

Table 8.5 from (1984AJ01):
Parameters of the first $T = 2$ state in ${}^8\text{Be}$ ^a

E_x (MeV \pm keV) ^b	27.4941 ± 1.8
$\Gamma_{\text{c.m.}}$ (keV) ^c	5.5 ± 2.0
Γ_{γ_5} (eV)	23 ± 4
Γ_{γ_0} (eV)	21.9 ± 3.9
$\Gamma_{n_{0+1}}$ (eV)	770 ± 470
Γ_{n_2} (eV)	880 ± 540
$\Gamma_{n_{3+4}}$ (eV)	1320 ± 805
Γ_{p_0} (eV)	33 ± 33
Γ_{p_1} (eV)	143 ± 33
Γ_{p_2} (eV)	165 ± 83
Γ_{p_3} (eV)	176 ± 110
Γ_{d_0} (eV)	1540 ± 220
Γ_{d_1} (eV)	495 ± 110
Γ_{t_0} (eV)	880 ± 220
$\Gamma_{{}^3\text{He}}$ (eV)	495 ± 110
Γ_{α} (eV)	11 ± 22
Γ_{α^*} (eV) ^d	583 ± 99

^a (1979FR04). For the earlier references see [Table 8.4 in \(1979AJ01\)](#). For calculated widths for this state, and a calculated spectrum of $(1p)^4 0^+$ states see [\(1983JO03\)](#).

^b Weighted mean of values shown in [\(1979AJ01\)](#).

^c (1976NO07). See also [\(1979AJ01\)](#). The partial particle widths shown below were obtained using this value.

^d Transitions to ${}^4\text{He}^*(20.1) [0^+]$.