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Diagonals of operators with specified singular values

Abstract

Thompson's theorem provides a characterization of the diagonals of finite matrices with specified singular values. This theorem is part of the broader study of diagonals of operators including the Schur-Horn theorem. Here we present an extension of Thompson's theorem to compact operators and show how the techniques can also be used to characterize diagonals of unitary operators. This is joint work with John Jasper and Gary Weiss.

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