



North Caucasus Center for Mathematical Research
of the Vladikavkaz Scientific Center of the RAS
Southern Mathematical Institute
of the Vladikavkaz Scientific Center of the RAS



International Seminar
"Operator Theory, Differential Equations and their Applications"

Seminar Chairmen: Prof. Anatoly G. Kusraev, Prof. Marat A. Pliev
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Operators of almost Hadamard type in the space of entire functions

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We introduce the class of operators of almost Hadamard type, that is, continuous linear operators that act on a locally convex space containing all polynomials of N variables and have the property that the homogeneous polynomials of any given degree form their invariant subspace. The Hadamard-type (diagonal) operators, for which each monomial is an eigenvector, are a special case of operators of almost Hadamard type. The operators of almost Hadamard type are studied in the space of all entire functions of several complex variables. The results are used to describe all linear operators continuous in this space and commuting in it with the multidimensional analog of the Hardy–Littlewood operator.

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The seminar is organized by North Caucasus Center for Mathematical Research of the Vladikavkaz Scientific Center of the RAS jointly with Southern Mathematical Institute of the Vladikavkaz Scientific Center of the RAS.

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