$$K_{108}^2 = \begin{bmatrix} \frac{-3\,U}{t} & \frac{\frac{\mathbf{i}}{2}\left(3\,\mathbf{i}+\sqrt{3}\right)U^2}{\sqrt{2}\,t^2} & \frac{3\left(1-\mathbf{i}\,\sqrt{3}\right)U}{2\,\sqrt{2}\,t} \\ \frac{\frac{-\mathbf{i}}{2}\left(-3\,\mathbf{i}+\sqrt{3}\right)U^2}{\sqrt{2}\,t^2} & \frac{-3\,U}{2\,t} & \frac{\frac{\mathbf{i}}{4}\left(3\,\mathbf{i}+\sqrt{3}\right)U^2}{t^2} \\ \frac{3\left(1+\mathbf{i}\,\sqrt{3}\right)U}{2\,\sqrt{2}\,t} & \frac{\frac{-\mathbf{i}}{4}\left(-3\,\mathbf{i}+\sqrt{3}\right)U^2}{t^2} & \frac{-9\,U}{2\,t} \end{bmatrix}$$