

Nonlinear Evolution Equations and Related Topics

以下の要領で研究集会「Nonlinear Evolution Equations and Related Topics」を開催いたします。
奮ってご参加下さい。

日時：平成 27 年 3 月 9 日 (月) 14:00 – 平成 27 年 3 月 11 日 (水) 16:30 /

Date : 14:00, March 9 (Mon.), 2015 – 16:30, March 11 (Wed.), 2015

会場：京都大学理学部 3 号館 305 号室 / Place : Rm. 305, Bldg. Sci. 3, Kyoto University

懇親会：門 / Banquet : Restaurant "Mon"

Program

3 月 9 日 (月) / March 9 (Mon.)

14:00 – 14:50

Akitaka Matsumura (Osaka University)

Some results by energy methods on large-time behavior of viscous gas

15:00 – 15:50

Yoshinori Morimoto (Kyoto University)

Global solutions in spatially critical Besov spaces for the non-cutoff Boltzmann equation of hard potentials

¹16:10 – 17:10 Place: Rm. 127

Herbert Koch (Mathematical Institute of the University of Bonn)

The spaces U^p and V^p and global solutions to dispersive equations

3 月 10 日 (火) / March 10 (Tue.)

10:00 – 10:50

Takamori Kato (Saga University)

A cancellation property and well-posedness of the fifth order KdV type equations on the torus

11:00 – 11:50

Kotaro Tsugawa (Nagoya University)

Refined energy estimate and local well-posedness of fifth order dispersive equations on the torus

– Lunch –

13:30 – 14:20

Jun Kato (Nagoya University)

Remarks on an a priori estimate for the Navier-Stokes equations with the Coriolis force and applications

¹joint hosting with SGU Mathematics Kickoff Meeting,
<https://www.math.kyoto-u.ac.jp/ja/event/conference/737>

14:30 – 15:30

Herbert Koch (Mathematical Institute of the University of Bonn)
The Kadomtsev-Petviashvili II equation with two transversal directions

– Break –

15:50 – 16:50

Dong Li (University of British Columbia)
Norm inflation of the incompressible Euler equations in critical spaces

18:00 – Banquet, Restaurant "Mon"

3月11日(水) / March 11 (Wed.)

10:00 – 10:50

Lingbing He (Tsinghua University)
Sharp bounds for Boltzmann and Landau collision operators

11:00 – 11:50

Pin Yu (Tsinghua University)
Shock formations for 3 dimensional wave equations

– Lunch –

13:30 – 14:20

Wenming Zou (Tsinghua University)
Some progress on coupled Schrödinger equations via variational methods

14:30 – 15:20

Yuxiang Li (Tsinghua University)
Radially symmetric solutions to the graphic Willmore surface equation

– Break –

15:40 – 16:30

Yuxia Guo (Tsinghua University)
Existence, non-existence and local uniqueness for polyharmonic equations with critical exponent

組織委員 / Organizers

堤 誉志雄 (京都大学) / Yoshio Tsutsumi (Kyoto University)

中西 賢次 (京都大学) / Kenji Nakanishi (Kyoto University)

岸本 展 (京都大学) / Nobu Kishimoto (Kyoto University)

池田 正弘 (京都大学) / Masahiro Ikeda (Kyoto University)

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