Gregynog 2018 Timetable

Monday 21st May – Seminar Room 1

Time	Title	Speaker
16:00 – 16:30	Tea	
16:30 – 16:40	Welcome	
16:40 – 17:40	The Farey graph, continued fractions and SL_2-tilings: Part I	Ian Short
17:40 – 18:10	A mathematical model of nutrient influence on fungal competition	Graeme Boswell
18:10 – 18:40	Data, Lagrangian, action: simulating a mechanism direct from a text description	John Pryce
19:00	Dinner	

Wednesday 23rd May – Seminar Room 1

Time	Title	Speaker
8:00 – 9:00	Breakfast	
9:00 – 10:00	What makes a good drug for transdermal delivery or monitoring? Insights from mathematical modelling.	Jane White
10:00 – 10:30	k-domination in graphs and placement of electric vehicle charging stations in road networks	Andrei Gagarin
10:30 – 11:00	On Sum-and-Distance Systems, Reversible Square Matrices and Divisor Functions	Matthew Lettington
11:00 – 11:30	Tea	
11:30 – 12:00	Sampling and spectral approximation	Bertrand Gauthier
12:00 – 13:00	How mathematicians “count” what they cannot see	Ruth King
13:00 – 14:00	Lunch	

Tuesday 22nd May – Welsh – Writing Room

Time	Title	Speaker
15:00 – 15:50	Dylunio Erodeinamig Awyrennau a Cheir Uwchsonig	Ken Morgan
16:00 – 16:30	Tea	
16:30 – 17:00	Modelu ewynnau hylif gan ddefnyddio efelychiadau rhifiadol	Tudur Davies
17:00 – 17:30	O Led-Grwpiau Feller i Brosesau Adio - gan ddefnyddio Gweithredyddion Differol-Ffug	Kristian Evans
17:30 – 17:50	Cynhyrchydd o grwp lled is-Markovian L^2 a Grwp Unedol	Huw Fry
17:50 – 18:10	Topics on Hamiltonian Dynamics Related to Symbols of Certain Schrödinger Operators Associated with Generators of Lévy Processes	Elian Rhind

Tuesday 22nd May – English – Seminar Rooms 1 and 2

Time	Seminar Room 1	Speaker	Seminar Room 2	Speaker
8:00 – 9:00	Breakfast			
9:00 – 10:00	Modelling infectious disease control: dealing with what you can't see and with populations that vary.	Jane White		
10:00 – 10:30	Mathematical Modelling of DNA Methylation	Jason Roberts		
10:30 – 11:00	The structure of additive Systems of Integers	Karl Michael Schmidt		
11:00 – 11:30	Tea			
11:30 – 12:30	Efficient parameter estimation – a semi-complete data likelihood approach	Ruth King		
12:30 – 13:00	Packing problems, phyllotaxis and Fibonacci numbers	Adil Mughal		
13:00 – 14:00	Lunch			
14:00 – 15:00	The Farey graph, continued fractions and SL_2-tilings: Part II	Ian Short		
15:00 – 15:20	Training memory one strategies for the Prisoner's Dilemma	Nikoleta Glynatsi	Distributing Cohomology Computations via Sheaf Cohomology	Alvaro Torras Casas
15:20 – 15:40	Oscillatory Boundary Layers andElectrochemistry	Scott Morgan	Particle density of the CAR algebra and particle-hole duality in continuum	Alshehri Maryam
15:40 – 16:00	Droplet Spreading, Chemically Treated Surfaces and Mathematics	Danny Groves	Alternating sign matrix lattice and its properties	Hasan Izanloo
16:00 – 16:30	Tea		Tea	
16:30 – 16:50	On the predictive power of functional principal components analysis	Ben Jones	Eigenvalues of the Periodic p-Laplacian	Matthew Lewis
16:50 – 17:10	Analysis of bending elastic plates	Joe Bishop	An introduction to horizontal mean curvature flow	Raffaele Grande
17:10 – 17:30	Transient behaviour of viscoelastic fluids in boundary layers	Martina Cracco	Spatio-temporal evolution of hypoxia and its role in HAP-Radiation effectiveness in solid tumours	Sara Hamis
17:30 – 17:50	Ligand binding dynamics and the effects of cooperativity: linear and nonlinear models for dimerised receptors	Carla White	Blow-ups and Spherical Twists	Chris Seaman
17:55 – 18:15	Least Squares Estimator for path-dependent mean-field SDEs via Discrete-time Observations	Panpan Ren	Effective numerical model for hydraulic fracturing	Gaspare Da Fies
18:15 – 18:35	Surfactant transport in dry two-dimensional foams	Francesca Zaccagnino	Modifying PCA: Sparse Dimension Reduction for Exponential Family Data	Luke Smallman
18:35 – 18:55	Homogenous and heterogeneous populations of active rods confined within two dimensional channels	Vladimir Khodygo	The characters of a sharply 5-transitive subgroup of A_{12}	Sam Hughes
19:00	Dinner			