

Table 8.7 from (1988AJ01): ${}^8\text{Be}$ levels from ${}^7\text{Li}(p, \gamma){}^8\text{Be}$ ^a

E_{res} (keV)	Γ_{lab} (keV)	${}^8\text{Be}^*$ (MeV)	l_p	J^π	Res. ^d
441.4 ± 0.5 ^b	12.2 ± 0.5	17.640	1	1^+	$\gamma_0, \gamma_1, \gamma_3, \gamma_4$
1030 ± 5	168	18.155	1	1^+	$\gamma_0, \gamma_1, \gamma_3, \gamma_4$
1890	150 ± 50	18.91		(2^-)	γ_3, γ_4
2060 ± 20	310 ± 20	19.06		$J = 1, 2, 3,$ $\pi = (-)$ ^c	γ_1
(3100)		(20.0)			γ_1
4900		21.5			γ_1
5000	≈ 4500	21.6	0	$1^-; T = 1$	γ_0
6000		22.5			γ_1
7500	≈ 8000	23.8	(0)	$(1^-, 2^-); T = 1$	γ_1
(11100)		(27.0)			γ_1
13000	broad	28.6			

^a See [Tables 8.6 in \(1974AJ01, 1979AJ01\)](#) for the references.

^b See [\(1959AJ76\)](#). See also [\(1983FI13, 1984JE1B\)](#).

^c See, however, [reaction 16](#).

^d $\gamma_0, \gamma_1, \gamma_3, \gamma_4$ represent transitions to ${}^8\text{Be}^*(0, 3.0, 16.6, 16.9)$, respectively.