

Table 9.2 from (1974AJ01): 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, 4, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49
$1.680 \pm 15$	$\frac{1}{2}^+; \frac{1}{2}$	$210 \pm 25$	$\gamma, n$	4, 10, 11, 12, 15, 19, 20, 21, 23, 25, 26, 31, 36, 37, 42, 44
$2.4294 \pm 1.3$	$\frac{5}{2}^-; \frac{1}{2}$	$1.03 \pm 0.18$	$\gamma, n, \alpha$	4, 10, 11, 12, 14, 15, 19, 20, 21, 23, 24, 25, 26, 31, 34, 36, 37, 41, 42, 44
$2.78 \pm 120$	$\frac{1}{2}^-; \frac{1}{2}$	$1080 \pm 110$	n	4, 10, 14
$3.058 \pm 12$	$\frac{5}{2}^+; \frac{1}{2}$	$292 \pm 15$	$\gamma, n$	4, 10, 12, 15, 19, 20, 21, 23, 25, 26, 31, 36, 37, 41, 42, 44
$4.704 \pm 25$	$(\frac{3}{2})^+; \frac{1}{2}$	$743 \pm 55$	$\gamma, n$	4, 10, 19, 21, 23, 25, 42
$6.76 \pm 60$	$\frac{7}{2}^-; \frac{1}{2}$	$2000 \pm 200$	$\gamma, n$	10, 19, 20, 21, 23, 25, 26
$7.94 \pm 80$		$\approx 1000$	$\gamma$	19, 21
$11.283 \pm 24$	$\pi = -$	$575 \pm 50$	$\gamma, n$	10, 19, 21, 26, 37
$11.81 \pm 20$	$T = \frac{1}{2}$	$400 \pm 30$	$\gamma, n$	10, 12, 15, 41
$13.79 \pm 30$	$T = \frac{1}{2}$	$590 \pm 60$	$\gamma$	10, 12, 19, 41
$14.396 \pm 5^a$	$\frac{3}{2}^-; \frac{3}{2}$	$0.33 \pm 0.06$	$\gamma, n, \alpha$	10, 19, 21, 25, 37, 41
$14.4 \pm 300$		$\approx 800$		21, 37
$15.10 \pm 50$			$\gamma$	12, 19, 41
$15.96 \pm 30$	$T = \frac{1}{2}$	$\approx 300$	$\gamma$	19, 41
$16.671 \pm 8$		$41 \pm 4$	$\gamma$	10, 19, 21, 37
$16.977 \pm 2$	$\frac{1}{2}^-; \frac{3}{2}$	$< 0.47$	$\gamma, n, p, d$	4, 5, 6, 19
$17.300 \pm 12$	$(\frac{5}{2})^-$	195	$\gamma, n, p, d, \alpha$	5, 6, 7, 19

Table 9.2 from (1974AJ01): Energy levels of  ${}^9\text{Be}$  (continued)

$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
17.498 $\pm$ 15	$(\frac{3}{2}, \frac{5}{2})^+$	47	$\gamma, \text{n, p, d, } \alpha$	<a href="#">5, 6, 7, 19, 21</a>
18.02 $\pm$ 50			$\gamma, \text{n, p, d}$	<a href="#">5, 6, 19</a>
18.58 $\pm$ 40			$\gamma, \text{p, d, } \alpha$	<a href="#">5, 6, 19</a>
19.10 $\pm$ 30		300 $\pm$ 100	$\gamma, \text{n, p, d, t}$	<a href="#">1, 6, 15, 21</a>
19.51 $\pm$ 50			$\gamma, \text{n, p, d}$	<a href="#">6, 19</a>
(20.47 $\pm$ 40)			$\gamma, \text{p, d}$	<a href="#">6, 15</a>
20.74 $\pm$ 30		$\approx$ 1000	$\gamma, \text{p, t}$	<a href="#">1, 15, 19</a>
(21.50 $\pm$ 50)			$\gamma, \text{n}$	<a href="#">15, 19</a>
(22.4 $\pm$ 700)				<a href="#">21</a>
(23.9 $\pm$ 100)		broad		
	$\gamma, \text{n}$		<a href="#">15</a>	

<sup>a</sup> See also [Table 9.6](#).