

数理解析研究所講究録 1388

調和解析学と非線形偏微分方程式

京都大学数理解析研究所

2004年7月

Workshop on Harmonic Analysis and Nonlinear Partial Differential Equations

Research Institute for Mathematical Sciences, Kyoto University
Room No. 420

Monday, July 8, 13:30 — Wednesday, July 10, 12:05, 2002

Organizer: Masao Yamazaki (Waseda Univ.)
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Monday, July 8

- 13:30–14:30 Eiichi Nakai (Osaka Kyouiku Univ.)
Hardy Spaces and Generalized Fractional Integrals
- 14:45–15:30 Reika Fukuizumi (Tohoku Univ.)
Stability of Standing Waves for Nonlinear Schrödinger
Equations with Double Power Nonlinearity
- 15:45–17:00 Christopher D. Sogge (Johns Hopkins Univ.)
Almost Global and Global Existence for Nonlinear Wave
Equations Outside of Obstacles

Tuesday, July 9

- 9:45–10:45 Takuya Sobukawa (Okayama Univ.)
The Relation between the Extrapolation Estimates
- 11:00–12:00 Takahiro Mizuhara (Yamagata Univ.)
Some Factorization Theorem for Hardy Spaces
and Commutators on Morrey Spaces
- 13:30–14:30 Hiroyuki Chihara (Tohoku Univ.)
The Initial Value Problem for Schrödinger Equations
on the Torus
- 14:45–15:30 Shuji Machihara (Shimane Univ.)
Small Global Solutions for the Nonlinear Dirac Equation
- 15:45–17:00 Christopher D. Sogge (Johns Hopkins Univ.)
Eigenfunctions and Harmonic Analysis
- 18:30– Banquet (at Co-Op Inn Kyoto)
<http://www2.univcoop.or.jp/inn>

Wednesday, July 10

9:30–10:15 Okihiro Sawada (Hokkaido Univ.)

On Time-Local Solvability of the Navier-Stokes Equations
in Besov Spaces

10:25–11:10 Yuko Enomoto (Waseda Univ.)

L_p - L_q Estimates of the Oseen Semigroup in
 n -Dimensional Exterior Domain and its Application

11:20–12:05 Jihoon Lee (Seoul National Univ.)

On the Subdissipative Navier-Stokes Equations

調和解析学と非線形偏微分方程式
 Harmonic Analysis and Nonlinear Partial Differential Equations
 研究集会報告集

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 研究代表者 山崎 昌男 (Masao Yamazaki)

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