



Session 2

DIFFERENTIAL EQUATIONS: COMPLEX AND FUNCTIONAL ANALYTIC METHODS, APPLICATIONS

Organizer: H. Begehr (Berlin)

Room A1N

August 05 / 2013

Chair: H. Begehr

14.30-15.00

T. Kalmenov, D. Suragan, N. Tokmagambetov, Boundary conditions of classical potentials and applications

15.00-15.30

J.-Y. Du, P. Duan, Y. Wang, Riemann boundary value problems on the positive real axis

15.30-16.00 Coffee break

Chair: J.-Y. Du

16.00-16.30

G. Filipuk, Multiple orthogonal polynomials and their properties and connection to Riemann-Hilbert problem and differential equations

16.30-17.00

Y.-F. Wang, On Riemann problems for single periodic polyanalytic functions

17.00-17.30

A. Tytula, Scalar Riemann-Hilbert problem for circular multiply connected domains

17.30-18.00

I. Badecka, The Schottky-Klein prime function

18.00-18.30

G. Lysik, Analytic solutions of heat type equations



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Chair: Mussakan Muratbekov

12.10-12.40

A. Soldatov, To anisotropic plane elasticity

12.40-13.10

K.N. Ospanov, The conditions of local differentiability of solutions of stationary Schrödinger equation with discontinuous coefficients

Chair: K.N. Ospanov

14.30-15.00

Mussakan Muratbekov, Madi Muratbekov, On existence of the resolvent and discreteness of the spectrum of a class of differential operators of hyperbolic type

15.00-15.30

O. Zhdanov, Solution of the Cauchy problem for two-dimensional system of quasilinear equations of hyperbolic type

15.30-16.00 Coffee break

Chair: O. Zhdanov

16.00-16.30

E. Krushevski, Generalized Jacobi inversion problem and application

16.30-17.00

B.V. Loginov, Yu.B. Rousak, L.R. Kim-Tyan, Differential equations with degenerate variable operator of the derivative

17.00-17.30

Ü. Aksoy, On some boundary value problems for linear partial differential equations of second order in Clifford analysis

17.30-18.00

A. Tungatarov, Cauchy problem for a first order ordinary differential system in the plane with variable coefficients

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Chair: E. Krushevski

12.10-12.40

S. Sitnik, Some problems in the modern theory of transmutations

12.40-13.10

N. Tokmagambetov, B. Kanguzhin, Polyharmonic equation with point interactions



Chair: B. Kanguzhin

14.30-15.00

A.O. Celebi, V. Mityushev, A boundary value problem for bi-analytic functions in a multiply connected domain

15.00-15.30

N. Chinchaladze, Development of some analytical methods for calculating of cusped prismatic shells

15.30-16.00 Coffee break

Chair: A. Soldatov

16.00-16.30

M. Borsuk, M. Bodzioch, On the degenerate oblique derivative problem for elliptic second order equations in a domain with boundary conical point

16.30-17.00

A. Kisil, A constructive method for an approximate solution to scalar Wiener Hopf equations

17.00-17.30

A. Voza, D. Alayón, J. Vanegas, Integral representations in elliptic complex numbers

17.30-18.00

C.-F. Wu, T.-W. Ng, Solutions of the cubic-quintic Swift-Hohenberg equation

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Chair: N. Chinchaladze

12.10-12.40

L. Radzhabova, About one class of two dimensional Volterra type integral equations with boundary singular lines

12.40-13.10

G. Khimshiasvili, G. Giorgadze, Complex structures and transmission problems in loop spaces

Chair: S. Sitnik

14.30-15.00

O. Bar , A fast algorithm to determine the flux around closely spaced non-overlapping disks

15.00-15.30

K. Rajchel, On the Schroedinger equation with one-dimensional potential

15.30-16.00 Coffee break

Chair: G. Khimshiasvili

Isaac

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16.00-16.30

W. Yuan, J. Qi, Y. Li, Growth order of meromorphic solutions of some algebraic differential equations and Barsegian's initial method

16.30-17.00

H. Begehr, T. Vaitekhovich, The parqueting-reflection principle

ORGANIZATOR



WSPONOSI



ISAAC HONOR MEDAL

