

Spectra of Random Operators and Related Topics

- December 2-4, 2009
- Yoshida-South Campus Bldg.4, 2nd floor room 20, Kyoto University

Organized by
Nariyuki MINAMI (Keio University)
Naomasa UEKI (Kyoto University)

Program

Dec. 2 (Wed.)

10:00–10:50 N. Ueki (Kyoto University)

Lifschitz tails for the uniform magnetic field and a randomly perturbed lattice

11:00–11:50 F. Germinet (Université de Cergy-Pontoise)

Quantization of edge currents along magnetic barriers and magnetic guides

11:50–13:30 lunch break

13:30–14:20 P. Müller (Universität München)

On the spectral shift function of compactly supported perturbation

14:30–15:20 S. Kotani (Kwansei Gakuin University)

Limit distribution of eigenvalues spacing for Schrödinger operators with random decaying potentials

15:20–15:40 tea break

15:40–16:30 F. Nakano (Kochi University)

On energy level statistics at low energy

16:40–17:30 F. Klopp (Université Paris 13)

The structure of the solutions to quasi-periodic finite difference equations in the large coupling regime (based on joint work with A. Fedotov)

Dec. 3 (Thurs.)

9:30–10:20 J.-M. Combes (Université du Sud: Toulon et le Var)

Spectral Correlations for the Discrete Anderson model

- 10:30–11:20** A. Klein (University of California, Irvine)
Local Wegner estimates, Minami estimates, and Poisson statistics of eigenvalues for continuum Anderson Hamiltonians
- 11:30–12:20** K. Slevin (Osaka University)
Finite size scaling analysis of the Chalker-Coddington model
- 12:20–14:00** lunch break
- 14:00–14:50** T. Nagao (Nagoya University)
Determinantal spectral correlations for chaotic systems
- 15:00–15:50** T. Sasamoto (Chiba University)
Maximum of Dyson BM and Dyson BM with boundary
- 15:50–16:10** tea break
- 16:10–17:00** S. Hikami (University of Tokyo)
Correlations at a spectrum edge of a random matrix
- Dec. 4 (Fri.)**
- 10:00–10:50** M. Katori (Chuo University)
Dyson's Brownian motion model with $\beta = 2$ and entire functions
(joint work with H. Tanemura)
- 11:00–11:50** N. Sakuma (Keio University)
Free additive infinite divisibility of free multiplicative convolutions with the Wigner measure, with examples
- 11:50–13:30** lunch break
- 13:30–14:20** Y. Kitagaki (Kyoto University)
Generalized eigenvalue-counting estimates for some random acoustic operators
- 14:30–15:20** N. Minami (Keio University)
Energy level statistics for the one-dimensional Anderson model

October 26, 2009