

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

$E_x$ (MeV $\pm$ keV) <sup>b</sup>	$27.4941 \pm 1.8$
$\Gamma_{\text{c.m.}}$ (keV) <sup>c</sup>	$5.5 \pm 2.0$
$\Gamma_{\gamma_5}$ (eV)	$23 \pm 4$
$\Gamma_{\gamma_0}$ (eV)	$21.9 \pm 3.9$
$\Gamma_{n_{0+1}}$ (eV)	$770 \pm 470$
$\Gamma_{n_2}$ (eV)	$880 \pm 540$
$\Gamma_{n_{3+4}}$ (eV)	$1320 \pm 805$
$\Gamma_{p_0}$ (eV)	$33 \pm 33$
$\Gamma_{p_1}$ (eV)	$143 \pm 33$
$\Gamma_{p_2}$ (eV)	$165 \pm 83$
$\Gamma_{p_3}$ (eV)	$176 \pm 110$
$\Gamma_{d_0}$ (eV)	$1540 \pm 220$
$\Gamma_{d_1}$ (eV)	$495 \pm 110$
$\Gamma_{t_0}$ (eV)	$880 \pm 220$
$\Gamma_{{}^3\text{He}}$ (eV)	$495 \pm 110$
$\Gamma_{\alpha}$ (eV)	$11 \pm 22$
$\Gamma_{\alpha^*}$ (eV) <sup>d</sup>	$583 \pm 99$

<sup>a</sup> (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 [\(1983JO03\)](#).

<sup>b</sup> Weighted mean of values shown in [\(1979AJ01\)](#).

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

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