

Invited Addresses

Monday, June 25, 2001

- 11:00 - 12:00 **Percy Deift, Courant-Institute and University of Pennsylvania, U.S.A.**
Orthogonal Polynomials and Random Matrix Theory
Chair: E. Saff
- 14:30 - 15:30 **Doron S. Lubinsky, University of Witwatersrand, South Africa**
Rogers-Ramanujan does kill Baker-Gammel-Wills
Chair: St. Ruscheweyh

Tuesday, June 26, 2001

- 09:00 - 10:00 **Klaus Gürlebeck, Bauhaus-Universität Weimar, Germany**
Numerical Clifford Analysis
Chair: H. Malonek
- 14:30 - 15:30 **Toby Driscoll, University of Delaware, U.S.A.**
Schwarz-Christoffel Conformal Mapping
Chair: N. Papamichael

Wednesday, June 27, 2001

- 09:00 - 10:00 **Alexandre Eremenko, Purdue-University, U.S.A.**
The Wronski map and Grassmanians of real subspaces
Chair: W. Hayman

Thursday, June 28, 2001

- 09:00 - 10:00 **Walter Bergweiler, Christian-Albrechts-Universität Kiel, Germany**
Bloch's Principle
Chair: Ch. Pommerenke

Friday, June 29, 2001

- 09:00 - 10:00 **Richard Delanghe, University of Ghent, Belgium**
Clifford analysis: history and perspective
Chair: K. Habetha
- 16:30 - 17:30 **Alan Beardon, University of Cambridge, U.K.**
Continued fractions: old and new
Chair: L. Lorentzen

Parallel Sessions

Monday Afternoon

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Jones	<i>Chair:</i> Luh	<i>Chair:</i> Duren	<i>Chair:</i> Gaier
16.00-16.25	Branquinho	Lanzani	Bshouty	Kravanja
16.30-16.55	Foulquié-M.	Liflyand	Hinkkanen	Mhaskar
17.00-17.25	Waadeland	Vukotič	Lyzzaik	Stylianopoulos
17.30-17.55	Petersen	Weir	Vasiliev	Pfaltzgraff

Branquinho, A. Recurrence Process in the Orthogonal Polynomial Theory
 Foulquié-Moreno, A. Classical Matrix Orthogonal Polynomial
 Waadeland, H. Toeplitz Determinants and Theta Functions in Frequency Analysis I
 Petersen, V. Toeplitz Determinants and Theta Functions in Frequency Analysis II

Lanzani, L. L_p -regularity of the Szeg and Bergman projection in Planar Lipschitz Domains
 Liflyand, E. On quasi-monotone functions and sequences
 Vukotič, D. Sharp inequalities for analytic function spaces and principles of length and area
 Weir, R. Weighted Bergman Spaces and Hypergeometric Functions

Bshouty, D. Valency of planar harmonic mappings onto convex domains
 Hinkkanen, A. Arakelyan's theorem and relations between harmonic functions
 Lyzzaik, A. Recent Results Concerning a Conjecture of J.C.C. Nitsche Regarding Univalent Harmonic Mappings Between Annuli
 Vasiliev, A. On geometry of the Hele-Shaw flows with small surface tension

Kravanja, P. A factoring method for computing zeros of analytic functions based on interpolation at roots of unity
 Mhaskar, H. On the representation of band-limited signals using finitely many bits
 Stylianopoulos, N. The use of domain decomposition for approximating the conformal mapping of long quadrilaterals
 Pfaltzgraff, J.A. Schwarz-Christoffel mapping of doubly connected domains

Parallel Sessions

Tuesday Afternoon

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Stephenson	<i>Chair:</i> Baratchart	<i>Chair:</i> Fournier	<i>Chair:</i> Gürlebeck
16.30-16.55	Pommerenke	Fidalgo Prieto	Lecko	Ryan
17.00-17.25	Dragnev	Lagomasino	Miller	Sommen
17.30-17.55	Levin	Wielonsky	Elin	Eriksson-B.
18.00-18.25	Mejia	Shekhtman	Obradovič	Kaiser

Pommerenke, Ch. Hyperbolically convex functions
 Dragnev, P. Minimal discrete energy on the sphere
 Levin, E. Green equilibrium measures and representations of an external field
 Mejia, D. Nehari functions

Fidalgo Prieto, U. Multi-point Hermite-Padé approximation
 Lagomasino, G.L. Hadamard's theorem for fourier Padé approximation
 Wielonsky, F. Rational approximation to the exponential function with complex conjugate interpolation points
 Shekhtman, B. On the divergence of interpolation polynomials on the complex plane

Lecko, A. On the boundary subordination of analytic functions
 Miller, S.S. Subordinants of differential superordinations
 Elin, M. Spirallike functions with respect to a boundary point
 Obradovič, M. Non-Bazilevic classes of analytic functions

Ryan, J. Clifford analysis on spheres and hyperbolas
 Sommen, F. Special biregular functions applied to transform analysis
 Eriksson-Bique, S. Hyperholomorphic functions
 Kaiser, G. Sources for holomorphic electromagnetic fields

Parallel Sessions

Wednesday Morning

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Deift	<i>Chair:</i> Singh	<i>Chair:</i> Kovacheva	<i>Chair:</i> Eremenko
10.30-10.55	Wegert	Goryainov	Sidi	Maergoiz
11.00-11.25	Kuijlaars	Kim	Stiemer	Kondratyuk
11.30-11.55	Razali	Ponnusamy	Gaier	Chiang
12.00-12.25	Reyes	Rønning	Olivi	Hayman

Wegert, E. Non-linear Riemann-Hilbert problems and separation principles
 Kuijlaars, A. Asymptotics for Laguerre polynomials with negative parameters via Riemann-Hilbert problems

Razali, M.R. An integral equation approach for solving the Riemann problem
 Reyes, J.B. On the Riemann problem in Clifford analysis

Goryainov, V. Loewner's equation for univalent functions and Kolmogorov's equation
 Kim, Y.C. Growth and coefficient estimates for uniformly locally univalent functions on the unit disk
 Ponnusamy, S. Geometric properties of hypergeometric functions and associated operators
 Rønning, F. Radius results for functions that are convex in one direction

Sidi, A. Orthogonal polynomials and semi-iterative methods for the Drazin-inverse solution of singular inconsistent non-symmetric linear systems of arbitrary index and complex spectra
 Stiemer, M. Extremal point methods for the Robin function
 Gaier, D. On the decrease of Faber polynomials in domains with piecewise analytic boundary
 Olivi, M. On the Schur parametrizations of inner matrix-valued functions and their use in rational approximation

Maergoiz, L.S. On partial fraction expansion for inverse value of entire functions
 Kondratyuk, A. Minimal growth majorants and quotient representations of meromorphic functions
 Chiang, Y.M. On value distribution theory, complex oscillation of complex differential equations and Bessel polynomials
 Hayman, W.K. The growth of meromorphic solutions of linear differential equations

Parallel Sessions

Thursday Morning

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Bshouty	<i>Chair:</i> Blatt	<i>Chair:</i> DeLillo	<i>Chair:</i> Agranovsky
10.30-10.55	Barnard	Danielyan	Calle Ysern	Fenton
11.00-11.25	Greiner	Kovacheva	Hagler	Kayumov
11.30-11.55	Prokhorov	Baratchart	Spitkovsky	Luh
12.00-12.25	Suffridge	Vanlessen	Karatsuba	Tao

Barnard, R.	Minimal area problems
Greiner, R.	Convolution of holomorphic functions — the duality principle revisited
Prokhorov, D.V.	Linear functionals locally maximized by the Koebe function
Suffridge, T.	A continuous extension of the de la Vallée Poussin means

Danielyan, A.A.	On a localization problem for limit functions of unbounded sequences of rational functions
Kovacheva, R.K.	On sign changes in rational L^p -approximation for some classes of functions
Baratchart, L.	On rationals of least L^2 deviation on the circle
Vanlessen	Asymptotic analysis of orthogonal polynomials on $[-1, 1]$ using Riemann-Hilbert techniques

Calle Ysern, B.	Error estimates of Gauss-Kronrod quadrature formulae for analytic functions
Hagler, B.	Node doubling in Hermite-Gauss quadrature
Spitkovsky, I.	Toeplitz operators with frequency modulated semi-almost periodic symbols
Karatsuba, E.	On approximation of sums of oscillating summands

Fenton, P.C.	A min-max theorem for sums of translates of a function
Kayumov, I.	The integral means spectrum for lacunary series
Luh, W.	Universal functions — new results
Tao, Q.	A generalization of Fueter's result

Parallel Sessions

Thursday Afternoon

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Pfaltzgraff	<i>Chair:</i> Beardon	<i>Chair:</i> Lubinsky	<i>Chair:</i> Suffridge
16.00-16.25	Caraman	Driver	Osipenko	Aizenberg
16.30-16.55	Kamyshova	Semenov	Njåstad	Godula
17.00-17.25	Duren	Martinez-F.	Revesz	Kohr G.
17.30-17.55	Tuen Wai Ng	Dimitrov	Pritsker	Raducanu

Caraman, P. New results on the equality between the p -capacity and the p -module in \mathbb{R}^n

Kamyshova, G. Monotony of Robin capacity of some sets

Duren, P. Hyperbolic and elliptic capacity

Tuen Wai Ng, P. Smale's mean value conjecture and the hyperbolic metric

Driver, K.A. The zeros of the hypergeometric polynomial $F(-n, b; c; z)$

Semenov, V. Topological properties of mappings in integral inequalities

Martinez-Finkelst., A. Asymptotic properties of Stieltjes and Van Vleck polynomials

Dimitrov, D.K. Fourier transforms in the Laguerre-Pólya class

Osipenko, K.Y. Optimal recovery in Hardy-Sobolev spaces and an analogue of splines for analytic functions

Njåstad, O. Nevanlinna matrices for the strong Hamburger moment problem

Revesz, S. Multivariate polynomial extremal problems on convex bodies

Pritsker, I. Small polynomials with integer coefficients

Aizenberg, L. Multidimensional analogue of Bohr's theorem on power series

Godula, J. Multipliers and a weighted Hadamard product

Kohr, G. Univalent mappings associated with the Roper-Suffridge extension operator

Raducanu, D. Sufficient conditions for univalence in \mathbb{C}^n

Parallel Sessions

Friday Morning

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Tamrazov	<i>Chair:</i> Aptekarev	<i>Chair:</i> Bergweiler	<i>Chair:</i> Sprössig
10.30-10.55	Shiba	Benko	Walker	Bernstein
11.00-11.25	Agranovsky	Müller	Prasad	Cação
11.30-11.55	Ito	Gal	Rochon	Hommel
12.00-12.25	Baernstein	Forster	Peherstorfer	Kähler

Shiba, M. Analytic continuation beyond the ideal boundary
 Agranovsky, M.L. Morera type theorems for rational functions of two real variables
 Ito, M. Dipole flows on a torus given by the Weierstrass ζ -function
 Baernstein, A. A conjectural integral inequality for Lipschitz functions in the plane

Benko, D. Approximation by weighted polynomials
 Müller, J. Series expansions by Hadamard-multiplication
 Gal, S.S. Convolution type integral operators in complex approximation
 Forster, B. Direct and inverse approximation theorems for Dirichlet series on convex polygons

Walker, P.L. Separation of zeros of polynomials
 Prasad, M.G.P. Iteration of certain real meromorphic functions
 Rochon, D. A Cantor set for bicomplex numbers
 Peherstorfer, F. Polynomials and rational functions of interest in complex iteration and approximation theory

Bernstein, S. BMO-spaces of harmonic and monogenic functions on the unit sphere in \mathbb{R}^n
 Cação, I. Properties of special systems of orthogonal polynomials in hypercomplex function theory
 Hommel, A. Fundamental solutions of finite difference Cauchy-Riemann operators
 Kähler, U. Applications of a discrete function theory to partial differential equations over unbounded domains

Parallel Sessions

Friday Afternoon

Time	Room I	Room II	Room III	Room IV
	<i>Chair:</i> Hinkkanen	<i>Chair:</i> Peherstorfer	<i>Chair:</i> Driscoll	<i>Chair:</i> Tao
14.00-14.25	Salahudinov	Jones	Banjai	Cnops
14.30-14.55	Ostrovskiy	Schmeisser	Elcrat	Shapiro
15.00-15.25	Tamrazov	Küstner	DeLillo	Sprössig
15.30-15.55	Katkova	Blatt	Vuorinen	Jank

Salahudinov, R.G. Ostrovskiy, Y. Tamrazov, P. Katkova, O.	Isoperimetric inequalities for moments of plane domains On the Titchmarsh convolution theorem Cluster theory for holomorphic and finely holomorphic functions On entire generating functions of multiply positive sequences
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Jones, W.B. Schmeisser, G. Küstner, R. Blatt, H.P.	Extensions of frequency analysis by Szegő polynomials and PPC-continued fractions Majorization of sequences of zeros Zero distribution via orthogonality Zeros of extremal polynomials on the real line
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Banjai, L. Elcrat, A. DeLillo, T.K. Vuorinen, M.	Numerical computation of a conformal map of a fractal Determination of cracks from boundary measurements The crowding phenomenon for conformal maps of multiply connected regions Computation of capacity
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Cnops, J. Shapiro, M. Sprössig, W. Jank, G.	The wavelet transform in Clifford analysis On Hardy-type spaces of α -hyperholomorphic functions Quaternionic analysis for non-stationary physical processes Generalized Beltrami equations and monogenic functions
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Posters

- Agranovich, P.
Aleixo, J.C. Exceptional sets for entire functions
The exponential matrix of higher-order bordered quaternionic matrices
- Alzugaray, M. T. On singularities and growth of generating functions of Pólya frequency sequences
- Bernardes, G. The dimension of the space of polynomials monogenic from both sides that are homogeneous of degree k
- Bulboaca, T. Classes of first-order differential subordinations and superordinations
Carrol, T. Planar domains with finite torsional rigidity
Coimbra, M. A moving finite element method for one and two dim. time dependent pde
- Conceição, A.C./
Kravchenko, V.G./
Rodriguez, J. C. S. About explicit factorization of some classes of matrix functions
- Costa, C./ Perdicoúlis, T. Some computational aspects on the solution of quaternion block-tridiagonal systems
- Donaire, J. J. Radial behaviour of inner functions in the little Bloch space
- Favorov, S. Yu. Almost periodic divisors and analytic almost periodic functions
- Greiner, R. Some extremal problems for univalent functions
- Hempfling, T. More on zeros of monogenic functions
- Joshi, S. B. Subclasses of uniformly starlike and uniformly convex functions
- Kanas, S. Uniformly alpha-convex functions
- Kohr, M. Linear invariant families and univalent mappings in several complex variables
- Moraes, L. Boundaries for algebras of holomorphic functions
- Pescar, V. The univalence of certain integral operators
- Rashkovskii, A. Newton polyhedra and plurisubharmonic functions
- Rosy, T. A new subclass of convex functions based on convex functions of Ruscheweyh
- Semenov, V. I. The topological properties of mappings in the integral inequalities
- Serôdio, R. Zeros of polynomials: the Octonionic case
- Smirnova, M. On a general determinacy condition for the moments of a higher order difference operator
- Tuneski, N. On starlikeness and strong starlikeness of analytic functions
- Vishnyakova, A. On the zero sets of absolutely monotonic functions