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Linear programming bounds for unitary codes. (English) Zbl 1213.94200

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Summary: The linear programming method is developed in the space of unitary matrices in order to obtain bounds for unitary codes relative to the so-called diversity sum and diversity product. Theoretical and numerical results improving previously known bounds are derived.

MSC:

[94B65](#) Bounds on codes

[05E99](#) Algebraic combinatorics

[94A99](#) Communication, information

[68P30](#) Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) (aspects in computer science)

[49K21](#) Optimality conditions for problems involving relations other than differential equations

[49R99](#) Variational methods for eigenvalues of operators (should also be assigned at least one other classification number in Section 49-XX)

[49S99](#) Variational principles of physics (should also be assigned at least one other classification number in Section 49-XX)

Keywords:

[bounds](#); [linear programming](#); [space time codes](#); [unitary codes](#); [unitary matrices](#)

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