

Table 9.4 from (2004TI06):
Parameters ^a of the first $T = \frac{3}{2}$ states in ⁹Be and ⁹B, $J^\pi = \frac{3}{2}^-$

	⁹ Be		⁹ B
E_x (keV)	14392.2 ± 1.8		14655.0 ± 2.5
Γ_{γ_0} (eV)	6.60 ± 0.40 ^b		(6.97 ± 0.42) ^c
Γ (eV)	365 ± 29		377 ± 38
Γ_{γ_0} (to $\frac{3}{2}^-$)/ Γ (%)	1.81 ± 0.09		1.85 ± 0.15
Γ_{γ_1} (to $\frac{1}{2}^+$)/ Γ (%)	< 0.07		< 0.08
Γ_{γ_2} (to $\frac{5}{2}^-$)/ Γ (%)	2.05 ± 0.11		1.93 ± 0.22
Γ_{γ_3} (to $\frac{1}{2}^-$)/ Γ (%)	< 0.2		} 0.31 ± 0.18
Γ_{γ_4} (to $\frac{5}{2}^+$)/ Γ (%)	0.33 ± 0.07		
Γ_{γ_5} (to $\frac{3}{2}^+$)/ Γ (%)	0.23 ± 0.05		
$\Gamma_{\gamma_2}/\Gamma_{\gamma_0}$	1.13 ± 0.05		1.03 ± 0.11
Γ_{n_0}/Γ	0.028 ± 0.021	Γ_{p_0}/Γ	0.11 ± 0.04
Γ_{n_1}/Γ	0.50 ± 0.11	Γ_{p_1}/Γ	0.33 ± 0.09
$\Gamma_{n_1}/\Gamma_{n_0}$	18 ± 14	$\Gamma_{p_1}/\Gamma_{p_0}$	3.2 ± 1.9
Γ_γ (eV)	16.1 ± 1.4		15.4 ± 1.5
Γ_{n_0} (eV)	10 ± 9	Γ_{p_0} (eV)	41 ± 16
Γ_{n_1} (eV)	182 ± 43	Γ_{p_1} (eV)	124 ± 36
Γ_α (eV) ^d	156 ± 43 ^e		196 ± 42 ^f

^a γ -ray branching ratios from (1978DI08). Branching ratios for nucleon decays from (1976MC10). See Table 9.6 in (1979AJ01) for additional references. See Table 9.3 for radiative widths and transitions strengths.

^b Average of 8.1 ± 0.8 eV (1968CL08), 6.2 ± 0.6 eV (1973BE19), 5.9 ± 0.8 eV (1992KI05). Unpublished values of 6.7 ± 1.4 eV and 7.2 ± 0.3 eV are quoted in (1973BE19, 1992KI05).

^c Assuming the same reduced transition strength as for ⁹Be.

^d By subtraction.

^e $\Gamma_{\alpha_0}/\Gamma_{\gamma_0} = 31.2 \pm 9.8$ (1972AD04) gives $\Gamma_{\alpha_0} = 206 \pm 65$ eV.

^f $\Gamma_{\alpha_0}/\Gamma_{p_1} \approx 1.4$ (2001BE51) gives $\Gamma_{\alpha_0} \approx 174$ eV.