

Mathematics seminars at SMSAS - archive

The Mathematics research group at SMSAS holds one or more colloquia and/or seminars most weeks during term-time. Where possible the date, speaker, and topic for these seminars is included in this archive though on occasions not all of this information was recorded. Seminars are grouped by year and ordered chronologically. This list was last updated 04/03/2016.

- Earlier seminars (pre 2013-14) are detailed at <http://www.kent.ac.uk/smsas/seminars/pastmaths.html>
- Current seminars are listed at <http://www.kent.ac.uk/smsas/seminars>
- Use this link to skip directly to the [2014-15 programme](#)
- Use this link to skip directly to the [2015-16 programme](#)

2013-2014

1 October 2013	Martin Crossley (Swansea)	Conjugation invariants in the Leibniz-Hopf algebra
4 October	Chris Woodcock	Almost Equal Group Multiplications
8 October	Malcolm Brown (Cardiff)	Everitt's HELP inequality: Results old and new
11 October	Jing Ping Wang	Darboux transformation and Integrable systems
25 October	Abera Muhamed	Moduli space of vortices on Riemann surfaces
29 October	Paul Mitchener (Sheffield)	Categories of Operators
1 November	Melanie de Boeck	Exploiting relationships between Foulkes modules
5 November	Olga Maleva (Birmingham)	Differentiability of functions inside extremely small sets
8 November	Eugenio Giannelli (Royal Holloway)	On the decomposition matrix of S_n
15 November	Andy Baker (Glasgow)	Polynomial Hopf Algebras in Algebra and Topology
19 November	Maria Reguera Rodriguez (Birmingham)	Sharp Hankel operators and de Saint-Venants inequality
22 November	Iulia Cimpan	A discrete analog to the Hessian test, with applications to image segmentation
26 November	Claire Gilson (Glasgow)	Quasideterminant solutions to integrable equations
29 November	Cesar Lecoutre	Poisson Deleting Derivation Algorithm and the Canonical Injection

3 December	Rustem Garifullin	Examples of Darboux integrable discrete equations possessing first integrals of an arbitrarily high minimal order
4 December	Sue Sierra (Edinburgh)	Dense orbits, noncommutative projective surfaces, and the Virasoro algebra
6-7 December	Workshops: Algebraic Methods in the Theory of Differential and Difference Equations http://www.kent.ac.uk/smsas/events/algebraic-methods.html	
10 December	Garth Dales (Lancaster)	Banach spaces of continuous functions
13 December	James Smith	Continuous orthogonal polynomials and Painlevé equations
21 January 2014	Andy Tonks (London Metropolitan)	Homotopy Möbius inversion
24 January	David Barnes (Belfast)	Some curious equivariant equivalences
28 January	Thomas Prellberg (Queen Mary University of London)	Combinatorics of the leading root of Ramanujan's function
31 January	Mareike Haberichter	Classically Isospinning Soliton Solutions
4 February	Sergey Simonov (Dublin)	Half-line Schroedinger operators and their Weyl functions
7 February	Lucy Barnes	Camassa-Holm connections
11 February	Alexander Puschnitski (King's College London)	Perturbation theory for functions of operators
14 February	George Papamikos	From continuous to discrete Sine-Gordon equations via Darboux transformations
18 February	Paul Sutcliffe (Durham)	Hyperbolic monopoles
25 February	Daniel Robertz (Plymouth)	Elimination using Thomas Decomposition
27 February	Fabian Reimers (TU Munich)	Properties of Separating Algebras
28 February	Mark Roelands	Hilbert isometries of infinite dimensional simplices
4 March	Mark MacDonald (Lancaster)	The slice method for G-torsors
7 March	David Corfield	Homotopy Type Theory
11 March	Frank Nijhof (Leeds)	Lagrangian multiform theory and integrability
14 March	Sian Fryer (Manchester)	The q-Division Ring: Fixed Rings and Automorphisms

18 March	James Hook (Manchester)	Max-plus eigenvalues and singular values
21 March	Karel Casteels	Quantum Algebras by Paths
25 March	Felipe Rincon (Warwick)	Tropical Geometry
28 March	Marten Wortel	From hyperbolic geometry to nonlinear Perron-Frobenius theory
1 April	Peter Kropholler (Southampton)	Soluble groups and cohomology
8 April	Derek Harland (Leeds)	Topological energy bounds in the Faddeev and Skyrme models
13 May	Ruben Sanchez Garcia (Southampton)	Spectral clustering of power transmission networks
16 May	Matt Towers	Introduction to public key cryptography
20 May	Stefan Guettel (Manchester)	Linear Rational Interpolation done unwisely (but efficiently)
22 May	Littoral-Kent Seminars: Loic Foissy (Lille) - Free and cofree combinatorial Hopf algebras Karel Casteels - The Dimension of H-Strata in Quantum Algebras Baptiste Vasseur (Lille) - Harmonic functions on infinite graphs Clare Dunning - Integrability	
23 May	Peter Clarkson	Rogue Waves
27 May	Helen Wilson (UCL)	Instabilities in viscoelastic fluids
30 May	Neil Fullarton (Glasgow)	Palindromic automorphisms of free groups
3 June	Bruce Bartlett (Oxford/Stellenbosch)	Three-dimensional manifolds via generators and relations
6 June	Bas Lemmens	What is a horofunction?
21-24 July	LMS/Kent Algebra Days Young Researchers (lecture series): Jan Grabowski : Cluster algebras and their quantum analogues Anne Moreau : Nilpotent orbits and finite W-algebras Susan Sierra : Noncommutative algebraic geometry	
28 July	Early Career South East Mathematical Physics Seminar http://www.kent.ac.uk/smsas/personal/mh583/SEMPS_stud.html	
18-20 August	Geometric Models of Nuclear Matter (conference) http://www.kent.ac.uk/smsas/personal/skyrmions/conference.html	

2014-2015

18 September 2014	OPIIS: Recent Advances in Orthogonal Polynomials and its Interactions with Integrable Systems (conference)	
30 September	Lyonell Boulton (Heriot Watt)	Dilations of periodic functions and Riesz bases
7 October	Alfred Kume	An application of Holonomic Gradient method for inference in Directional and Shape statistics
14 October	Alexander Kiselev (Bath)	An inverse spectral problem on quantum graphs: reconstruction of matching conditions at graph vertices
28 October	Constanze Roitzheim	Algebraic models in topology
4 November	Elizabeth Mansfield	Noether's Theorem 100 years on
11 November	Leonid Parnovski (UCL)	Multidimensional periodic and almost-periodic problems
18 November	Jim Shank	Finite subgroups of fields
25 November	Gareth Williams (OU)	Weighted projective spaces, cohomology and piecewise algebra
26 November	Littoral-Kent seminars (at Calais) Speakers: Bas Lemmens, Peter Clarkson, Carole Rosier, and Nicolas Chenavier.	
2 December	Simona Paoli (Leicester)	Higher categorical structures in topology and beyond
9 December	Nick Trefethen (Oxford)	Mathematics of the Faraday cage
20 January 2015	Yuji Kodama (Ohio State)	Combinatorics and geometry of KP solitons and application to tsunami
27 January	Anastasia Doikou (Heriot-Watt)	Fundamental aspects of classical & quantum integrability
3 February	Charles Batty (Oxford)	Tauberian theorems, operator semigroups, and rates of decay
10 February	Ian Wood	Some spectral results for photonic crystal waveguides

17 February	Matthias Langer (Strathclyde)	Differential equations with two singular endpoints
24 February	Davide Proment (UEA)	A route to thermalisation in the Fermi-Pasta-Ulam system
3 March	Stephen Theriault (Southampton)	A homotopy decomposition of the based loop space of a simply-connected four-manifold
10 March	Panagiota Adamopoulou	On a connection between classical and quantum integrable systems
17 March	Ian Leary (Southampton)	Right-angled Coxeter groups as a source of examples
24 March	Brian Lins (Hamden-Sydney College)	Inverse continuity of the Inverse Numerical Range Map
31 March	Chloe Ward	Discrete integrability and Laurent phenomenon algebras
12 May	Matthew Towers	Restricted Lie algebras and invariant theory
18 May	Littoral-Kent Seminars: Dominique Schneider (Lille) - First Digit Phenomenon: the Benford law Peter Hydon - Conservation laws: from differential to difference Shalom Eliahou (Lille) - On numerical semigroups and Wilf's conjecture Rowena Paget - Symmetric group representations and the plethysm problem	
26 May	John Pearson	(Seminar topic not recorded)
9 June	Roman Cherniha (Nottingham)	Symmetry based methods for constructing exact solutions of the diffusive Lotka-Volterra system and its generalizations
1 July	LMS 50th Anniversary: Hardy Workshops and Lecture Jing Ping Wang - Dressing method for the vector sine-Gordon equation Rod Halburd - Bianchi permutability for the self-dual Yang-Mills equations Beatrice Pelloni - Explicit spectral computations for elliptic problems LMS Hardy Lecture: Nalini Joshi - Geometry and integrability	

2015-2016 (this season of seminars is currently ongoing)

29 September 2015	Alfredo Deaño	Orthogonal polynomials and related topics
6 October	Matthias Kurzke (Nottingham)	Motion laws for Ginzburg-Landau vortices
20 October	Nils Waterstraat	Multiparameter bifurcation for families of functionals
27 October	Eugene Shargorodsky (King's College)	On the Amick-Fraenkel conjecture
3 November	Clélia Pech	(Seminar topic not recorded)
10 November	Jennifer Pestana (Strathclyde)	Symmetrizing nonsymmetric Toeplitz matrices and solving linear systems
17 November	Guillaume Viger (Université Paris Dauphine)	Zero-sum repeated games and nonexpansive operators
20 November	Kuan Xu	A Cinderella formula for polynomial interpolation
2 December	Littoral-Kent seminars (at Calais) Speakers included Elizabeth Mansfield and César Lecoutre	
8 December	Peter Clarkson	Semi-classical orthogonal polynomials and the Painlevé equations
9 December	Algebra and geometry in integrable systems (conference) http://www.kent.ac.uk/smsas/personal/tcd/webpages/MP/int.htm	

Seminars from January 2016 onward may be viewed online:

http://www.kent.ac.uk/smsas/events/cal.html?view_by=month&date=20160120&category=&tag=Seminars-Mathematics