

## Mini workshop on pattern formation in reaction diffusion system with advection

This workshop will cover a broad range of topics including chemical wave propagation, pattern formation and control of nonlinear systems in reaction diffusion system with advection.

**Date:** September 11-12, 2007

**Location:** room #212, Trojanova street  
Faculty of Nuclear Sciences and Physical Engineering  
Czech Technical University in Prague

**Organization:** M. Beneš, M. Kimura and S. Yazaki

### September 11

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**14:00 – 14:40** Tohru Tsujikawa (University of Miyazaki)

“Spatial patterns in reaction diffusion system with advection (I)”

**15:00 – 15:20** Naoko Kurata (Chiba University)

“Hexagonal pattern in a chemotaxis-diffusion-growth system”

(joint work with: K. Kuto, K. Osaki, T. Tsujikawa and T. Sakurai)

**15:40 – 16:10** Jan Mach (Czech Technical University in Prague)

“Computational study of the Gray-Scott model”

(joint work with: M. Beneš)

### September 12

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**14:00 – 14:40** Tohru Tsujikawa (University of Miyazaki)

“Spatial patterns in reaction diffusion system with advection (II)”

**15:00 – 15:20** Kazuki Shioiri (Chiba University)

“Stability of multi armed spiral wave”

(joint work with T. Sakurai)

**15:40 – 16:10** Petr Pauš (Czech Technical University in Prague)

“Numerical simulation of dislocation dynamics”

(joint work with: M. Beneš)

**16:30 – 17:00** Tatsunari Sakurai (Chiba University)

“Kinematic model for stabilized chemical wave”

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### ! Summer school for young scientist !

In part of the workshop, a summer school for young scientist will be hold in the same place (September 6–7, 2007). Apply to the organizers for further particulars.