$$K^2_{103} = \begin{bmatrix} \frac{-9\,U}{2\,t} & \frac{\left(3+\mathbf{i}\,\sqrt{3}\right)U^2}{4\,t^2} & \frac{3\left(\mathbf{i}+\sqrt{3}\right)U}{2\,\sqrt{2}\,t} \\ \frac{\left(3-\mathbf{i}\,\sqrt{3}\right)U^2}{4\,t^2} & \frac{-15\,U}{2\,t} & 0 \\ \frac{3\left(-\mathbf{i}+\sqrt{3}\right)U}{2\,\sqrt{2}\,t} & 0 & \frac{-6\,U}{t} \end{bmatrix}$$