School of Mathematics and Statistics Research Day 24th January 2019 Talks in Theatre D; posters, food and drink in 1A

9.00-9:30: tea & coffee + poster setup

09:30	Ineke	De Moortel	Propagating coronal disturbances in sunspot and plage loops
09:45	Tommaso	Lorenzi	Clonal selection in acute leukemias: insight from integrodifferential equations
10:00	Martyn	Quick	Permutation-based presentations for Brin's higher-dimensional Thompson groups nV
10:15	Linnea	Franssen	A mathematical framework for modelling the metastatic spread of cancer
10:30	Andy	Wright	How resonant MHD wave coupling works in 3D
10:45	Jonathan	Hickman	Factorising X ⁿ
11.00-11.30:	coffee + posters		
11:30	Jack	Reid	Coronal MHD avalanches: distribution of heating and turbulence?
11:45	Lawrence	Lee	Self-affine multifractals in the plane
12:00	Helen	Burgess	Long frontal waves and dynamic scaling in freely evolving equivalent barotropic flow
12:15	Giorgos	Minas	Stochastic modelling of reaction networks in molecular biology
12:30	Sophie	Huczynska	Combinatorics in Information Security
12:45	Carl	Donovan	Trading in P2P markets
13.00 - 14.00:	lunch + posters		
14:00	Collin	Bleak	Quotient structures arising from the group of automorphisms of the full two-sided shift.
14:15	Thomas	Neukirch	Distribution functions for collisionless current sheet
14:30	Fiona	MacFarlane	Bridging the gap between individual-based and continuum models of growing cell populations
14:45	Charles	Paxton	Quantifying the monstrous: adventures in statistical cryptozoology
15:00	Louis	Theran	Hearing the shape of a room
15:15	Martin	MacBeath	An Introduction to Neolithic Mathematics
15:30	Peter	Cameron	The Hall-Paige Conjecture
15:45	Rosemary	Bailey	Treasure hunt: mistakes and wrong turnings in the search for good designs

16.00 - 17.00: Drinks and nibbles

Posters:

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Stuart	Burrell	Dimensions of inhomogeneous self-affine sets
David	Dritschel	Dirac meets Einstein: quantum gravitational dynamics
Luke	Elliot	Rubin's Theorem
Craig	Johnston	A New Approach for Modelling Chromospheric Evaporation in Response to Enhanced Coronal Heating
Alex	Konovalov	How learn GAP - an open source software system for discrete computational mathematics
Giorgos	Minas	Simulation, analysis and inference of large, and noisy biological oscillators using pcLNA
Thomas	Neukirch	New Analytical 3D Magnetohydrostatic Equilibria for Modelling Solar Magnetic Fields
Paolo	Pagano	In Situ Generation of Transverse Magnetohydrodynamic Waves from Colliding Flows in the Solar Corona
Lindsay	Scott-Hayward	Analysis of elephant carcass locations in Etosha National Park using the new, and improved, CReSS with SALSA model select
Chuong	Tran	Velocity-pressure correlation in NavierStokes flows and the problem of global regularity
Chiara	Villa	Exploiting evolutionary dynamics: the role of vascular topology in the emergence of intratumour phenotypic heterogeneity
Hannah	Worthington	Estimating population size with state-dependent capture probabilities