

Japan-France Joint Workshop

Interacting Particle Systems and Fluid Mechanics: Theory and Applications

Date : November 2 (Wed), 2022

Venue : Institut Français du Japon-Kansai (アンスティチュ・フランセ関西)

JST/CET Timetable

- 14:00/6:00 Jules Irrmann (Consul General of France)
- 14:10/6:10 Takayuki Kitamura (Vice President, Kyoto University)
- 14:20/6:20 Jean-Baptiste Bordes (Attaché for science and technology, French Embassy)
- 14:40/6:40 Tetsuro Tsuji (Kyoto University)
Optothermal manipulation of particles in microfluidic systems
- 15:00/7:00 Francesco Salvarani (De Vinci Research Center & Università di Pavia)
Exponential convergence to consensus in finite and infinite dimensions
- 15:20/7:20 Break
- 15:50/7:50 Satoshi Taguchi (Kyoto University)
Motion of a rarefied gas induced by discontinuous boundary data
- 16:10/8:10 Yasunori Maekawa (Kyoto University)
On the stability of the boundary layer in the inviscid limit for the Navier-Stokes flows
- 16:40/8:40 Takaaki Nishida (Kyoto University)
A route to chaos in Rayleigh-Benard heat convection
- 17:10/9:10 Break
- 17:20/9:20 Hiroshi Kokubu (Dean of the Graduate School of Science, Kyoto University)
- 17:30/9:30 Ayman Moussa (Sorbonne Université & Ecole Normale Supérieure)
Cross-diffusion systems: local stability estimate and rigorous derivation
- 18:00/10:00 François Golse (Ecole Polytechnique)
From the N-Body Schrödinger Equation to the Euler-Poisson System
- 18:30/10:30 Shugo Yasuda (University of Hyogo)
Volcano effect in chemotactic aggregation of run-and-tumble bacteria

Organizer: Consulate General of France in Kyoto, Institut Français du Japon-Kansai

Bilateral program committee: F. Charles, F. Salvarani, S. Taguchi, S. Takata, T. Tsuji, S. Yasuda

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