Interaction between Analysis and Probability

Place: RIMS Room 202, Kyoto University

Date: May 31 (Wed)-June 2 (Fri), 2000

Program

May 31 (Wed)

13:10- 14:00   Richard F. Bass (University of Connecticut)
The Liouville problem and a conjecture of DeGeorgi

14:10-15:00   Shin-ichi Kotani (Osaka University)
Reflectionless potentials and probability theory

15:20-15:50   Hiroshi Takahashi (Keio University)
Diffusion process on a uniform Cantor set and its homogenization

16:00-16:50   Hayato Nawa (Nagoya University)
Loglog law for blowup solutions of the nonlinear Schrödinger equation
with critical power

June 1 (Thu)

9:40-10:30   Minoru Murata (Tokyo Institute of Technology)
Positive solutions of elliptic equations in skew product form

10:40-11:30   Kazuaki Taira (University of Tsukuba)
Markov Processes and Boundary Value Problems

13:10-14:00   Richard F. Bass (University of Connecticut)
Harnack inequalities for pure jump processes

14:10-15:00   Hiroaki Aikawa (Shimane University)
Boundary Harnack principle for a uniform domain

15:10-16:00   Masatoshi Fukushima (Kansai University)
On a space of BV functions and distorted Ornstein Uhlenbeck
processes in infinite dimensions (joint work with M. Hino)

* 18:00- Party

June 2 (Fri)

9:40-10:30   Atsushi Atsuji (Osaka University)
   Some global properties of minimal surfaces from Brownian view points

10:40-11:30   Hitoshi Arai (University of Tokyo)
   Carleson measures, Brownian motion and a gradient estimate for
   harmonic functions on negatively curved manifolds

13:10-14:00   Takashi Kumagai (Kyoto University)
   Application of the theory of Besov spaces to the diffusion processes
   penetrating fractals

14:10-15:00   Masayoshi Takeda (Tohoku University)
   On gaugeability for generalized Schrödinger operators

15:10-16:00   Richard F. Bass (University of Connecticut)
   Symmetric jump processes