

Table 9.17 from (2004TI06):
Mirror states ($T = \frac{1}{2}$) in $A = 9$ nuclei ^a

⁹ Be		⁹ B		ΔE_x (MeV) ^b
E_x (MeV)	J^π	E_x (MeV)	J^π	
0	$\frac{3}{2}^-$	0	$\frac{3}{2}^-$	
1.684	$\frac{1}{2}^+$	^c		
2.429	$\frac{5}{2}^-$	2.361	$\frac{5}{2}^-$	−0.068
2.78	$\frac{1}{2}^-$	2.75	$\frac{1}{2}^-$	−0.03
3.049	$\frac{5}{2}^+$	2.788	$\frac{5}{2}^+$	−0.261
4.704	$(\frac{3}{2})^+$	4.3		−0.4
5.59	$(\frac{3}{2})^-$			
6.38 ^d	$\frac{7}{2}^-$	6.97	$\frac{7}{2}^-$	+0.59
6.76	$\frac{9}{2}^+$			
7.94	$(\frac{5}{2})^-$			
11.283	$(\frac{7}{2})^-$	11.65	$(\frac{7}{2})^-$	+0.37
11.81	$\frac{5}{2}^-$	12.19	$\frac{5}{2}^-$	+0.25
13.79	$\pi = -$	14.01	$\pi = -$	+0.22
15.97		16.02		+0.05
16.671	$(\frac{5}{2})^+$	16.71	$(\frac{5}{2})^+$	+0.04
17.493	$(\frac{7}{2})^+$	17.54	$(\frac{7}{2})^+$	+0.05

^a As taken from [Tables 9.2](#) and [9.13](#).

^b Defined as $E_x(^9\text{B}) - E_x(^9\text{Be})$.

^c See footnote b to [Table 9.13](#).

^d See footnote b to [Table 9.2](#).