

Integrated Research on Complex Dynamics and its Related Fields Conference

The following conference is hosted by RIMS (Research Institute of Mathematical Science) of Kyoto University and Graduate School of Human and Environmental Studies of Kyoto University.
Organizer Hiroki SUMI (Osaka Univ.)

Date: December 14, 2009 13:00– December 18, 2009 17:30

Place : Kyoto University Yoshida South Campus Building of Graduate School of Human and Environmental Studies B23 (underground floor) Yoshida Nihonmatsu-cho, Sakyo-ku, Kyoto City (City Bus stop: Kyodai Seimon Mae)

Program

December 14

- 13:00–14:00 Mitsuhiro Shishikura (Kyoto Univ.)
On a theorem of Gaofei Zhang on Siegel disks
- 14:15–15:15 Yi-Chiuan Chen (Academia Sinica, Taiwan)
Family of Julia sets as orbits of differential equations
- 15:35–16:05 Hiroki Takahashi (Kyoto Univ.)
On the size of the stochastic parameter set of the real quadratic family
- 16:20–17:20 Ryuji Abe
Markoff spectra, geodesics, palindromes

December 15

- 9:45–10:45 Koh Katagata (Ichinoseki National College of Tech.)
Siegel disks and wandering domains of transcendental entire functions
- 11:00–12:00 Weixiao Shen (National Univ. of Singapore) I.
Non-uniformly hyperbolicity assumptions: Large derivative vs backward contraction
- 13:45–14:45 Tomoki Kawahira (Nagoya Univ.)
Some new applications of Zalcman's lemma to complex dynamics
- 15:00–16:00 Hiroyuku Inou (Kyoto Univ.)
Extending local holomorphic conjugacies
- 16:15–17:15 Weixiao Shen (National Univ. of Singapore) II.
Construction of Young tower with tail estimates: backward shrinking and badness exponent

December 16

- 9:45–10:15 Shunsuke Morosawa (Kochi Univ.)
Siegel disks of transcendental entire functions and singular values
- 10:30–11:30 Weixiao Shen (National Univ. of Singapore) III.
Examples: Decay of correlation for Fibonacci-like unimodal interval maps

14:00-15:00	Kohei Ueno (Kyoto Univ.) Weighted Green functions of polynomial skew products on \mathbb{C}^2
15:15-16:15	Shizuo Nakane (Tokyo Polytechnic Univ.) Component-wise accumulation sets of critical sets for Axiom A polynomial skew products
16:30-17:30	Tomoko Shinohara (Tokyo Metropolitan College of Industrial Technology) Local dynamical structure of indeterminacy points of rational mappings
18:00–	Banquet
December 17	
9:45-10:45	Hiroki Sumi (Osaka Univ.) Cooperation principle in random complex dynamics and singular functions on the complex plane
11:00-12:00	Taro Asume (Univ. of Tokyo) Comparing Julia sets
13:45-14:45	Tsuyoshi Kajiwara (Okayama Univ.) C^* -algebras associated with complex dynamics
15:00-16:00	Yusuke Okuyama (Kyoto Institute of Technology) Ergodic and potential theories in complex dynamics
16:15-17:15	Yutaka Ishii (Kyushu Univ.) Description of Julia sets by using group actions
December 18	
9:15-9:45	Jin Teisuke (Kyoto Institute of Technology) Dynamics of Hénon maps: Nevanlinna theory
10:00-11:00	Takato Uehara (Kyushu Univ.) Construction of rational surface automorphisms with positive entropy
11:15-12:15	Katsunori Iwasaki (Kyushu Univ.) Painlevé equations and complex dynamics
14:00-15:00	Shu Kawaguchi (Osaka Univ.) Finiteness results on commuting maps over complex numbers and arithmetic complexity
15:15-16:15	De-Qi Zhang (National Univ. of Singapore) Endomorphisms of projective varieties and their invariant hypersurfaces
16:30-17:30	Keiji Oguiso (Osaka Univ.) General singular fibers of proper holomorphic Lagrangian fibrations via foliation

For the most recent version of the program and the abstracts, please see the following web page:
<http://www.math.sci.osaka-u.ac.jp/~sumi/cpxdyn09meeting2e.html>

Date: December 18, 2009.