

Table 11.6 from (1980AJ01): Resonances in ${}^7\text{Li}(\alpha, \gamma){}^{11}\text{B}$ ^a

E_r (keV)	$\Gamma_{\text{c.m.}}$ (keV)	${}^{11}\text{B}^*$ (MeV)	J^π	$\omega\gamma_\alpha$ ^d (eV)	Γ_{γ_0} ^c (eV)	Percentage decay to ${}^{11}\text{B}^*$ ^f			
						0	4.45	6.74	6.79
401 ^b	< 1 ^b	8.920	$(\frac{5}{2})^-$	0.04	i	93 ± 5	2.3 ± 1		
819 ± 1 ^b	3×10^{-3} ^g	9.186	$\frac{7}{2}^+$	0.55		0.9 ± 0.3	82.8 ± 2.0	12.8 ± 0.4	< 1.3
958 ± 1 ^b	7 ^b	9.275	$\frac{5}{2}^+$	3.5		19.7 ± 1.0	67.5 ± 2.0	12.8 ± 0.7	< 0.6 ^k
2500 ± 20 ^c	433	10.26			17	h			
2620 ± 20 ^c	100	10.33			1.0	h			
2800 ± 50 ^c	≈ 140 ⁱ	10.45			$10/2J + 1$				
(3040) ^c	90	(10.60)			< 0.2	h			

^a See also Tables 11.4, 11.8, 11.9 and 11.16 and Table 11.4 in (1968AJ02).

^b (1951BE13).

^c (1967PA19).

^d $\omega\Gamma_\gamma\Gamma_\alpha/\Gamma$, in c.m. (1951BE13, 1959JO25).

^e (1967PA19); based on analysis using $R = 4.9$ fm, $\gamma_w^2 = 1.0$ MeV.

^f (1962GR07). See also Table 11.4.

^g (1965OL03).

^h < 10% to ${}^{11}\text{B}^*(2.12)$ (1967PA19).

ⁱ Observed width (1967PA19).

^j See Table 11.16.

^k The decay to ${}^{11}\text{B}^*(7.29, 7.98)$ [$J^\pi = \frac{5}{2}^+, \frac{3}{2}^+$] is also observed: ≈ 1% and ≈ 0.03% respectively (1977MO1K).