

Table 14.7 from (1991AJ01):  $^{14}\text{C}$  states from  $^{12}\text{C}(t, p)^{14}\text{C}$  <sup>a</sup>

$E_x$ <sup>b</sup> (MeV $\pm$ keV)	$E_x$ <sup>c</sup> (MeV $\pm$ keV)	$L$ <sup>b,c</sup>	$J^\pi$
$-0.006 \pm 10$	0	0	$0^+$
$6.087 \pm 10$	$6.099 \pm 10$	1	$1^-$
$6.577 \pm 10$	$6.589 \pm 10$	0	$0^+$
$6.725 \pm 10$	$6.731 \pm 10$	3	$3^-$
$6.895 \pm 10$	$6.899 \pm 10$	weak	
$\equiv 7.012$	$7.017 \pm 10$	2	$2^+$
$7.336 \pm 10$	$7.342 \pm 10$	weak	
$8.307 \pm 12$	$8.315 \pm 10$	2	$2^+$
$9.746 \pm 7$ <sup>d</sup>		0	$0^+$
$9.809 \pm 10$ <sup>d</sup>	$9.80 \pm 20$ <sup>e</sup>	(1)	$(1^-)$
$10.425 \pm 6$ <sup>d</sup>	$10.419 \pm 20$	2	$2^+$
$10.448 \pm 10$			
$10.498 \pm 4$ <sup>d</sup>	$10.492 \pm 20$	(3)	$(3^-)$ <sup>f</sup>
$10.736 \pm 5$ <sup>d</sup>	$10.730 \pm 20$	4	$4^+$
$11.398 \pm 10$	$11.377 \pm 20$	1	$1^-$
$11.665 \pm 13$	$11.647 \pm 30$	(1)	$(1^-)$
$11.727 \pm 10$	<sup>e</sup>	(5)	$(5^-)$
$12.580 \pm 12$		(2, 3)	$(2^+, 3^+)$
$12.867 \pm 10$	$12.849 \pm 20$	2, 3	$2^+, 3^-$
$12.963 \pm 10$	$12.945 \pm 30$	(1)	$(1^-)$

<sup>a</sup> See also [Tables 14.5 in \(1976AJ04\)](#) and [14.7 in \(1981AJ01\)](#), and [\(1982FO01\)](#), and [reaction 8](#).

<sup>b</sup>  $E_t = 18$  MeV ([1978MO07](#), [1978MO08](#)).

<sup>c</sup>  $E_t = 23$  MeV ([1978AJ02](#)).

<sup>d</sup> The widths for  $^{14}\text{C}^*$  (9.75, 9.81, 10.43, 10.50, 10.74) are, respectively 18, 40, 14, 18 and 15 keV ([1978MO07](#), [1978MO08](#)).

<sup>e</sup> Very weak at all angles.

<sup>f</sup> See also the note added in proof on p. 476 of ([1978MO08](#)).