

$^{36}\text{S}(^{14}\text{C},\text{p}2\text{n}\gamma)$ **1986Wa19**

Type	Author	History
Full Evaluation	T. W. Burrows	Citation
		NDS 108, 923 (2007)

E=18-38 MeV. See $^{10}\text{B}(^{40}\text{Ca},3\text{p}\gamma)$, $^{36}\text{S}(^{14}\text{C},3\text{n}\gamma)$,... for experimental details. Spectra contaminated by ^{44}Ca gammas.

 ^{47}Sc Levels

E(level)	J $^\pi$ [†]	T $_{1/2}^{\ddagger}$
0.	7/2 $^-$	
1146.99 4	11/2 $^-$	>0.83 ps
(1878.2 [†] 7)	9/2 $^-$	
2148.2 5		>4.2 ps
2641.9 5	(13/2 $^-$) [#]	0.32 ps 6
3302.5 10	(17/2) [#]	0.07 ps 3
3867.0 11	(19/2) [#]	0.21 ps 6

[†] From the Adopted Levels, except as noted.

[‡] From DSAM.

[#] Speculated by 1986Wa19. Not adopted by the evaluator.

 $\gamma(^{47}\text{Sc})$

Coincidences shown on the drawing are from the 1147+1154 and 1001 γ gates.

E $_\gamma$	I $_\gamma$ [†]	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Mult. [‡]	δ [‡]
493.66 10	124 6	2641.9	(13/2 $^-$)	2148.2		D(+Q)	0.00 6
564.46 30	254 18	3867.0	(19/2)	3302.5	(17/2)		
763.0 ^{#a}	<40	2641.9	(13/2 $^-$)	1878.2?	9/2 $^-$		
1001.2@ 5	7.0×10 ² @ 7	2148.2		1146.99	11/2 $^-$	Q&	
1146.974 40	882 18	1146.99	11/2 $^-$	0.	7/2 $^-$	Q(+O)	0.00 6
1154.3 9	412 25	3302.5	(17/2)	2148.2			
1494.9 ^{#a}	<145	2641.9	(13/2 $^-$)	1146.99	11/2 $^-$		

[†] Relative photon intensity. Renormalized by the evaluator.

[‡] From $\gamma(\theta)$. δ given for J $^\pi$ from the Adopted Levels.

[#] Calculated from decay scheme. Not observed.

[@] From $\gamma\gamma$ -coin; obscured by ^{44}Ca 1002 γ in singles.

^a If ^{44}Ca 1002 γ is pure E2.

^a Placement of transition in the level scheme is uncertain.

