

Table 16.14 in (1977AJ02): Structure in $^{14}\text{N} + \text{d}$

E_d (MeV)	Resonant channel	Γ_{cm} (keV)	$J^\pi; T$	E_x (MeV)	Refs.
1.4	n_0			22.0	(1960RE07)
1.7 ± 0.1	$\gamma_0, \alpha_0 \rightarrow \alpha_3$			22.2	(1962IS02, 1966SU05, 1967LA16)
1.85	n_0, α_0			22.35	(1961IS03, 1965BU1A)
2.0 ± 0.1	α_0, α_3			22.5	(1967LA16)
2.272 ± 0.05^a	$p_0, p_{1+2}, p_3, \alpha_0, \alpha_2$	12 ± 3	$0^+; 2$	22.723	(1972NE10)
2.40 ± 0.005^b	γ_0	600	$1^-; 1$	22.83	(1966SU05, 1972WE04)
2.5	α_0			22.9	(1961IS03)
2.6	$(n_0, p_0), \alpha_1$			23.0	(1960RE07, 1962GO21, 1962IS02)
2.8	$(n_0, p_0), d_0$			23.2	(1962GO21, 1967FL10)
3.3	p_0, d_0			23.6	(1962GO21, 1967FL10)
4.2	$\gamma_0, p_0, d_0, \gamma_{15.1}$			24.4	(1960RE07, 1962GO21, 1965BR08, 1966SU05, 1967FL10)
4.58	$p_0, d_0, \gamma_{15.1}$			24.74	(1965BR08, 1967FL10)
4.9	n_0, p_0			25.0	(1960RE07, 1962GO21)
5.95	$d_1, \gamma_{15.1}$			25.9	(1965BR08, 1970DU04)
7.1	$\gamma_{15.1}$			26.9	(1965BR08)
7.4	d_2			27.2	(1970DU04)
7.7	d_1			27.5	(1970DU04)
(8.5)	$(\gamma_{15.1})$			(28.2)	(1965BR08)
10.2	d_2			29.7	(1970DU04)

^a $(\Gamma_{d_0}\Gamma_i/\Gamma^2) \times 10^{-3}$ are greater than 1.6 ± 0.4 , 0.27 ± 0.13 , 0.41 ± 0.15 and 0.07 ± 0.05 for the α_2 , p_0 , p_{1+2} and p_3 groups.

^b If this resonance is fitted with a single-level Breit-Wigner shape, penetrability effects could lower the resonance energy by as much as 50 keV, assuming $l = 1$ (1972WE04). See also (1971AJ02).