



Figure 4.17: Approximation to the biharmonic differential operator: Coefficients of the precision matrix.

differential operator is of dimension three and is spanned by the column vectors of

$$\begin{pmatrix} 1 & \kappa_1^{(1)} & \kappa_1^{(2)} \\ 1 & \kappa_2^{(1)} & \kappa_1^{(2)} \\ \vdots & \vdots & \vdots \\ 1 & \kappa_{d_1}^{(1)} & \kappa_1^{(2)} \\ 1 & \kappa_1^{(1)} & \kappa_2^{(2)} \\ \vdots & \vdots & \vdots \\ 1 & \kappa_{d_1}^{(1)} & \kappa_2^{(2)} \\ \vdots & \vdots & \vdots \\ 1 & \kappa_1^{(1)} & \kappa_{d_2}^{(2)} \\ \vdots & \vdots & \vdots \\ 1 & \kappa_{d_1}^{(1)} & \kappa_{d_2}^{(2)} \end{pmatrix}.$$