$$H_{167} = \begin{bmatrix} 4\,h - 6\,\mu + U & \mathbf{i}\,\sqrt{\frac{3}{2}}\,t - \frac{3\,t}{\sqrt{2}} & 0 \\ -\mathbf{i}\,\sqrt{\frac{3}{2}}\,t - \frac{3\,t}{\sqrt{2}} & 4\,h - 6\,\mu + U & \frac{-3\,t}{2} + \frac{\mathbf{i}}{2}\,\sqrt{3}\,t \\ 0 & \frac{-3\,t}{2} - \frac{\mathbf{i}}{2}\,\sqrt{3}\,t & 4\,h - 6\,\mu + U \end{bmatrix}$$