

CONTEMPORARY MATHEMATICS

733

Functional Analysis and Geometry:
Selim Grigorievich Krein Centennial

Peter Kuchment
Evgeny Semenov
Editors

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Dedicated to the centennial of Professor Selim Grigorievich Krein



Photograph provided by Dr. T. Voronina (nee Krein).

Selim Grigorievich Krein

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Preface

This is the first of the two volumes dedicated to the centennial of distinguished mathematician Professor Selim Grigorievich Krein. Krein has made numerous major contributions to functional analysis, operator theory, partial differential equations, fluid dynamics, and other areas. He had written several influential monographs in these areas. He had also been a prolific teacher, graduating 83 PhD students, including quite a few well known mathematicians currently scattered around the globe. Another his major activity was creation and running the annual Voronezh Winter Mathematical Schools, which has influenced significantly the mathematical life in the former Soviet Union since 1967.

The articles in this volume are written by former students and colleagues of Selim Krein, as well as lecturers and participants of Voronezh Winter Schools. They are devoted to a variety of contemporary problems of functional analysis, operator theory, several complex variables, topological dynamics, and algebraic, convex, and integral geometry. The papers present new or survey recent results in these areas.

The editors express their sincere gratitude to all the contributors to the volume and to the AMS publishing staff, in particular to Ms. Christine Thivierge and production editor Mike Saitas, for great help provided. Special thanks go to Prof. R. S. Adamova for providing important information.

The next planned volume will address problems of differential equations, fluid dynamics, and applications.

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November 24th, 2018

This is the first of two volumes dedicated to the centennial of the distinguished mathematician Selim Grigorievich Krein. The companion volume is Contemporary Mathematics, Volume 734.

Krein was a major contributor to functional analysis, operator theory, partial differential equations, fluid dynamics, and other areas, and the author of several influential monographs in these areas. He was a prolific teacher, graduating 83 Ph.D. students. Krein also created and ran, for many years, the annual Voronezh Winter Mathematical Schools, which significantly influenced mathematical life in the former Soviet Union.

The articles contained in this volume are written by prominent mathematicians, former students and colleagues of Selim Krein, as well as lecturers and participants of Voronezh Winter Schools. They are devoted to a variety of contemporary problems in functional analysis, operator theory, several complex variables, topological dynamics, and algebraic, convex, and integral geometry.



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