

$^{35}\text{Cl}(\text{d},\text{p}\gamma)$ **1973Yo01**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh		NDS 113, 1 (2012)	31-Dec-2011

1973Yo01: E=3.5 MeV; measured $\text{p}\gamma$ coincidences, $T_{1/2}$ from DSAM.

Other: **2000El08**.

 ^{36}Cl Levels

E(level)	$T_{1/2}$	Comments
0		
788	2.1 ps 8	Additional information 1.
1163	2.1 ps 8	Additional information 2.
1601	0.55 ps 10	Additional information 3.
1952	1.2 ps +7-3	Additional information 4.
1960	42 fs 10	Additional information 5.
2471	326 fs 35	Additional information 6.
2492	42 fs 10	Additional information 7.
2519	52×10^2 fs +52-17	Additional information 8.
2676	<6.9 fs	Additional information 9.
2810	1.9 ps 7	Additional information 10.
2868	<10.4 fs	Additional information 11.
2896	596 fs 55	Additional information 12.
2993	62 fs 8	Additional information 13.
3100	149 fs +49-28	Additional information 14.
3205	97 fs 14	Additional information 15.
3332	73 fs 7	Additional information 16.
3473	<24 fs	Additional information 17.
3599	42 fs 14	Additional information 18.
3633	21 fs 10	Additional information 19.
3662	<55 fs	Additional information 20.
3723	49 fs 10	Additional information 21.
3833		
3965	<21 fs	Additional information 22.
3996	21 fs 7	Additional information 23.

 $\gamma(^{36}\text{Cl})$

$E_i(\text{level})$	$E_\gamma^\dagger$	I_γ	E_f	Comments
788	788	100	0	
1163	1163	100	0	
1601	1601	100	0	
1952	1164	35	788	
	1952	65	0	
1960	1172	10	788	
	1960	90	0	
2471	519	100	1952	
2492	532	12	1960	
	1329	82	1163	
	2492	15	0	
2519	1731	93	788	
	2519 ‡	7	0	possibly 2518.48 γ from 5329 level ($^{35}\text{Cl}(\text{n},\gamma)$ E=thermal).
2676	2676	100	0	
2810	291	25	2519	
	858	19	1952	
	2022	56	788	

Continued on next page (footnotes at end of table)

$^{35}\text{Cl}(\text{d},\text{p}\gamma)$ 1973Yo01 (continued) $\gamma(^{36}\text{Cl})$ (continued)

<u>$E_i(\text{level})$</u>	<u>$E_\gamma^\dagger$</u>	<u>I_γ</u>	<u>E_f</u>	<u>$E_i(\text{level})$</u>	<u>$E_\gamma^\dagger$</u>	<u>I_γ</u>	<u>E_f</u>	<u>$E_i(\text{level})$</u>	<u>$E_\gamma^\dagger$</u>	<u>I_γ</u>	<u>E_f</u>
2868	2868	100	0	3332	436	5	2896	3633	2032	15	1601
2896	936	42	1960		467	5	2868		2470	41	1163
	944	8	1952		861	13	2471		3633	27	0
	2896	50	0		1372	43	1960	3662	3662	100	0
2993	1033	10	1960		1731	24	1601	3723	913	100	2810
	1041	10	1952		2544	6	788	3833	2232	100	1601
	2993	80	0	3473	1513	37	1960	3965	2005	36	1960
3100	629	65	2471		1872	26	1601		2802	26	1163
	2312	35	788		3473	37	0		3965	38	0
3205	1253	10	1952	3599	1128	83	2471	3996	2036	100	1960
	2042	90	1163		1639	17	1960				
3332	338	4	2993	3633	1681	17	1952				

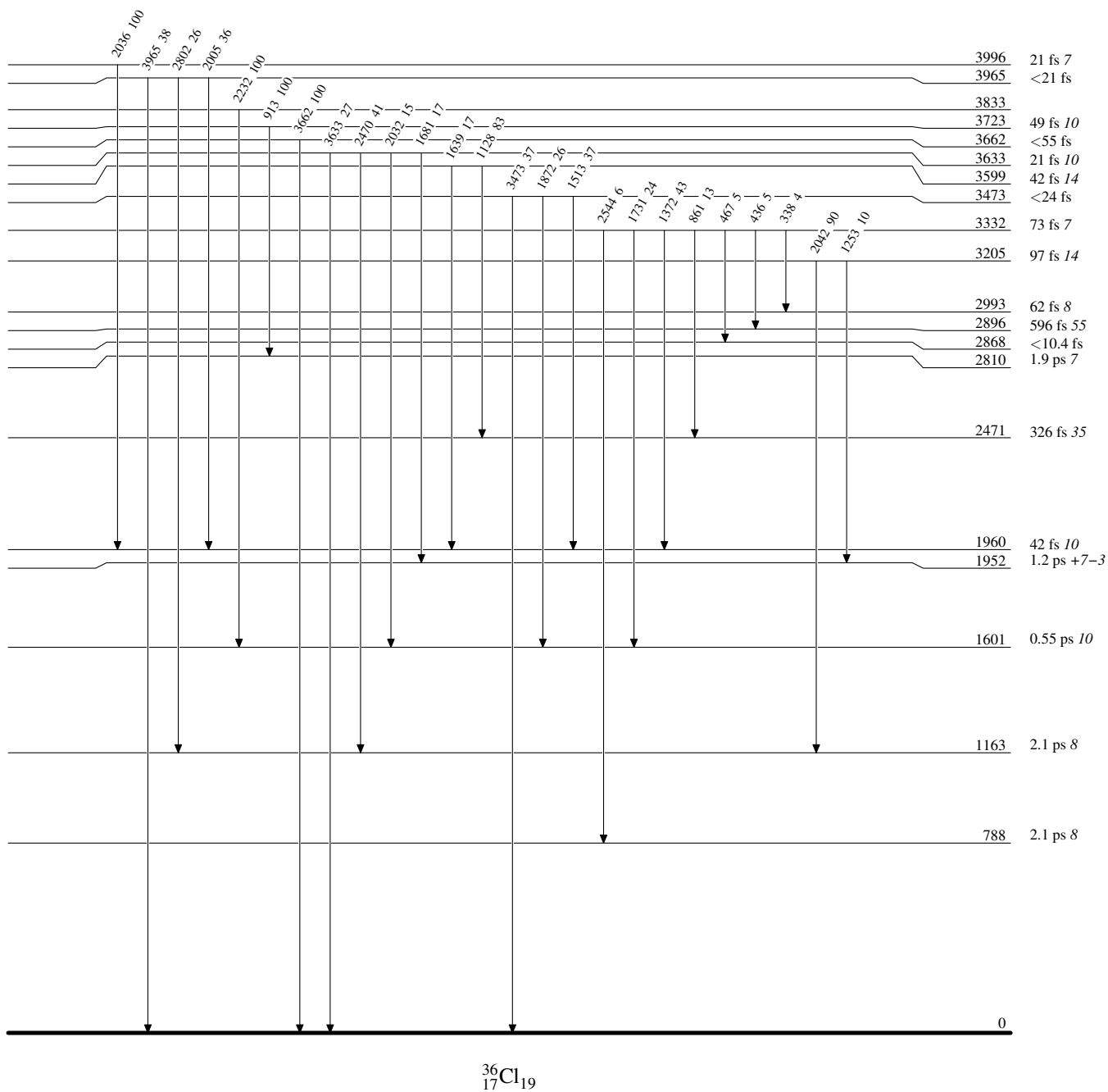
[†] From level-energy differences; level energies from table I in 1973Yo01.

[‡] Placement of transition in the level scheme is uncertain.

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Level Scheme

Intensities: % photon branching from each level

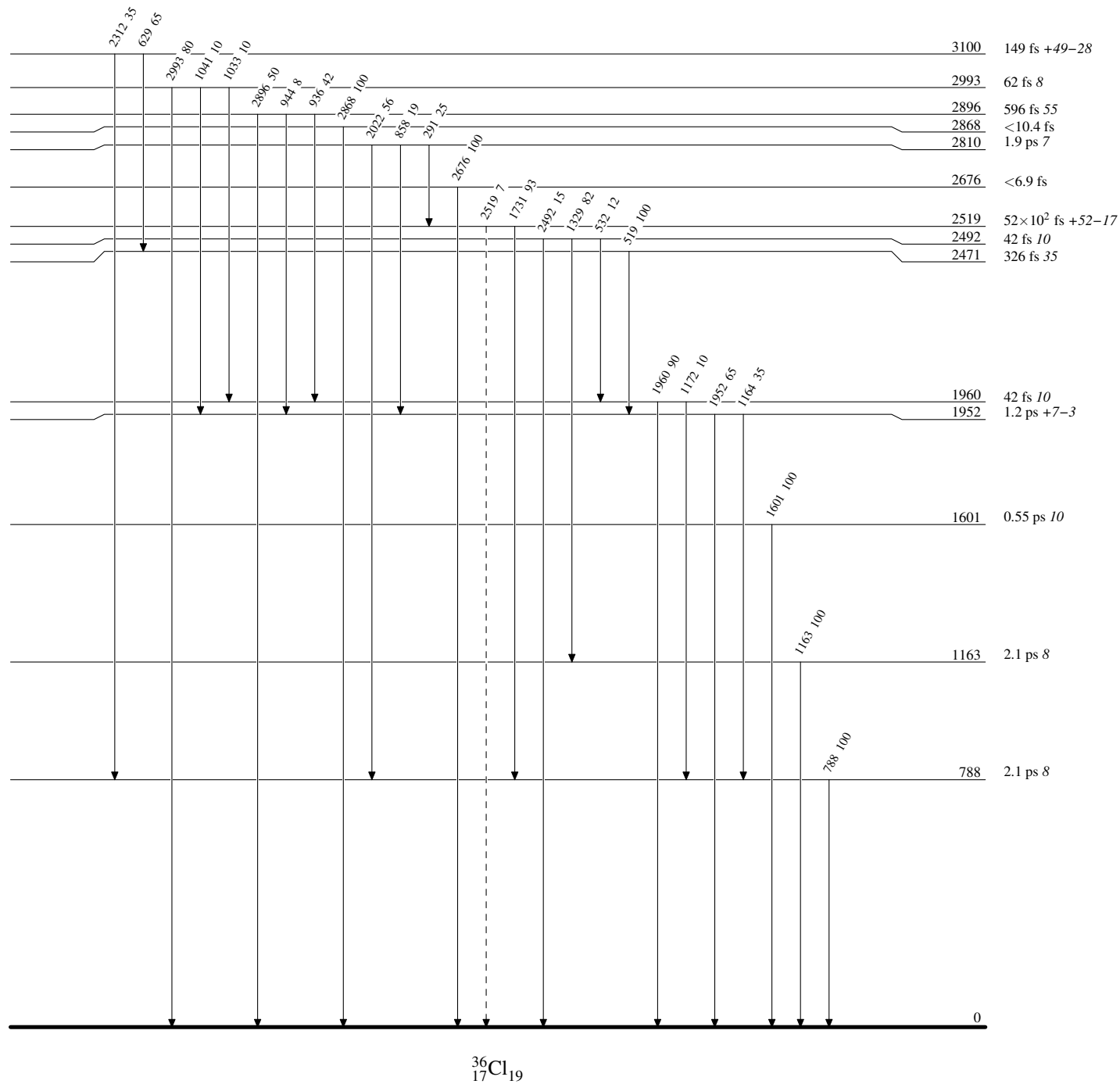


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Legend

Level Scheme (continued)

Intensities: % photon branching from each level

-----► γ Decay (Uncertain) $^{36}_{17}\text{Cl}_{19}$