Table 13.6 from (1986AJ01): Parameters of the first $T = \frac{3}{2}$ states in ^{13}C and ^{13}N [a]

	^{13}C*(15.11)	^{13}N*(15.06)
E_x (MeV)	15.1082 ± 0.0012	15.06457 ± 0.0004
J^π	$\frac{3}{2}^-$	$\frac{3}{2}^-$
$\Gamma_{c.m.}$ (keV)	5.49 ± 0.25	0.932 ± 0.028
Γ_{γ_0} (eV)	22.4 ± 1.5 (M1), 0.6 ± 0.1 (E2)	24.2 ± 1.5 (M1) [e], 0.32 ± 0.12 (E2) [f]
Γ_{γ_1} (eV)	4.12 ± 0.74	$\leq 2.82 \pm 0.30$ [g]
$\Gamma_{\gamma_{2+3}}$ (eV)	18.2 ± 2.4	19.6 ± 1.4 [h]
Γ_{γ_0}/Γ (%)	0.396 ± 0.030 [b]	
$\Gamma_{p_0}\Gamma_{\gamma_0}/\Gamma$ (eV)		5.79 ± 0.20
$\Gamma_{\gamma_0}/\Gamma_{p_0}$ (%)		12.1 ± 1.1
Γ_{n_0} or Γ_{p_0} (keV) [c]	0.38 ± 0.10	0.228 ± 0.016 [i]
Γ_{n_1} or Γ_{p_1} (keV) [c]	1.43 ± 0.18	0.140 ± 0.014 [i]
Γ_{n_2} or Γ_{p_2} (keV) [c]	0.14 ± 0.10	0.049 ± 0.015 [i]
Γ_{p_3} (keV) [c]		0.089 ± 0.014 [i]
Γ_{p_5} (keV) [c]		0.15 ± 0.04 [i] [j]
Γ_{α_0} (keV) [d]	0.104 ± 0.028	0.046 ± 0.026 [i]
Γ_{α_1} (keV) [d]		0.036 ± 0.036 [i]
Γ_{α_2} (keV) [d]		0.067 ± 0.042 [i]

[a] For references see Table 13.7 in (1981AJ01).

[b] The decay width to ^{13}C*(7.55) is < 0.9 eV.

[c] Widths for ^{13}C*(15.11) $\rightarrow {}^{12}\mathrm{C}_{g.s.} + n_0$ or ^{13}N*(15.06) $\rightarrow {}^{12}\mathrm{C}_{g.s.} + p_0$ [n_1, p_1; n_2, p_2; and p_3 and p_5 refer to the decays to ^{12}C*(4.4, 7.7, 9.6, 10.8) respectively].

[d] Widths for ^{13}C*(15.11) $\rightarrow {}^{9}\mathrm{Be}_{g.s.} + \alpha_0$ or ^{13}N*(15.06) $\rightarrow {}^{9}\mathrm{B}_{g.s.} + \alpha_0$ [α_1 and α_2 refer to the decays to ^{9}B*((1.6), 2.4)].

[e] $\delta = -0.15 \pm 0.07$ (1978HI06). Here $\delta = B(^{13}\mathrm{C})/B(^{13}\mathrm{N}) - 1$.

[f] $\delta = 1.0 \pm 0.6$ (1978HI06).

[g] $\delta \geq 0.83 \pm 0.29$.

[h] $\delta = -0.04 \pm 0.14$.

[i] Based on measured branching ratios and on $\Gamma_{c.m.} = 0.932 \pm 0.028$ keV. See also footnote [d] in Table 13.18.

[j] The decay width to ^{12}C*(12.71) is < 0.13 keV. It is expected to be ≈ 0.03 keV. The sum of the branching ratios for all measured decays of ^{13}N*(15.06) is (92 ± 8)%. It is apparent from the character of the decay modes of this state that 2s1d shell isospin admixtures are important.