Minisymposium 2: Pattern formation - schedule Tuesdav 10:30-12:00 Pattern formation in active media Fernando Peruani, Université Nice Sophia Antipolis, France Title: Classification of active systems: hydrodynamic equations, instabilities, and pattern formation Falko Ziebert, University of Heidelberg, Germany Title: Nonlinear dynamics of moving cells Lukas Ophaus, University of Münster, Germany Title: Resting and traveling localized states in an active phase-field-crystal model Tuesday 12:00-12:30, 15:30-18:00 Dynamics of patterning fronts Cristián Fernández Oto, Universidad de los Andes, Santiago de Chile, Chile Title: Front instabilities can reverse desertification Walter Tewes, University of Müenster, Germany Title: Dewetting Fronts-Patterning in Free Surface Liquid Films Marcel Clerc, University of Chile, Chile Title: From propagation from unstable state: theory and experiments Gyula I. Tóth, Loughborough University, UK Title: Patterning fronts in guasi-incompressible multicomponent liquids Haifaa Alrihieli, University of Leeds, UK Title: Localized traveling waves in thermosolutal convection Olivier Pierre-Louis, Université Claude Bernard Lyon 1, France Title: Dynamics of Confined Membranes Wednesday 10:30-12:30 AND 15:00-16:00 Patterns in heterogeneous media Walter Zimmermann, Universität Bayreuth, Germany Title: Size Matters in pattern formation Massimo Giudici, Université Côte d' Azur, Nice, France Title: Temporal localized structures in an inhomogeneous parameter landscape

Monica Amparo Garcia Ñustes, Pontificia Universidad Católica de Valparaíso, Chile Title: Pattern formation by heterogeneous parametric excitation: localization, oscillations, and PT symmetry Priya Subramanian, University of Leeds, UK Title: Formation and Spatial Localization of Phase Field Quasicrystals Cedric Beaume, Department of Applied Mathematics, University of Leeds, UK Title: Three-dimensional doubly diffusive convectons: instability and transition to complex dynamics Tapio Ala-Nissilä, Aalto University, Finland, and Loughborough University, UK Title: Multiscale modelling of graphene from nano to micron scales Thursday 10:30-12:30 Pattern formation in technological processes Patrick Huber, Hamburg University of Technology, Germany Title: The spontaneous formation of nano patterns in velocitydependent dip-coated organic films: from dragonflies to stripes Svetlana Gurevich, University of Münster, Germany Title: Control and selection of spatio-temporal patterns in dynamic self-assembly systems Dmitri Tseluiko, Loughborough University, UK Title: Complex wave dynamics in falling liquid films Ofer Manor, Israel Institute of Technology, Haifa, Israel Title: Transitions in polymer deposition states and in the motion of the contact line during the evaporation of a polymer solution Thursday 15:30-17:30 Delayed-feedback control in Pattern Formation Kathy Lüdge, Technische Universität Berlin, Germany Title: Mode-locked lasers with optical self feedback: Pattern formation in the time domain Julien Javaloyes, University of Balearic Islands, Spain Title: Neutral delay differential equations for mode-locked lasers: fundamental satellites instabilities Andrei Vladimirov, Weierstrass Institute, Berlin, Germany Title: Delay models in nonlinear laser dynamics

Eckehard Schöll, Technische Universität Berlin, Germany Title: Delayed-feedback control in reaction-diffusion systems Friday 10:30-13:00 Environmental spatial patterns

Ehud Meron, Ben-Gurion University of the Negev, Beer Sheva, Israel

Title: Vegetation pattern formation and ecosystem function in the Anthropocene

Emilio Hernandez-Garcia, IFISC (UIB-CSIC), Palma de Mallorca, Spain

Title: Vegetation patterns under the sea

Mustapha Tlidi, Université Libre de Bruxelles, Belgium Title: Spirals and arcs vegetation patterns in arid ecosystems: a self-organized response to water scarcity

Lucas Goehring, Nottingham Trent University, UK Title: Convection in salt playa

Omer Tzuk, Ben-Gurion University of the Negev, Beer Sheva, Israel Title:The role of self-organized spatial patterns in the design of agroforestry systems