

Table 8.8 from (79AJ01): ${}^8\text{Be}$ levels from ${}^7\text{Li}(p, n){}^7\text{Be}$

E_p (MeV)	Γ_{lab} (keV)	${}^8\text{Be}^*$ (MeV)	J^π	Refs.
1.88	55 ± 20	18.90	2^-	(AR74E)
2.25	220	19.22	3^+	(BE61, NE57A)
2.6 ^a	≈ 750	19.5	1^-	(PR72A)
3.0	≈ 1250	19.9	(2^+)	(PR72A)
4.9	1100	21.5	$3^{(+)}$	(BO63D, GI59)
5.5	broad	22.1	b	(PR72A)

^a $\gamma_{n_1}^2$ and $\gamma_{p_1}^2 \approx 1\%$ of Wigner limit (PR72A).

^b The broad dip in the n_1 yield at the same energy as the broad bump in the p_1 yield may be due to interference of two 2^+ states (PR72A).