$$K_{23}^{2} = \begin{bmatrix} \frac{-5\,U}{t} & -\left(\frac{U^2}{\sqrt{2}\,t^2}\right) & 0 & -\left(\frac{U}{\sqrt{2}\,t}\right) \\ -\left(\frac{U^2}{\sqrt{2}\,t^2}\right) & \frac{-7\,U}{2\,t} & -\left(\frac{U}{\sqrt{2}\,t}\right) & 0 \\ 0 & -\left(\frac{U}{\sqrt{2}\,t}\right) & \frac{-4\,U}{t} & \frac{U^2}{\sqrt{2}\,t^2} \\ -\left(\frac{U}{\sqrt{2}\,t}\right) & 0 & \frac{U^2}{\sqrt{2}\,t^2} & \frac{-11\,U}{2\,t} \end{bmatrix}$$