International Workshop on Potential Theory 2004, Matsue

Venue: Shimane University, Matsue, Japan

Period: August 23–28, 2004

Monday, August 23

18:00-20:00   IWPT Reception

Tuesday, August 24

9:25-9:30   IWPT opening

Plenary lectures

9:30-10:30   **Stephen J. Gardiner**
Radial limits of harmonic functions

11:00-12:00   **Jun Kigami**
Resistance forms and heat kernel estimates on fractals

12:00-12:10   **Photo**

13:30-14:30   **Nageswari Shanmugalingam**
Dirichlet forms and Newton-Sobolev spaces for metric spaces supporting Poincare inequalities

Lectures in parallel sessions

15:00-15:30   **Olli Martio**
Poisson modifications for quasisuperminimizers

           Jürgen Bliedtner
Convergence properties of semi-elliptic differential operators

           Manfred Stoll
On generalizations of the Littlewood-Paley inequalities to domains in $\mathbb{R}^n$ $(n \geq 2)$

15:45-16:15   **Jana Björn**
Boundary regularity for p-harmonic functions on metric spaces

Klaus Janssen
Integral representation for space-time excessive functions

Hong Rae Cho
Capacitary inequalities for mean Lipschitz spaces on the unit ball in $\mathbb{C}^n$

16:30-17:00   **Takayori Ono**
Hölder continuity of solutions to quasilinear elliptic equations with measure data

Torbjörn Lundh
Minimally thin sets below a function graph

E. G. Kwon
M-subharmonic Hardy functions on the complex ball

17:15-17:45   **Shin-ichi Ohta**
Cheeger-type Sobolev spaces for metric space targets

Kentaro Hirata
An estimate for the product of the Green function and the Martin kernel

Yûsuke Okuyama
Poincaré functions and the value distributions in complex dynamics

Wednesday, August 25

Plenary lectures

9:30-10:30   **Krzysztof Burdzy**
Neumann eigenfunctions and Brownian couplings

11:00-12:00   **Pekka Koskela**
One-dimensional measure of a preimage

13:30-14:30   **Jang-Mei Wu**
Quasiconformal deformation of self-similar sets and applications

Lectures in parallel sessions

15:00-15:30   **Minoru Murata**
Representations of nonnegative solutions for parabolic equations

Rikio Yoneda
The essential norm of the integration operators and Multipliers on Bergman spaces

Takahide Kurokawa
On a decomposition of the Schwartz class

15:45–16:15   **Yehuda Pinchover**
Large time behavior of the heat kernel

Katsuya Ishizaki
Borel and Julia directions of meromorphic Schröder functions

Yoichi Miyazaki
The L^p resolvents for elliptic systems of divergence form

16:30–17:00   **Fausto Di Biase**
On tangential approach regions for bounded harmonic functions in the unit disc

Akane Iwamura
Estimates of the α-Riesz potentials in metric spaces

Minoru Yanagishita
On the behavior at infinity for non-negative superharmonic functions in a cone

17:15–17:45   **Kohur GowriSankaran and David Singman**
Boundary behaviour on trees

Hisako Watanabe
Estimates of maximal functions by Hausdorff contents in a metric space

I. Miyamoto and H. Yoshida
A covering theorem and a quantitative property of minimally thin sets in a cone

Thursday, August 26

Plenary lectures

9:30–10:30   **Masatoshi Fukushima**
Trace Dirichlet forms and related topics

11:00–12:00   **Stephanie Nivoche**
A Hilbert lemniscate theorem in $\mathbb{C}^n$

Friday, August 27

Plenary lectures

9:30-10:30   **Yves Guivarc'h**
Martin boundaries of skew products, and orbit closures of linear group actions

11:00-12:00   **Joaquim Ortega and Kristian Seip**
Harmonic measure in Swiss cheeses

13:30-14:30   **Tom Carroll**
Harmonic measure in parabola-shaped regions in $\mathbb{R}^n$

Lectures in parallel sessions

15:00-15:30   **Krzysztof Bogdan (joint work with Paweł Sztonyk)**
Harnack's inequality for stable Lévy processes

Tero Kilpeläinen
p-Laplacian problems near the boundary

Hiroaki Masaoka
Quasiconformal mapping and the minimal Martin boundary of covering surfaces of the punctured Riemann sphere $\hat{\mathbb{C}} \setminus \{0\}$ of Heins type

15:45-16:15   **Renming Song**
Potential theory of special subordinators and subordinate killed Brownian motions

Hyungwoon Koo
Holomorphic mean Lipschitz spaces

Tetsu Shimomura
Sobolev embeddings for variable exponent Riesz potentials

16:30-17:00   **Katsunori Shimomura**
The caloric morphism for radial metrics on semi-euclidean spaces.

Boo Rim Choe
Non-orthogonal projections for harmonic Bergman spaces

Yoshihiro Mizuta
Continuity properties for weakly monotone Sobolev functions

17:15-17:45   **Masaharu Nishio, Katsunori Shimomura and Noriaki Suzuki**

L^p-boundedness of Bergman projections for α-parabolic operators

Premalatha and A. K. Kalyani
Some potential theoretic results on an infinite network

Saturday, August 28

Plenary lectures

9:30-10:30   **Zbigniew Błocki**
The Bergman kernel and pluripotential theory

11:00-12:00   **Wolfhard Hansen**
Global comparison of perturbed Green functions