The University of Newcastle -Nihon University joint workshop on Applied Mathematics

Date: 1st (Sat) – 4th (Tue) November, 2025
Location: E203, Nihon University Newcastle Campus

Program

2025/10/31   Arrival

2025/11/1

13:50~14:00	Opening Remark
14:00~14:30	Miki Aoyagi
	Singular models in learning theory and information criteria
14:45~15:15	James McCoy
	Isoperimetric inequality for multiply-winding curves
15:30~16:00	Masashi Mizuno
	A stochastic model of grain boundary motion
16:15~16:45	Stephan Tornier
	Groups acting on trees
17:00~17:30	Ravi Pethiyagoda
	Water waves big and small

2025/11/2

11:00~11:30	Mike Meylan

	The abstract linear wave equation and applications to hydrodynamics
11:45~12:15	Dave Smith
	Fokas diagonalization
12:30~14:00	Lunch
14:00~14:30	Takanori Nagamine
	Problems in Affine Algebraic Geometry: An Introduction
14:45~15:15	Masaru Ito
	Geometry of convex cones and conic optimization
15:30~16:00	Florian Breuer
	On Modular Polynomials
16:15~16:45	Kota Saito
	Prime-representing constants
17:00~17:30	Andreas Heinecke
	Duality for frames and application to multivariate wavelet frame construction

2025/11/3

11:00~11:45	Discussion
12:00~14:00	Lunch
15:00~15:20	Kouta Araki
	Long-time behavior of the dissipation function for free energy in the nonlinear Fokker-Planck equation with spatial inhomogeneous diffusion of porous medium type
15:30~15:50	Yuki Miyazaki
	Gradient methods for multiobjective optimization problems
16:00~16:20	Afnan Abdullah M Aldosri
	Numerical simulation of time-domain harbour resonance from incident pulse
16:30~16:50	Jahne Meyer
	Hyperbolic motion of polygons via semi-discrete linear geometric flows

2025/11/4

11:00~12:00	Discussion
12:00~14:00	Lunch
14:00~17:00	Group discussion
17:00~17:30	Closing