

**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 -

Open problems and discussions. Session Dinner.

July 4, 2012

Dynamical systems - Part I (Chairperson T. Sugawa)

14:30 - 15:10 - plenary talk - Mark Agranovsky (Bar-Ilan University, Israel)
Holomorphy via integral geometry

15:20 – 15:45 Yuri Zelinskii (Institute of Mathematics, Ukraine)
Complex integral geometry

15:50 - 16:15 Ken-ichi Sakan (Osaka City University, Japan)
On a variant of a result by Pavlovic for harmonic mappings of the unit disk onto bounded convex domains

Dynamical systems - Part II (Chairperson A. Golberg)

16:30 - 16:55 Mark Elin (ORT Braude College, Israel)
New results on functions convex in one direction

17:00 - 17:25 Alexander Vasiliev (University of Bergen, Norway)
Sub-Riemannian structures corresponding to Kahlerian metrics on the universal Teichmuller space and curve

17:30 - 17:55 Toshiyuki Sugawa (Tohoku University, Japan)
Quasiconformal extension of strongly spirallike functions

18:00 - 18:25 Istvan Prause (University of Helsinki)
Bilipschitz rotation versus quasiconformal stretching

18:25 – **Closing**