

RIMS Workshop

Nonlinear Wave and Dispersive Equations

August 30 (Wed.) – September 1 (Fri.), 2017

Room 127 at Science Building #3, Kyoto University

– Program –

August 30 (Wed.)

- 13:30 – 14:20 Masahito Ohta (Tokyo University of Science) [太田 雅人 氏 (東京理科大)]
Strong instability of standing waves for nonlinear Schrödinger equations
with a partial confinement
- 14:30 – 15:20 Jun-ichi Segata (Tohoku University) [瀬片 純市 氏 (東北大)]
Modified scattering for the Klein-Gordon equation with the critical
nonlinearity in two and three dimensions
- 15:40 – 16:30 Makoto Nakamura (Yamagata University) [中村 誠 氏 (山形大)]
On the effects of spatial expansion and contraction on the semilinear
Klein-Gordon equation
- 16:40 – 17:30 Tohru Ozawa (Waseda University) [小澤 徹 氏 (早稲田大)]
Lifespan of periodic solutions to nonlinear Schrödinger equations

August 31 (Thu.)

- 10:30 – 11:20 Luc Molinet (Université François-Rabelais, Tours)
A rigidity result for the Camassa-Holm equation
- 11:30 – 12:20 Kotaro Tsugawa (Nagoya University) [津川 光太郎 氏 (名古屋大)]
Ill-posedness of derivative nonlinear Schrödinger equations on the torus
- 12:20 – 14:00 Lunch
- 14:00 – 14:50 Bernard Helffer (Université de Nantes, Nantes)
The Ginzburg-Landau functional with vanishing magnetic field
(after K. Attar, B. Helffer-A. Kachmar, Kachmar-Nasrallah,...)

- 15:00 – 15:50 Wilhelm Schlag (University of Chicago, Chicago)
Long term dynamics of dispersive evolution equations
- 16:10 – 17:00 Hideo Takaoka (Kobe University) [高岡 秀夫 氏 (神戸大)]
Energy transfer model and large periodic boundary value problem for
the quintic NLS
- 18:00 – Banquet

September 1 (Fri.)

- 10:30 – 11:20 Hideaki Sunagawa (Osaka University) [砂川 秀明 氏 (大阪大)]
On derivative nonlinear Schrödinger systems with multiple masses
- 11:30 – 12:20 Kenji Nakanishi (Osaka University) [中西 賢次 氏 (大阪大)]
Global dynamics of the nonlinear Schrödinger equation with a potential

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