

Schedule of talks and activities

Wednesday 13th June

9.00	<i>Registration & Welcome</i>	
9.30	Mike Jeffrey	<i>Modeling with nonsmooth dynamics</i>
9.55	Jim Walsh	<i>Conceptual Climate Modeling: Two Nonsmooth Examples</i>
10.20	Rachel Kuske	<i>Dynamic bifurcations for non-smooth systems in the presence of oscillatory forcing</i>
10.45	<i>coffee</i>	
11.15	Pau Martin	<i>The aging multiple frequency oscillator</i>
11.40	David Chillingworth	<i>Regularization and pinching revisited</i>
12.05	Carles Bonet	<i>Two ways of regularizing a grazing-sliding codimension 1 saddle-node bifurcation of piecewise dynamical systems</i>
12.30	Douglas Duarte Novaes	<i>Regularization of sliding Shilnikov connections</i>
12.55	<i>lunch</i>	
14.30	Peter Varkonyi	<i>Transitions and singularities during slip motion of rigid bodies</i>
14.55	Zoltan Dombovari	<i>Piecewise linear effect causing narrow attraction zone for stable stationary milling</i>
15.20	Sandor Beregi	<i>Nonlinear analysis on wheel shimmy: impact of non-smoothness and memory effect in the tyre-ground contact</i>
15.45	<i>coffee</i>	
16.15	Tamas Baranyai	<i>Impacts and the Finite-time Singularity of Euler's disk</i>
16.40	Robert Szalai	<i>Model reduction of infinite dimensional piecewise-smooth systems</i>
17.30	POSTERS & RECEPTION	

Thursday 14th June

9.00	<i>Discussion</i>	
9.30	Stephen Coombes	<i>Networks of Nonsmooth Oscillators & Applications in Neuroscience</i>
9.55	Ruediger Thul	<i>Networks of piecewise linear neural mass models</i>
10.20	Roberto Galizia	<i>Phase Transitions of Multistable Networks via Switching Control</i>
10.45	<i>coffee</i>	
11.15	Anne Skeldon	<i>Creation of gaps and non-monotonicity in circle maps that model 'threshold' systems</i>
11.40	Matthew Bailey	<i>Circle maps with gaps: the dynamics of the two process model for sleep/wake regulation</i>
12.05	Victoria Booth	<i>Nonsmooth maps for the dynamics of a biophysical model for sleep/wake regulation</i>
12.30	Cecilia Diniz Behn	<i>Sleep, dreams and bifurcations: REM sleep and nonsmooth maps for sleep/wake dynamics</i>
12.55	<i>lunch</i>	
14.30	Gerard Olivar Tost	<i>Market Modeling through Piecewise-Deterministic Markov Processes</i>
14.55	Kamila da Silva Andrade	<i>On the limit cycles bifurcating from tangential polycycles on planar Filippov systems</i>
15.20	Marina Esteban	<i>Multiplicity of Periodic Orbits in Hysteretic Systems with Symmetry</i>
15.45	<i>coffee</i>	
16.15	Fernando Fernandez Sanchez	<i>Inverse integrating factors: (probably) the easiest way to analyse Poincaré half-maps for planar piecewise linear systems</i>
16.40	Guillame James	<i>Localized waves in the excitable Burridge-Knopoff model</i>
19.30	CONFERENCE DINNER	

Friday 15th June

9.00	<i>Discussion</i>	
9.30	Jaume Llibre	<i>Limit cycles for discontinuous planar piecewise linear differential systems separated by an algebraic curve</i>
9.55	Enrique Ponce	<i>Designing power resonant inverters via non-smooth bifurcation analysis</i>
10.20	Marco Antonio Teixeira	<i>On structural stability of 3D piecewise-smooth vector fields: a semi-local approach</i>
10.45	<i>coffee</i>	
11.15	Viktor Avrutin	<i>Non-observable chaos in power converters</i>
11.40	Mate Antali	<i>Limit directions of the discontinuity manifolds in extended Filippov systems</i>
12.05	Eoghan Staunton	<i>Noise and Multistability in the Square Root Map</i>
12.30	Daniil Yurchenko	<i>Stochastic Nonsmooth Dynamics for energy harvesting</i>
12.55	<i>lunch</i>	
14.30	Philip Aston	<i>Dimer dynamics and degenerate transversally intersecting manifolds</i>
14.55	Kristian Kristiansen	<i>Substrate-depletion oscillators: Canards without attracting slow manifolds</i>
15.20	<i>Farewell</i>	

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