Table 9.8 from (1988AJ01): Levels of ^{9}Be from ^{9}Be(e, e′)^{9}Be* [a]

E_x in ^{9}Be (MeV ± keV)	$\Gamma_{c.m.}$ (keV)	Transition	J^π	Γ_{γ_0} (eV)
1.684 ± 7 [b]	217 ± 10 [b]	C1	$\frac{1}{2}^+$	0.30 ± 0.12
2.44 ± 20	< 30	M1	$\frac{5}{2}^-$	0.089 ± 0.010
		C2		$(1.89 \pm 0.14) \times 10^{-3}$ [c]
3.04 ± 20	450 ± 150	C1 [d]	$\frac{5}{2}^+$ [d]	0.30 ± 0.25 [e]
4.7 ± 200	700 ± 300	C(1)		2.4 ± 1.2 [f]
6.4 ± 100	1000 ± 300	C2	$\frac{7}{2}^-$	0.082 ± 0.035
13.84 ± 50 [g]				
14.388 ± 15 [h]	< 70	M1	$\frac{3}{2}^-$	6.9 ± 0.5
15.10 ± 50 [g]				
15.97 ± 30 [g]	≈ 300	M1		3.7 ± 0.8 [f]
16.631 ± 15 [h]	< 70	M2 [i]	$\leq \frac{7}{2}^+$	0.26 ± 0.02 [f]
		M1	$\leq \frac{5}{2}^-$	2.0 ± 0.5 [f]
16.961 ± 15 [h]	< 70	M1	$\frac{1}{2}^-$	11.5 ± 1.4
17.28		M1	$\leq \frac{5}{2}^-$	7.3 ± 1.3 [f]
17.480 ± 20 [h]	≈ 100	M2 [i]	$\leq \frac{7}{2}^+$	0.40 ± 0.03 [f]
18.02 ± 50 [g]				
18.62 ± 50 [g]				
19.51 ± 50 [g]				
20.76 ± 50 [g]				
[j]				

[a] For references see Table 9.8 in (1979AJ01). See also (1984AJ01).

[b] B(C1)↑$= 0.027 \pm 0.002\ e^2$·fm^2 and B(M2)↑$= 8.8 \pm 1.5 \mu_N^2$·fm^2 (1987KU05).

[c] B(C2, ω)↑$= 45.7 \pm 3.5\ e^2 \cdot$ fm^4.

[d] Assumed.

[e] The group may consist of two unresolved states, the second one reached by an M1 transition [$J^\pi = (\frac{1}{2})^-$] with $\Gamma_{\gamma_0} = 0.18 \pm 0.09$ eV. I am indebted to Dr. L.W. Fagg for his help in understanding this point.

[f] $g\Gamma_{\gamma_0}$; where $g = (2J_f + 1)/(2J_i + 1)$.

[g] Weak transition.

[h] (1983LO11).

[i] Or pure spin-flip E1. (1984WO09) assign $J^\pi = \frac{5}{2}^+$ and $\frac{7}{2}^+$, respectively, for ^{9}Be*(16.67, 17.49).

[j] See (1974AJ01, 1984AJ01) for states reported at higher excitation energies.