Programme

Sunday, 29 March

15:30 – 15:40  Opening
15:40 – 16:15  Lutz Schimansky-Geier (HU Berlin):
               Self-organized escape processes of linear chains of nonlinear potentials
16:15 – 16:50  Jan Totz (TU Berlin):
               Permutation symmetries and phase wave synchronization on networks of heterogeneous chemical oscillators
16:50 – 17:10  coffee break
17:10 – 17:45  Robert Großmann (PTB Berlin):
               Synchronization of moving oscillators
17:45 – 18:05  Sebastian Milster (HU Berlin):
               Synchronization and phase separation of motile oscillators
18:05 – 18:25  break
18:25 – 18:45  Julian Rode (TU Berlin):
               Tracking chimera states from phase oscillators to relaxation oscillators
18:45 – 19:20  Fumito Mori (FHI Berlin):
               Period variability of a large number of cycles in complex dynamical systems with noise
19:20 – 19:45  Stefan C. Müller (Uni Magdeburg):
               Proposed principles of maximum entropy production
20:00          dinner
Monday, 30 March

09:00 – 09:35  Alexey Eremin (Uni Magdeburg):
Optically driven translational and rotational motions of microrod particles in nematic liquid crystals

09:35 – 09:55  Walter Tewes (Uni Münster):
A theoretical investigation of patterned depositions from thin films of evaporating solutions

09:55 – 10:15  Kirsten Harth (Uni Magdeburg):
From viscous to elastic sheets: Dynamics of thin freely floating smectic films

10:15 – 10:35  Felix Tabbert (Uni Münster):
Delay-induced dynamics of localized structures in systems with spatial inhomogeneities

10:35 – 10:55  coffee break

10:55 – 11:30  Svetlana Gurevich (Uni Münster):
Control and selection of spatio-temporal patterns in dynamic self-assembly systems

11:30 – 11:50  Maria Zeitz (TU Berlin):
Feedback strategies for regulation of flow vorticity at low Reynolds numbers

11:50 – 12:10  Uwe Thiele (Uni Münster):
Dynamics of self-propelled surfactant particles on a liquid support layer: The effect of rotational diffusion

12:10 – 12:45  Johannes Blaschke (TU Berlin):
Simulating the swimming dynamics of Trypanosoma brucei in crowded environments

12:50 – 15:30  lunch

15:30 – 16:05  Werner Baumgarten (Uni Rostock):
Mechanism of formation of Physarum polycephalum vein networks

Foraging strategies and topological network characteristics of Physarum polycephalum

16:25 – 16:45  Christina Oettmeier (Uni Bremen):
Locomotion pattern and motility mechanism of Physarum polycephalum satelites

16:45 – 17:05  coffee break

17:05 – 17:40  Christian Westendorf (Uni Graz):
Comparison of different plasmodial slime molds based on oscillatory properties

17:40 – 18:15  Isabela Guido (MPI Göttingen):
Effects of electric field on cell migration

18:15 – 18:35  Kaumudi Prabhakara (MPI Göttingen):
Excitable pattern formation in inhomogeneous systems

18:35 – 18:55  break

18:55 – 19:15  Steffen Werner (MPI PKS Dresden):
Scaling and regeneration of self-organized patterns

19:15 – 19:35  Pavel Buran (PTB Berlin):
Control of wave dynamics in a model for heterogeneous cardiac tissue

19:35 – 19:55  Dirk Kulawiak (TU Berlin):
Modelling cell movement on heterogeneous substrates

20:00  dinner
Tuesday, 31 March

09:00 – 09:35  Ralf Stannarius (Uni Magdeburg):
Sheared granular materials, dilation, flow alignment, and secondary flows

09:35 – 10:10  Bernhard von Boehm (Uni Hannover):
Polymerization mechanism for travelling vanadium oxide islands

10:10 – 10:30  Patricia Dähmlow (Uni Magdeburg):
Patterns in the bubble-free Belousov-Zhabotinsky reaction dissolved in a microemulsion

10:30 – 10:50  coffee break

10:50 – 11:10  Tim Smolinsky (Uni Hannover):
Chemical wave patterns on bimetallic catalysts

11:10 – 11:45  Eric Bernitt (Uni Bremen)
Experimental exploration of the phase space of actin waves

11:45 – 12:05  Alexander Ziepke (TU Berlin):
Front propagation in sinusoidally modulated channels and tubes

12:05 – 12:15  closing

12:30  lunch

How to reach the conference site:

Hotel Niedersachsen, Wiesenstr. 12, Goslar, OT Hahnenklee-Bockswiese, Tel.: 05325/52860
http://www.hotel-niedersachsen-harz.de

Arrival by train to Goslar, then take the bus 830 to Goslar-Bockswiese:
29 March:  Goslar (ZOB) 12.05 h – Bockswiese 12.25 h
          Goslar (ZOB) 14.05 h – Bockswiese 14.25 h
31 March:  Bockswiese 13.30 h – Goslar (ZOB) 13.50 h
          Bockswiese 14.30 h – Goslar (ZOB) 14.50 h

For the complete timetable, consult http://www.bahn.de