^{40}Ca(p,γ) 1987Zi02,1968Yo04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan	NDS 133, 1 (2016)	30-Sep-2015

2014Sc05: E(p)=1840-1847 keV. Measured yield function and $\gamma(\theta)$ for 2882γ from 2882-keV level. Deduced resonance strength using absolute strength measurement and relative to the resonance triplet at E(α)=4.5 MeV in the ^{40}Ca(α,γ) reaction.

1987Zi02: E(p)=640-3500 keV. Measured Eγ, Iγ, $\gamma(\theta)$, yield function using two HPGe detectors and two Ge(Li) detectors (one with Compton-suppression). Deduce resonance strengths.

1983Te02: E(p)=2100 − 3100 keV. Measured Eγ, Iγ, $\gamma(\theta)$, direct capture cross sections to g.s. and 1716 state using two Ge(Li) detectors.

1979Pa16 (also 1980PaZP): E(p)=500-2000 keV. Measured Eγ, Iγ using a Ge(Li) detector; deduced resonance strength of 2882-keV level.

1977Ko10: E(p)=1843 keV and 4051 keV. Measured Eγ, Iγ, $\gamma(\theta)$, γ(lin pol) using two Ge(Li) detectors and excitation functions using a NaI(Tl) detector.

1968Yo04 (also 1965Yo03,1965Yo02): E(p)=648-5191 keV. Measured γ widths and $\gamma(\theta)$ for g.s transitions by determining the positron activity of ^{41}Sc using a β-ray spectrometer consisting of two nested plastic scintillators. Also measured Eγ, Iγ, $\gamma(\theta)$ using two cylindrical NaI(Tl) crystals. $T_{1/2}$ of 1716 state measured in 1965Yo03.

1982McZV: E(p)=6035-7405. 7 states reported. Deduced upper limits on E1 and M1 strengths to g.s.

1976Fo01: E(p)=4971 − 4979 keV. Measured Eγ, Iγ, $\gamma(\theta)$, excitation function for 5937-keV level using a Ge(Li) detector.

1971ClZR: E(p)=4.8-12.5 MeV. Deduced resonances.

1966En04: E(p)=1842 keV. Measured yield function using NaI detector; deduced resonance strength of 2282-keV level.

Others: 2012Ro13, 1961Bu08.

Additional information 1.

^{41}Sc Levels

E(level)†	Jπ‡	E(p)(lab)@	(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$&	Comments
0	7/2$^-$			Jπ: from the Adopted Levels.
1716.48 *8*	3/2$^-$	647.28	0.0018	%p>98; %IT<2 (1987Zi02) E(level): from Eγ and E(p) (1987Zi02). Radiative $T_{1/2}$=0.36 ps *11* from Γ_γ=0.0013 eV *4* (1965Yo03). Other: 0.30 ps from Γ_γ=0.02 eV-b (1961Bu08). C^2S=1.0 *3* relative to 1.0 for g.s. (1983Te02).
2096.0 *5*	3/2	1036.3		%p>99; %IT<1 (1987Zi02) Jπ: from $\gamma(\theta)$ in 1987Zi02.
2414.9 *5*	NOT 1/2$^-$	1363.2		%p>50; %IT<50 (1987Zi02) Jπ: from $\gamma(\theta)$ in 1987Zi02.
2588.30 *7*	5/2$^-$	1540.87	0.020 *3*	%p>90; %IT<10 (1987Zi02) Jπ: from $\gamma(\theta)$ and RUL (1968Yo04). J=9/2 also possible from $\gamma(\theta)$.
2666.84 *7*	5/2$^+$	1621.39	0.018 *2*	%p>98; %IT<2 (1987Zi02) Jπ: from $\gamma(\theta)$ and RUL (1968Yo04). J=3/2,9/2 also possible from $\gamma(\theta)$.
2719.38 *9*		1675.24	0.004 *1*	
2882.47 *8*	7/2$^+$	1842.66	0.384 *34*	%IT=41 *2*; %p=59 *2* (1987Zi02) Jπ: 7/2 from $\gamma(\theta)$ in 1977Ko10; E1(+M2) 2282γ to 7/2$^-$ from γ(lin pol) gives π=+. (2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$: from 2014Sc05 measured both absolute and relative to the ^{40}Ca(α,γ) reaction. Others: 0.28 *4* (2012Ro13), 0.28 *5* (1979Pa16), 0.28 *4* (1977Ko10), 0.39 *9* (1968Yo04), 0.26 *4* (1966En04), 0.30 *+30−16* (1961Bu08).
2972.3 *2*	7/2$^-$	1934.5	0.062 *8*	Jπ: from $\gamma(\theta)$ and RUL (1968Yo04). J=9/2 also possible from $\gamma(\theta)$.
3014 *4*		1977		%p>99; %IT<1 (1987Zi02)
3185.4 *2*	(5/2$^-$,9/2$^+$)	2152.9	0.20 *3*	%p>92; %IT<8 (1987Zi02) Jπ: from $\gamma(\theta)$ and RUL (1968Yo04).
3358.1 *7*	(11/2$^+$)			E(level): seen in γ decay from 5037 level.

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^{40}Ca(p,γ) 1987Zi02,1968Yo04 (continued)

^{41}Sc Levels (continued)

E(level)[†]	J$^\pi$[‡]	Γ[#]	E(p)(lab)[@]	(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$[&]	Comments
					J$^\pi$: J^π>5/2 from $\gamma(\theta)$ in 1977Ko10.
3411.8 *4*	1/2$^+$		2385.0	0.012 *4*	J$^\pi$: from 1983Te02. (2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$: other: 0.006 *4* (1983Te02).
3470 *5*	1/2$^-$		2445	0.11 *7*	J$^\pi$,E(p)(lab),(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$: from 1983Te02.
3563.0 *3*			2540.0	0.023 *5*	
3678 *3*				0.007	
3697.1 *3*	7/2$^+$		2677.4	0.30 *4*	J$^\pi$: from $\gamma(\theta)$ and RUL (1987Zi02). J$^\pi$: other: 7/2$^-$ favored by RUL in 1968Yo04.
3775 *4*	3/2$^-$		2755		
3781.2 *2*	(5/2$^+$)		2763.5	0.110 *15*	
3969	1/2$^+$		2957	0.016 *6*	J$^\pi$,E(p)(lab),(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$: from 1983Te02.
4023.3 *4*	7/2$^-$		3011.7	0.077 *11*	J$^\pi$: from $\gamma(\theta)$ and RUL in 1968Yo04.
4030.7 *6*	7/2$^-$		3019.3	0.091 *14*	J$^\pi$: from $\gamma(\theta)$ and RUL (1987Zi02).
4245 *4*	5/2$^+$		3240	1.00	
4328 *4*			3325	0.14	
4441 *4*	(5/2$^-$,7/2$^-$)		3440	0.17	J$^\pi$: from $\gamma(\theta)$ and RUL in 1968Yo04.
4514 *4*	5/2$^-$,9/2$^+$		3515	0.36	J$^\pi$: from $\gamma(\theta)$ and RUL in 1968Yo04.
4810 *3*	(5/2$^-$,7/2$^-$,9/2$^+$)		3819	0.41	J$^\pi$: from $\gamma(\theta)$ and RUL in 1968Yo04.
4871 *6*	5/2$^+$		3881	0.030	
4953 *5*	5/2$^-$	2.4 keV *6*	3965	0.38	E(p)(lab): 3965 corresponds to 4947+4949 levels. J$^\pi$: from $\gamma(\theta)$ and RUL in 1968Yo04.
5011 *3*	7/2$^-$		4025	0.74	J$^\pi$: from $\gamma(\theta)$ and RUL in 1968Yo04.
5037.5 *14*	9/2$^+$		4051.2	2.40 *4*	E(p)(lab),(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$: from 1977Ko10. Other: E(p)=4054 (1968Yo04).
5143 *9*	(3/2$^-$)		4160	0.014	
5167 *5*			4185	1.20	
5200 *7*			4219	0.060	
5225 *9*			4244	0.030	
5324 *7*			4346	0.150	
5379 *9*	(5/2$^+$)	9.5 keV *30*	4402	0.320	
5524 *7*			4551	0.57	
5537 *9*			4564	0.095	
5568 *9*			4596	0.18	
5574 *10*	(5/2$^+$)		4602	0.12	
5653 *7*	(5/2$^-$,7/2$^-$)		4683	0.35	
5694 *10*			4724	0.060	
5710 *10*	(5/2$^-$,7/2$^-$)	11.5 keV *30*	4741	1.40	
5717 *10*			4748	0.20	
5773 *4*			4806	0.90	E(p)(lab): from 1976Fo01. E(p)=4812 *8* (1968Yo04).
5801 *8*			4835	0.12	
5810 *4*			4843	0.35	E(p)(lab): from 1976Fo01. E(p)=4850 *8* (1968Yo04).
5859 *11*	(3/2$^-$)		4894	0.11	
5872 *11*	(5/2$^-$,7/2$^-$)	9.4 keV *20*	4907	1.30	
5915 *11*			4952	0.15	
5937 *5*	(3/2$^+$,5/2$^+$)		4974	0.50 *9*	E(p)(lab),(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$: from 1976Fo01. J$^\pi$: 3/2$^+$ in the Adopted Levels. T=3/2 (1976Fo01). E(p)(lab): 4974 *4* (1976Fo01).
5973 *11*	(5/2$^-$,7/2$^-$)	4.2 keV *20*	5011		
6058 *11*		3.9 keV *10*	5098		
6086 *11*			5127		

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^{40}Ca(p,γ) 1987Zi02,1968Yo04 (continued)

^{41}Sc Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	E(p)(lab)[@]
6112 *11*		5154
6116 *11*		5158
6149 *11*	(5/2^{+})	5191

[†] From E(p)(c.m.)+S(p)(^{41}Sc) with S(p)(^{41}Sc)=1085.00 *8* (2012Wa38).
[‡] From p$\gamma(\theta)$ data of 1987Zi02 and 1968Yo04, except where noted. Additional support for J^{π} assignments provided in the comments.
[#] From 1968Yo04.
[@] Values are in keV, from 1987Zi02 up to 4 MeV, from 1968Yo04 above this energy, except where noted. The uncertainty is about the same as in the excitation energy.
[&] Values are in keV, from 1987Zi02 up to 4 MeV, from 1968Yo04 above this energy, except where noted.

^{40}Ca(p,γ) 1987Zi02,1968Yo04 (continued)

$\gamma(^{41}Sc)$

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Γ_γ[b]	Comments
1716.48	3/2$^-$	1716.4	100	0	7/2$^-$			0.0013 *4*	Γ_γ: from 1965Yo03.
2414.9	NOT 1/2$^-$	319	<8	2096.0	3/2				
		698	100	1716.48	3/2$^-$				
		2414	<5	0	7/2$^-$				
2588.30	5/2$^-$	492	<0.3	2096.0	3/2				
		872	2.4 *3*	1716.48	3/2$^-$				
		2588	97.6 *3*	0	7/2$^-$	D+Q	+1.2 *+11−6*	0.0043	Mult.,δ: from A_2=−1.02 *9*, A_4=+0.12 *17* (1968Yo04).
2666.84	5/2$^+$	571	<0.6	2096.0	3/2				
		950	4.2 *8*	1716.48	3/2$^-$				
		2667	95.8 *8*	0	7/2$^-$	D(+Q)	0.07 *+14−7*	0.0070	Mult.,δ: from A_2=−0.30 *14*, A_4=+0.39 *24* (1968Yo04).
2719.38		623	<5	2096.0	3/2				
		1003	100	1716.48	3/2$^-$				
		2719	<7	0	7/2$^-$				
2882.47	7/2$^+$	786	0.08 *3*	2096.0	3/2				
		2883.1 *5*	99.92 *3*	0	7/2$^-$	E1(+M2)	+0.05 *5*	0.048	E_γ: from 1977Ko10. Mult.: from A_2=+0.52 *3*, A_4=−0.06 *5*, POL=+0.12 *3* (1977Ko10). δ: from 1977Ko10. Other: 0.04 *+12−4* (1968Yo04).
2972.3	7/2$^-$	876	<0.2	2096.0	3/2				
		2972	100	0	7/2$^-$	D(+Q)	0.5 *+5−4*	0.010	Mult.,δ: from A_2=+0.72 *8*, A_4=−0.11 *13* (1968Yo04).
3014		917	87 *5*	2096.0	3/2				
		3013	13 *5*	0	7/2$^-$				
3185.4	(5/2$^-$,9/2$^+$)	466	<0.3	2719.38					
		597	<0.2	2588.30	5/2$^-$				
		770	<0.2	2414.9	NOT 1/2$^-$				
		1089	<0.2	2096.0	3/2				
		3185	100	0	7/2$^-$	D+Q	+0.18 *+4−5*	0.044	δ,Γ_γ: for 5/2; δ=0.035 *+17−35* and Γ_γ=0.026 eV for J=9/2 (1968Yo04). Mult.,δ: from A_2=−0.395 *17*, A_4=+0.02 *3* (1968Yo04).
3411.8	1/2$^+$	529	<3	2882.47	7/2$^+$				
		692	<3	2719.38					
		745	<3	2666.84	5/2$^+$				
		823	<2	2588.30	5/2$^-$				
		997	<3	2414.9	NOT 1/2$^-$				
		1695	100	1716.48	3/2$^-$				
		3411	<2	0	7/2$^-$				
3470	1/2$^-$	1759	100	1716.48	3/2$^-$				
		3475	<4	0	7/2$^-$				
3563.0		1846	100	1716.48	3/2$^-$				
		3563	<13	0	7/2$^-$				
3678		1961	36 *12*	1716.48	3/2$^-$				
		3678	64 *12*	0	7/2$^-$				
3697.1	7/2$^+$	684	<0.1	3014					

^{40}Ca(p,γ) 1987Zi02,1968Yo04 (continued)

$\gamma(^{41}Sc)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Γ_γ[b]	Comments
3697.1	7/2$^+$	814	3.1 *4*	2882.47	7/2$^+$				
		1030	4.1 *2*	2666.84	5/2$^+$	D+Q	0.26 *18*		Mult.,δ: from A_2=−0.9 *3*, A_4=+0.5 *5* (1987Zi02).
		1109	<0.1	2588.30	5/2$^-$				
		1282	<0.1	2414.9	NOT 1/2$^-$				
		1601	1.0 *1*	2096.0	3/2				
		3697	91.8 *4*	0	7/2$^-$	D(+Q)	0.06 *10*	0.070	Mult.,δ: from A_2=+0.44 *4*, A_4=−0.10 *4* (1987Zi02). Other: A_2=+0.54 *3*, A_4=−0.01 *5*, δ=0.07 *+71−7* (1968Yo04).
3775	3/2$^-$	3775	100	0	7/2$^-$	D(+Q)	0.00 *11*	0.025	Mult.,δ: from A_2=−0.14 *5*, A_4=−0.03 *8* (1968Yo04).
3781.2	(5/2$^+$)	768	1 *1*	3014					
		898	2 *1*	2882.47	7/2$^+$				
		1062	1 *1*	2719.38					
		1114	6 *1*	2666.84	5/2$^+$				
		1193	1 *1*	2588.30	5/2$^-$				
		1685	2 *1*	2096.0	3/2				
		2064	20 *1*	1716.48	3/2$^-$				
		3781	67 *3*	0	7/2$^-$				
4023.3	7/2$^-$	1140	<0.7	2882.47	7/2$^+$				
		1304	<0.5	2719.38					
		1356	24 *1*	2666.84	5/2$^+$				
		1434	2.0 *5*	2588.30	5/2$^-$				
		1927	0.5 *5*	2096.0	3/2				
		2306	2.3 *6*	1716.48	3/2$^-$				
		4023	71 *1*	0	7/2$^-$	D+Q	+1.1 *4*	0.016	Mult.,δ: A_2=+0.506 *15*, A_4=−0.332 *22* (1968Yo04).
4030.7	7/2$^-$	1148	<0.4	2882.47	7/2$^+$				
		1442	<0.3	2588.30	5/2$^-$				
		1934	<0.2	2096.0	3/2				
		2314	2.0 *6*	1716.48	3/2$^-$				
		4030	98.0 *6*	0	7/2$^-$	D+Q	−1.14 *15*	0.025	Mult.,δ: from A_2=+0.46 *4*, A_4=−0.27 *4* (1987Zi02). Other: A_2=+0.45 *4*, A_4=−0.02 *5*, δ=0.05 *+120−5* (1968Yo04).
4245	5/2$^+$	1232	15 *1*	3014					
		1363	11.7 *6*	2882.47	7/2$^+$				
		1526	<0.1	2719.38					
		1578	4.3 *3*	2666.84	5/2$^+$	D+Q	+0.14 *9*		Mult.,δ: from A_2=+0.36 *7*, A_4=−0.21 *9* (1987Zi02). Other: δ=−1.8 *3* is alternative solution to $\gamma(\theta)$ (1987Zi02).
		1657	0.4 *1*	2588.30	5/2$^-$				
		1830	0.6 *2*	2414.9	NOT 1/2$^-$				
		2149	51 *1*	2096.0	3/2	D+Q	0.06 *2*		Mult.,δ: A_2=−0.54 *2*, A_4=+0.02 *2* (1987Zi02).
		2529	0.2 *2*	1716.48	3/2$^-$				
		4245	16.8 *5*	0	7/2$^-$	D(+Q)	0.03 *5*	0.051	Mult.,δ: from A_2=−0.10 *4*, A_4=+0.01 *5* (1987Zi02). Other: +0.035 *+110−35* (1968Yo04).
4328		1661	<1	2666.84	5/2$^+$				
		1740	18.5 *14*	2588.30	5/2$^-$				
		1913	<0.9	2414.9	NOT 1/2$^-$				

$^{41}_{21}Sc_{20}$-5

^{40}Ca(p,γ) 1987Zi02,1968Yo04 (continued)

γ(^{41}Sc) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Γ_γ[b]	Comments
4328		2232	<0.6	2096.0	3/2				
		4328	81.5 *14*	0	$7/2^-$				
4441	$(5/2^-,7/2^-)$	1255	21.0 *15*	3185.4	$(5/2^-,9/2^+)$				
		1558	8 *2*	2882.47	$7/2^+$				
		1721	<0.7	2719.38					
		1773	32.4 *17*	2666.84	$5/2^+$				
		1852	<0.7	2588.30	$5/2^-$				
		4440	38.6 *18*	0	$7/2^-$				A_2=+0.48 *23*, A_4=+0.41 *34* (1968Yo04).
4514	$5/2^-,9/2^+$	4514[a]		0	$7/2^-$	D+Q		0.083	Mult.: from A_2=−0.394 *24*, A_4=+0.013 *23* (1968Yo04). δ,Γ_γ: δ=0.16 *+5−4* and Γ_γ = 0.083 eV for J=5/2 and δ=0.035 *+18−35* and Γ_γ=0.050 eV for J=9/2 (1968Yo04).
4810	$(5/2^-,7/2^-,9/2^+)$	4810[a]		0	$7/2^-$	D+Q	0.17 *12*	0.093	Mult.,δ: from A_2=−0.408 *23*, A_4=+0.03 *3* (1968Yo04). δ,Γ_γ: for J=5/2; δ=0.035 *+9−35* and I(γ+ce)=0.056 eV for J=9/2 (1968Yo04).
4871	$5/2^+$	4871		0	$7/2^-$			0.007	
4953	$5/2^-$	4953		0	$7/2^-$	D+Q	+0.25 *9*	0.088	Mult.,δ: from A_2=−0.51 *8*, A_4=+0.01 *10* (1968Yo04).
5011	$7/2^-$	5011[a]		0	$7/2^-$	D+Q	0.81 *16*	0.13	Mult.,δ: from A_2=+0.56 *4*, A_4=−0.16 *5* (1968Yo04).
5037.5	$9/2^+$	1678.8[@] *5*	2.7[@] *5*	3358.1	$(11/2^+)$				A_2=−0.17 *18*, A_4=+0.07 *19* (1977Ko10).
		2153.9[@] *5*	26[@] *2*	2882.47	$7/2^+$	D+Q	+0.017 *+22−7*		Mult.,δ: from A_2=−0.27 *4*, A_4=−0.02 *4* (1977Ko10).
		5036.9[@] *5*	72[@] *2*	0	$7/2^-$	D+Q	+0.017 *+8−15*	0.33	Mult.,δ: from A_2=−0.28 *4*, A_4=−0.03 *4* (1977Ko10). δ: from 1977Ko10. Other:+0.035 *+260−35* (1968Yo04).
5143	$(3/2^-)$	5143		0	$7/2^-$			0.005	
5379	$(5/2^+)$	5379		0	$7/2^-$			0.072	
5574	$(5/2^+)$	5574		0	$7/2^-$			0.028	
5653	$(5/2^-,7/2^-)$	5653		0	$7/2^-$			0.081	Γ_γ: for J=5/2; 0.061 eV for J=7/2 (1968Yo04).
5710	$(5/2^-,7/2^-)$	5710		0	$7/2^-$			0.314	Γ_γ: for J=5/2; 0.236 eV for J=7/2 (1968Yo04).
5859	$(3/2^-)$	5859		0	$7/2^-$			0.036	
5872	$(5/2^-,7/2^-)$	5872		0	$7/2^-$			0.308	Γ_γ: for J=5/2; 0.231 eV for J=7/2 (1968Yo04).
5937	$(3/2^+,5/2^+)$	1690.4[&] *8*	60[&] *3*	4245	$5/2^+$	D(+Q)[&]	−0.04 *8*		δ: or −3.7 *10* for J=3/2; δ=−0.40 *6* for J=5/2 (1976Fo01). Mult.: A_2=−0.04 *2* (1976Fo01).
		2161.0[&] *15*	5[&] *3*	3781.2	$(5/2^+)$				
		2523.0[&] *24*	18[&] *3*	3411.8	$1/2^+$				
		3270.4[&] *15*	17[&] *2*	2666.84	$5/2^+$	D+Q[&]	−0.41 *16*		δ: or −1.5 *4* for J=3/2; δ=−0.13 *23* for J=5/2

^{40}Ca(p,γ) 1987Zi02,1968Yo04 (continued)

$\gamma(^{41}Sc)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Γ_γ[b]	Comments
							(1976Fo01).
							Mult.: A_2=+0.27 *21* (1976Fo01).
5937	(3/2$^+$,5/2$^+$)	3843[&c]	<13[&]	2096.0	3/2		
5973	(5/2$^-$,7/2$^-$)	5973		0	7/2$^-$	0.092	Γ_γ: for J=5/2; 0.069 eV for J=7/2 (1968Yo04).
6149	(5/2$^+$)	6149		0	7/2$^-$	0.19	

[†] From level-energy differences, rounded off to nearest keV, except where noted.
[‡] Relative branching ratios from 1987Zi02, except where noted.
[#] From $\gamma(\theta)$. Angular distrubtion coefficients provided in the comments.
[@] From 1977Ko10.
[&] From 1976Fo11. Multipolarities from $\gamma(\theta)$ measurements.
[a] From 1968Yo04.
[b] In eV from 1968Yo04, except where noted.
[c] Placement of transition in the level scheme is uncertain.

$^{41}_{21}Sc_{20}$-7

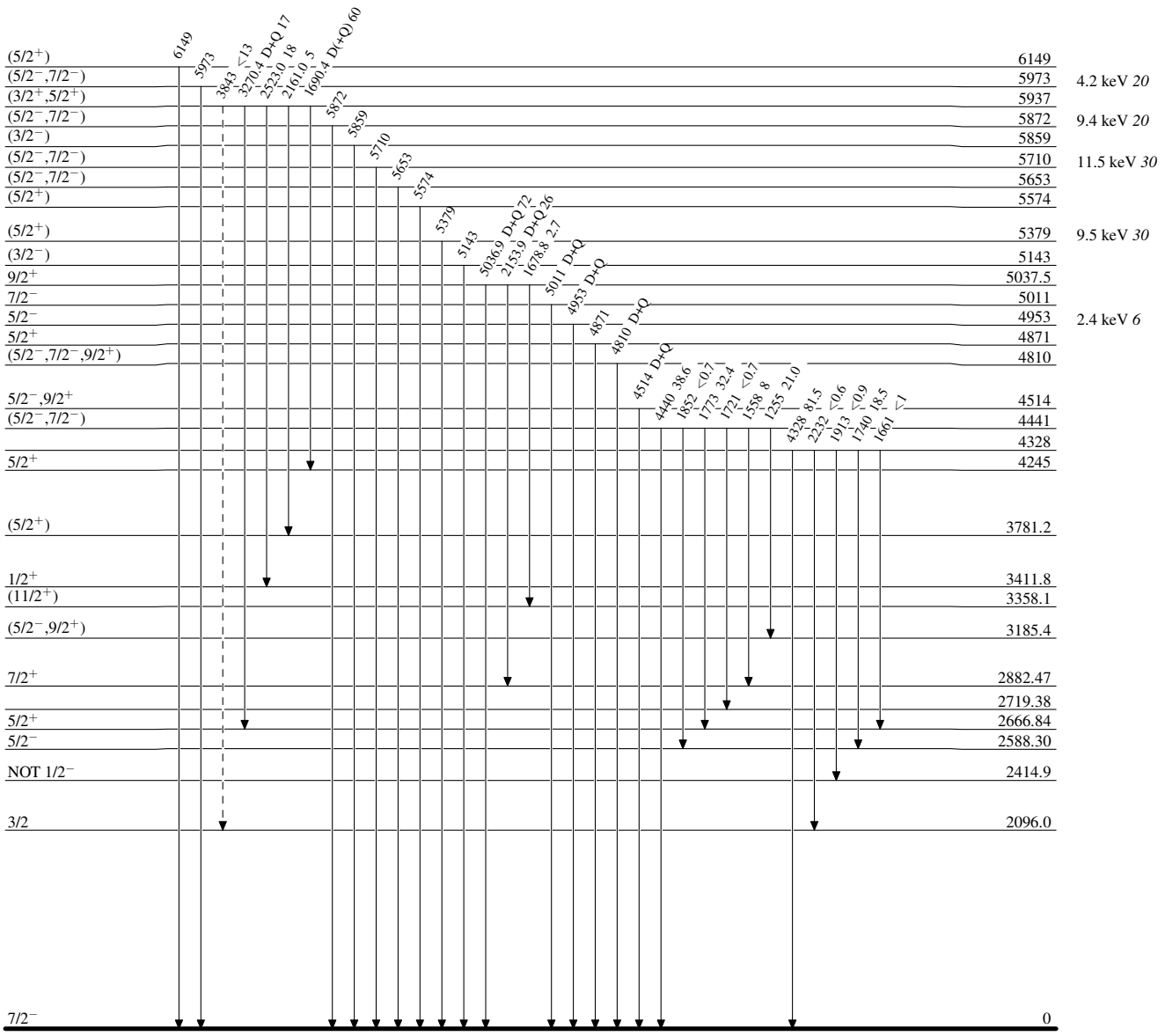
^{40}Ca(p,γ) 1987Zi02,1968Yo04

Legend

Level Scheme

Intensities: % photon branching from each level

γ Decay (Uncertain)

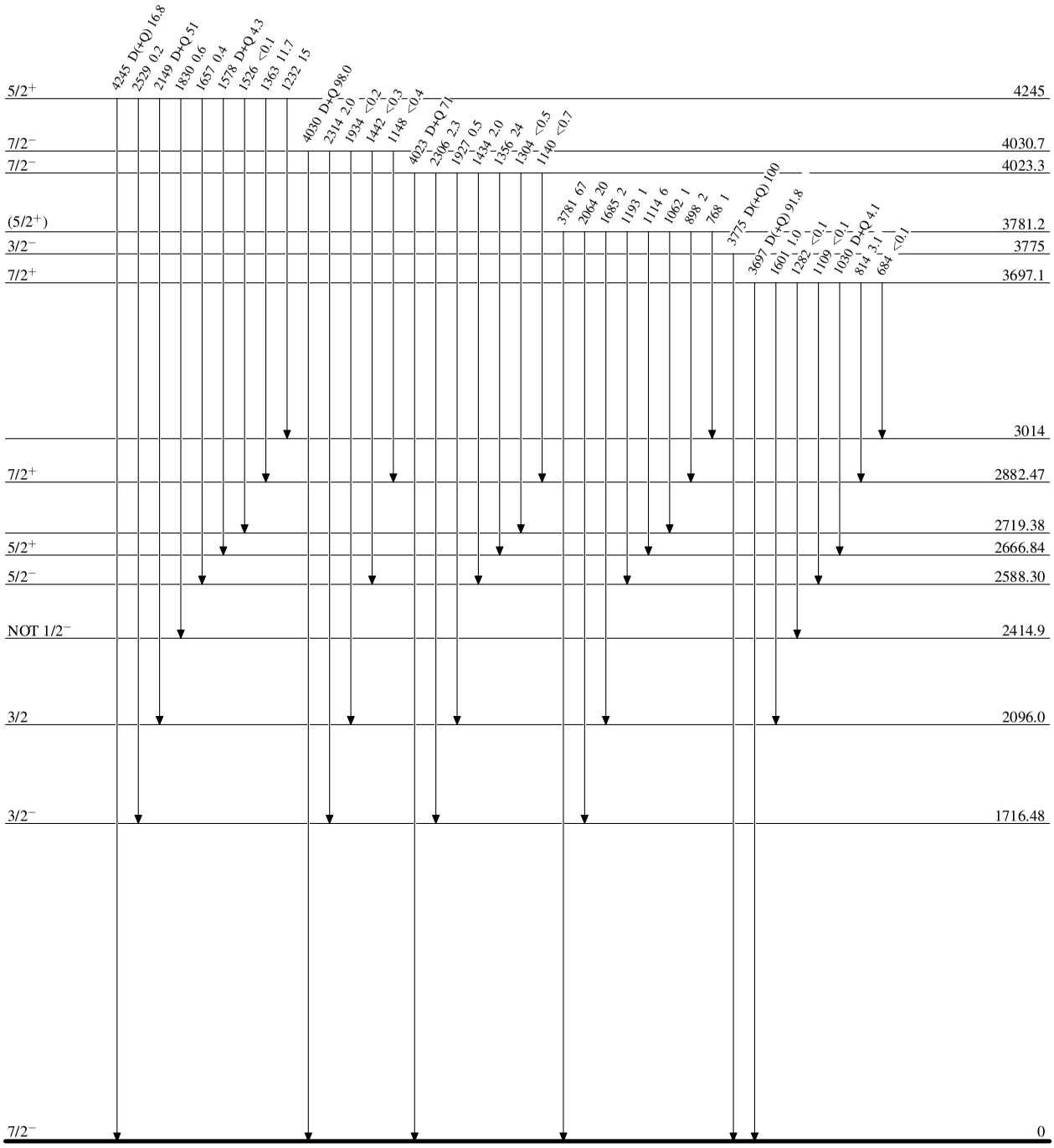


$^{41}_{21}Sc_{20}$

^{40}Ca(p,γ) 1987Zi02,1968Yo04

Level Scheme (continued)

Intensities: % photon branching from each level

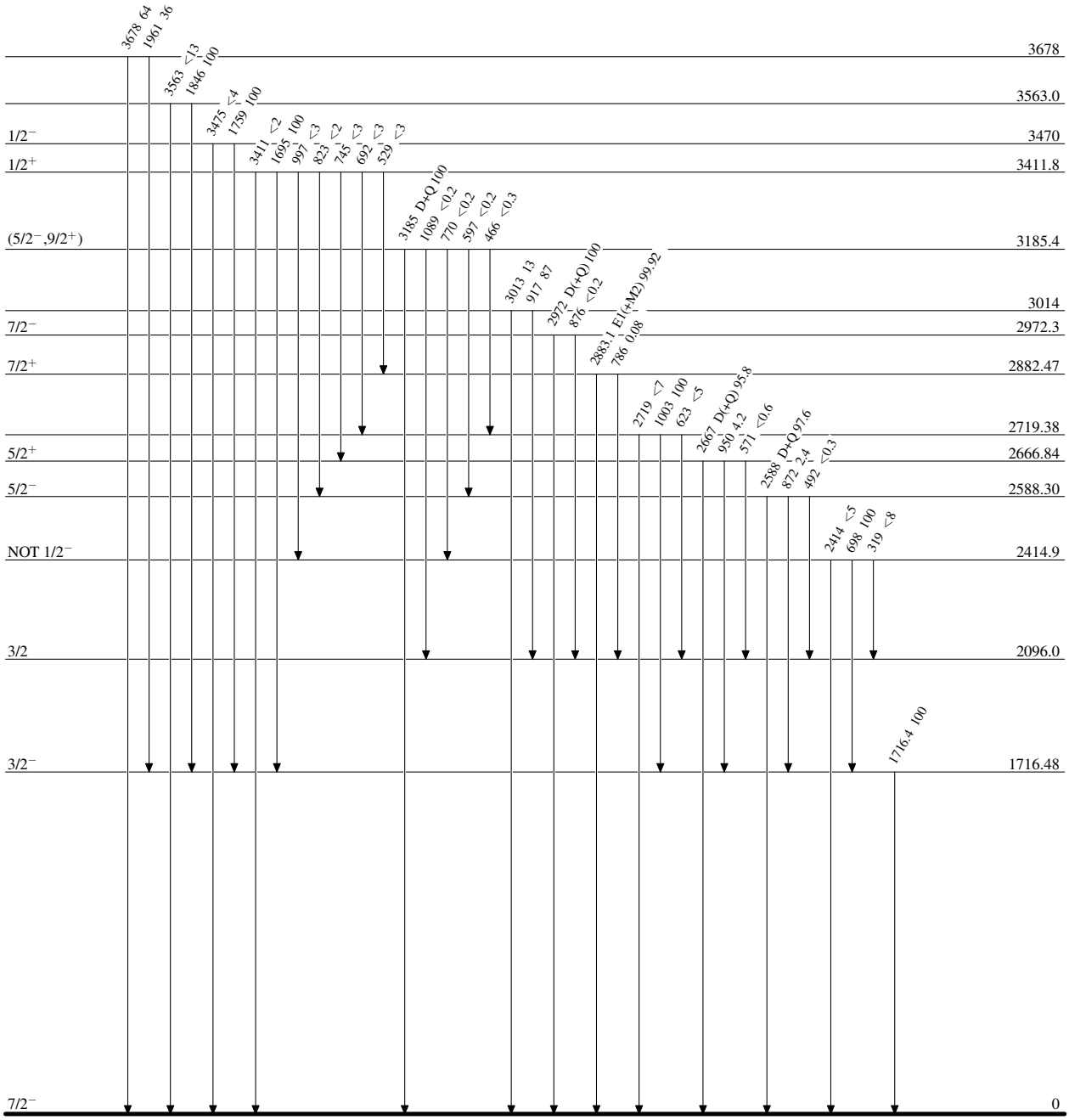


$^{41}_{21}Sc_{20}$

^{40}Ca(p,γ) 1987Zi02,1968Yo04

Level Scheme (continued)

Intensities: % photon branching from each level



$^{41}_{21}Sc_{20}$