

CONTEMPORARY MATHEMATICS

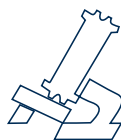
699

Israel Mathematical Conference Proceedings

Complex Analysis and Dynamical Systems VII

Seventh International Conference
Complex Analysis and Dynamical Systems
May 10–15, 2015
Nahariya, Israel

Mark L. Agranovsky
Matania Ben-Artzi
Catherine Bénéteau
Lavi Karp
Dmitry Khavinson
Simeon Reich
David Shoikhet
Gilbert Weinstein
Lawrence Zalcman
Editors



American Mathematical Society
Providence, Rhode Island

Bar-Ilan University
Ramat-Gan, Israel

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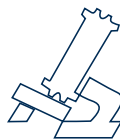
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Preface

The Seventh International Conference on Complex Analysis and Dynamical Systems (CA&DS VII), sponsored by ORT Braude College (Karmiel, Israel), Bar-Ilan University (Ramat-Gan, Israel) and the University of South Florida (Tampa, FL, USA), took place at the Carlton Hotel, Nahariya, Israel, during May 10–15, 2015. The conference was dedicated to the tenth anniversary of the Galilee Research Center for Applied Mathematics. The conference was devoted to the interaction between various branches of Mathematical Analysis and was organized into three main parallel sessions: Complex Analysis, Geometry and Harmonic Analysis, and Partial Differential Equations. Altogether, 102 participants from 21 countries attended the conference.

These proceedings are the tangible record of the conference. Most of the papers collected here have been contributed by participants in the conference. In some cases, they have chosen to submit manuscripts which depart from the texts of their lectures. Several invited speakers who were unable to attend the conference also contributed papers to these proceedings. All submissions have been carefully refereed. They testify to the continued vitality of the interplay between classical and modern analysis.

We acknowledge with thanks the support provided for the conference by the Emmy Noether Research Institute for Mathematics of Bar-Ilan University, the Galilee Research Center for Applied Mathematics of ORT Braude College, the Gelbart Research Institute for Mathematical Sciences of Bar-Ilan University, the Hebrew University, ISAAC—the International Society for Analysis, its Applications and Computations, and the U.S. National Science Foundation. Finally, we thank Miriam Beller, who (as in previous volumes) served as technical editor.

The Editors

Conference Program

May 10 – May 15, 2015, Nahariya, Israel

Sunday - May 10, 2015

15:00 - 19:00 Registration and informal mathematical discussions

Monday - May 11, 2015

10:40 - 11:25 Plenary Lecture 1

Haim Brezis, *From the characterization of constant functions to isoperimetric inequalities*

Morning Session 1: Complex Analysis

12:20 - 12:50 Daoud Bshouty, *The local Bieberbach problem for univalent functions revisited*

12:50 - 13:20 Vladimir Dubinin, *Some applications of the circular symmetrization to the multivalent functions*

Morning Session 2: Geometry and Harmonic Analysis

11:50 - 12:20 Michael Demuth, *On eigenvalues of linear operators in Banach spaces*

12:20 - 12:50 Brian Simanek, *Paraorthogonal polynomials and electrostatics on the unit circle*

12:50 - 13:20 Elijah Liflyand, *On theorems of F. and M. Riesz*

Morning Session 3: Partial Differential Equations

11:50 - 12:20 Massimo Lanza de Cristoforis, *Composition operators and analytic families of potentials*

12:50 - 13:20 Jonathan Ben-Artzi, *The spectral measure of vector fields and uniform ergodic theorems*

14:30 - 15:15 Plenary Lecture 2

Augustin Banyaga, *On C^0 rigidity theorems and uniqueness of generators of some topological isotopies*

15:20 - 16:05 Plenary Lecture 3

Eitan Tadmor, *Consensus and the emergence of leaders in social dynamics*

Afternoon Session 1: Complex Analysis

16:40 - 17:10 Konstantin Dyakonov, *Functions in Bloch-type spaces and their moduli*

17:10 - 17:40 Alexey Tochin, *Coupling of Gaussian free field with slit holomorphic stochastic*

Afternoon Session 2: Geometry and Harmonic Analysis

- 16:40 - 17:10 Tadeusz Kuczumow, *Properties of the Kobayashi distance and their applications*
- 17:10 - 17:40 Alexander Rashkovskii, *When the poles collide*
- 17:40 - 18:10 Alexander M. Kytmanov, *On one boundary analogous of the Hartogs theorem*

Afternoon Session 3: Partial Differential Equations

- 16:40 - 17:10 Samuel L. Krushkal, *Complex geodesics and variational calculus for univalent functions*
- 17:10 - 17:40 Anatoly Golberg, *Absolute continuity on paths of open discrete mappings in higher dimensions and related inequalities*

Tuesday - May 12, 2015

- 09:00 - 09:45 Plenary Lecture 4
Gui-Qiang Chen, *Weak continuity and compactness for nonlinear partial differential equations*
- 09:50 - 10:35 Plenary Lecture 5
Gady Kozma, *An introduction to Menshov representations*

Morning Session 1: Complex Analysis

- 11:00 - 11:30 Manuel D. Contreras, *Integral operators on H^∞*
- 11:30 - 12:00 Catherine Bénéteau, *Optimal approximants in Dirichlet spaces*

Morning Session 2: Geometry and Harmonic Analysis

- 11:00 - 11:30 Peter Spaeth, *Topological dynamics on strictly contact manifolds*
- 11:30 - 12:00 Gabriel Ben-Simon, *Group action via quasi-isometries and its space of quasi-morphisms*

Morning Session 3: Partial Differential Equations

- 11:00 - 11:30 Michael Reissig, *Semi-linear classical damped wave models with time-dependent speed of propagation and dissipation*
- 11:30 - 12:00 Hermann Render, *Fischer operators and the Khavinson-Shapiro conjecture*

Wednesday - May 13, 2015

- 09:00 - 09:45 Plenary Lecture 6
Vladimir Maz'ya, *Sobolev inequalities in arbitrary domains*
- 09:50 - 10:35 Plenary Lecture 7
Mikhail Sodin, *Entire functions of exponential type represented by pseudo-random and random Taylor series*

Morning Session 1: Complex Analysis

- 11:00 - 11:30 Dmitry Khavinson, *Approximating z^* by analytic functions*
- 11:30 - 12:00 Victor V. Goryainov, *Loewner's method in the univalent function theory and angular derivative*
- 12:10 - 12:40 Arthur Danielyan, *On the zero-free polynomial approximation problem*
- 12:40 - 13:10 Igor Chyzhykov, *On the growth of p -means of analytic functions of finite order in the unit disc*

Afternoon Session 1: Complex Analysis

- 14:30 - 15:30 Jozef Zajac, *The Schwarz type inequalities for harmonic mappings boundary normalization*
 16:00 - 16:30 Pavel Gumenyuk, *Quasiconformal extensions via the chordal Loewner equation*

Morning Session 2: Geometry and Harmonic Analysis

- 11:00 - 11:30 Boris Rubin, *Inversion formulas for the horospherical transform*
 11:30 - 12:00 Mary Kloc, *Smooth Hamiltonian systems with soft impacts*
 12:10 - 12:40 Yosef Yomdin, *Taylor domination, recurrences, and $(s; p)$ -valent functions*
 12:40 - 13:10 Jonathan Arazy, *Spectral properties of operators which generalize invariant Laplacians*

Afternoon Session 2: Geometry and Harmonic Analysis

- 14:30 - 15:00 Victor M. Gichev, *Comparison of the expectations of nodal volumes for different invariant random polynomials*
 15:00 - 15:30 Nelia Charalambous, *The Weyl criterion for the spectrum*
 16:00 - 16:30 Mikhail Zaidenberg, *On the Zariski cancellation problem*
 16:30 - 17:00 Yuri Zelinskii, *Shadows problems and generalised convexity*

Morning Session 3: Partial Differential Equations

- 11:00 - 11:30 Marshall Slemrod, *The problem with Hilbert's 6th problem*
 11:30 - 12:00 Tomio Umeda, *Schrödinger operators with n positive eigenvalues: an explicit construction involving complex valued potentials*
 12:10 - 12:40 David Fajman, *The Einstein flow with a positive cosmological constant*
 12:40 - 13:10 Gilbert Weinstein, *The Positive mass theorem for multiple rotating charged black holes*

Afternoon Session 3: Partial Differential Equations

- 14:30 - 15:00 Eugenia Malinnikova, *Uniqueness results for discrete Schrödinger evolutions*
 15:00 - 15:30 Marius Ghergu, *Pointwise bounds and arbitrarily large solutions for nonlocal elliptic systems*
 16:00 - 16:30 Marina Prokhorova, *The index theorem for self-adjoint elliptic operators with local boundary conditions*
 16:30 - 17:00 Vladimir P. Golubyatnikov, *Topological characteristics of phase portraits of some kinetic non-linear dynamical systems*
 17:00 - 17:30 Leonid Zelenko, *Virtual bound levels in a gap of the essential spectrum of the Schrödinger operator with a weakly perturbed periodic potential*

Thursday - May 14, 2013

- 09:00 - 09:45 Plenary Lecture 8
 Peter Kuchment, *Can one hear the heat of the body?*
 09:50 - 10:35 Plenary Lecture 9
 A. Iosevich, *The Fuglede Conjecture holds in two dimensional vector spaces over prime fields*

Morning Session 1: Complex Analysis

- 11:00 - 11:30 Santiago Díaz-Madrigal, *Slope problems in the theory of analytic semigroups*
- 11:30 - 12:00 Erik Lundberg, *Wilmschurst's conjecture and random harmonic polynomials*
- 12:10 - 12:40 Alekos Vidras, *Bergman-Weyl expansion for holomorphic functions in a bounded domain $U \subset \mathbb{C}$ with C^1 boundary*
- 12:40 - 13:10 Monika Budzyńska, *Around the Wolff-Denjoy theorem*

Afternoon Session 1: Complex Analysis

- 14:30 - 15:00 Nikolai Vasilevski, *Commutative algebras of Toeplitz operators on the unit ball*
- 15:00 - 15:30 Lev Aizenberg, *Application of the multidimensional logarithmic residue to present in the form of an integral the difference between the number of the lattice points in a domain in R^n and its volume*
- 16:00 - 16:30 Pauline Mellon, *Iteration theory on bounded symmetric domains and an extension of Hervé's theorem*

Morning Session 2: Geometry and Harmonic Analysis

- 11:00 - 11:30 Vladimir Rovenski, *Prescribing mixed curvature of foliated Riemann-Cartan spaces*
- 11:30 - 12:00 Chong-Kyu Han, *Invariant submanifolds for systems of vector fields of constant rank*
- 12:10 - 12:40 Ognyan Kounchev, *Klein-Dirac quadric in approximation theory, moment problem and potential theory*
- 12:40 - 13:10 Nir Lev, *Sampling on quasicrystals*

Afternoon Session 2: Geometry and Harmonic Analysis

- 14:30 - 15:00 Jurij Kozicki, *Coalescing jump dynamics in the continuum*
- 15:00 - 15:30 Jaroslav Ilnytskyi, *Computer simulations of stochastic models on a graph for the non-immune disease spread*
- 16:00 - 16:30 Mikhailo Kozlovskii, *Calculating the grand partition function of a fluid model*
- 16:30 - 17:00 Yuri I. Kharkevych, *The saturation of the Weierstrass integral*
- 17:00 - 17:30 Kirill G. Kamalutdinov, *On the intersection of fractal curves*

Morning Session 3: Partial Differential Equations

- 11:00 - 11:30 Edriss S. Titi, *Global well-posedness of an inviscid three-dimensional pseudo-Hasegawa-Mima-Charney-Obukhov model*
- 11:30 - 12:00 Roland Duduchava, *Mellin convolution equations in Bessel potential spaces*
- 12:10 - 12:40 Ritva Hurri-Syrjanen, *On the function space, which is larger than the BMO space, and was also introduced by John and Nirenberg*
- 12:40 - 13:10 Vladimir Gol'dshtein, *Estimates of the Neumann-Laplace operator first eigenvalue for conformal regular domains*

Afternoon Session 3: Partial Differential Equations

- 14:30 - 15:00 Yanqiu Guo, *Backward behavior of dissipative evolution equations*
15:00 - 15:30 Gershon Kresin, *Invariant convex bodies for strongly elliptic systems*
16:00 - 16:30 Simon Gindikin, *Cohomological Laplace transform*
16:30 - 17:00 Jinkai Li, *The primitive equations with partial dissipation*

Friday - May 15, 2015

- 09:00 - 09:45 Plenary Lecture 10
Svitlana Mayboroda, *Localization of the eigenfunctions and associated free boundary problems*
09:50 - 10:35 Plenary Lecture 11
Michael Entov, *Connecting trajectories of Hamiltonian flows*
11:00 - 11:45 Plenary Lecture 12
Filippo Bracci, *Univalent mappings in higher dimension*

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This volume contains the proceedings of the Seventh International Conference on Complex Analysis and Dynamical Systems, held from May 10–15, 2015, in Nahariya, Israel.

The papers in this volume range over a wide variety of topics in the interaction between various branches of mathematical analysis. Taken together, the articles collected here provide the reader with a panorama of activity in complex analysis, geometry, harmonic analysis, and partial differential equations, drawn by a number of leading figures in the field. They testify to the continued vitality of the interplay between classical and modern analysis.

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