International Conference on Nonlinear Partial Differential Equations In Honour of Professor Neil Trudinger's 80th Birthday

New Law School Lecture Theatre 024, F10A New Law Building Annex, The University of Sydney

Sponsored by: Australian Mathematical Sciences Institute (AMSI), Australian Mathematical Society, The Australian National University, The University of New England, The University of Wollongong, and The University of Sydney

Monday	10 July 2023
08:45-09:00	Registration
09:00-09:10	Opening remarks
09:15-10:00	Leon Simon (Stanford University)
	A Liouville type theorem for stable minimal hypersurfaces
10:05-10:30	Morning tea/coffee
10:30-11:15	Xu-Jia Wang (The Australian National University)
	Free boundary problems in the Monge-Ampere equation
11:20-11:50	Jonathan Mui (The University of Sydney)
	A semigroup approach to the Landau-Lifshitz-Gilbert equation
12:00-14:30	Lunch break
14:30–15:15	Zhouping Xin (The Chinese University of Hong Kong)
	On some free boundary value problems arising from subsonic-sonic jet
	flows and rigidity
15:20-15:45	Afternoon tea/coffee
15:45–16:30	Enrico Valdinoci (The University of Western Australia)
	A strict maximum principle for nonlocal minimal surfaces
16:30-17:00	Free discussion
18:30-20:30	Drinks Reception at Fossix Gateway Lounge, 1 Macquarie Place, Sydney

11 July 2023
Gang Tian (BICMR and Peking University)
Some recent progress on Ricci flow
Morning tea/coffee
Nalini Joshi (The University of Sydney)
Monodromy and asymptotics
Hosea Wondo (The University of Sydney)
Independence of singularity type for long time solutions to the
Kähler-Ricci Flow
Conference Photo
Lunch break
Peter Kloeden (Eberhard Karls Universität Tübingen)
Dissipative lattice dynamical systems
Afternoon tea/coffee
Brian Krummel (The University of Melbourne)
Analysis of singularities of area minimizing currents
Free discussion
Conference Dinner at Thai Pothong, 294 King St, Newtown



Wednesday	12 July 2023
09:15-10:00	John Ball (Heriot-Watt University and Maxwell Institute for
	Mathematical Sciences, Edinburgh)
	Image comparison and scaling via nonlinear elasticity
10:05-10:30	Morning tea/coffee
10:30-11:15	Gaven Martin (Massey University)
	From Teichmüller to Shoen-Yau: Extremal mappings between Riemann
	surfaces
11:20-12:05	Serena Dipierro (The University of Western Australia)
	Boundary continuity of nonlocal minimal surfaces in domains with
	singularities
12:10-14:30	Lunch break
14:30-17:00	Free discussion

Thursday	13 July 2023
09:15-10:00	Mikhail Safonov (University of Minnesota Twin Cities)
	Growth theorems as substitution for iteration procedures
10:05-10:30	Morning tea/coffee
10:30-11:15	Valentina Wheeler (The University of Wollongong)
	Free boundary mean curvature flow: what works and what doesn't
11:20-11:50	Jack Thompson (The University of Western Australia)
	On an overdetermined problem involving the fractional Laplacian
12:00-14:30	Lunch break
14:30-15:15	Elton Hsu (Northwestern University)
	Nonlinear PDE and a Stochastic Analysis Approach to in the Parisi Formula
	in Spin Glass Theory
15:20-15:45	Afternoon tea/coffee
15:45-16:30	Ravi Shankar (Princeton University)
	Hessian estimate for the sigma-2 equation in dimension four
16:30-17:00	Free discussion

Friday	14 July 2023
09:15-10:00	Robert McCann (University of Toronto)
	Locally Lipschitz product selection in the principal-agent problem
10:05-10:30	Morning tea/coffee
10:30-11:15	Daniel Hauer (The University of Sydney)
	Existence of a self-similar solution to a nonlocal doubly nonlinear parabolic
	equation on the whole Euclidean space
11:20-12:05	Cristian Gutiérrez (Temple University)
	Fine properties of monotone mappings arising in optimal transport problems
	for non-quadratic costs
12:10-14:30	Closing and Lunch

