

Tuesday, 3 December (morning)

	Session A (Trinity 2/3)	Session B (Trinity 1)	Session C (Poolhouse 1)	Session D (Poolhouse 2)
8.50–9.00	Ian Hawthorn: Conference Opening			
9.00–9.55 (1)	Tom ter Elst (NZMS Speaker): Does diffusion determine the drum?			
9.55–10.20	Morning tea break			
10.20–10.45 (2)	Mark McGuinness: Erupting Dusts	Steven Galbraith: Isogeny graphs of elliptic curves	Catherine O’Byrne*: An analogy between airway smooth muscle and complex fluids	Michael Lockyer*: Mountains, paths, and generalised inverse limits
10.50–11.15 (3)	Joshua Duley*: A Mathematical Model of Volcanic Plumes	Shishay Gebregiyorgis*: Elliptic Curve Discrete Logarithm Problem	Graeme Wake: Counting our gene structures	David Gauld: Selections and metrisability of manifolds
11.20–11.45 (4)	Attique Ur Rehman*: Coupled Orbital and Thermal Evolution of Major Uranian Satellites	Kevin Broughan: The product and quotient of Euler’s totient and the sum of divisors functions	Ali Ashher Zaidi*: A Size Structured Cell Growth Model	Roberto Panai*: Nearly Kähler geometry and the (2, 3, 5)-distribution via Cartan G_2^* -holonomy
11.50–12.15 (5)	Andrew Keane*: Bifurcation analysis of a model for the El Niño southern oscillation	Antoine Nectoux*: The essential rank of the alternating group	Raziyeh Zarredooghadi*: Image registration	Gunter Steinke: The topology of 3-interpolating systems on the 2-sphere
12.15–1:45	Lunch break plus poster session in Trinity 1			

Tuesday, 3 December (afternoon)

	Session A (Trinity 2/3)	Session B (Trinity 1)	Session C (Poolhouse 1)	Session D (Poolhouse 2)
1.45–2.40 (6)	Graeme Hocking: Theory and Practice of withdrawal from stratified reservoirs			
2.45–3.10 (7)	Khadijo Rashid Adem: Exact solutions of a generalized Camassa-Holm Kadomtsev-Petviashvili equation	Pengxing Cao*: On the role of stochastic properties of inositol trisphosphate receptors in calcium oscillations in airway smooth muscle cells	Winston Sweatman: Orbits close by equal-mass four-body central configurations	Timm Treskatis*: Trust-region SQP methods for numerical simulations of viscoplastic flows
3.15–3.40 (8)	Emily Harvey: Analysing a mathematical model of the division of labour in metabolic pathways	Mohd Hafiz Mohd*: Coexistence and invasibility of competing species	Winfried Stute: Univariate And Multivariate Volterra Equations In Nonparametric Statistics	Nicholas Brettell*: Matroid connectivity: constructing a k -tree
3.40–4.05	Afternoon tea break			
4.05–4.30 (9)	Amjad Ali*: Steady groundwater flow in multi-layered aquifers containing wells	Iain Raeburn: Equilibrium states	Chris Stevens*: The Friedrich-Nagy gauge for colliding plane gravitational waves	Charles Semple: How many characters to capture an evolutionary tree?
4.35–5.00 (10)	Katie Sharp*: Cystic Fibrosis: A Steady State Model of Fluid Flow	Tan Do*: Core Properties for Degenerate Elliptic Operators	Ian Hawthorn: Physics on a curved manifold with local symmetry $so(2, 3)$	Maarten McKubre-Jordens: A fresh look at the continuum
5.10–6+	NZMS AGM			
6.10–7.00	Networking Hour for Women			

Wednesday, 4 December

	Session A (Trinity 2/3)	Session B (Trinity 1)	Session C (Poolhouse 1)	Session D (Poolhouse 2)
8.55–9.00	Morning Notices			
9.00–9.55 (1)	Matt Visser: Energy conditions in Einstein’s general relativity			
9.55–10.20	Morning tea break			
10.20–10.45 (2)	Karen McCulloch*: Epidemics on networks	Graeme O’Brien*: Why life without discrete groups is of measure zero: counting the groups	Jörg Hennig: A generalisation of the Taub-NUT cosmological model in general relativity	Mark Wilson: Diagonal asymptotics for products of combinatorial classes
10.50–11.15 (3)	Andrea Babylon*: Modelling leptospirosis in rats	Dion O’Neale: Will we always be poor; what can complex systems analysis teach us about our economic prospects?	Leon Escobar Diaz*: The Cauchy problem in some cosmological models	Geoff Whittle: Rota’s Conjecture
11.20–11.45 (4)	Stephen Taylor: Stabilisation of the Korteweg De Vries Equation	Callum Sleigh: Tractor calculus and group cohomology	Graham Weir: Causality in Configuration space	
11.50–12.45 (5)	Rachel Kuske (ANZIAM Speaker): Tipping and Fat Tails: Stochastic models in climate dynamics			
6.15–7.00pm	ANZIAM AGM			
7.00pm on	COLLOQUIUM DINNER			

Thursday, 5 December (morning)			
	Session A (Trinity 2/3)	Session B (Trinity 1)	Session C (Poolhouse 1)
8.55–9.00	Morning Notices		
9.00–9.55 (1)	Said Sidki: Automorphisms of Trees and Automata		
9.55–10.20	Morning tea break		
10:20–10.45 (2)	Robert McKibbin: Estimating airflow turbulence scales from gas tracer data	Marston Conder: The intersection condition for regular polytopes	Igor Klep: Convex hulls of semi-algebraic sets
10:50–11.15 (3)	Bruce van Brunt: Eigenfunction expansions for solutions to a nonlocal PDE from a cell growth model	Sebastian Jambor: Word maps on finite simple groups	Astrid an Huef: Operator algebras associated to transformation groups
11.20–11.45 (4)	Gabriel Magalakwe: Exact solutions and conservation laws of the generalized double sinh-Gordon equation	Daniel Delbourgo: Number theory and map colourings	John Butcher: Counting trees and rooted trees with applications
11.50–12.15 (5)	Abdullahi Rashid Adem: Exact solutions of a generalized Camassa-Holm Kadomtsev-Petviashvili equation	Alveen Chand: Axiomatic Analysis via Value Quantale	Igor Boglaev: Monotone alternating direction implicit (ADI) scheme for nonlinear parabolic problems
12.15–1:45	Lunch break		

Thursday, 5 December (afternoon)			
	Session A (Trinity 2/3)	Session B (Trinity 1)	Session C (Poolhouse 1)
1.45–2.10 (6)	Phillip Wilson: When does a rocking body lift off from Mars?	Carlo Laing: Twisted states in phase oscillator arrays	Ali Jaballah: Non-Valuation Domains Whose Overrings are Valuation
2.15–2.40 (7)	Chaudry Masood Khaliq: On the exact solutions and conservation laws for a (3+1)-dimensional generalized B-type Kadomtsev-Petviashvili equation	David Simpson: Probabilistic forward evolution through singularities of discontinuous vector fields	Tim Stokes: Rings with kernel inclusion
2.45–3.40 (8)	Jörg Frauendiener: Scattering of gravitational waves, a geometric perspective		
3.40–3.45	Conference close		