

Mathematical Analysis on pattern formation, propagation and interfacial phenomena

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14 November – 16 November, 2022 Room 420 of Research Institute for Mathematical Sciences, Kyoto University

Program

Monday, 14 November

13:00 - 13:05	Opening
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- 13:10 14:00 Junping Shi(College of William and Mary) Effect of nonlocal interaction on the spatial-temporal pattern formation of reaction-diffusion systems
- 14:10 14:50 Mayuko Iwamoto(Doshisha University) Model for Muscular Contraction Waves in Molluscs
- 15:10 15:50 Jun Okamoto(Kyoto University) On a singular limit of the Kobayashi-Warren-Carter energy
- 16:00 16:40 Yuta Ishii(National Institute of Technology, Ibaraki College) Spiky stationary solutions for the Gierer-Meinhardt model on Y-shaped metric graph

Tuesday, 15 November

09:30 - 10:20	Junping Shi(College of William and Mary) Modeling animal movement with memory with partial differential equations with time-delay
10:30 - 11:10	Shuji Ishihara(The University of Tokyo) Propagating pattern driven by curved surface
11:20 - 12:10	Michael C. Dallaston(Queensland University of Technology) Self-similarity of viscous liquid thread break-up(online)
	Lunch
14:10 - 14:50	Ryo Ito(Kanagawa University) Unbounded traveling wave solutions for reaction-diffusion equations
15:10 - 15:50	Kentaro Nagahara(Tokyo Institute of Technology) Maximizing the total population in a reaction-diffusion models with logistic growth
16:00 - 16:40	Yuichiro Wakano(Meiji University) Ecocultural range-expansion model of modern humans in Paleolithic

Wednesday, 16 November

09:30 - 10:20	Alejandro Garriz(Toulouse Mathematics Institute) Travelling-wave behaviour in doubly nonlinear reaction-diffusion equations
10:30 - 11:10	Hideki Murakawa(Ryukoku University) An approximation to a model governing the motion of two cell population
11:15 - 11:20	Closing

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