



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

FAKULTÄT

FÜR MATHEMATIK, INFORMATIK
UND NATURWISSENSCHAFTEN

Fachbereich Mathematik

Bundesstr. 55 (Geomatikum), 20146 Hamburg

Workshop on Nonlinear Dynamics

Symmetry, Networks, Attractors

24.07.-26.07.2024, Lecture Hall 2

	Wednesday 24.07.2024	Thursday 25.07.2024	Friday 26.07.2024	
Time				Time
08:30 09:00	08:30 - Registration			08:30 09:00
09:00 09:15	09:00 - Opening Remarks	09:00-09:45 Bernold Fiedler (Freie Universität Berlin) <i>PDE Heteroclinicity and blow-up: a tale of two sisters in complex times</i>	09:00-09:45 Manuela Aguiar (Universidade do Porto) <i>Motifs and Hypermotifs: Classification and Bifurcations</i>	09:00 09:15
09:15 09:30	09:15-10:00 Pascal Chossat (CNRS - Inria Sophia Antipolis) <i>Sequences and branching of learned states in neural networks, with an application to decision making</i>			09:15 09:30
09:30 09:45				09:30 09:45
09:45 10:00		09:45-10:30 Coffee break	09:45-10:30 Coffee break	09:45 10:00
10:00 10:15	10:00-10:45 Coffee break			10:00 10:15
10:15 10:30		10:30-11:15 Martin Krupa (Université Côte d'Azur) <i>Folded node revisited</i>	10:30-11:15 Ian Melbourne (The University of Warwick) <i>Levy area and time-reversal symmetry</i>	10:15 10:30
10:30 10:45				10:30 10:45
10:45 11:00	10:45-11:30 Bob Rink (Vrije Universiteit Amsterdam) <i>Quiver symmetry in network dynamical systems</i>	11:15-12:00 Ana Dias (Universidade do Porto) <i>Lifting of heteroclinic cycles in coupled cell systems</i>	11:15-12:00 Eddie Nijholt (Imperial College London) <i>Cluster Synchronization as a Higher-Order Effect in Hypernetworks</i>	10:45 11:00
11:00 11:15				11:00 11:15
11:15 11:30	11:30-12:15 David Chillingworth (University of Southampton) <i>Nontransverse Poincaré sections and matched singularities</i>	12:00-13:30 Lunch Break	12:00-13:30 Lunch Break	11:15 11:30
11:30 11:45				11:30 11:45
11:45 12:00				11:45 12:00
12:00 12:15				12:00 12:15
12:15 12:45	12:15-13:45 Lunch Break	13:30-14:15 Arnd Scheel (University of Minnesota) <i>Bifurcation without hysteresis - two examples</i>	13:30-14:15 Kathrin Padberg-Gehle (Leuphana Universität Lüneburg) <i>Lagrangian transport and mixing studies by trajectories and complex networks</i>	12:15 12:45
12:45 13:30		14:15-15:00 Martin Golubitsky (The Ohio State University) <i>Infinitesimal Homeostasis in Input-Output Networks</i>	14:15-15:00 Peter Ashwin (University of Exeter) <i>The quest for robust early warnings of bifurcations in noisy systems</i>	12:45 13:30
13:30 13:45				13:30 13:45
13:45 14:00	13:45-14:30 Jens Rademacher (Universität Hamburg) <i>Rotating convection and flows with horizontal kinetic energy backscatter</i>	15:00-16:30 Poster Session and Coffee Break (Room 1528)	15:00 ... Open End Coffee and Good-bye	13:45 14:00
14:00 14:15				13:45 14:00
14:15 14:30	14:30-15:15 Sofia Castro (Universidade do Porto) <i>Finite switching dynamics near heteroclinic networks</i>			14:00 14:15
14:30 14:45				14:15 14:30
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15:00 15:15				14:45 15:00
15:15 15:30	15:15-16:00 Coffee break			15:00 15:15
15:30 15:45				15:15 15:30
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16:00 16:30				15:45 16:00
				16:00 16:30
		19:00 Dinner at Quan19 (own expense) https://www.quan-19.de/home		

More Information will be available on our website: <https://www.math.uni-hamburg.de/en/conf/nonlinear2024>