Table 10.14 from (1988AJ01): Levels of $^{10}$B from $^{9}$Be(d, n) and $^{9}$Be($^{3}$He, d) $^a$

<table>
<thead>
<tr>
<th>$E_x$ (MeV) $^a$</th>
<th>$^{9}$Be(d, n) $^b$</th>
<th>$^{9}$Be($^{3}$He, d) $^c$</th>
<th>$J^\pi$; $T$ $^a$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$l_p$</td>
<td>$S_{rel}$</td>
<td>$l_p$</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
<td>1.0</td>
<td>1</td>
</tr>
<tr>
<td>0.72</td>
<td>1</td>
<td>1.97</td>
<td>1</td>
</tr>
<tr>
<td>1.74</td>
<td>1</td>
<td>1.36</td>
<td>1</td>
</tr>
<tr>
<td>2.15</td>
<td>1</td>
<td>0.41</td>
<td>1</td>
</tr>
<tr>
<td>3.59</td>
<td>1</td>
<td>0.10</td>
<td>1</td>
</tr>
<tr>
<td>4.77</td>
<td>($\geq 2$)</td>
<td>1 + (3)$^e$</td>
<td>0.10</td>
</tr>
<tr>
<td>5.11</td>
<td>0</td>
<td>0.14</td>
<td>0 + 2</td>
</tr>
<tr>
<td>5.16</td>
<td></td>
<td>0.43</td>
<td>1</td>
</tr>
<tr>
<td>5.18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.92</td>
<td>1</td>
<td>0.49</td>
<td>1</td>
</tr>
<tr>
<td>6.03</td>
<td></td>
<td>(3)$^e$</td>
<td>$\leq 0.20$</td>
</tr>
<tr>
<td>6.13</td>
<td>(2)</td>
<td>(2)$^f$</td>
<td>3.04</td>
</tr>
<tr>
<td>6.56</td>
<td>(3)</td>
<td>(2)$^f$</td>
<td>2.01</td>
</tr>
<tr>
<td>6.89 ± 15</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.00 ± 15</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.48 ± 15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.56 ± 25</td>
<td>d</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(7.85 ± 50)</td>
<td>d</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(8.07 ± 50)</td>
<td>d</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(8.12 ± 50)</td>
<td>d</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$^a$ Values without uncertainties are from Table 10.5; others are from Table 10.15 in (1979AJ01). See that table for additional information and for references. See also (1984AJ01).

$^b$ $S_{rel}$ from experiment at $E_d = 12.0 - 16.0$ MeV.

$^c$ $E(^{3}$He$) = 18$ MeV; DWBA analysis; values shown are those obtained with one of the two optical-model potentials used in the analysis. For earlier ($^{3}$He, d) results see Table 10.17 in (1979AJ01).

$^d$ State observed in (d, n) reaction; $l_p$ not determined.

$^e$ Angular distribution poorly fitted by DWBA.

$^f$ See (1980BL02) for a discussion of these two states, including a comparison with the (d, n) data: $l_p = 2$ is slightly preferred to $l_p = 1$ on the basis of the observed strengths. Neither $l_p = 2$ nor 1 gives a good DWBA fit.

$^g$ Group shown corresponds to unresolved states in $^{10}$B.