

Table 9.2 from (66LA04): Energy levels of ${}^9\text{Be}$

E_x (MeV \pm keV)	$J^\pi; T$	Γ (keV)	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{1}{2}$		stable	2, 3, 4, 9, 10, 11, 12, 13, 18, 19, 20, 21, 22, 23, 24, 25, 28, 29, 30, 32, 33, 34, 36, 39
1.665 ± 20	$\frac{1}{2}^+; \frac{1}{2}$	200 ± 20	n_0, γ	4, 10, 12, 15, 18, 19, 20, 24, 28, 34, 39
2.429 ± 2	$\frac{5}{2}^-; \frac{1}{2}$	1.0 ± 0.2	n_0, n_1, γ	4, 10, 12, 13, 15, 18, 19, 20, 24, 28, 32, 34, 35, 39, 40
3.032 ± 11	$(\frac{5}{2})^+; \frac{1}{2}$	265 ± 17	n_0	4, 10, 12, 15, 19, 20, 24, 28, 34, 35, 39
4.70 ± 50	$\frac{3}{2}^+, \frac{5}{2}^+; \frac{1}{2}$	730 ± 150	n_1	4, 10, 15, 20, 24, 33
6.66 ± 50	$\frac{7}{2}^-; \frac{1}{2}$	1300 ± 120	n_1	10, 15, 18, 20, 24, 28, 33
(7.94 ± 80)		≈ 1000		15, 20
11.30 ± 50		640 ± 70	γ, n	10, 15, 20, 28, 33
11.82 ± 20		410 ± 30	γ, n	10, 12, 15
13.72		≈ 600	(γ, n)	10, 15
14.392 ± 5	$(\frac{3}{2}^-); \frac{3}{2}$	0.8	γ	10, 20
16.674 ± 8		42 ± 5		10, 20
16.973 ± 2	$;$ $\frac{3}{2}$	< 0.47	γ, n, p, d	4, 5, 6
17.28	$(\frac{5}{2})^-$	195	n, p, d, α	5, 6, 7, 20
17.48	$(\leq \frac{7}{2})^+$	47	n, p, d, α	5, 6, 7, 20
(18.1)			n, p, d	5, 6
(18.6)			p, d, α	5, 6
18.94			n, t	1, 20
19.6			p, d	6
(20.47 ± 40)			γ	15
(20.73 ± 40)			γ	15
(21.1 ± 500)		broad		20
(22.4 ± 700)		4700	γ, n, p	15, 16, 20
(23.9 ± 600)	+	6900		33