

Table 8.6 from (1984AJ01):
 Some ${}^8\text{Be}$ states with $16.6 < E_x < 23.0$ MeV ^a

E_x (MeV \pm keV)	$\Gamma_{\text{c.m.}}$ (keV)	Reaction
16.627 ± 5	113 ± 3 90 ± 5	${}^7\text{Li}({}^3\text{He}, \text{d})$ ${}^{10}\text{B}(\text{d}, \alpha)$
16.623 ± 3	107.7 ± 0.5	${}^4\text{He}(\alpha, \alpha)^{\text{b}}$
16.630 ± 3	108.5 ± 0.5	${}^4\text{He}(\alpha, \alpha)^{\text{c}}$
16.626 ± 3	108.1 ± 0.5	“best” values
16.901 ± 5	77 ± 3 70 ± 5	${}^7\text{Li}({}^3\text{He}, \text{d})$ ${}^{10}\text{B}(\text{d}, \alpha)$
16.925 ± 3	74.4 ± 0.4	${}^4\text{He}(\alpha, \alpha)^{\text{b}}$
16.918 ± 3	73.6 ± 0.4	${}^4\text{He}(\alpha, \alpha)^{\text{c}}$
16.922 ± 3	74.0 ± 0.4	“best” values
17.640 ± 1.0	10.7 ± 0.5	${}^7\text{Li}(\text{p}, \gamma)$
18.155 ± 5	147	${}^7\text{Li}(\text{p}, \gamma)$
18.150 ± 5	138 ± 6	${}^{10}\text{B}(\text{d}, \alpha)$
18.144 ± 5		${}^9\text{Be}(\text{d}, \text{t})$
18.150 ± 4	138 ± 6	“best” values
19.06 ± 20	270 ± 20	${}^7\text{Li}(\text{p}, \gamma)$
19.071 ± 10	270 ± 30	${}^9\text{Be}(\text{d}, \text{t})$
19.07 ± 30	270 ± 20	“best” values ^d
19.21	208 ± 30	${}^9\text{Be}(\text{p}, \text{d})$
19.22 ± 30	265 ± 30	${}^9\text{Be}({}^3\text{He}, \alpha)$
19.26 ± 30	220 ± 30	${}^9\text{Be}(\text{d}, \text{t})$
19.24 ± 25	230 ± 30	“best” values
19.86 ± 50	700 ± 100	${}^9\text{Be}(\text{d}, \text{t})$
22.05 ± 100	270 ± 70	${}^9\text{Be}({}^3\text{He}, \alpha)$

Table 8.6 from (1984AJ01):

Some ${}^8\text{Be}$ states with $16.6 < E_x < 23.0 \text{ MeV}$ ^a (continued)

E_x (MeV \pm keV)	$\Gamma_{\text{c.m.}}$ (keV)	Reaction
22.63 ± 100	100 ± 50	${}^9\text{Be}({}^3\text{He}, \alpha)$
22.98 ± 100	230 ± 50	${}^9\text{Be}({}^3\text{He}, \alpha)$

^a See [Table 8.5 in \(1979AJ01\)](#) for references. See also [Tables 8.7, 8.9](#) and [8.10](#) here.

^b *R*-matrix theory.

^c Complex eigenvalue theory.

^d I am grateful to Dr. F.C. Barker's comments on this state. See also [\(1978BA66\)](#).