

Table 12.8 from (2017KE05): Levels observed in  ${}^9\text{Be}(\alpha, p)$ 

$E_x^a$ (MeV $\pm$ keV)	$\Gamma^a$ (keV)	$E_x^b$ (MeV $\pm$ keV)	$L_{\text{tr}}^b$	$\Gamma^b$ (keV)	$E_x^c$ (MeV $\pm$ keV)	$\Gamma^c$ (keV)	$J^\pi^c$	$E_x^{d, g}$ (MeV)	$\Gamma^d$ (keV)	$J^\pi^d$
		7.61 $\pm$ 25	3, 4, 5, 6	30 $\pm$ 15						
		7.70 $\pm$ 25	3, 4, 5, 6	100 $\pm$ 30						
		7.87 $\pm$ 25	3, 4, 5, 6	80 $\pm$ 30						
		7.99 $\pm$ 25	3, 4, 5, 6	135 $\pm$ 40						
		8.15 $\pm$ 25 <sup>e</sup>	3, 4, 5, 6	260 $\pm$ 80						
		8.17 $\pm$ 25 <sup>e</sup>	3, 4, 5, 6	45 $\pm$ 15						
		8.41 $\pm$ 25	3, 4, 5, 6	40 $\pm$ 15						
					9.035 $\pm$ 5					
		9.42 $\pm$ 15 <sup>f, j</sup>	0, 1, 2	35 $\pm$ 10	9.393 $\pm$ 6 <sup>j</sup>					
		9.46 $\pm$ 15 <sup>f, j</sup>	0, 1, 2	60 $\pm$ 20	9.434 $\pm$ 8 <sup>j</sup>					
		9.60 $\pm$ 15	3, 4, 5, 6	45 $\pm$ 10	9.582 $\pm$ 4					
10.115 $\pm$ 11	180									
		10.22 $\pm$ 15	3, 4, 5, 6	15 $\pm$ 15	10.199 $\pm$ 3	9 $\pm$ 3	(2-3) <sup>-</sup>	10.199	9 $\pm$ 3 <sup>g</sup>	2 <sup>-</sup>
10.418 $\pm$ 11	130	10.42 $\pm$ 15		115 $\pm$ 40	10.417 $\pm$ 14	61 $\pm$ 25	(0-8)	10.417		< 4 <sup>-</sup>
10.572 $\pm$ 11	< 20	10.57 $\pm$ 15	0, 1, 2	10 $\pm$ 10	10.564 $\pm$ 3	10 $\pm$ 3	(2-3) <sup>-</sup>	10.564	11 $\pm$ 3 <sup>h</sup>	2 <sup>-</sup>
		10.90 $\pm$ 15	0, 1, 2	30 $\pm$ 20	10.880 $\pm$ 3	18 $\pm$ 4	(0-3) <sup>+</sup>	10.880	17 $\pm$ 4 <sup>i</sup>	3 <sup>+</sup>
11.346 $\pm$ 11	140	11.35 $\pm$ 15	0, 1, 2	125 $\pm$ 60	11.328 $\pm$ 10	75 $\pm$ 25	$\leq$ 8	11.328	75 $\pm$ 25	$\leq$ 8
		11.58 $\pm$ 15	0, 1, 2	90 $\pm$ 30	11.571 $\pm$ 6	45 $\pm$ 15	$\leq$ 8	11.571	45 $\pm$ 15	$\leq$ 8
12.226 $\pm$ 11	160	12.23 $\pm$ 15	3, 4, 5, 6	155 $\pm$ 60						
		12.33 $\pm$ 15	3, 4, 5, 6	45 $\pm$ 20						
		12.76 $\pm$ 15	0, 1, 2	160 $\pm$ 60						
		13.31 $\pm$ 15	0, 1, 2	55 $\pm$ 15						

<sup>a</sup>  $E_\alpha = 65$  MeV (1991KU10);  $J^\pi = (1^-)$  for  ${}^{12}\text{B}^*(10.418, 10.572)$  is suggested.

<sup>b</sup>  $E_\alpha = 65$  MeV (1992BO16).  $\Delta E \approx 10$  keV, except at low excitation energy.

<sup>c</sup>  $E_\alpha = 35.2, 39.7$  MeV (1994MA05).

<sup>d</sup>  $E_\alpha = 29$  (1994MA06):  ${}^9\text{Be}(\alpha, p){}^{12}\text{B} \rightarrow {}^{11}\text{B} + n$  where neutron angular distributions and partial widths are measured.

<sup>e</sup> Previously identified as a broad state at  $E_x \approx 8.1$  MeV (1992BO16).

<sup>f</sup> Previously identified as a broad state at  $E_x \approx 9.43$  MeV (1992BO16).

<sup>g</sup>  $\Gamma_n = 8.6 \pm 2.9$  keV and  $\Gamma_\alpha < 2.1 \times 10^{-3}$  keV (1994MA06).

<sup>h</sup>  $\Gamma_n = 8.8 \pm 2.5$  keV and  $\Gamma_\alpha = 2.2 \pm 0.8$  keV (1994MA06).

<sup>i</sup>  $\Gamma_n = 13.6 \pm 3.3$  keV and  $\Gamma_\alpha = 3.4 \pm 1.1$  keV (1994MA06).

<sup>j</sup> In (1994MA05) Table 1 and (2017KE05) Table 8, these states are incorrectly correlated. The present table is corrected.