$$K_{53}^{2} \quad = \quad \left[\begin{array}{cc} \frac{-3\,U}{2\,t} & -4 - \frac{U^2}{2\,t^2} \\ -4 - \frac{U^2}{2\,t^2} & \frac{-3\,U}{2\,t} \end{array} \right]$$