

## Gaußscher Algorithmus

$$A = \left( \begin{array}{ccc|c} a_{11} & \cdots & \star & \star \\ \vdots & \ddots & \vdots & \\ 0 & \cdots & a_{kk} & \\ \hline & 0 & & B \end{array} \right)$$

$$A' = \left( \begin{array}{ccc|c} a_{11} & \cdots & \star & \star \\ \vdots & \ddots & \vdots & \\ 0 & \cdots & a_{kk} & \\ \hline & 0 & & \begin{array}{c} a'_{k+1,k+1} \\ \vdots \\ a'_{m,k+1} \end{array} B' \end{array} \right) \quad \text{mit } a'_{k+1,k+1} \neq 0$$

$$A'' = \left( \begin{array}{ccc|c} a_{11} & \cdots & \star & \star \\ \vdots & \ddots & \vdots & \\ 0 & \cdots & a_{kk} & \\ \hline & 0 & & \begin{array}{c|c} a'_{k+1,k+1} & \star \\ \vdots & \\ 0 & B'' \end{array} \end{array} \right)$$