Table 17.27 from (1993TI07): $\beta^+$ decay of $^{17}$Ne \textsuperscript{a}

<table>
<thead>
<tr>
<th>Decay to $^{17}$F# (MeV)</th>
<th>$J^\pi$</th>
<th>Total branching ratio (%)</th>
<th>$\log ft$ \textsuperscript{c}</th>
<th>Decay branches \textsuperscript{d}</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ref. \textsuperscript{a}</td>
<td>Ref. \textsuperscript{b}</td>
</tr>
<tr>
<td>0.0</td>
<td>$\frac{5}{2}^+$</td>
<td>0.55 ± 0.17 \textsuperscript{e}</td>
<td>9.56\textsuperscript{1u}+0.16 \textsuperscript{f}\textsuperscript{g} &amp;</td>
<td></td>
</tr>
<tr>
<td>0.495</td>
<td>$\frac{1}{2}^+$</td>
<td>0.61 ± 0.10 \textsuperscript{e}</td>
<td>6.80\textsuperscript{+0.08 \textsuperscript{−0.06}} &amp;</td>
<td></td>
</tr>
<tr>
<td>3.10</td>
<td>$\frac{1}{2}^-$</td>
<td>0.10±0.03 \textsuperscript{e}</td>
<td>7.12\textsuperscript{+0.05 \textsuperscript{−0.11}} &amp; p\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>4.65</td>
<td>$\frac{3}{2}^-$</td>
<td>16.54 ± 0.14</td>
<td>4.57 ± 0.05 &amp; p\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>5.49</td>
<td>$\frac{3}{2}^-$</td>
<td>59.16 ± 0.4</td>
<td>3.811 ± 0.015 &amp; p\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>6.04</td>
<td>$\frac{3}{2}^-$</td>
<td>7.8 ± 0.2</td>
<td>4.545 ± 0.018 &amp; p\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>8.08</td>
<td>$\frac{5}{2}^-$</td>
<td>7.3 ± 0.9</td>
<td>3.93 ± 0.06 &amp; p\textsubscript{0}, p\textsubscript{1}, α\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>8.2</td>
<td>$\frac{3}{2}^-$</td>
<td>1.7 ± 0.3</td>
<td>4.51 ± 0.09 &amp; p\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>8.43</td>
<td>$\frac{1}{2}^-$</td>
<td>4.0 ± 0.9</td>
<td>4.05 ± 0.10 &amp; p\textsubscript{0}, p\textsubscript{1}, p\textsubscript{3}, α\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>9.4\textsuperscript{h}</td>
<td>$\frac{1}{2}^-$</td>
<td>0.6 ± 0.2</td>
<td>4.43\textsuperscript{+0.19 \textsuperscript{−0.13}} &amp; p\textsubscript{0}, p\textsubscript{1}/p\textsubscript{2}, α\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>10.0\textsuperscript{h}</td>
<td>$\frac{1}{2}^-$</td>
<td>0.7 ± 0.3</td>
<td>4.05\textsuperscript{+0.26 \textsuperscript{−0.16}} &amp; p\textsubscript{0}, p\textsubscript{1}, α\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>10.66\textsuperscript{h}</td>
<td>$\frac{1}{2}^-$</td>
<td>0.007 ± 0.004</td>
<td>5.7\textsuperscript{+0.4 \textsuperscript{−0.2}} &amp; p\textsubscript{0}, α\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>10.9</td>
<td>$\frac{1}{2}^-$</td>
<td>0.016 ± 0.006</td>
<td>5.14\textsuperscript{+0.22 \textsuperscript{−0.17}} &amp; p\textsubscript{0}, α\textsubscript{0}</td>
<td></td>
</tr>
<tr>
<td>11.193</td>
<td>$\frac{1}{2}^-$</td>
<td>0.64 ± 0.14</td>
<td>3.31 ± 0.11 &amp; p\textsubscript{0}, p\textsubscript{1}, p\textsubscript{2}, p\textsubscript{4}, α\textsubscript{0}, α\textsubscript{1}</td>
<td></td>
</tr>
<tr>
<td>12.23</td>
<td>$\frac{1}{2}^-$</td>
<td>0.001 ± 0.0006</td>
<td>4.98\textsuperscript{+0.41 \textsuperscript{−0.23}} &amp; p\textsubscript{0}</td>
<td></td>
</tr>
</tbody>
</table>

\textsuperscript{a} (1988BO39). See also Table 17.21 in (1986AJ04).

\textsuperscript{b} (1971HA05).

\textsuperscript{c} We are grateful to Dr. M. Martin for providing these $\log ft$ values calculated for the branchings measured in (1988BO39).

\textsuperscript{d} Proton decay to states $^{16}$O* (0.0, 6.05, 6.13, 6.92, 7.16) are indicated by p\textsubscript{0}, p\textsubscript{1}, p\textsubscript{2}, p\textsubscript{3}, p\textsubscript{4}, respectively. Alpha decay to $^{13}$N* (0.0, 2.36) are indicated by α\textsubscript{0}, α\textsubscript{1}, respectively.

\textsuperscript{e} Based on assumption that $\log ft$ values are the same as for the $^{17}$N mirror decays.

\textsuperscript{f} From $^{17}$N $\beta^−$ decay.

\textsuperscript{g} Obtained by (1988BO39) from addition of several of the peaks in (1971HA05).

\textsuperscript{h} New levels observed by (1988BO39) with measured energies, $E_x = 9.450 \pm 0.050, 10.030 \pm 0.060, 10.660 \pm 0.020$ MeV and widths $\Gamma = 200 \pm 40, 170 \pm 40, 90 \pm 60$ keV, respectively.