

Otto-von Guericke-Universität-Magdeburg

Institut für Experimentelle Physik

Japanese-German Workshop

„Emerging Phenomena in Spatial Patterns“

Building 16, Room 154

Tuesday, September 25, 2012

Program:

11:00 – 11:30 **Hidetoshi Miike** (Yamaguchi University)
“Emergent pattern dynamics in reaction-diffusion-convection system”

11:30 – 12:00 **Atsushi Osa** (Yamaguchi University)
“Visual phenomena and models using a system of reaction diffusion equations”

12:00 – 12:30 **Kinko Tsuji** (Shimadzu Europa GmbH)
“Chemical reaction evolving on a droplet”

12:30 – 14:00 **Lunch**

14:00 – 14:30 **Ulrike Strachauer** (Otto-von-Guericke University Magdeburg)
“Migrational behaviour of *Physarum polycephalum* microplasmodia”

14:30 – 15:00 **Werner Baumgarten** (Otto-von-Guericke University Magdeburg)
“Functional organization of the vein network of *Physarum polycephalum*”

15:00 – 15:30 **André Weber** (Otto-von-Guericke University Magdeburg)
“Desynchronization of glycolytic oscillations in yeast cell populations”

15:30 – 16:00 **Patricia Dähmlow**(Otto-von-Guericke University Magdeburg)

“Twists of opposite handedness on a scroll wave

16:00 – 16:30 **Coffee break**

16:30 – 17:00 **Alexey Eremin** (Otto-von-Guericke University Magdeburg)

“Ferroelektrische flüssige Fäden”

17:00 – 17:30 **Tatsunari Sakurai** (Chiba University)

“A macroscopic pattern by an individual E. coli in a growth-diffusion-chemotaxis system”

17:30 – 18:00 **Tomohiro Nakamura** (Chiba University)

“What determines the diffusion velocity of E. coli?”

18:00 – 18:30 **Stefan C. Müller** (Otto-von-Guericke University Magdeburg)

“On the principles of extremum entropy production”

19:00 – 21:00 **Dinner (Bralo House)**