Mathematics and Physics Unit "Multiscale Analysis, Modeling and Simulation" Top Global University Project, Waseda University International Workshop on "Fundamental Problems in Mathematical and Theoretical Physics"

Date: July 18 – July 22, 2016 Venue: 04 Conference Room, 2nd Floor, 55S Bldg., Waseda University, Nishi-Waseda Campus 早稲田大学 西早稲田キャンパス 55 号館 S 棟 2 階 第4会議室

Part I. Quantum Physics

July 18, Monday

10:30 – 12:30	Lecture "From the Quantum Zeno Effect to the Master Equation" I
	Saverio PASCAZIO (University of Bari, Italy)
14:30 – 16:00	Seminar "A Quantum Particle in a Cavity with Alternating Boundary
	Conditions"
	Giancarlo GARNERO (University of Bari, Italy)
16:30 - 18:00	Lecture "From the Quantum Zeno Effect to the Master Equation" II
	Saverio PASCAZIO (University of Bari, Italy)

July 19, Tuesday

10:30 - 12:30	Lecture "Quantum Thermodynamics and Canonical Typicality" I
	Paolo FACCHI (University of Bari, Italy)
14:30 - 16:00	Lecture "Quantum Control" I
	Daniel BURGARTH (Aberystwyth University, UK)
16:30 - 18:00	Lecture "Quantum Thermodynamics and Canonical Typicality" II
	Paolo FACCHI (University of Bari, Italy)

July 20, Wednesday 10:30 – 12:30 Lecture "Quantum Control" II

Daniel BURGARTH (Aberystwyth University, UK)

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Part II. Mathematical Physics

- July 20, Wednesday
 - 13:30 15:00 Vladimir Georgiev (University of Pisa), **Minicourse I** Scattering of small solutions of the cubic NLS with short range potential I
 - 15:30 17:00 Baoxiang Wang (Peking University), Minicourse I
 U₂, V₂-modulation spaces and nonlinear dispersive equations I

July 21, Thursday

- 10:30 12:00 Vladimir Georgiev (University of Pisa), **Minicourse I I** Scattering of small solutions of the cubic NLS with short range potential II
- 13:00 13:30 Masayuki Hayashi (Waseda University)
 Well-posedness for a generalized derivative nonlinear Schrödinger equation
- 13:40 14:10 Ryosuke Hyakuna (Waseda University)
 Local well-posedness for the nonlinear Schrödinger equation in one space dimension
- 14:20 15:00 Yuta Wakasugi (Nagoya University)The Cauchy problem for the nonlinear damped wave equation with slowly decaying data
- 15:30 17:00 Baoxiang Wang (Peking University), Minicourse II
 U₂, V₂-modulation spaces and nonlinear dispersive equations II

July 22, Friday

- 10:30 12:00 Vladimir Georgiev (University of Pisa), **Minicourse III** Scattering of small solutions of the cubic NLS with short range potential III
- 13:30 15:00 Baoxiang Wang (Peking University), Minicourse III
 U₂, V₂-modulation spaces and nonlinear dispersive equations III
- 15:30 16:30 Nobu Kishimoto (Kyoto University)
 Weak dispersion limit for nonlinear Schrödinger equations with higher order corrections
- 16:40 17:40 Jun-ichi Segata (Tohoku University) Refinement of Strichartz estimates for Airy equation and application
- 18:00 Reception at Takeuchi Lounge

Organized by Hiromichi Nakazato • Tohru Ozawa • Kazuya Yuasa Supported by Top Global University Project, Waseda University / Institute of Mathematical Fluid Dynamics, Waseda University