$$H_{100} = \begin{bmatrix} -6\,\mu + U & -\mathbf{i}\sqrt{\frac{3}{2}}\,t - \frac{3\,t}{\sqrt{2}} & 0 \\ \mathbf{i}\sqrt{\frac{3}{2}}\,t - \frac{3\,t}{\sqrt{2}} & -6\,\mu + U & \frac{-3\,t}{2} - \frac{\mathbf{i}}{2}\sqrt{3}\,t \\ 0 & \frac{-3\,t}{2} + \frac{\mathbf{i}}{2}\sqrt{3}\,t & -6\,\mu + U \end{bmatrix}$$