

Table 16.16 from (1982AJ01): Structure in $^{14}\text{N} + \text{d}$

E_d (MeV)	Resonant channel	Γ_{cm} (keV)	$J^\pi; T$	E_x (MeV)	Refs. ^a
1.4	n_0			22.0	
1.7 ± 0.1	$\gamma_0, \alpha_0 \rightarrow \alpha_3$			22.2	
1.85	n_0, α_0			22.35	
2.0 ± 0.1	α_0, α_3			22.5	
2.272 ± 0.005 ^b	$p_0, p_{1+2}, (p_3), p_4, p_5, \alpha_0, \alpha_2$	12 ± 3	$0^+; 2$	22.722	(1977KO33)
2.40 ± 0.05 ^c	γ_0 ^d	600	$1^-; 1$	22.83	
2.5	α_0			22.9	
2.6	$(n_0), \alpha_1$			23.0	
2.8	$(n_0), d_0$			23.2	
3.24	$p_0, p_{1+2}, p_4, p_5, p_6, d_0, \alpha_3$			23.57	(1977KO33)
4.2	$\gamma_0, (p_0), d_0, \gamma_{15.1}$			24.4	
4.58	$(p_0), d_0, \gamma_{15.1}$			24.74	
4.9	n_0, p_0			25.0	
5.95	$d_1, \gamma_{15.1}$			25.9	
7.1	$\gamma_{15.1}$			26.9	
7.4	d_2			27.2	
7.7	d_1			27.5	
(8.5)	$(\gamma_{15.1})$			(28.2)	
10.2	d_2			29.7	

^a For earlier references see [Table 16.14 in \(1977AJ02\)](#).

^b $(\Gamma_{d_0}\Gamma_i/\Gamma^2) \times 10^{-3}$ 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.

^c 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](#)).

^d The angular distribution of γ_0 is consistent with E1.