

$^{12}\text{C}(\text{p,p}), ^{12}\text{C}(\text{p},\alpha)$ 1991Aj01

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

<u>^{13}N Levels</u>				
E(level)	J^π	$T_{1/2}$	L	Comments
0				
2369 3	1/2 ⁺	31 keV	0	$\theta^2=0.54$.
3499 6	3/2 ⁻	60 keV	1	$\theta^2=0.031$.
3543 6	5/2 ⁺	50 keV	2	$\theta^2=0.21$.
6378 9	5/2 ⁺	11 keV	2	$\theta^2=0.0031$.
6896 9	3/2 ⁺	115 keV 5	2	$\theta^2=0.13$.
7155 9	7/2 ⁺	9.0 keV 5	4	$\theta^2=0.016$.
7.38×10 ³	5/2 ⁻	75 keV 5	3	$\theta^2=0.069$.
7.9×10 ³	3/2 ⁺	≈1.5 MeV	2	$\theta^2=0.14$.
8.90×10 ³	1/2 ⁻	230 keV	1	$\theta^2=0.02$.
9.49×10 ³	3/2 ⁻	30 keV	1	$\theta^2=0.001$.
10.36×10 ³	5/2 ⁻	30 keV	3	
10.36×10 ³	7/2 ⁻	76 keV	3	
11.49×10 ³ 5	5/2 ⁺	430 keV 35	2	$\Gamma_p/\Gamma=0.70$ 5
11.70×10 ³ 3	5/2 ⁻	115 keV 30	3	$\Gamma_p/\Gamma=0.60$ 4
11.74×10 ³ 4	3/2 ⁺	250 keV 30	2	$\Gamma_p/\Gamma=0.30$ 5
11.74×10 ³ 5	3/2 ⁻	530 keV 80	1	$\Gamma_p/\Gamma=0.55$ 5
11.86×10 ³ 4	1/2 ⁺	380 keV 50	0	$\Gamma_p/\Gamma=0.35$ 5
12.13×10 ³ 5	7/2 ⁻	250 keV 30	3	$\Gamma_p/\Gamma=0.30$ 5
13.5×10 ³		≈500 keV		
14.05×10 ³ 2	3/2 ⁺	180 keV 35	2	$T=1/2$; $\Gamma_p/\Gamma=0.29$ 7
15064.57 40	3/2 ⁻	0.932 keV 28	1	$T=3/2$
15.99×10 ³ 4	7/2 ⁺	135 keV 90	4	$T=1/2$; $\Gamma_p/\Gamma=0.05$ 4
16.0×10 ³		≈500 keV		
17.4×10 ³				
18.15×10 ³ 3	3/2 ⁺	322 keV 75	2	$T=1/2$; $\Gamma_p/\Gamma=0.08$ 2
18.17×10 ³ 2	1/2 ⁻	225 keV 50	1	$T=1/2$; $\Gamma_p/\Gamma=0.24$ 6
18406 5	3/2 ⁺	66 keV 8	2	$T=3/2$
18961 9	3/2 ⁻ or 7/2 ⁺	23 keV 5		$T=3/2$
19.83×10 ³	5/2 ⁻	1000 keV	3	$T=1/2$
19.88×10 ³	7/2 ⁺	750 keV	4	$T=1/2$
20.2×10 ³	5/2 ⁻	1000 keV		
20.9×10 ³ 3	1/2 ⁺	1.2 MeV		
21.4×10 ³	5/2 ⁻	750 keV		
21.7×10 ³	3/2 ⁺			
22.4×10 ³ 5	1/2 ⁺	≈1 MeV		
24.1×10 ³		<500 keV		
25.6×10 ³	(3/2 ⁻)			
26.84×10 ³				
31.×10 ³				