

# Systèmes dynamiques et systèmes complexes

Une conférence pour célébrer les 60 ans de Jean-Marc Gambaudo



## Mardi 12 Juin

<b>9:00</b>	<b>Accueil</b>	
9:45	Ergodic properties of STIT Tessellations	<i>S. Martinez (CMM - DIM, Univ. du Chili)</i>
10:35	Geometry in neurosciences: the example of the visual cortex	<i>P. Chossat (LJAD, Nice)</i>
11:25	Heterogeneously Coupled Maps. Coherent behaviour and reconstructing network from data	<i>S. Van Strien (Imperial College London)</i>
<b>12:10</b>	<b>Déjeuner</b>	
14:00	Heteroclinic chains in a model of associative memory	<i>M. Krupa (LJAD, Nice)</i>
14:30	Gluing bifurcations for monotone families of vector fields on a torus	<i>R. MacKay (Univ. of Warwick)</i>
15:20	A complex evolving system approach to the study of economic fluctuations	<i>M. Napoletano (Sciences Po, Paris &amp; SKEMA, Sophia)</i>
<b>15:45</b>	<b>Pause café</b>	
16:30	Lagrangian turbulence and time irreversibility	<i>J. Bec (Lagrange, OCA)</i>
17:00	Discovering laws of Nature with a compass and a ruler	<i>P. Couillet (InPhyNi)</i>
17:30	Existence of quasipatterns in the superposition of two hexagonal patterns for the Swift Hohenberg PDE	<i>G. Iooss (LJAD, Nice)</i>

<b>Mercredi 13 juin</b>	
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9:00	Linking with Jean-Marc	<i>E. Ghys (ENS Lyon)</i>
9:50	Dynamics of strongly dissipative diffeomorphisms of the disc with zero entropy	<i>S. Crovisier (Paris XI)</i>
<b>10:15</b>	<b>Pause café</b>	
10:50	Maximal isotopies, transverse foliations and orbit forcing theory for surface homeomorphisms	<i>P. Le Calvez (Paris VI)</i>
11:40	Emergence of lung's geometry, complex or not ?	<i>B. Mauroy (LJAD, Nice)</i>
<b>12:05</b>	<b>Déjeuner</b>	
14:00	Scaling laws for a compliant biomimetic swimmer	<i>M. Argentina (InPhyNi, Sophia)</i>
14:30	Groups of diffeomorphisms of a Cantor set	<i>E. Militon (LJAD, Nice)</i>
15:00	Spectral statistics of sparse random graphs: the Thomae function and modular forms	<i>S. Nechaev (Interdisciplinary Scientific Center Poncelet, Moscow)</i>
15:30	Periodic Approximations to Aperiodic Hamiltonian	<i>J. Bellissard (Westfälische Wilhelms-Universität, Münster &amp; Georgia Institute of Technology, USA)</i>
16:20	Quelques mots	
<b>17:00</b>	<b>Douceurs et champagne</b>	
20:00	Banquet	

Jeudi 14 Juin	
9:00	Gap labelling in quasicrystals: from microwaves to ultracold atoms <i>P. Vignolo (InPhyNi, Sophia)</i>
9:30	Strong orbit equivalence and eigenvalues <i>M.I. Cortez (Univ. de Santiago du Chili)</i>
10:00	Freezing Gibbs measures <i>J-R. Chazottes (CPhT, Ecole Polytechnique)</i>
<b>10:25</b>	<b>Pause café</b>
11:00	Tilings, Towers, Linear repetitivity <i>Aliste &amp; Coronel (Univ. Andres Bellos)</i>
11:50	On a toy network of neurons interacting through nonlinear dendritic compartments <i>R. Veltz (INRIA, Sophia)</i>
<b>12:15</b>	<b>Déjeuner</b>
14:00	Cellular automata, tilings and undecidability <i>E. Formenti (I3S, Nice)</i>
14:30	Mass transport in tilings <i>L. Sadun (University of Texas at Austin)</i>
15:20	Frenkel-Kontorova Models in almost-periodic environments <i>S. Petite (Univ. de Picardie Jules Verne)</i>
15:50	Solenoid minimal sets for smooth dynamics <i>S. Hurder (Univ. Illinois)</i>
<b>16:35</b>	<b>Gâteau d'anniversaire et d'au revoir (Salle à manger) - Gâteaux et champagne</b>

Comité d'organisation :

- F. Gautero (LJAD, Univ. Nice Sophia Antipolis),
- A. Laloe-Verdelhan (LJAD, Univ. Nice Sophia Antipolis),
- M. Monticelli (LJAD, CNRS & Univ. Nice Sophia Antipolis),
- S. Petite (LAMFA, Univ. de Picardie Jules Verne).

Comité scientifique :

- P. Chossat (LJAD, CNRS & Univ. Nice Sophia Antipolis),
- F. Gautero (LJAD, Univ. Nice Sophia Antipolis),
- B. Kolev (CNRS & ENS Paris-Saclay),
- R. MacKay (Warwick University),
- S. Petite (LAMFA, Univ. de Picardie Jules Verne),
- D. Sullivan (Stony Brook University).

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