

$^{15}\text{N}(\text{d,p}),(\text{d,d}),(\text{d},\gamma)$ 1957Bo04,1977Ca03

Type	Author	Citation	History	Literature Cutoff Date
Full Evaluation	C. G. Sheu, J. H. Kelley, J. Purcell	ENSDF		5-Aug-2021

1957Bo04: $^{15}\text{N}(\text{d,p})$, $E=1.36,1.90$ MeV; evidence for weak resonances corresponding to ^{17}O states at 15.18 MeV and 15.69 MeV.

1972CaYU: $^{15}\text{N}(\text{d},\gamma)$, $E<23$ MeV; measured $\sigma(E)$. ^{17}O deduced resonances, J, π .

1977Ca03: $^{15}\text{N}(\text{d,d}),(\text{d,p})$, $E=1.4-2.7$ MeV; measured $\sigma(E,\theta)$.

1986AnZL: $^{15}\text{N}(\text{d},\gamma)$, measured $\sigma, \sigma(\theta)$; deduced dominant multipole contributions.

1988Co10: $^{15}\text{N}(\text{d},\gamma)$, $E=16$ MeV; measured capture $\sigma, \sigma(\theta)$; deduced A_0, a_1 coefficients. ^{17}O deduced GDR excitation mechanism.

Theory:

1973Ba74: $^{15}\text{N}(\text{d,p})$, calculated $\sigma(\theta)$.

 ^{17}O Levels

E(level)	E_{res} (keV)	Comments
15246	1360	E(level): from $E_d=1360$ keV (1957Bo04); see also $E_d\approx 1400$ keV (1977Ca03: $^{15}\text{N}(\text{d,d})$).
≈ 15634	≈ 1800	E(level): from $E_d\approx 1800$ keV (1977Ca03).
15722	1900	E(level): from $E_d=1900$ keV (1957Bo04).
≈ 16164	≈ 2400	E(level): from $E_d\approx 2400$ keV (1977Ca03).