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*The Ky Fan norms of graphs and matrices*

The trace norm of graphs has been extensively studied under the name of graph energy. The trace norm of a matrix is just one of its Ky Fan  $k$ -norms, equal to the sum of its  $k$  largest singular values. This talk presents extremal results about Ky Fan norms of graphs and matrices. Relations to chromatic number, spectral radius, spread, and to other fundamental parameters are given.