

$^{10}\text{B}(^{14}\text{N}, ^{11}\text{C})$ 

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024

[1966Co27](#):  $^{10}\text{B}(^{14}\text{N}, ^{11}\text{C})$  E=16.3,19.8 MeV; the proton transfers to both the ground state and the first excited state of  $^{13}\text{C}$  were observed. Total cross sections were measured.

[1975Na15](#):  $^{14}\text{N}(^{10}\text{B}, ^{11}\text{C})$  E=100 MeV; measured  $\sigma(\theta)$ .  $^{13}\text{C}$  levels deduced S-factors. See also ([1976Na09](#): theory).

[1979Mo14](#):  $^{10}\text{B}(^{14}\text{N}, ^{13}\text{C})^{11}\text{C}$ ,  $S_1S_2=1.1$  for  $^{11}\text{C}_{\text{g.s.}}$

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

E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>	L transfer <sup>†</sup>	$C_2^2S_2$ <sup>†</sup>	Comments
0	1/2 <sup>-</sup>	1,2	0.62	E(level): also reported in ( <a href="#">1966Co27</a> ). $C_2^2S_2$ : deduced from $C_1^2S_1C_2^2S_2=0.68$ ( <a href="#">1975Na15</a> ) and assuming $C_1^2S_1$ given by ( <a href="#">1967Co32</a> ).
3090	1/2 <sup>+</sup>			E(level): Reported in ( <a href="#">1966Co27</a> ).
3680	3/2 <sup>-</sup>	0,1,2	0.22	$C_2^2S_2$ : deduced from $C_1^2S_1C_2^2S_2=0.24$ ( <a href="#">1975Na15</a> ) and assuming $C_1^2S_1$ given by ( <a href="#">1967Co32</a> ).
7550	5/2 <sup>-</sup>			
11850	7/2 <sup>+</sup>			

<sup>†</sup> From DWBA analysis of spectroscopic factors in ([1975Na15](#)).