.43×10^{-4} 6	$\alpha(K)=0.000278$ 4; $\alpha(L)=2.99 \times 10^{-5}$ 5; $\alpha(M)=5.02 \times 10^{-6}$ 7 $\alpha(N)=6.32 \times 10^{-7}$ 9; $\alpha(O)=4.15 \times 10^{-8}$ 7; $\alpha(IPF)=2.9 \times 10^{-5}$ 4 $A_2=-0.166$ 22, $A_4=0.007$ 27. Pol=+0.07 12.	
1546.7 & 10	8 3	2420.4	(5/2) ⁻	873.29	3/2 ⁻					
1739.8 4	165 5	1740.0	13/2 ⁺	0.0	9/2 ⁺	E2		3.67×10^{-4}	$\alpha(K)=0.0001605$ 23; $\alpha(L)=1.718 \times 10^{-5}$ 24; $\alpha(M)=2.88 \times 10^{-6}$ 4 $\alpha(N)=3.63 \times 10^{-7}$ 5; $\alpha(O)=2.38 \times 10^{-8}$ 4; $\alpha(IPF)=0.000186$ 3 $A_2=+0.369$ 19, $A_4=-0.095$ 23. Pol=+0.62 5. δ : $\delta(M3/E2)=+0.02$ 3.	
1770.4 5	32.5 10	1770.7	5/2 ⁺	0.0	9/2 ⁺	E2		3.75×10^{-4}	$\alpha(K)=0.0001552$ 22; $\alpha(L)=1.661 \times 10^{-5}$ 24; $\alpha(M)=2.79 \times 10^{-6}$ 4 $\alpha(N)=3.51 \times 10^{-7}$ 5; $\alpha(O)=2.31 \times 10^{-8}$ 4; $\alpha(IPF)=0.000200$ 3 $A_2=+0.059$ 16, $A_4=-0.033$ 20. Pol=+0.10 18.	
1919.4 6	44.5 13	1919.9	7/2 ⁺	0.0	9/2 ⁺	M1+E2	+0.70 5	3.96×10^{-4}	$\alpha(K)=0.0001344$ 19; $\alpha(L)=1.433 \times 10^{-5}$ 20; $\alpha(M)=2.40 \times 10^{-6}$ 4 $\alpha(N)=3.03 \times 10^{-7}$ 5; $\alpha(O)=2.00 \times 10^{-8}$ 3; $\alpha(IPF)=0.000244$ 4 $A_2=-0.537$ 14, $A_4=0.003$ 16. Pol=+0.07 7.	
2026.2 ^b 10	≈3	2414.7	3/2 ⁻	388.54	1/2 ⁻					
2153.5 7	46 2	2153.5	(11/2) ⁺	0.0	9/2 ⁺	M1+E2	-0.80 10	4.78×10^{-4} 8	$\alpha(K)=0.0001086$ 16; $\alpha(L)=1.156 \times 10^{-5}$ 17; $\alpha(M)=1.94 \times 10^{-6}$ 3 $\alpha(N)=2.44 \times 10^{-7}$ 4; $\alpha(O)=1.617 \times 10^{-8}$ 23; $\alpha(IPF)=0.000355$ 6 $A_2=-0.907$ 18, $A_4=0.110$ 20. Pol=+0.20 6.	

⁸⁶Kr(α ,3n γ), ⁸⁴Kr(α ,n γ) 1981Ek01, 1975Ar06 (continued) γ (⁸⁷Sr) (continued)

E_γ^{\dagger}	I_γ^{\ddagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	$\delta^{\#}$	α^d	Comments
2235.7 10	30.7 9	2235.7	9/2 ⁺	0.0	9/2 ⁺	E2(+M1)	>4	5.35×10^{-4}	$\alpha(K)=0.0001012\ 15; \alpha(L)=1.077 \times 10^{-5}\ 16;$ $\alpha(M)=1.81 \times 10^{-6}\ 3$ $\alpha(N)=2.28 \times 10^{-7}\ 4; \alpha(O)=1.502 \times 10^{-8}\ 2I;$ $\alpha(IPF)=0.000421\ 6$ $A_2=-0.142\ 20, A_4=-0.085\ 24.$ Pol=-0.35 14.
2536.7 7	30.6 12	2536.3	11/2 ⁻	0.0	9/2 ⁺	E1+M2	-0.18 +13-22	0.00101 6	$\alpha(K)=5.1 \times 10^{-5}\ 10; \alpha(L)=5.4 \times 10^{-6}\ 11;$ $\alpha(M)=9.0 \times 10^{-7}\ 18$ $\alpha(N)=1.14 \times 10^{-7}\ 23; \alpha(O)=7.5 \times 10^{-9}\ 15;$ $\alpha(IPF)=0.00095\ 8$ $A_2=-0.28\ 3, A_4=0.02\ 3.$ Pol=+0.13 12.
2555.0 7	22.5 9	2555.0	(9/2) ⁻	0.0	9/2 ⁺	E1		1.04×10^{-3}	$\alpha(K)=4.75 \times 10^{-5}\ 7; \alpha(L)=5.02 \times 10^{-6}\ 7;$ $\alpha(M)=8.41 \times 10^{-7}\ 12$ $\alpha(N)=1.059 \times 10^{-7}\ 15; \alpha(O)=7.01 \times 10^{-9}\ 10;$ $\alpha(IPF)=0.000986\ 14$ $A_2=+0.39\ 4, A_4=-0.04\ 5.$ Pol=-0.47 20. $\delta: \delta(M2/E1)=+0.03\ 3.$
2704.3 [@] 20	2704.3?			0.0	9/2 ⁺				
2920.7 12	2920.8		7/2 ⁺ , 9/2 ⁺	0.0	9/2 ⁺				
3154.9 ^{&} 15	3155.0			0.0	9/2 ⁺				

[†] Weighted average from 1981Ek01 and 1975Ar06, unless indicated otherwise.[‡] From 1981Ek01, measured at $E_\alpha=14$ MeV, unless indicated otherwise; other: 1975Ar06 values given without uncertainties.[#] From γ angular distribution and γ linear polarization at 90° (1981Ek01), unless noted otherwise.[@] From 1975Ar06 only.[&] From 1981Ek01 only.^a From γ angular distribution at $E_\alpha=14$ MeV in ⁸⁴Kr(α ,n γ) and A_2 at $E_\alpha=31$ MeV in ⁸⁶Kr(α ,3n γ) (1975Ar06).^b Used from 1977Ba61 by 1981Ek01 for internal calibration lines.^c The authors' statement that the Iy ratio from the 3035 and 2169 levels is approximately 1:2 appears to be a misprint. From their level scheme, and Iy=15 2 for the doublet, one gets Iy=10 +7-5 for placement from the 3035 level, and 5 -5+7 for placement from the 2168 level.^d Additional information 1.^e Multiply placed with intensity suitably divided.^x γ ray not placed in level scheme.

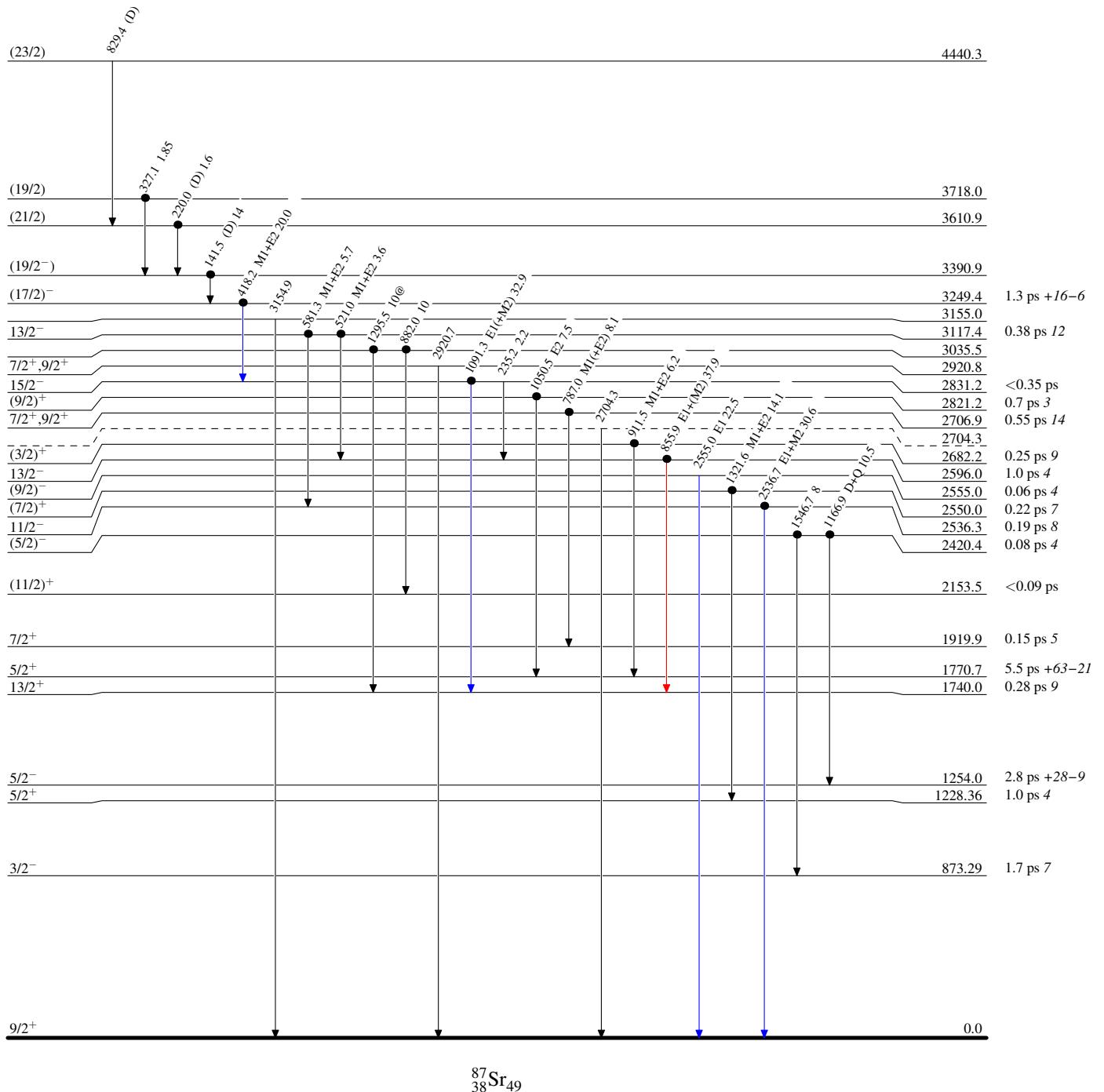
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Legend

Level Scheme

Intensities: Type not specified
 @ Multiply placed: intensity suitably divided

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



$^{86}\text{Kr}(\alpha, 3n\gamma), ^{84}\text{Kr}(\alpha, n\gamma) \quad 1981\text{Ek01}, 1975\text{Ar06}$ Level Scheme (continued)

Intensities: Type not specified
 @ Multiply placed: intensity suitably divided

Legend

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

