Table 10.14 from (1984AJ01): Resonances in ^{9}Be(p, d)^{8}Be and ^{9}Be(p, α)^{6}Li [a]

$E_{\rm p}$ (MeV)	$E_{\rm x}$ (MeV)	$\Gamma_{\rm c.m.}$ (keV)	$J^{\pi}; T$	$\Gamma_{\rm p}/\Gamma$	$\theta^2_{\rm p}$	$\theta^2_{\rm d}$	θ^2_{α}
0.34	6.89		$1^-; 0$	0.30	0.34	0.15	0.055
0.46	7.00		$1^+(2^+, 3^+)$ [d]		0.3	0.3	0.1
(0.68)	(7.20)						
0.94	7.43	140	$(2^-; 0)$	0.7	0.04	0.02	
1.15	7.62	225 ± 50	$(1^+; 0)$	≈ 0.4	≈ 0.1		
1.65	8.07	800 ± 200	$(2^-; 0)$	≈ 0.07	0.18	0.21	
(2.3)	(8.7)	(≈ 220)					
2.56 [b]	8.89	36 ± 2	$2^+; 1$				
3.5 [c]	9.7		$T = 1$				
4.49 [c]	10.62		$T = 1$				

[a] For references and for a listing of other reported references see Table 10.14 in (1979AJ01).

[b] (1977KI04) have analyzed the $(\alpha_2\gamma)$ and p_0 yields with an R-matrix formalism and find the following parameters:

$$\left.\begin{array}{ll} 2.566 \pm 0.001 & 2^+ \\ 2.561^{+10}_{-2} & 3^- \end{array}\right\} \quad \Gamma_{\rm c.m.} = \left\{\begin{array}{c} 40 \pm 1 \text{ keV} \\ 100 \pm 20 \text{ keV}. \end{array}\right.$$

[c] Resonance for α_2 to ^{6}Li*(3.56), $J^{\pi} = 0^+$, $T = 1$.

[d] See, however, Table 10.9.