



Abstracts & Titles

6th European
Congress of Mathematics

July 2–7, 2012 | Kraków, Poland

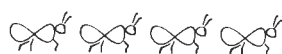
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Yvik. C. Swan (*Université Libre de Bruxelles, BE*), **On Moser's and Robbins' optimal selection problems**

Krzysztof Szajowski (*Wrocław University of Technology, PL*), **On multivariate stopping problems for point processes**

Mitsushi Tamaki (*Aichi University, JP*), **Optimal stopping rules for the random**

Masami Yasuda (*Chiba University, JP*), **Odds Problem in optimal multiple stopping**, COAUTHOR: Katsunori Ano



Quasiconformal Mappings and Complex Dynamical Systems

ORGANIZERS: Mark Elin (*ORT Braude College, IL*)

Anatoly Golberg (*Holon Institute of Technology, IL*)

Stanisława Kanas (*Rzeszów University of Technology, PL*)

Toshiyuki Sugawa (*Tohoku University, JP*)

TALKS:

Tadeusz Iwaniec (*Syracuse University, USA*), **Dynamics of quasiconformal fields**, COAUTHORS: L. Kovalev, J. Onninen

Matti Vuorinen (*University of Turku, FI*), **Teichmüller's extremal problem in the n -space**

Anatoly Golberg (*Holon Institute of Technology, Israel*), **Quasiconformality from different points of view**

Vesna Manojlović (*University of Belgrade, RS*), **Gromov hyperbolicity and quasiconformal geodesics**, COAUTHORS: P. Koskela, P. Lammi

Stanisława Kanas (*Rzeszów University of Technology, PL*), **Harmonic mappings related to some fixed analytic functions**

Dariusz Partyka (*The State School of Higher Education in Chełm, The John Paul II Catholic University of Lublin, PL*), **The Schwarz type inequalities for plane harmonic mappings in the unit disk**, COAUTHORS: K. Sakan, J. Zajac

Vladimir Ya. Gutlyanskiĭ, N/A

David Shoikhet (*ORT Braude College, IL*), **Semigroups in geometric function theory**

Gabriela Kohr (*Babeş-Bolyai University, RO*), **Generalized Loewner differential equations in several complex variables. Applications**

Mark Agranovsky (*Bar-Ilan University, IL*), **Separate holomorphic extension from curves in \mathbb{C} and \mathbb{C}^n**

Mark Elin (*ORT Braude College, IL*), **New results on functions convex in one direction**

Alexander Vasiliev (*University of Bergen, NO*), **Sub-Riemannian structures corresponding to Kählerian metrics on the universal Teichmüller space and curve**

Satellite Thematic Session of the 6th European Congress of Mathematics

July 3-4, 2012, University of Kraków, Kraków, Poland

STS Announcement

The topic of the Satellite Thematic Session concentrates mainly on quasiconformal mappings and complex dynamical systems. In recent years, both these theories, initiated by Julia, Ahlfors, Grötzsch, Lavrentiev, etc. more than 90 years ago, have taken on new life and entered a period of renewed activity and development in Geometric Function Theory. Nowadays planar quasiconformal maps are recognized as a standard tool in various areas of complex analysis such as Teichmüller theory, Kleinian groups, ODE, PDE, Potential Theory, Group Theory, etc. One of the main reasons for this is that in the plane a flexible existence theorem for quasiconformal maps is available in the Measurable Riemann Mapping Theorem. The famous Sullivan proof of the No Wandering Theorem led to revival of holomorphic dynamics after 60 years of stagnation, and discovered a dictionary between quasiconformal methods to the setting of rational maps, he translated Ahlfors' finiteness theorem into a solution of the long-outstanding problem of wandering domains.

The principal aim of the STS "Quasiconformal Mappings and Complex Dynamical Systems" is to bring together leading experts in the mentioned fields, with an eye toward setting the agenda for future investigations, especially as relates to applications in allied areas of Mathematical Analysis. A collateral aim is to provide participants with current updates in the subjects covered by the STS.

Satellite Thematic Session
of the 6th European Congress of Mathematics

Quasiconformal mappings and complex dynamical systems

Organizers:

Mark Elin (ORT Braude College, Israel),
Anatoly Golberg (Holon Institute of Technology, Israel)
Stanislawa Kanas (Rzeszow University of Technology, Poland)
Toshiyuki Sugawa (Tohoku University, Sendai, Japan)

Programme

June 3, 2012

Quasiconformal mappings – Part I (Chairperson S. Kanas)

15:45 - Opening

15: 50 - 16:30 - plenary talk - Tadeusz Iwaniec (Syracuse University, USA)

Dynamics of quasiconformal fields

(joint with L. Kovalev and J. Onninen)

16:40 - 17:05 Matti Vuorinen (University of Turku, Finland)

Teichmüller's extremal problem in the n -space

17:10 - 17:35 Anatoly Golberg (Holon Institute of Technology, Israel)

Quasiisometry from different points of view

Quasiconformal mappings – Part II (Chairperson M. Elin)

17:45 - 18:10 Vesna Manojlovic (University of Belgrade, Serbia)

Gromov hyperbolicity and quasihyperbolic geodesics

(joint with P. Koskela and P. Lammi)

18:15 - 18:40 Stanislawa Kanas (Rzeszow University of Technology, Poland)

Harmonic mappings related to some fixed analytic functions

18:45 - 19:10 Dariusz Partyka (The State School of Higher Education in Chełm,
The John Paul II Catholic University of Lublin),

The Schwarz type inequalities for plane harmonic mappings in the unit disk

(joint with K. Sakan and J. Zajac)

19:15 - 19:40 Mirela Kohr (Babes-Bolyai University, Romania)

Potential theory for elliptic boundary value problems on Lipschitz domains