RIMS Symposium (open)

Harmonic Analysis and Nonlinear Partial Differential Equations

Organizers Yutaka Terasawa

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Date: 2022, July 11th (Mon) 13:15 – July 13th (Wed) 11:45

Venue: Room 420, Research Institute for Mathematical Sciences (RIMS),

Kyoto University, Kyoto

Program

July 11th (Mon)	
13:15-14:15	Haruya Mizutani (Osaka University) L^p -boundedness of wave operators for fourth-order Schrödinger operators in one space dimension
14:30 - 15:30	Gerd Grubb (University of Copenhagen) Fourier methods for fractional-order operators I
15:45-16:45	Gerd Grubb (University of Copenhagen) Fourier methods for fractional-order operators II
July 12th (Tue)	
9:00 - 10:00	Ikkei Shimizu (Osaka University) Profile decomposition for the Schrödinger propagator on star graphs and its application to nonlinear problems
10:15-11:15	Hitoshi Tanaka (National University Cooperation Tsukuba University of Technology) Choquet integrals, Hausdorff content and sparse operators
11:15-13:15	Lunch break
13:15-14:15	Makiko Sasada (The University of Tokyo) Hydrodynamic limit of interacting particle systems and partial differential equations
14:30 - 15:30	Moritz Kassmann (Bielefeld University) Energy methods for nonlocal problems and transitions to local problems
15:45 - 16:45	Luca Scarpa (Politecnico di Milano) Nonlocal-to-local convergence of Cahn-Hilliard equations: asymptotic analysis and applications

July 13th (Wed)

9:30 - 10:30 Shinya Kinoshita (Saitama University)

Boundary Strichartz estimates for orthonormal initial data

10:45 – 11:45 Nakao Hayashi (Tohoku University)

Critical exponent of small solutions to the Nonlinear Schroedinger equation with a nonlinear Neumann boundary condition

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