$$H_{164} = \begin{bmatrix} 4\,h - 6\,\mu + U & \frac{-3\,t}{2} - \frac{\mathbf{i}}{2}\sqrt{3}\,t & 0 \\ \frac{-3\,t}{2} + \frac{\mathbf{i}}{2}\sqrt{3}\,t & 4\,h - 6\,\mu + U & \mathbf{i}\sqrt{\frac{3}{2}}\,t + \frac{3\,t}{\sqrt{2}} \\ 0 & -\mathbf{i}\sqrt{\frac{3}{2}}\,t + \frac{3\,t}{\sqrt{2}} & 4\,h - 6\,\mu \end{bmatrix}$$