

Table 9.2 from (79AJ01): Energy levels of  ${}^9\text{Be}$ 

$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{1}{2}$		stable	2, 3, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56
1.680 $\pm$ 15	$\frac{1}{2}^+$	200 $\pm$ 20	$\gamma, n$	3, 9, 10, 11, 14, 18, 19, 20, 22, 24, 25, 32, 37, 43, 45
2.4294 $\pm$ 1.3	$\frac{5}{2}^-$	0.77 $\pm$ 0.15	$\gamma, n, \alpha$	3, 9, 10, 11, 13, 18, 19, 20, 22, 23, 24, 25, 32, 34, 36, 37, 42, 43, 45, 52, 53
2.78 $\pm$ 120	$\frac{1}{2}^-$	1080 $\pm$ 110	n	3, 9, 13, 52
3.049 $\pm$ 9	$\frac{5}{2}^+$	282 $\pm$ 11	$\gamma, n$	9, 11, 14, 18, 19, 20, 21, 22, 24, 25, 32, 37, 42, 43, 45
4.704 $\pm$ 25	$(\frac{3}{2})^+$	743 $\pm$ 55	$\gamma, n$	3, 9, 18, 20, 21, 22, 24, 35, 43, 52
6.76 $\pm$ 60	$\frac{7}{2}^-$	1540 $\pm$ 200	$\gamma, n$	9, 18, 19, 20, 22, 24, 25, 34
7.94 $\pm$ 80		$\approx$ 1000		20
11.283 $\pm$ 24		575 $\pm$ 50	n	9, 20, 25, 34, 37
11.81 $\pm$ 20	$T = \frac{1}{2}$	400 $\pm$ 30	$\gamma, n$	9, 11, 14, 42, 52
13.79 $\pm$ 30	$T = \frac{1}{2}$	590 $\pm$ 60	$\gamma, n$	9, 11, 18, 42
14.3926 $\pm$ 1.8	$\frac{3}{2}^-; \frac{3}{2}$	0.329 $\pm$ 0.067	$\gamma, n, \alpha$	9, 18, 24, 37, 42
14.4 $\pm$ 300		$\approx$ 800		20, 37
15.10 $\pm$ 50			$\gamma$	11, 18, 42
15.97 $\pm$ 30	$T = \frac{1}{2}$	$\approx$ 300	$\gamma$	18, 42
16.671 $\pm$ 8		41 $\pm$ 4	$\gamma$	9, 18, 37
16.976 $\pm$ 2	$\frac{1}{2}^-; \frac{3}{2}$	< 0.47	$\gamma, n, p, d$	3, 4, 5, 14, 18
17.297 $\pm$ 10	$(\frac{5}{2})^-$	200	$\gamma, n, p, d, \alpha$	4, 5, 18

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$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
17.490 $\pm$ 9	$\leq \frac{7}{2}^+$	47	$\gamma, n, p, d, \alpha$	4, 5, 6, 18
18.02 $\pm$ 50			$\gamma, n$	18
18.58 $\pm$ 40		310 $\pm$ 80	$\gamma, n, p, d, \alpha$	4, 5, 14, 18
19.20 $\pm$ 50			p, d	5
19.51 $\pm$ 50			$\gamma, n$	14, 18
(19.9 $\pm$ 200)			$\gamma, n$	14
(20.47 $\pm$ 40)			$\gamma, p, d$	5, 14
20.74 $\pm$ 30			$\approx$ 1000	$\gamma, n, p, t$
(21.4 $\pm$ 200)		$\gamma, n$		14, 18, 20
(22.4 $\pm$ 200)		broad		$\gamma, n$
(23.8 $\pm$ 200)		broad	$\gamma, n$	14, 35
(27.0 $\pm$ 500)			$\gamma, n$	14