# The 41th Kyushu Symposium on Partial Differential Equations

Date : January 22 – January 24, 2024 Venue : Kyushu University, Nishijin Plaza

http://nishijinplaza.kyushu-u.ac.jp/index.php

## Program

January 22 (Monday)	
14:00 – 14:50	Satoshi Tanaka (Tohoku University) Uniqueness and nonuniqueness of positive radial solutions to the Brezis-Nirenberg problem in an annulus
15:00 – 15:50	Michiaki Onodera (Tokyo Institute of Technology) Weighted Schauder estimates for irregular oblique derivative problems
16:10 – 17:00	Ning Jiang (Wuhan University) Weakly nonlinear-dissipative approximation of hyperbolic-parabolic system with entropy and application to incompressible limit of compressible Navier-Stokes system
January 23 (Tuesday)	
10:00 – 10:50	Yasuhiro Fujita (University of Toyama) A distinction between the Weierstrass function and the Takagi function by Hamilton-Jacobi flows
11:00 – 11:50	Masaaki Mizukami (Kyoto University of Education) Possible points of blow-up in chemotaxis systems with environmental dependent logistic source
	-Lunch break-
14:00 – 14:50	Jiang Xu (Nanjing University of Aeronautics and Astronautics) The sharp decay characterization of the compressible Navier-Stokes equations in the critical framework
15:00-15:50	Mishio Kawashita (Hiroshima University) Inverse problems for media with multiple types of cavities
16:10 – 17:00	Nakao Hayashi (Tohoku University) Subcritical Hartree type equations in one space dimension

### January 24 (Wednesday)

10:00 – 10:50	Yong Lu (Nanjing University) Unconditional stability of equilibria in thermally driven compressible fluids
11:00 – 11:50	Itsuko Hashimoto (Kanazawa University) Inviscid limit problem of radially symmetric stationary solutions for compressible Navier-Stokes equation
	-Lunch break-
14:00 – 14:50	Hiroshi Takase (Kyushu University) Inverse source problems for wave equations with inverse square potentials
15:00 – 15:50	Yoshinori Nishii (Tokyo University of Science) Upper and lower bounds for energy of small solutions to semilinear wave equations with weakly dissipative structure
16:10 – 17:00	Mamoru Okamoto (Osaka University) On the solutions to the two-dimensional Wick ordered nonlinear Klein-Gordon equation

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#### Organizers:

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Yoshiyuki Kagei (Tokyo Institute of Technology)

Takashi Senba (Fukuoka University)

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Shota Sakamoto (Kyushu University)

Yohei Yamazaki (Kyushu University)

Military Tourist (II) desired of inversity

Mikihiro Fujii (Kyushu University)