

$^{26}\text{Mg}(^{14}\text{N},2\text{pn}\gamma)$ 1976Wa11

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

1975OI01, 1976Wa11: E=40 MeV ^{14}N beam produced at the Brookhaven National Laboratory. Target of ^{26}Mg . Ge(Li) detectors. Measured E_γ , I_γ , $\gamma(\theta)$, $\gamma\gamma$ -coin, γ -polarization. Deduced levels, mixing ratios, half-life using Recoil Distance Method (RDM).

 ^{37}Cl Levels

E(level) [†]	J^π [‡]	$T_{1/2}$ [#]
0	$3/2^+$	
3103.54 20	$7/2^-$	15.2 ps 28
4009.88 22	$9/2^-$	23.6 ps 14
4545.80 24	$11/2^-$	3.3 ps 8
5270.2 3	$13/2^-$	3.0 ps 10

[†] From a least-square fit to E_γ 's.

[‡] From Adopted Levels.

[#] From 1976Wa11 using RDM.

 $\gamma(^{37}\text{Cl})$

$E_i(\text{level})$	J_i^π	E_γ [†]	I_γ [†]	E_f	J_f^π	Mult.	δ	Comments
3103.54	$7/2^-$	3103.4 2		0	$3/2^+$	(Q+O)	+0.16 3	
4009.88	$9/2^-$	906.33 10	69 2	3103.54	$7/2^-$	(D+Q)	+0.54 6	$A_2=+0.38$ 2, $\text{pol}=-0.01$ 14 (1975OI01).
		4009.7	31 2	0	$3/2^+$			δ : $\delta(\text{H/O})=0.0$ 1.
4545.80	$11/2^-$	535.91 10	100	4009.88	$9/2^-$	(D+Q)	-0.02 2	$A_2=-0.24$ 1, $\text{pol}=-0.14$ 5 (1975OI01).
5270.2	$13/2^-$	724.44 15	100	4545.80	$11/2^-$	(D+Q)	+0.12 4	

[†] From 1976Wa11.

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Level Scheme

Intensities: % photon branching from each level

