

Table 8.5 from (66LA04): Energy levels of ^8Be

E_x (MeV \pm keV)	$\Gamma_{\text{c.m.}}$ (keV)	$J^\pi; T$	Decay	Tables	Reactions
g.s.	6.8 ± 0.6 eV	$0^+; 0$	α	6, 8	1, 4, 12, 13, 14, 15, 16, 23, 24, 25, 26, 28, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 45, 46, 50, 51
2.90 ± 30	1450 ± 60	$2^+; 0$	α	6, 8, 9	4, 13, 14, 15, 16, 23, 24, 26, 28, 29, 30, 31, 32, 33, 34, 37, 39, 42, 44, 45, 50
11.4 ± 300	≈ 7000	$4^+; 0$	α	8	4, 13, 14, 23, 32, 34
16.628 ± 5	97 ± 11	2^+	α	6, 8, 11, 16	4, 13, 15, 23, 29, 30, 32, 34, 39, 45
16.923 ± 6	83 ± 10	2^+	α	6, 8, 11	4, 13, 15, 23, 34, 39, 45
17.638 ± 2	10.7 ± 0.5	1^+	p, γ	6, 11, 12, 14, 16	13, 15, 16, 18, 23, 24, 34, 45
18.153 ± 5	147	1^+	p, γ	6, 12, 14, 16	15, 16, 18, 19, 23
18.9	> 500	2^-	p, n	13	17, 32
19.05 ± 20	270 ± 20	(3)	p, γ	6, 12, 14	16, 18, 27
19.22	190	3^+	p, n	13, 14	17, 18
19.9	≈ 1000	$2^+; (0)$	p, α	15	22
(19.9)	> 1000	(1^+)	p, n	13	17
20.36	1160	(1^-)	p, n	13	17
20.9 ± 200	1570 ± 180	4^-	p	14	19
21.5	1000	(3^+)	p, n	13	17
21.6	≈ 5000	(1^-)	p, γ	6, 12	16
22.5	(800)	$2^+; (0)$	p, d, α , (n), (γ)	10, 12, 14, 15	6, 7, 11, 15, 16, 18, 22
23.		(4^+)	p, α	15	22, 32
23.6	≈ 5000	($1^-, 2^-$)	p, γ	6, 12	16
(24.0)	(1360)	($0^-; 0$)	d, α	10	11
25.2	(270)	2^+	d, α , p	10, 15	7, 11, 22
(28.5)	≈ 20 MeV	$6^+; (0)$	α	8	3
(57)	≈ 73 MeV	$8^+; (0)$	α	8	4