Table 12.20 from (1990AJ01): Recent work on angular distributions in the interaction of $^6$Li, $^7$Li, $^9$Be, $^{10}$B, $^{11}$B, $^{12}$C and $^{16}$O with $^{12}$C

<table>
<thead>
<tr>
<th>$E$ (MeV)</th>
<th>To states in $^{12}$C at $E_x$ (MeV)</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>$E(^{6}$Li) = 24, 30</td>
<td>0</td>
<td>(1984VI02)</td>
</tr>
<tr>
<td>24, 30</td>
<td>0, 4.4, 7.7, 9.6</td>
<td>(1985VI03)</td>
</tr>
<tr>
<td>30</td>
<td>0</td>
<td>(1989VA04)</td>
</tr>
<tr>
<td>90</td>
<td>0, 4.4, 9.6</td>
<td>(1987DE02)</td>
</tr>
<tr>
<td>123.5, 168.6</td>
<td>0, 4.4, 7.7, 9.6</td>
<td>(1988KA09)</td>
</tr>
<tr>
<td>150</td>
<td>0</td>
<td>(1987TA21)</td>
</tr>
<tr>
<td>156</td>
<td>0</td>
<td>(1989JE01)</td>
</tr>
<tr>
<td>156</td>
<td>7.7, 9.6, $\approx 10.2$, 10.8</td>
<td>(1987EY01)</td>
</tr>
<tr>
<td>210</td>
<td>0</td>
<td>(1988NA02, 1987WI09)</td>
</tr>
<tr>
<td>210</td>
<td>4.4</td>
<td>(1986MCZZ, 1988MCZY)</td>
</tr>
<tr>
<td>$E(^{7}$Li) = 34</td>
<td>0</td>
<td>(1984VI02)</td>
</tr>
<tr>
<td>34</td>
<td>0, 4.4, 9.6</td>
<td>(1986CO02)</td>
</tr>
<tr>
<td>78</td>
<td>0, 4.4, 7.7</td>
<td>(1986GLZU)</td>
</tr>
<tr>
<td>131.8</td>
<td>0, 4.4, 7.7, 9.6</td>
<td>(1988KA09)</td>
</tr>
<tr>
<td>$E(^{9}$Be) = 158.3</td>
<td>0, 4.4</td>
<td>(1984FU10)</td>
</tr>
<tr>
<td>$E(^{12}$C) = 65 d</td>
<td>0, 4.4, 7.7, 9.6</td>
<td>(1985GO1H)</td>
</tr>
<tr>
<td>$E(^{11}$B) = 10.4, 12.4, 14.6</td>
<td>0</td>
<td>(1985JA01)</td>
</tr>
<tr>
<td>42.5, 60.0, 80.0, 100.0</td>
<td>0</td>
<td>(1985MA10)</td>
</tr>
<tr>
<td>48 and $E(^{12}$C) = 52.4 e</td>
<td>0</td>
<td>(1986MA13)</td>
</tr>
<tr>
<td>$E(^{12}$C) = 65 e</td>
<td>0, 4.4, 7.7, 9.6</td>
<td>(1985GO1H)</td>
</tr>
<tr>
<td>$E(^{12}$C) (MeV)</td>
<td>To states in $^{12}$C at $E_x$ (MeV)</td>
<td>References</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>(1989VE03)</td>
</tr>
<tr>
<td>35, 43</td>
<td>0</td>
<td>(1985PA24)</td>
</tr>
<tr>
<td>53 $\rightarrow$ 61</td>
<td>7.7</td>
<td>(1988PA04)</td>
</tr>
<tr>
<td>139.5, 158.8</td>
<td>0, 4.4, 14.1</td>
<td>(1985KU12)</td>
</tr>
<tr>
<td>139.5, 158.8</td>
<td>0, 4.4, 7.7, 9.6</td>
<td>(1985KU23)</td>
</tr>
<tr>
<td>180, 300, 420</td>
<td>0</td>
<td>(1986SA29)</td>
</tr>
<tr>
<td>240</td>
<td>0, 4.4</td>
<td>(1985BO39)</td>
</tr>
</tbody>
</table>
Table 12.20 from (1990AJ01): Recent work \(^a\) on angular distributions in the interaction of \(^6\)Li, \(^7\)Li, \(^9\)Be, \(^{10}\)B, \(^{11}\)B, \(^{12}\)C and \(^{16}\)O with \(^{12}\)C (continued)

<table>
<thead>
<tr>
<th>(E^{(16})O) (MeV) (^f)</th>
<th>To states in (^{12})C at (E_x) (MeV)</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>360, 1016</td>
<td>0, 4.4</td>
<td>(1984BU22)</td>
</tr>
<tr>
<td>1449, 2400</td>
<td>0</td>
<td>(1986ME14, 1987HO03)</td>
</tr>
<tr>
<td>1449, 2400</td>
<td>0, 4.4</td>
<td>(1988HO18)</td>
</tr>
</tbody>
</table>

\(a\) For the earlier work see (1980AJ01) and Table 12.20 in (1985AJ01).

\(b\) Polarized beam.

\(c\) Preliminary results.

\(d\) Reaction 45.

\(e\) Reaction 46 (b).

\(f\) Reaction 49.