$$K^1_{150} = \begin{bmatrix}
\frac{-\mathbf{i}}{\sqrt{3}} & \frac{(7+5\,\mathbf{i}\,\sqrt{3})\,U}{12\,t} & 0 & \frac{9\,\mathbf{i}-\sqrt{3}}{12} & -1+\frac{\mathbf{i}}{\sqrt{3}} & \frac{-((-3\,\mathbf{i}+\sqrt{3})\,U)}{6\,t} & 0 & -\left(\frac{1}{4}\right)+\frac{3\,\mathbf{i}}{4}\,\sqrt{3} & \frac{1}{\sqrt{2}}+\frac{\mathbf{i}}{\sqrt{6}} & \frac{\frac{\mathbf{i}}{3}\,\sqrt{2}\,(\mathbf{i}+\sqrt{3})\,U}{t} & -\mathbf{i}-\frac{1}{2\,\sqrt{3}} & \frac{-((-3\,\mathbf{i}+\sqrt{3})\,U)}{12\,t} \\
\frac{(-7+5\,\mathbf{i}\,\sqrt{3})\,U}{12\,t} & \frac{-\mathbf{i}}{\sqrt{3}} & \frac{3\,\mathbf{i}}{2}+\frac{1}{\sqrt{3}} & 0 & 0 & \mathbf{i}-\frac{1}{\sqrt{3}} & \frac{1}{2} & 0 & \frac{\frac{\mathbf{i}}{3}\,(\mathbf{i}+\sqrt{3})\,U}{\sqrt{2}\,t} & \frac{1}{\sqrt{2}}+\frac{\mathbf{i}}{\sqrt{6}} & \frac{-((3\,\mathbf{i}+\sqrt{3})\,U)}{4\,t} & \frac{-\mathbf{i}}{2}+\frac{1}{\sqrt{3}} \\
0 & \frac{3\,\mathbf{i}}{2}-\frac{1}{\sqrt{3}} & \frac{\mathbf{i}}{2}\,\sqrt{3} & \frac{U-3\,\mathbf{i}\,\sqrt{3}\,U}{4\,t} & 0 & -1 & \frac{-\sqrt{3}}{2} & \frac{(3\,\mathbf{i}+\sqrt{3})\,U}{4\,t} & 0 & \sqrt{\frac{2}{3}} & 0 & 1-\frac{\mathbf{i}}{2}\,\sqrt{3} \\
\frac{9\,\mathbf{i}+\sqrt{3}}{12} & 0 & \frac{-(U+3\,\mathbf{i}\,\sqrt{3}\,U)}{4\,t} & \frac{-\mathbf{i}}{2}\,\sqrt{3} & 0 & 0 & \frac{-((-3\,\mathbf{i}+\sqrt{3})\,U)}{4\,t} & \frac{3\,\mathbf{i}}{2} & \frac{\mathbf{i}}{\sqrt{2}}+\frac{1}{\sqrt{6}} & 0 & \frac{\mathbf{i}}{4}\,\left(\mathbf{i}+\sqrt{3}\right) & 0 \\
1+\frac{\mathbf{i}}{\sqrt{3}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\mathbf{i}\,\sqrt{\frac{2}{3}} & 0 & -\mathbf{i}-\sqrt{3} & 0 \\
\frac{(3\,\mathbf{i}+\sqrt{3})\,U}{6\,t} & \mathbf{i}+\frac{1}{\sqrt{3}} & 1 & 0 & 0 & 0 & \sqrt{3} & 0 & \frac{-((-3\,\mathbf{i}+\sqrt{3})\,U)}{3\,\sqrt{2}\,t} & \frac{\mathbf{i}}{\sqrt{2}}+\frac{1}{\sqrt{6}} & \frac{U+\mathbf{i}\,\sqrt{3}\,U}{2\,t} & 0 \\
0 & -\left(\frac{1}{2}\right) & \frac{\sqrt{3}}{2} & \frac{(3\,\mathbf{i}+\sqrt{3})\,U}{4\,t} & 0 & -\sqrt{3} & \frac{\mathbf{i}}{2}\,\sqrt{3} & \frac{(3-\mathbf{i}\,\sqrt{3})\,U}{4\,t} & 0 & -\sqrt{2} & 0 & \frac{-\sqrt{3}}{2} \\
\frac{1+3\,\mathbf{i}\,\sqrt{3}}{4} & 0 & \frac{-((-3\,\mathbf{i}+\sqrt{3})\,U)}{4\,t} & \frac{3\,\mathbf{i}}{2} & 0 & 0 & \frac{\frac{-\mathbf{i}}{4}\,(-3\,\mathbf{i}+\sqrt{3})\,U}{t} & \frac{\mathbf{i}}{2}\,\sqrt{3} & \frac{1+\mathbf{i}\,\sqrt{3}}{\sqrt{2}} & 0 & \frac{3\,\mathbf{i}-\sqrt{3}}{4} & 0 \\
-\left(\frac{1}{\sqrt{2}}\right)+\frac{\mathbf{i}}{\sqrt{6}} & \frac{\sqrt{2}\,U+\mathbf{i}\,\sqrt{6}\,U}{6\,t} & 0 & \frac{\mathbf{i}}{\sqrt{2}}-\frac{1}{\sqrt{6}} & -\mathbf{i}\,\sqrt{\frac{2}{3}} & \frac{(3\,\mathbf{i}+\sqrt{3})\,U}{3\,\sqrt{2}\,t} & 0 & \frac{\mathbf{i}\,(\mathbf{i}+\sqrt{3})}{\sqrt{2}} & \frac{-\mathbf{i}}{\sqrt{3}} & \frac{\frac{\mathbf{i}}{6}\,(5\,\mathbf{i}+\sqrt{3})\,U}{t} & \frac{\mathbf{i}}{\sqrt{2}}+\frac{1}{\sqrt{6}} & \frac{-((3\,\mathbf{i}+\sqrt{3})\,U)}{3\,\sqrt{2}\,t} \\
\frac{\sqrt{2}\,(1+\mathbf{i}\,\sqrt{3})\,U}{3\,t} & -\left(\frac{1}{\sqrt{2}}\right)+\frac{\mathbf{i}}{\sqrt{6}} & -\sqrt{\frac{2}{3}} & 0 & 0 & \frac{\mathbf{i}}{\sqrt{2}}-\frac{1}{\sqrt{6}} & \sqrt{2} & 0 & \frac{(5+\mathbf{i}\,\sqrt{3})\,U}{6\,t} & \frac{-\mathbf{i}}{\sqrt{3}} & 0 & \frac{\mathbf{i}}{\sqrt{2}}+\frac{1}{\sqrt{6}} \\
\frac{-6\,\mathbf{i}+\sqrt{3}}{6} & \frac{(-3\,\mathbf{i}+\sqrt{3})\,U}{4\,t} & 0 & \frac{1+\mathbf{i}\,\sqrt{3}}{4} & -\mathbf{i}+\sqrt{3} & \frac{\frac{\mathbf{i}}{2}\,(\mathbf{i}+\sqrt{3})\,U}{t} & 0 & \frac{3\,\mathbf{i}+\sqrt{3}}{4} & \frac{\mathbf{i}}{\sqrt{2}}-\frac{1}{\sqrt{6}} & 0 & \frac{\mathbf{i}}{2}\,\sqrt{3} & \frac{(3+\mathbf{i}\,\sqrt{3})\,U}{4\,t} \\
\frac{(3\,\mathbf{i}+\sqrt{3})\,U}{12\,t} & \frac{-\mathbf{i}}{2}-\frac{1}{\sqrt{3}} & -1-\frac{\mathbf{i}}{2}\,\sqrt{3} & 0 & 0 & 0 & \frac{\sqrt{3}}{2} & 0 & \frac{(-3\,\mathbf{i}+\sqrt{3})\,U}{3\,\sqrt{2}\,t} & \frac{\mathbf{i}}{\sqrt{2}}-\frac{1}{\sqrt{6}} & \frac{\frac{\mathbf{i}}{4}\,(3\,\mathbf{i}+\sqrt{3})\,U}{t} & \frac{-\mathbf{i}}{2}\,\sqrt{3}
\end{bmatrix}$$