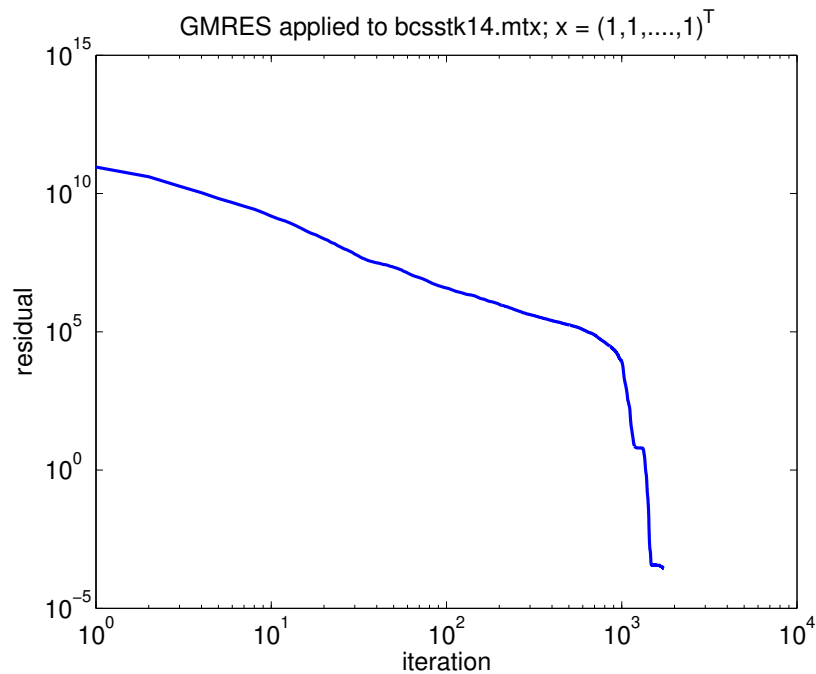


convergence history of GMRES for an SPD matrix



- $\mathbf{A} = \text{bcsstk14.mtx}$
(<https://math.nist.gov/MatrixMarket/>)
- $\mathbf{A} \in \mathbb{R}^{1806 \times 1806}$ SPD

observations:

- linear reduction of the residual
- GMRES “finds” the exact solution after n steps
- round-off prevents GMRES from finding the exact solution after n