

Table 9.3 from (1979AJ01): Resonances in ${}^7\text{Li} + \text{d}$

${}^7\text{Li}(\text{d}, \text{n}){}^8\text{Be}$	${}^7\text{Li}(\text{d}, \alpha){}^5\text{He}$	${}^7\text{Li}(\text{d}, \text{p}){}^8\text{Li}$		E_x (MeV)	J^π
		E_{res} (keV)	Γ_{lab} (keV)		
360 ^{a,b}		360 ± 3 ^a	< 2	16.976	
680 ^c	750 ^d	773 ± 10 ^f	250	17.297	$(\frac{3}{2}, \frac{5}{2})^+ \text{ }^i$
980 ^c	1000 ^d	1025 ± 10 ^f	60	17.492	$(\frac{3}{2}, \frac{5}{2}, \frac{7}{2})^- \text{ }^i$
(1800) ^c	2500 ^e	2000 ^g		(18.5)	
		2375 ± 50 ^{g,h}		18.54	
		3220 ± 50 ^h	400 ± 100	19.20	
		≈ 4800 ^h		(20.4)	

^a In ${}^7\text{Li}(\text{d}, \gamma)$, $E_{\text{res}} = 361 \pm 2$ keV (1965IM01, 1965WO01); $\Gamma_{\text{no}}/\Gamma_\gamma \approx 1.5$, $\Gamma_{\text{d}_0}/\Gamma_\gamma < 400$, $\Gamma_{\alpha_0}/\Gamma_\gamma < 20$ (1965IM01) for ${}^9\text{Be}^*(16.98)$.

^b (1965IM01).

^c (1952BA64, 1957SL01).

^d (1963PA04, 1969DE31, 1971FR04).

^e (1963PA04): broad structure.

^f (1976SC14). See also Table 9.3 in (1974AJ01).

^g (1956BE1A).

^h (1973AB10).

ⁱ (1973RO42). See, however, (1972DE44).