Workshop on Harmonic Analysis and Nonlinear Partial Differential Equations

Research Institute for Mathematical Sciences, Kyoto University Room Number 420

Monday, July 5, 13:40 — Wednesday, July 7, 11:55

Organizers: Hideo Kozono (Tohoku Univ.)

Yoshio Tsutsumi (Kyoto Univ.)

Masao Yamazaki (Waseda Univ.) (chair)

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http://www.math.waseda.ac.jp/ yamazaki/meetings/hanlpde04.html

Monday, July 5

13:40-14:40 Makoto Nakamura (Tohoku University)

On global solutions for wave equations under the null condition in 3 space dimensions

14:50–15:50 Akihiro Shimomura (Gakushuin University)

Modified wave operators for Nonlinear Schrödinger equations with Stark effects

16:00-16:45 Hidemitsu Wadade (Tohoku University)

The upper bound of the best constant of Trudinger-Moser inequality and its applications to Gagliardo-Nirenberg inequality

Tuesday, July 6

10:00–11:00 Nobuhiko Fujii (Tokai University) On L^p -estimates for some integral operators

11:10-12:10 Yuichi Kanjin (Kanazawa University)

Transplantation theorems and their applications

13:40–14:40 Akihiko Miyachi (Tokyo Woman's Christian University) Weighted H^p -spaces on a domain and singular integrals

14:50–15:50 Jürgen Saal (Technische Universität Darmstadt)
Rotating Navier-Stokes equations in a half-space with
nondecreasing initial data: The Ekman boundary layer problem

16:00–16:45 Okihiro Sawada (JSPS fellow, Waseda University)
On the Navier-Stokes flow with linearly growing initial data

-an application to Ornstein-Uhlenbeck semigroup-

18:00- Banquet (Co-op Inn Kyoto) http://www.mytrip.net/HOTEL/10846/10846_e.html

Wednesday, July 7

10:00–11:00 Toshiaki Hishida (Niigata University)

 L^q estimates for the Stokes equations around a rotating body

11:10–11:55 Hyunseok Kim (Tohoku University)

On a removable isolated singularity theorem for the stationary Navier-Stokes equations