

$^{12}\text{C}(\text{n},\gamma) \text{E=th}$     **1982Mu14**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. Ajzenberg-selove, J. H. Kelley and C. D. Nesaraja		NP A523, 1 (1991)	1-Jul-1990

Target  $J^\pi=0^+$ .1982Mu14: measured  $E\gamma$  and  $I\gamma$ , deduced S(n).

Evaluated S(n)=4946.31 keV (1995Au04).

 $^{13}\text{C}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>	$T_{1/2}$ <sup>‡</sup>	Comments
0.0	$1/2^-$	stable	
3089.446 16	$1/2^+$	1.07 fs 10	
3684.475 17	$1/2^-$	1.10 fs 9	
(4946.3120 23)	$1/2^+$		$J^\pi$ : from s-wave neutron capture.

<sup>†</sup> From  $E\gamma$  using least-squares fit to data.<sup>‡</sup> From 1996FiZY, except as noted. $\gamma(^{13}\text{C})$ 

$E_\gamma$ <sup>†</sup>	$I_\gamma$ <sup>#</sup> @	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$
595.013 11	0.24 1	3684.475	$1/2^-$	3089.446	$1/2^+$
1261.764 <sup>‡</sup> 12	32.36 44	(4946.3120)	$1/2^+$	3684.475	$1/2^-$
1856.716 <sup>‡</sup> 12	0.16 1	(4946.3120)	$1/2^+$	3089.446	$1/2^+$
3089.049 20	0.43 2	3089.446	$1/2^+$	0.0	$1/2^-$
3683.921 23	32.14 64	3684.475	$1/2^-$	0.0	$1/2^-$
4945.301 <sup>‡</sup> 3	67.47 92	(4946.3120)	$1/2^+$	0.0	$1/2^-$

<sup>†</sup> From 1996FiZY, except as noted.<sup>‡</sup> From level energy differences.

# Intensities per 100 neutron captures from 1982Mu14.

@ Intensity per 100 neutron captures.

