

数理解析研究所講究録 1258

非線形拡散系とその周辺

京都大学数理解析研究所

2002年4月

Nonlinear Diffusive Systems and Related Topics

Period: October 17 - 19, 2001

Place : RIMS, Kyoto University

Chief organizer Yoshihisa Morita (Ryukoku University)

Co-organizer Eiji Yanagida (Tohoku Univeristy)

Program

October 17 (Wednesday)

- 13:20 - 13:30 Opening
- 13:30 - 14:20 Shoji Yotsutani (Ryukoku University)
On a limiting system in the Lotka-Volterra
competition with cross-diffusion
- 14:30 - 15:20 Kazuhiro Ishige (Nagoya Univeirsity)
Blow-up problems for semilinear heat equations
with large diffusion
- 15:20 - 15:50 Break
- 15:50 - 16:40 Shunsaki Nii (Saitama University)
Bifurcations of travelling waves

October 18 (Thursday)

- 10:00 - 10:50 Shigeru Sakaguchi (Ehime University)
Stationary isothermic surfaces of the heat flow
- 11:00 - 11:50 Messoud A. Efendiev (University of Stuttgart)
Recent development for reaction-diffusion systems
both in bounded and unbounded domains
- 12:00 - 13:30 Lunch break
- 13:30 - 14:20 Toshiko Ogiwara (Josai University)
Ken-Ichi Nakamura (University of Electro-Communications)
Asymptotic behavior of solutions to a model of spiral
crystal growth

- 14:00 - 15:00 Hiroshi Yagisita (Kyoto University)
Backward global solutions characterizing annihilation
dynamics of travelling fronts
- 15:00 - 15:20 Break
- 15:20 - 15:50 Yoshihito Kohsaka (Tohoku University)
Self-similar solutions of two-point free boundary
problem for heat equation
- 16:00 - 16:30 Satoshi Kosugi (Hokkaido University)
Eigenvalues of elliptic operators and singular
perturbations

October 19 (Friday)

- 10:00 - 10:50 Henri Berestycki (EHSS and University Paris VI)
An inverse parabolic problem arising in finance
- 11:00 - 11:50 Yuzo Hosono (Kyoto Sangyo University)
Propagation speeds of travelling waves for autocatalytic
reaction-diffusion equations
- 11:50 - 12:00 Closing

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Nonlinear Diffusive Systems and Related Topics
研究集会報告集

2001年10月17日～10月19日
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