Table 14.13 from (1986AJ01): Radiative decays in ^{14}N [a]

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	$J_f^\pi; T$	Branch (%)	Γ_γ (eV)
2.31	$0^+; 1$	0	$1^+; 0$	100	$(7.2 \pm 0.8) \times 10^{-3}$
3.95	$1^+; 0$	0	$1^+; 0$	3.9 ± 0.2	(M1)$(3.6 \pm 0.7) \times 10^{-4}$
					(E2)$(2.8 \pm 0.2) \times 10^{-3}$
		2.31	$0^+; 1$	96.1 ± 0.2	0.079 ± 0.010
4.92	$0^-; 0$	0	$1^+; 0$	97 ± 3	$(8.4 \pm 1.6) \times 10^{-2}$
		2.31	$0^+; 1$	< 1	
		3.95	$1^+; 0$	[b]	
5.11	$2^-; 0$	0	$1^+; 0$	79.9 ± 1.0	(E1)$(8.00 \pm 0.18) \times 10^{-5}$ [c]
					(M2)$(2.05 \pm 0.51) \times 10^{-6}$ [c,d]
					(E3)$(1.80 \pm 0.51) \times 10^{-6}$ [c,d]
		2.31	$0^+; 1$	19.4 ± 1.2	$(2.04 \pm 0.13) \times 10^{-5}$ [c]
		3.95	$1^+; 0$	(0.7 ± 0.4)	$(7.4 \pm 4.2) \times 10^{-7}$ [c]
5.69	$1^-; 0$	0	$1^+; 0$	36.1 ± 1.2 [e]	$(0.9 \pm 0.5) \times 10^{-2}$
		2.31	$0^+; 1$	63.9 ± 1.2 [e]	$(1.7 \pm 0.8) \times 10^{-2}$
5.83	$3^-; 0$	0	$1^+; 0$	21.3 ± 1.3 [f]	(M2)$(4.8 \pm 1.4) \times 10^{-6}$ [c]
					(E3)$(6.9 \pm 1.5) \times 10^{-6}$ [c]
		5.11	$2^-; 0$	78.7 ± 1.3 [f]	(M1)$(4.32 \pm 0.11) \times 10^{-5}$ [c]
					(E2)$(7^{+8}_{-5}) \times 10^{-8}$ [c]
6.20	$1^+; 0$	0	$1^+; 0$	23.1 ± 1.9 [e]	$(0.9 \pm 0.1) \times 10^{-3}$
		2.31	$0^+; 1$	76.9 ± 2.0 [e]	$(3.2 \pm 0.4) \times 10^{-3}$
6.45	$3^+; 0$	0	$1^+; 0$	70.1 ± 1.5 [e]	$(7.4 \pm 0.7) \times 10^{-4}$ [g]
		3.95	$1^+; 0$	19.7 ± 1.0 [e]	$(2.1 \pm 0.3) \times 10^{-4}$
		5.11	$2^-; 0$	6.5 ± 0.6 [e]	$(0.7 \pm 0.1) \times 10^{-4}$
		5.83	$3^-; 0$	3.7 ± 0.6 [e]	$(0.4 \pm 0.1) \times 10^{-4}$
7.03	$2^+; 0$	0	$1^+; 0$	98.6 ± 0.3	(M1)$(7.8 \pm 1.1) \times 10^{-2}$ [h]
					(E2)$(4.3 \pm 1.0) \times 10^{-2}$
		2.31	$0^+; 1$	0.5 ± 0.1	(E2)$(6.2 \pm 1.4) \times 10^{-4}$
		3.95	$1^+; 0$	0.9 ± 0.25	$< (11 \pm 3) \times 10^{-4}$
7.97 [i]	$2^-; 0$	0	$1^+; 0$	55 ± 3	0.010
		3.95	$1^+; 0$	45 ± 3	0.008
8.06 [f]	$1^-; 1$	0	$1^+; 0$	80.3 ± 0.6	9.9 ± 2.5

Table 14.13 from (1986AJ01): Radiative decays in ^{14}N [a] (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	$J_f^\pi; T$	Branch (%)	Γ_γ (eV)
		2.31	$0^+; 1$	1.40 ± 0.14	0.17 ± 0.05
		3.95	$1^+; 0$	12.7 ± 0.4	1.56 ± 0.40
		4.92	$0^-; 0$	1.86 ± 0.14	0.23 ± 0.06
		5.11	$2^-; 0$	0.25 ± 0.14	0.03 ± 0.02
		5.69	$1^-; 0$	3.5 ± 0.4	0.43 ± 0.12
8.49 [f]	$4^-; 0$	5.11	$2^-; 0$	83 ± 3	$(6.1 \pm 1.5) \times 10^{-3}$ [j]
		5.83	$3^-; 0$	17 ± 3	$(1.3 \pm 0.4) \times 10^{-3}$ [j]
8.62	$0^+; 1$	0	$1^+; 0$	23	1.20
		3.95	$1^+; 0$	24	1.26
		5.69	$1^-; 0$	13	0.69
		6.20	$1^+; 0$	40	
8.79 [f]	$0^-; 1$	0	$1^+; 0$	90 ± 10	46 ± 12
8.91 [f]	$3^-; 1$	0	$1^+; 0$	1.6 ± 0.5	$(6.6 \pm 2.2) \times 10^{-3}$
		5.11	$2^-; 0$	5.4 ± 2.5	$(2.3 \pm 1.2) \times 10^{-2}$
		5.83	$3^-; 0$	89 ± 3	0.37 ± 0.10
		6.45	$3^+; 0$	3 ± 1	0.012 ± 0.006
		7.03	$2^+; 0$	1.4 ± 0.8	0.006 ± 0.004
8.96	$5^+; 0$	0	$1^+; 0$	< 1	
		6.45	$3^+; 0$	100	$(1.2 \pm 0.2) \times 10^{-3}$ [k]
9.13	$3^+; 0$	0	$1^+; 0$	82 ± 3	$(8.5 \pm 1.0) \times 10^{-3}$ [l]
		5.83	$3^-; 0$	9 ± 3	$(0.9 \pm 0.3) \times 10^{-3}$ [l]
		6.45	$3^+; 0$	9 ± 3	$(0.9 \pm 0.3) \times 10^{-3}$ [l]
9.17 [m]	$2^+; 1$	0	$1^+; 0$	85.9 ± 1.0 [e]	6.2 ± 0.3
		2.31	$0^+; 1$	0.86 ± 0.08 [e]	$(6.2 \pm 0.7) \times 10^{-2}$
		5.69	$1^-; 0$	0.50 ± 0.10 [e]	$(3.6 \pm 0.8) \times 10^{-2}$
		5.83	$3^-; 0$	0.62 ± 0.08 [e]	$(4.5 \pm 0.7) \times 10^{-2}$
		6.45	$3^+; 0$	8.9 ± 0.8 [e]	0.64 ± 0.07
		7.03	$2^+; 0$	3.2 ± 0.3 [e]	0.23 ± 0.03
9.51 [f]	$2^-; 1$	0	$1^+; 0$	< 0.16	< 0.008
		3.95	$1^+; 0$	6 ± 1	0.30 ± 0.09
		5.11	$2^-; 0$	78 ± 3	3.84 ± 0.97

Table 14.13 from (1986AJ01): Radiative decays in ^{14}N [a] (continued)

E_i (MeV)	$J_i^\pi; T$	E_f (MeV)	$J_f^\pi; T$	Branch (%)	Γ_γ (eV)
		5.83	$3^-; 0$	16 ± 2	0.79 ± 0.22
10.23	$1^{(-)}; 0$	2.31	$0^+; 1$	≈ 100	4 ± 1.3
10.43 [n]	$2^+; 1$	0	$1^+; 0$	81.4	10.21 ± 0.65
		5.11	$2^-; 0$	2.2	0.28 ± 0.04
		5.69	$1^-; 0$	1.9	0.24 ± 0.04
		6.45	$3^+; 0$	7.4	0.93 ± 0.12
		7.03	$2^+; 0$	7.0	0.88 ± 0.12
10.81	$5^+; 0$	6.45	$3^+; 0$	100	$(1.6 \pm 0.7) \times 10^{-2}$ [o]
11.05	3^+	0	$1^+; 0$		0.12 ± 0.02
		3.95	$1^+; 0$		0.09 ± 0.02

[a] See Table 14.11 in (1981AJ01) for the earlier references and for additional comments. See also Table 14.14 here and (1981KO08) for additional discussions.

[b] Two values have been reported: $(1.3 \pm 1.0)\%$ and $\leq 0.5\%$.

[c] (1982BH06).

[d] δ(M2/E1) $= -0.16 \pm 0.02$, δ(E3/E1) $= -0.15 \pm 0.025$: see (1981KO08).

[e] Recalculated to sum to 100%: see Table 14.11 in (1981AJ01).

[f] (1981KO08).

[g] δ(M3/E2) $= -0.004 \pm 0.010$.

[h] δ(E2/M1) $= 0.74 \pm 0.09$; and E.K. Warburton, private communication.

[i] $\Gamma_\gamma/\Gamma = (0.7 \pm 0.2)\%$; $(2J+1)\Gamma_p = 12.6 \pm 3.6$ eV; $\Gamma = 2.5 \pm 0.7$ eV.

[j] $\Gamma = (3.5 \pm 0.5) \times 10^{-2}$ eV from Table 14.14; $\Gamma_p/\Gamma = 3.7 \pm 1.1$ [see (1981AJ01)] leads to $\Gamma_\gamma = 7.4 \pm 2.5$ meV.

[k] $\Gamma = 6.3 \pm 1.0$ meV from Table 14.14; $\Gamma_p/\Gamma_\gamma = 4.1 \pm 0.5$.

[l] $\Gamma_p = 43^{-15}_{+31}$ meV; δ(M3/E2) $= -0.03 \pm 0.02$.

[m] $\Gamma_\gamma = 7.2 \pm 0.4$ eV (1981BI17) [from ^{14}N(γ, γ)].

[n] See (1983PR1B; preliminary work). Branching ratios from Γ_γ. See also (1981AJ01).

[o] $\Gamma_\gamma/\Gamma = (4.1 \pm 0.8)\%$; $\Gamma = 0.39 \pm 0.16$ eV.