$$K^{1}_{136} = \left[\begin{array}{cccc} 0 & 0 & \mathbf{i}\sqrt{6} & 0 \\ 0 & 0 & \frac{\mathbf{i}\left(3\,\mathbf{i}+\sqrt{3}\right)U}{\sqrt{2}\,t} & \frac{3+\mathbf{i}\sqrt{3}}{\sqrt{2}} \\ \mathbf{i}\sqrt{6} & \frac{\left(3+\mathbf{i}\sqrt{3}\right)U}{\sqrt{2}\,t} & -\mathbf{i}\sqrt{3} & \frac{\frac{\mathbf{i}}{2}\left(3\,\mathbf{i}+\sqrt{3}\right)U}{t} \\ 0 & \frac{\mathbf{i}\left(3\,\mathbf{i}+\sqrt{3}\right)}{\sqrt{2}} & \frac{\left(3+\mathbf{i}\sqrt{3}\right)U}{2\,t} & -\mathbf{i}\sqrt{3} \end{array}\right]$$