$$
H_{101} \quad = \quad \left[\begin{array}{cccccccc}
-6\,\mu + U & 0 & \frac{-3\,t}{4} - \frac{3\,\mathbf{i}}{4}\,\sqrt{3}\,t & \frac{\mathbf{i}}{2}\,\sqrt{3}\,t & \frac{3\,\mathbf{i}}{2}\,t & 0 & 0 & \frac{3\,\mathbf{i}}{4}\,t - \frac{3\,\sqrt{3}\,t}{4} \\
0 & -6\,\mu + 2\,U & \frac{3\,t}{4} + \frac{\mathbf{i}}{4}\,\sqrt{3}\,t & 0 & 0 & 0 & 0 & \frac{-3\,\mathbf{i}}{4}\,t + \frac{\sqrt{3}\,t}{4} \\
\frac{-3\,t}{4} + \frac{3\,\mathbf{i}}{4}\,\sqrt{3}\,t & \frac{3\,t}{4} - \frac{\mathbf{i}}{4}\,\sqrt{3}\,t & -6\,\mu + 2\,U & 0 & 0 & \frac{3\,\mathbf{i}}{4}\,t - \frac{\sqrt{3}\,t}{4} & \frac{3\,\mathbf{i}}{4}\,t + \frac{\sqrt{3}\,t}{4} & 0 \\
\frac{-\mathbf{i}}{2}\,\sqrt{3}\,t & 0 & 0 & -6\,\mu + U & 0 & \frac{-\left(\sqrt{3}\,t\right)}{2} & \frac{3\,\mathbf{i}}{2}\,t - \frac{\sqrt{3}\,t}{2} & 0 \\
\frac{-3\,\mathbf{i}}{2}\,t & 0 & 0 & 0 & -6\,\mu + U & \frac{t}{2} & \frac{-t}{2} + \frac{\mathbf{i}}{2}\,\sqrt{3}\,t & 0 \\
0 & 0 & \frac{-3\,\mathbf{i}}{4}\,t - \frac{\sqrt{3}\,t}{4} & \frac{-\left(\sqrt{3}\,t\right)}{2} & \frac{t}{2} & -6\,\mu + U & 0 & \frac{5\,t}{4} + \frac{\mathbf{i}}{4}\,\sqrt{3}\,t \\
0 & 0 & \frac{-3\,\mathbf{i}}{4}\,t + \frac{\sqrt{3}\,t}{4} & \frac{-3\,\mathbf{i}}{2}\,t - \frac{\sqrt{3}\,t}{2} & \frac{-t}{2} - \frac{\mathbf{i}}{2}\,\sqrt{3}\,t & 0 & -6\,\mu + 2\,U & \frac{t}{4} + \frac{3\,\mathbf{i}}{4}\,\sqrt{3}\,t \\
\frac{-3\,\mathbf{i}}{4}\,t - \frac{3\,\sqrt{3}\,t}{4} & \frac{3\,\mathbf{i}}{4}\,t + \frac{\sqrt{3}\,t}{4} & 0 & 0 & 0 & \frac{5\,t}{4} - \frac{\mathbf{i}}{4}\,\sqrt{3}\,t & \frac{t}{4} - \frac{3\,\mathbf{i}}{4}\,\sqrt{3}\,t & -6\,\mu + 2\,U
\end{array} \right]
$$