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Lower Bounds for the Spectral Norm

Authors: [Jorma K. Merikoski](#), [Ravinder Kumar](#),

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Abstract: Let \mathbf{A} be a complex $m \times n$ matrix. We find simple and good lower bounds for its spectral norm $\|\mathbf{A}\| = \max\{\|\mathbf{Ax}\| \mid \mathbf{x} \in \mathbb{C}^n, \|\mathbf{x}\| = 1\}$ by choosing \mathbf{x} smartly. Here $\|\cdot\|$ applied to a vector denotes the Euclidean norm.



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