Wednesday 18 May *(all talks in Room MS.01, ground floor)*

09:00-09.10 *Welcome and introduction (Claude Baesens)*
09:10-09.40 **Jean-Pierre Eckmann (**Geneva)
Hamiltonian chains with dissipation
09.40-10:00 **Sinisa Slijepcevic** (Zagreb)
Lyapunov functions on spaces of measures and phase transitions
10:00-10:20 **Bastien Fernandez** (Paris-Diderot)
Breaking of ergodicity in expanding systems of globally coupled piecewise affine circle maps
10:20-10:40 **Stefano Luzzatto** (ICTP)
Sinai-Ruelle-Bowen measures for nonuniformly hyperbolic surface diffeomorphisms

10:40-11:10 Coffee/Tea in The Street

11:10-11:40 **Tom Bridges** (Surrey)
Baesens and MacKay (1992): theme and variations
11:40-12:00 **Thierry Dauxois** (ENS Lyon)
Energy cascade in internal-wave attractors
12:00-12:20 **Greg King** (ICM-CSIC)
Turbulent cascades and intermittency in winds over the Tropical Pacific
12:20-12:40 **Christian Beck** (QMUL)
Statistics of Lagrangian quantum turbulence

12:40-14:00 Lunch in The Street

Mathematics Interdisciplinary Research at Warwick afternoon

14:00-14:20 **Gabriela Gomes** (Liverpool School of Tropical Medecine)
A double-edged sword in the treatment of high-risk groups
14:20-14:40 **Jacques-Alexandre Sepulchre** (INLN)
A discrete map approach to steady states of intracellular signaling cascades
14:40-15:00 **Gianne Derks** (Surrey)
Sleep-wake dynamics: an interplay of maps, gaps and naps
15:00-15:20 **Mark Muldoon** (Manchester)
Scores, parameters and the single cell

15:20-15:50 Tea/Coffee in The Street

15:50-16:20 **Raphaël Douady** (Stony Brook and Paris I)
Nonlinear factor analysis by polymodels
16:20-16:40 **Ralph Kenna** (Coventry)
Maths meets myths: quantitative investigations of ancient narratives
16:40-17:00 **Mauro Mobilia** (Leeds)
Switching dynamics and non-equilibrium steady state in nonlinear q-voter models with zealotry
17:00-17:20 **Alberto Pinto** (Porto)
Dynamics of human decisions
17:20-18:30 Poster session and drinks in The Street
18:30-20:00 Dinner in The Street and the Undergraduate Workroom (ground floor)

Thursday 19 May *(morning talks in MS.01, afternoon talks in MS.02)*

09:00-09:30 **Jim Meiss** (Colorado Boulder)
Stickiness, drift and diffusion in volume-preserving maps
09.30-10:00 **Rafael de la Llave** (Georgia Tech)
A posteriori approach in KAM theory: rigorous results, efficient algorithms
10:00-10:30 **Alessandra Celletti** (Rome – Tor Vergata)
Breakdown of invariant attractors in dissipative (conformally symplectic) systems

10:30-11:00 Coffee/Tea in The Street

11:00-11:30 **Serge Aubry** (CE Saclay)
KAM tori in the 1D random DNLS model and absence of diffusion of a wave-packet?
11:30-11:50 **Sergej Flach** (IBS PCS Daejeon)
On FPU, and nonlinearity-induced destruction of Anderson localisation
11:50-12:10 **Diogo Pinheiro** (City New York)
Optimal control of dynamical systems with multiple sources of uncertainty
12:10-12:30 **Celso Grebogi** (Aberdeen)
Compressive sensing based prediction of complex dynamics and complex networks

12:30-12.40 Group photo
12:40-14:00 Lunch in The Street

14:00-14:30 **Kostya Khanin** (Toronto)
On renormalization for a class of generalized interval exchange transformations
14:30-14:50 **João Lopes-Dias** (Lisbon)
Renormalisation of vector fields with Gevrey regularity
14:50-15:10 **Peter Ashwin** (Exeter)
Tipping points for parameter shifts

15.10-15:40 Tea/Coffee in the Street

15:40-16:10 **Jacques Laskar** (Observatoire de Paris)
In search of new planets
16:10-16:30 **Colin Rourke** (Warwick)
How black holes feed and grow into spiral galaxies
16:30-17:00 **Charles Tresser** (Ramat Hahayal)
On a question of B. Riemann, a recorded remark of Napoléon, and a simple interpretation of quantum mechanics
17:00-17:30 **Robert MacKay** (Warwick)
TBA
17:30-18:45 Drinks in The Street
18:00   Announcement of winner of poster prize (Christian Beck)
19:15-22:00 Conference dinner at Radcliffe House (with after dinner speech by David Rand)

Friday 20 May *(all talks in MS.01)*

09:00-09.30 **Henk Broer** (Groningen)
Classification of constrained differential equations embedded in the theory of slow fast systems

09:30-10:00 **Jaume Llibre** (Autonoma Barcelona)
On the real Jacobian conjecture

10:00-10:20 **Yi-Chiuan Chen** (Academia Sinica, Taipei)
Transitions for multi-hole Denjoy minimal sets

10:20-10:40 **Paul Glendinning** (Manchester)
Creation of discontinuities in model mappings

10:40-11:10 Coffee/Tea in The Street

11:10-11:40 **Sergey Bolotin** (Wisconsin Madison and Steklov)
Degenerate billiards

11:40-12:00 **David Sanders** (National Autonomous Mexico)
Diffusion in quasiperiodic billiards

12:00-12:20 **Ben Mestel** (Open)
The barrier billiard renormalization strange set: golden mean trajectory

12:20-13:40 Lunch in the Mathematics Common Room and the Complexity Common Room

13:40-14:00 **Tassos Bountis** (Patras)
Invertible Maps, the Parametrization Method and Breathers in KG Lattices

14:00-14:20 **Guillaume James** (Grenoble)
Solitary waves in the Burridge-Knopoff model

14:20-14:40 **Marina Diakonova** (QMUL)
Irreducibility of a multiplex network: the case of the voter model

14:40-15:00 **Jeff Johnson** (Open)
New dimensions for network science

15:00-15:25 Tea/Coffee in the Mathematics Common Room

15:25-15:55 **John Guaschi** (Caen)
Braid groups and configuration spaces of surfaces

16:00-17:00 Maths Colloquium: **Phil Boyland** (Florida Gainsville)
When topology forces dynamics

17:00-18:30 Drinks and snacks in the Mathematics Common Room