Table 8.11 from (2004TI06): Some ^{8}Be states with $3.0 < E_{\rm x} < 23.0$ MeV [a]

$E_{\rm x}$ (MeV $\pm$ keV)	$\Gamma_{\rm cm}$ (keV)	Reaction
3.18 ± 50		^{4}He(α, γ)
2.83 ± 200	1750 ± 300	^{6}Li(^{3}He, p), ^{10}B(d, α)
	1200 ± 300	^{6}Li(α, d)
3.1 ± 100	1750 ± 100	^{7}Li(d, n)
3.10 ± 90	1740 ± 80	^{7}Li(d, n)
2.90 ± 60	1530 ± 40	^{7}Be(d, p)
	1500 ± 100	^{9}Be(p, d)
3.038 ± 25	1500 ± 20	^{9}Be(p, d)
3.03 ± 10	1430 ± 60	^{9}Be(d, t)
2.90 ± 40	1350 ± 150	^{9}Be(^{3}He, α)
	1480 ± 70	^{11}B(p, α)
3.03 ± 0.01	**1513 ± 15**	**"mean" value** [d]
11.5 ± 300	4000 ± 400	^{4}He(α, α)
11.3 ± 400		^{6}Li(α, d)
11.3 ± 200	2800 ± 300	^{7}Li(d, n)
	5200 ± 100	^{9}Be(p, d)
11.35 ± 150	**$\approx$ 3500 keV**	**"mean" value**
16.627 ± 5	113 ± 3	^{7}Li(^{3}He, d)
	90 ± 5	^{10}B(d, α)
16.623 ± 3	107.7 ± 0.5	^{4}He(α, α) [b]
16.630 ± 3	108.5 ± 0.5	^{4}He(α, α) [c]
16.626 ± 3	**108.1 ± 0.5**	**"mean" value**
16.901 ± 5	77 ± 3	^{7}Li(^{3}He, d)
	70 ± 5	^{10}B(d, α)
16.925 ± 3	74.4 ± 0.4	^{4}He(α, α) [b]
16.918 ± 3	73.6 ± 0.4	^{4}He(α, α) [c]
16.922 ± 3	**74.0 ± 0.4**	**"mean" value**
17.640 ± 1.0	**10.7 ± 0.5**	^{7}Li(p, γ)
18.155 ± 5	147	^{7}Li(p, p$'\gamma$)
18.150 ± 5	138 ± 6	^{10}B(d, α)
18.144 ± 5		^{9}Be(d, t)
18.150 ± 4	**138 ± 6**	**"mean" value**

Table 8.11 from (2004TI06): Some ^{8}Be states with $3.0 < E_{\rm x} < 23.0$ MeV [a] (continued)

$E_{\rm x}$ (MeV $\pm$ keV)	$\Gamma_{\rm cm}$ (keV)	Reaction
19.06 ± 20	270 ± 20	^{7}Li(p, γ)
19.071 ± 10	270 ± 30	^{9}Be(d, t)
19.07 ± 30	**270 ± 20**	**"mean" value**
19.21	208 ± 30	^{9}Be(p, d)
19.22 ± 30	265 ± 30	^{9}Be(^{3}He, α)
19.234 ± 12	210 ± 35	$^{\rm nat}$Ag(^{14}N, ^{8}Be)
19.26 ± 30	220 ± 30	^{9}Be(d, t)
19.235 ± 10	**227 ± 10**	**"mean" value**
19.86 ± 50	**700 ± 100**	^{9}Be(d, t)
22.05 ± 100	**270 ± 70**	^{9}Be(^{3}He, α)
22.63 ± 100	**100 ± 50**	^{9}Be(^{3}He, α)
22.98 ± 100	**230 ± 50**	^{9}Be(^{3}He, α)

[a] See Table 8.5 in (1979AJ01) for references. See also Tables 8.11 and 8.12 here.

[b] From R-matrix analysis.

[c] Complex eigenvalue theory.

[d] These parameters represent the weighted average of values given in Table 8.4 of (1974AJ01): the value $E_{\rm x} = 3.18 \pm 0.05$ MeV from ^{4}He(α, γ), the values $E_{\rm x} = 3.038 \pm 0.025$ MeV, $\Gamma = 1500 \pm 20$ keV from ^{9}Be(p, d) that were adopted in (1984AJ01); and $E_{\rm x} = 3.03 \pm 0.01$ MeV, $\Gamma = 1430 \pm 60$ keV from ^{9}Be(d, t). The average of the most recent values from ^{9}Be(p, d) and ^{9}Be(d, t) yields $E_{\rm x} = 3.03 \pm 0.01$ MeV and $\Gamma = 1490 \pm 20$ keV. See also (2002BH03).