

Table 8.6 from (84AJ01):

Some  ${}^8\text{Be}$  states with  $16.6 < E_x < 23.0$  MeV <sup>a</sup>

$E_x$ (MeV $\pm$ keV)	$\Gamma_{\text{c.m.}}$ (keV)	Reaction
$16.627 \pm 5$	$113 \pm 3$ $90 \pm 5$	${}^7\text{Li}({}^3\text{He}, \text{d})$ ${}^{10}\text{B}(\text{d}, \alpha)$
$16.623 \pm 3$	$107.7 \pm 0.5$	${}^4\text{He}(\alpha, \alpha)$ <sup>b</sup>
$16.630 \pm 3$	$108.5 \pm 0.5$	${}^4\text{He}(\alpha, \alpha)$ <sup>c</sup>
$16.626 \pm 3$	$108.1 \pm 0.5$	“best” values
$16.901 \pm 5$	$77 \pm 3$ $70 \pm 5$	${}^7\text{Li}({}^3\text{He}, \text{d})$ ${}^{10}\text{B}(\text{d}, \alpha)$
$16.925 \pm 3$	$74.4 \pm 0.4$	${}^4\text{He}(\alpha, \alpha)$ <sup>b</sup>
$16.918 \pm 3$	$73.6 \pm 0.4$	${}^4\text{He}(\alpha, \alpha)$ <sup>c</sup>
$16.922 \pm 3$	$74.0 \pm 0.4$	“best” values
$17.640 \pm 1.0$	$10.7 \pm 0.5$	${}^7\text{Li}(\text{p}, \gamma)$
$18.155 \pm 5$	147	${}^7\text{Li}(\text{p}, \gamma)$
$18.150 \pm 5$	$138 \pm 6$	${}^{10}\text{B}(\text{d}, \alpha)$
$18.144 \pm 5$		${}^9\text{Be}(\text{d}, \text{t})$
$18.150 \pm 4$	$138 \pm 6$	“best” values
$19.06 \pm 20$	$270 \pm 20$	${}^7\text{Li}(\text{p}, \gamma)$
$19.071 \pm 10$	$270 \pm 30$	${}^9\text{Be}(\text{d}, \text{t})$
$19.07 \pm 30$	$270 \pm 20$	“best” values <sup>d</sup>
19.21	$208 \pm 30$	${}^9\text{Be}(\text{p}, \text{d})$
$19.22 \pm 30$	$265 \pm 30$	${}^9\text{Be}({}^3\text{He}, \alpha)$
$19.26 \pm 30$	$220 \pm 30$	${}^9\text{Be}(\text{d}, \text{t})$
$19.24 \pm 25$	$230 \pm 30$	“best” values
$19.86 \pm 50$	$700 \pm 100$	${}^9\text{Be}(\text{d}, \text{t})$
$22.05 \pm 100$	$270 \pm 70$	${}^9\text{Be}({}^3\text{He}, \alpha)$
$22.63 \pm 100$	$100 \pm 50$	${}^9\text{Be}({}^3\text{He}, \alpha)$

Table 8.6 from (84AJ01):

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

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

<sup>a</sup> See [Table 8.5 in \(79AJ01\)](#) for references. See also [Tables 8.7, 8.9 and 8.10](#) here.

<sup>b</sup> *R*-matrix theory.

<sup>c</sup> Complex eigenvalue theory.

<sup>d</sup> I am grateful to Dr. F.C. Barker's comments on this state. See also [\(BA78G\)](#).