

Table 8.6 from (79AJ01): ${}^8\text{Be}$ levels from ${}^7\text{Li}(p, \gamma){}^8\text{Be}$

E_{res} (keV)	Γ_{lab} (keV)	${}^8\text{Be}^*$ (MeV)	l_p	J^π	Res. ^c	Refs.
441.4 ± 0.5 ^a	12.2 ± 0.5	17.641	1	1^+	$\gamma_0, \gamma_1, \gamma_3, \gamma_4$	A
1030 ± 5	168	18.156	1	1^+	$\gamma_0, \gamma_1, \gamma_3, \gamma_4$	A, (FI76D) ^d
1890	150 ± 50	18.91		(2^-)	γ_3, γ_4	(SW69B)
2060 ± 20	310 ± 20	19.06		$J = 1, 2, 3, \pi = (-)$ ^b	γ_1	A, (FI76D)
(3100)		(20.0)			γ_1	(FI76D)
4900		21.5			γ_1	(FI76D)
5000	≈ 4500	21.6	0	$1^-; T = 1$	γ_0	A, (FI76D)
6000		22.5			γ_1	(FI76D)
7500	≈ 8000	23.8	(0)	$(1^-, 2^-); T = 1$	γ_1	A, (FI76D)
(11100)		(27.0)			γ_1	(FI76D)
13000	broad	28.6				(FE67B)

A: see references listed for this resonance in Table 8.6 of (74AJ01).

^a See (59AJ76).

^b (SC64I). See, however, reaction 17.

^c $\gamma_0, \gamma_1, \gamma_3, \gamma_4$ represent transitions to ${}^8\text{Be}^*(0, 2.9, 16.6, 16.9)$, respectively.

^d See also (FI70F).