

Measurable and Topological Dynamical Systems --- Keio 2013

Venue : Keio University, Hiyoshi Campus,
Conference Room L at Raiosha 2nd floor
<http://www.keio.ac.jp/en/maps/hiyoshi.html>

Organizers: Kyewon Koh Park (Ajou University)
Takehiko Morita (Osaka University)
Hitoshi Nakada (Keio University)
Rie Natsui (Japan Women's University)
Xiang Dong Ye (University of Science and Technology of China)

Partially supported by

- Faculty of Science and Technology and Graduate School of Science and Technology Research Cooperation Grant, Keio University
- the Grant-in-Aid for Scientific research (No. 24340020 and 22340034), JSPS.

PROGRAM

11 Dec

9:30 - 10:20

Masato Tsujii (Kyushu University)

Geodesic flows on negatively curved manifolds and the semi-classical zeta function

10:30 - 10:45

Huoyun Wang (Guangzhou University)

Topological sequence entropy and chaos

10:50 - 11:05

Sieye Ryu (Seoul National University)

The Lind zeta function for shift reversal systems of finite order

11:10 - 11:25

Akane Kawaharada (Hiroshima University)

Cellular automata and continuous systems

11:35 - 12:25

Michael S. Keane (TU Delft)

The conjugacy class of a constant length substitution

13:30 - 14:20

Jiangong You (Nanjing University)

Spectrum of quasi-periodic Schrödinger operators with Liouvillean frequency

14:30 - 14:45

Kesong Yan (Liuzhou Teachers College)

Sub-additive thermodynamic formalism for \mathbf{Z}^d and amenable actions

14:45 - 15:00

Johannes Jaerisch (Osaka University)

Bowen's formula for infinitely generated rational semigroups and multifractal formalism for random complex dynamical systems (joint work with Hiroki Sumi)

15:10 - 15:25

Enhui Shi (Soochow University)

Some ergodic and rigidity properties of Heisenberg group actions on compact manifolds

15:25 - 15:40

Wen Huang (University of Science and Technology of China)

Asymptotic pairs, stable sets and chaos in positive entropy systems

16:10 - 17:00

Teturo Kamae (Osaka City University)

An easy criterion for randomness (joint work with Xue Yumei)

17:10 - 17:25

Hajime Kaneko (Nihon University)

On the beta expansions of 1 and algebraic numbers

17:30 - 17:45

Jisang Yoo (Ajou University)

On relative maximal measures and a result on diamond pairs

17:50 - 18:05

Rui Kuang (South China University of Technology)

Mixing via the extended family

12 Dec

9:30 - 10:20

Hiroki Sumi (Osaka University)

Transversality family of expanding rational semigroups and contracting IFSs with overlaps

10:30 - 10:45

Jungseob Lee (Ajou University)

Directional Entropy Dimension

10:50 - 11:05

Hiroshi Ishitani (Mie University) and Kensuke Ishitani (Meijo University)

Effects of randomization on asymptotic periodicity for random iterations

11:10 - 11:25

Yusuke Tokunaga (Osaka University)

Measures with maximum total exponent of Ω -stable diffeomorphisms

11:35 - 12:25

Sebastien Ferenczi (IML)

Self-dual induction and diagonal changes for general interval exchanges

13:30 - 14:20

Shigeki Akiyama (University of Tsukuba)

Beta expansion and algebraic coincidence

14:30 - 14:45

Masamichi Yoshida (Osaka City University)

Denjoy odometer with cut number 2

14:45 - 15:00

Younghwan Son (Weizmann Institute)

Uniform distribution of prime powers and sets of recurrence

15:10 - 15:25

Hisatoshi Yuasa (Osaka Kyoiku University)

On almost minimal subshifts

15:25- 15:40

Jian Li (Shantou University)

Point transitivity, multi-transitivity, delta-transitivity and multi-minimality

16:10 - 17:00

Kyewon Koh Park (Ajou University)

Some properties of entropy zero systems

17:10 - 17:25

Ercai Chen (Nanjing Normal University)

A new Caratheodory-Pesin dimension structure and its applications to dynamical systems

17:30 - 17:45

Yuji Ito (Keio University)

Embedding infinite ergodic transformations within a finite ergodic transformation

18:30 – 20:30

Conference Dinner at Faculty Lounge

13 Dec

9:30 - 10:20

Yingfei Yi (Jilin University and Georgia Institute of Technology)

Thermodynamics and ergodicity

10:30 - 10:45

Hunseok Kang (Soongsil University)

Bifurcations in piecewise smooth dynamical systems

10:50 - 11:05

Uijin Jung (Ajou University)

Degree to class degree, and structure of transition classes of factor maps from shifts of finite type

11:10 - 11:25

Rie Natsui (Japan Women's University)

The equivalence relations of α -continued fractions

11:35 - 12:25

Francesco Cellarosi (University of Illinois)

Ergodic properties of k -free integers in number fields

13:30 - 14:20

Dong Han Kim (Dongguk University)

Dirichlet uniformly well-approximated numbers

14:30 - 14:45

Song Shao (University of Science and Technology of China)

Strictly ergodic models for dynamical systems

14:45 - 15:00

Kiyotaka Suzuki (Osaka University)

Leafwise Brownian motions on generalized Kronecker foliations

15:10 - 15:25

Hyekyoung Choi (Seoul National University)

On the flips for a coded system

15:25 - 15:40

Takuya Ikeda (Osaka University)

Central limit theorem for a class of nonsingular transformations with quasi-compact

Perron-Frobenius operator

16:10 - 17:00

Shaobo Gan (Beijing University)

Two remarks on circle expanding maps

17:10 - 17:25

Takashi Shimomura (Nagoya University of Economics)

Graph covers and invariant measures for 0-dimensional systems

17:30 - 17:45

Xiongping Dai (Nanjing University)

Balance times of multidimensional quasi-additive potentials for a measure-preserving semiflow

17:50 - 18:05

Tomoki Inoue (Ehime University)

A.C.I.M. for one-dimensional random maps with continuous random parameters

14 Dec

9:30 - 10:20

Hiroki Takahasi (Keio University)

Multifractal analysis for the Hénon map at the first bifurcation

10:30 - 10:45

Yong Moo Chung (Hiroshima University)

Large deviation principle for interval maps with weak hyperbolicity

10:50 - 11:05

Simin Li (University of Science and Technology of China)

A new class of generalized Fibonacci unimodal maps

11:10 - 11:25

Dou Dou (Nanjing University)

Entropy dimensions over factors

11:35 - 12:25

Xiangdong Ye (University of Science and Technology of China)

Mean equicontinuity and mean sensitivity

13:30 - 17:00

Free discussions

How to get to Conference Room L

It's the 2nd floor of Raiosha, (9) in the campus map

<http://www.keio.ac.jp/en/maps/hiyoshi.html>

The entrance of Raiosha is in front of the main library (1) in the campus map.

When you come in Raiosha, please go to left and through another glass door.

Then turn to right and go to the 2nd floor by stairs. The Conference Room L is just front of the stairs. If you use elevator then you have to go around the corridor to get the conference room.

Conference Dinner (buffet dinner)

18:30 - 20:30 at Faculty Lounge in Kyoseikan

4,000 yen for each participant (3,000 yen for each student)

Please mail to

nakada@math.keio.ac.jp

if you wish to join the dinner.

How to get to Keio University from Narita/Haneda Airport

Please take limousine to Yokohama City Air Terminal (YCAT).

From YCAT, walk to Yokohama station via East Exit and find Tokyu Line.

<http://www.jreast.co.jp/e/stations/e1638.html>

There are ticket machines around the entrance to Tokyu line.

Choose language and select Tokyu line ticket. From Yokohama to Hiyoshi it costs 190 yen. Be careful that the same machine sells you Tokyu line tickets and Minato-Mirai line tickets. Go to Shibuya direction from there and then get off at Hiyoshi station. Limited express trains do not stop at Hiyoshi station. Keio university is just in front of the station.