

# Perspectives of Modern Complex Analysis

July 21–25, 2014, Będlewo, Poland

Monday, July 21, 2014

ROOM C

9:00–9:50 A. Volberg *Removable sets of Lipschitz solutions of (fractional) Laplace equation  $(-\Delta)^a u = 0$*

10:00–10:50 K. Yamanoi *Nevanlinna theory for holomorphic curves into algebraic varieties of maximal Albanese dimension*

10:50–11:20 *coffee*

11:20–11:50 P. Gauthier *Universal functions*

12:00–12:30 M. Ru *Quantitative geometric and arithmetic results for complement of divisors*

12:40–13:10 J.-J. Loeb *Smooth critical points of planar harmonic mappings*

13:30 *lunch*

15:30–16:00 ROOM A I. Chyzhykov *On the growth, zero distribution and factorization of analytic functions of moderate growth in the unit disc*

ROOM C C. Cabrera *On Poincaré extensions of rational maps*

16:10–16:40 ROOM A S. Favorov *Blaschke-type condition in the unite disc and in unbounded domains, and their application in operator theory*

16:50–17:20 ROOM A S. Nevo *Differential polynomials and shared values*

ROOM C D. Nicks *Superattracting fixed points of quasiregular mappings*

17:20–17:50 *coffee*

17:50–18:05 ROOM A S. SchleiBinger *The chordal Loewner equation for slits*

ROOM C A. del Monaco *Preimages of slits in  $\mathbb{C}^n$*

18:10–18:25 ROOM A Ch. Böhm *A Komatu–Loewner equation for multiple slits*

ROOM C T. Firsova *Pseudoconvexity and the Lambda Lemma*

18:30–18:45 ROOM A E. Ciechanowicz *Asymptotic values and asymptotic functions of entire and meromorphic functions*

ROOM C W. Jung *Self-similarity of the Mandelbrot set*

19:00 BEHIND THE PALACE *dinner*

# Perspectives of Modern Complex Analysis

July 21–25, 2014, Będlewo, Poland

Tuesday, July 22, 2014

ROOM C

9:00–9:50 M. Lyubich *Dynamics of dissipative polynomial automorphisms of  $\mathbb{C}^2$*

10:00–10:50 W. Bergweiler *Entire functions in the Eremenko–Lyubich class which have bounded Fatou components*

10:50–11:20 *coffee*

11:20–11:50 S. Mayboroda *Localization of eigenfunctions and associated free boundary problems*

12:00–12:30 M. Rees *Parapuzzles in the neighbourhood of a hyperbolic component*

12:40–13:10 J. Kotus *Metric entropy and stochastic laws of invariant measures for elliptic functions*

13:29 IN FRONT OF THE PALACE *conference photo*

13:30 *lunch*

15:30–16:00 ROOM A F. Pakovich *On semiconjugate rational functions*

ROOM C X. Jarque *Wandering domains in Eremenko–Lyubich’s class and Bishop’s example*

16:10–16:40 ROOM A S. Kanas *Orthogonal polynomials and typically real functions related to generalized Koebe function*

ROOM C N. Dobbs *Pointwise Lyapunov exponents in one-dimensional dynamics*

16:50–17:20 ROOM A A. Banerjee *On the unique and bi-unique range sets for meromorphic functions*

ROOM C A. Epstein *Deformation spaces of finite type maps*

17:20–17:50 *coffee*

17:50–18:05 ROOM A J. Koch *Dieudonné’s Lemma for schlicht functions*

ROOM C D. Dudko *Expanding Thurston maps and matings*

18:10–18:25 ROOM A N. Hein *Lower bounds in real Schubert Calculus*

ROOM C S. Mukherjee *On the topological differences between the Mandelbrot set and the tricorn*

18:30–18:45 ROOM A M. Fleeman *Extremal domains for self-commutators acting on the Bergman space*

ROOM C A. Logunov *Several questions on harmonic functions in higher dimensions*

19:00 *dinner*

20:00 ROOM B *poster session*

# Perspectives of Modern Complex Analysis

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Wednesday, July 23, 2014

ROOM C

**9:00–9:50** W. Hayman *Functions of locally bounded characteristic*

**10:00–10:50** C. Bender *Nonlinear eigenvalue problems and PT-symmetric quantum mechanics*

**10:50–11:20** *coffee*

**11:20–11:50** L. Rempe-Gillen *Arc-like continua, the Eremenko–Lyubich class, and Eremenko’s conjecture*

**12:00–12:30** P. Rippon *Escaping boundary points of Baker domains*

**12:40–13:10** G. Stallard *Eremenko’s conjecture on the components of the escaping set*

**13:30** *lunch*

**14:30** *hiking excursion*

**15:00** *excursion to Poznań*

**19:00** *special dinner*

# Perspectives of Modern Complex Analysis

July 21–25, 2014, Będlewo, Poland

Thursday, July 24, 2014

ROOM C

9:00–9:50 A. Zdunik *Inducing schemes in holomorphic dynamics*

10:00–10:50 F. Sottile *Lower bounds for real solutions to systems of polynomials*

10:50–11:20 *coffee*

11:20–11:50 D. Khavinson *Boundary behaviour of universal power series*

12:00–12:30 D. Novikov *Multiplicity operators and non-isolated Noetherian intersections*

12:40–13:10 L. Birbrair *Mumford theorem in Lipschitz geometry*

13:30 *lunch*

15:30–16:00 ROOM A V. Tarasov *Lower bounds for numbers of real solutions in problems of Schubert calculus*

ROOM C Ch. Dupont *Rigidity of Kummer and Lattès examples*

16:10–16:40 ROOM A A. Fernandes *Globally subanalytic constant mean curvature surfaces in  $\mathbb{R}^3$*

ROOM C T. Adamowicz *Elliptic systems of PDEs in the plane*

16:50–17:20 ROOM A A. Kałamańska *On one variant of interpolation inequality and its applications to the nonlinear eigenvalue problems*

ROOM C Ch. Penrose *Quasi-elementary correspondences*

17:20–17:50 *coffee*

17:50–18:05 ROOM A V. V. H. Gollakota *Families of compact Riemann surfaces*

ROOM C T. Kecker *Local and global finite branching of solutions of ODEs in the complex plane*

18:10–18:25 ROOM A A. Fattahi *Banach frame in Banach space and stability*

ROOM C A. Koski *Subharmonicity results for energy-minimal mappings*

19:00 *dinner*

# Perspectives of Modern Complex Analysis

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Friday, July 25, 2014

ROOM C

**9:00–9:50** M. Sodin *Zeroes of random and pseudo-random Taylor series*

**10:00–10:50** M. Bonk *Quasisymmetric uniformization and rigidity*

**10:50–11:20** *coffee*

**11:20–11:50** M. Benedicks *Parameter selection in one-dimensional maps revisited*

**12:00–12:30** J. Onninen *Existence of 2D traction free minimal deformations*

**12:40–13:10** N. Steinmetz *Sub-normal Solutions to Painlevé IV*

**13:30** *lunch*

**15:30–16:00** ROOM A K. Pietruska-Pałuba *Poincaré inequality on nested fractals*

ROOM C A. Danielyan *Approximation by sequences of uniformly bounded polynomials*

**16:10–16:40** ROOM A G. Filipuk *On the Painlevé equations and discrete Painlevé equations*

ROOM C N. Selinger *Classification of Thurston maps with parabolic orbifolds*

**16:50–17:20** *coffee*

**19:00** *dinner*