

$^{12}\text{C}(^{13}\text{C},\alpha\gamma)$  **1981An21**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

 $^{12}\text{C}(^{13}\text{C},\alpha\gamma)$ , E=19.7 MeV.Measured  $\alpha\gamma$ -coin, DSA. Natural targets. $^{21}\text{Ne}$  Levels

E(level) <sup>†</sup>	T <sub>1/2</sub>	E(level) <sup>†</sup>	T <sub>1/2</sub>	E(level) <sup>†</sup>	T <sub>1/2</sub>	E(level) <sup>†</sup>	T <sub>1/2</sub>
0		4526.7 9		6033.4 7	19 fs 2	7043.9 11	13 fs 3
(351)		4686.3 10	<11 fs	6174.2 17	9 fs 4	7362.7 15	<8 fs
1746.4 5	47 fs 5	4726.7 8	<8 fs	6267.4 16	<14 fs	7424.0 25	
2788.9 2		5336.0 10		6448.3 10	<14 fs	7660.4 24	<10 fs
2867.0 4	38 fs 6	5430.4 6	<8 fs	6551.9 15	<15 fs	7983 3	
3663.8 6	64 fs 8	5690.9 6	5.5 fs 24	6604 3	<9 fs	8163 4	<21 fs
3735.6 9	<10 fs	5777.0 20	<12 fs	6641.9 16	15 fs 3	8240.9 10	<10 fs
3884.5 7	26 fs 3	5818.2 10	<42 fs	6748.5 15	10 fs 3		
4433.1 7	21 fs 6	5997.0 20		7008.7 23	<12 fs		

<sup>†</sup> From  $\gamma$ -ray measurements. E<sub>γ</sub> not reported. $\gamma(^{21}\text{Ne})$ 

E <sub>γ</sub>	I <sub>γ</sub> <sup>†</sup>	E <sub>i</sub> (level)	E <sub>f</sub>	Comments
964	5 1	5690.9	4726.7	
1096	0.5 3	3884.5	2788.9	
1121	61 3	2867.0	1746.4	
1566	76 5	4433.1	2867.0	
1898	<2	4686.3	2788.9	
2149	13 2	6033.4	3884.5	
2209	18 4	6641.9	4433.1	
2516	39 3	2867.0	351?	
2687	24 5	4433.1	1746.4	
2902	53 3	5690.9	2788.9	
3013	19 3	6748.5	3735.6	
3166	47 3	6033.4	2867.0	
3400	77 16	6267.4	2867.0	I <sub>γ</sub> : Intensity relative to 5916 $\gamma$ .
3775	82 4	6641.9	2867.0	
3808	68 5	8240.9	4433.1	
4287	40 4	6033.4	1746.4	
5263	100	7008.7	1746.4	
5691	42 3	5690.9	0	
5916	100	6267.4	351?	I <sub>γ</sub> : Intensity relative to 3400 $\gamma$ .
6398	59 4	6748.5	351?	
6748	22 4	6748.5	0	




<sup>†</sup> Percent branching intensity from level, except as noted.

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## Level Scheme

Intensities: Type not specified

## Legend

-   $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
-   $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
-   $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

