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**PERFORMANCE OF TRIGONOMETRIC GENERATING
FUNCTIONS ON SOME COMBINATORIAL PROBLEMS**

Yu. NESTEROV¹

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Abstract

In this paper we analyze computational performance of dual trigonometric generating functions on some integer programming problems. We show that if the number of equality constraints is fixed, then this technique allows to solve the problems in time, which is polynomial in the dimension of the space of variables.

Keywords: integer programming, generating functions, polynomial complexity, dynamic programming, knapsack problem.

¹CORE and INMA, Université catholique de Louvain, Belgium. E-mail: nesterov@core.ucl.ac.be

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