

Table 8.12 from (1966LA04): ${}^8\text{Be}$ levels from ${}^7\text{Li}(p, \gamma){}^8\text{Be}$

E_{res} (keV)	Γ_{lab} (keV)	${}^8\text{Be}^*$	l_p	J^π	σ_{max} (mb)	γ_0/γ_1	$w\Gamma_\gamma$ (eV)	References
441.4 ± 0.5 ^a	12.2 ± 0.5	17.64	1	1^+	6.0	1.9	9.4	(1949FO18, 1956BU27)
1030 ± 5	168	18.15	1	1^+		0.54	2	(1954KR06, 1960MA33, 1963RI09)
2060 ± 20	310 ± 20	19.05		(-) ^d	γ_1 only			(1957NE22, 1963PE15, 1963RI09)
5000 (6000)	≈ 5000	21.6 (22.5)	(0)	(1^-)	0.05 ^b (γ_1)	0.5 0.3	^c	(1959GE33, 1963MI08, 1963PE15) (1963MI08)
7300	≈ 5500	23.6	(0)	$(1^-, 2^-)$	(γ_1)	0.2		(1963MI08, 1963PE15)

^a See (1959AJ76).

^b γ_0 only (1964TA05).

^c $\int \sigma(p\gamma_0) = 0.37 \pm 0.15 \text{ MeV} \cdot \text{mb}$ (1963RE09).

^d (1964SC19).