

# 複素力学系およびそのモジュライ等の関連分野の研究 (Complex dynamical systems and related topics)

Dates: December 12 (Mon) 10:15 – December 16 (Fri) 12:30, 2016  
Place: Room 111 in RIMS, Kyoto University  
Organizers: Yûsuke Okuyama (Kyoto Institute of Technology, chair)  
Mitsuhiro Shishikura (Kyoto University)

## PROGRAM

December 12 (Mon)

- 10:15 – 10:55 David Martí-Pete (Kyoto University)  
The escaping set of transcendental self-maps of the punctured plane
- 11:05 – 11:45 Kohei Ueno (Daido University)  
Bottcher coordinates for holomorphic skew products
- 13:20 – 14:00 Junghun Lee (Nagoya University)  
J-stability of expanding rational maps in non-Archimedean dynamics
- 14:10 – 15:00 Shunsuke Morosawa (Kochi University)  
The parameter space of  $G_c = \langle z \mapsto z^2, z \mapsto (z - c)^2 + c \rangle$
- 15:20 – 16:10 Hiroki Sumi (Osaka University)  
Finding Roots of Any Polynomials by Random Relaxed Newton's Methods
- 16:20 – 17:00 Johannes Jaerisch (Shimane University)  
Multifractal analysis of the random iteration of rational maps on the Riemann sphere

December 13 (Tue)

- 9:30 – 10:30 Liang-Chung Hsia (National Taiwan Normal University)  
On Dynamical Unlikely Intersections (I)
- 10:45 – 11:45 Thomas Gauthier (Université de Picardie Jules Verne)  
Bifurcation currents and distribution of postcritically finite rational maps (I)
- 13:20 – 14:10 Yutaka Ishii (Kyushu University)  
Boundary of the horseshoe locus for the Hénon family
- 14:20 – 15:10 Shigehiro Ushiki (Kyoto University)  
Anti-conjugacy of complex dynamical systems and slices of Siegel Balls, Reinhardt domains and Hartogs domains
- 15:30 – 16:10 Takato Uehara (Saga University)  
Rigidity of automorphisms on rational surfaces
- 16:20 – 17:00 Tomoko Shinohara (Tokyo Metropolitan College of Industrial Technology)  
A set of indeterminate points of Newton's method of several variables

December 14 (Wed)

- 9:30 – 10:30 Thomas Gauthier (Université de Picardie Jules Verne)  
Bifurcation currents and distribution of postcritically finite rational maps (II)
- 10:45 – 11:45 Liang-Chung Hsia (National Taiwan Normal University)  
On Dynamical Unlikely Intersections (II)
- 13:20 – 14:00 Tomoki Kawahira (Tokyo Institute of Technology)  
On the derivatives of degenerating holomorphic motions of hyperbolic quadratic Julia sets
- 14:10 – 14:50 Masashi Kisaka (Kyoto University)  
Julia sets in the Mandelbrot set imply abundance of semihyperbolic dynamics
- 15:10 – 16:00 Atsushi Kameyama (Gifu University)  
Combinatorics of Cantor Julia sets
- 16:10 – 17:00 Mitsuhiro Shishikura (Kyoto University)  
Tropical limit of complex dynamical systems

December 15 (Thr)

- 9:30 – 10:30 Liang-Chung Hsia (National Taiwan Normal University)  
On Dynamical Unlikely Intersections (III)
- 10:45 – 11:45 Thomas Gauthier (Université de Picardie Jules Verne)  
Bifurcation currents and distribution of postcritically finite rational maps (III)
- 13:20 – 14:10 Yu Yasufuku (Nihon University)  
Some Explicit Computations of Dynamical Galois Groups
- 14:20 – 15:10 Kaoru Sano (Kyoto University)  
Arithmetic degrees and dynamical degrees of endomorphisms on surfaces
- 15:30 – 16:20 Kohei Kikuta (Osaka University)  
Categorical entropy of Triangulated categories
- 16:30 – 17:00 Yūsuke Okuyama (Kyoto Institute of Technology)  
A tropical function associated to a rational function

December 16 (Fri)

- 9:40 – 10:30 Laurent Stolovich (Université de Nice Sophia-Antipolis)  
Real submanifolds of maximum complex tangent space at a CR singular point
- 10:40 – 11:30 Masafumi Yoshino (Hiroshima University)  
Singularity and monodromy of Hamiltonian system containing Emden-Fowler equation
- 11:40 – 12:30 Hiroyuki Inou (Kyoto University)  
On accessibility of hyperbolic components for the tricorn

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