

# STABILITY CRITERIA FOR MULTI-DIMENSIONAL WAVES AND PATTERNS

## Workshop Schedule

Monday, May 16, 2005

9:00 am - Christopher K.R.T. Jones: The Evans function: historical development

11:30 am - Bjorn Sandstede: Spatial dynamics: Evans functions in multi-D I

Lunch

2:30 pm - Yuri Latushkin: Evans functions and Fredholm determinants I

4:00 pm - Discussion: topics to be discussed in breakout groups

Happy Hour

Tuesday, May 17, 2005

9:00 am - Bjorn Sandstede: Spatial dynamics: Evans functions in multi-D II

10:30 am - Christopher K.R.T. Jones: The Maslov index in multi-D problems

Lunch

2:30 pm - Yuri Latushkin: Evans functions and Fredholm determinants II

4:00 pm - Breakout groups: 3 parallel sessions on:

Waves and phenomena in multi-D

Multiscale problems and curved fronts/shocks

Functional-analytic tools

Happy Hour

6:45 pm - Workshop Banquet

Wednesday, May 18, 2005

9:00 am - Brief reports from the breakout groups

9:30 am - Breakout session (continued)

11:15 am - Reports & discussion

Lunch

2:00 pm - Breakout groups: 2 parallel sessions on:

Numerical computation of Evans functions (with short presentations by

Derks, Malham, Humpherys, Bindel)

From spectral to nonlinear stability (with presentations by Zumbrun & Williams)

Happy Hour

Thursday, May 19, 2005

9:00 am - Discussion sessions in plenum: Dynamics of patterns (moderator: Yasumasa Nishi)

10:30 am - Discussion sessions in plenum: Hamiltonian PDEs (moderator: Gianne Derks)

Lunch

2:00 pm - Discussion sessions in plenum: Numerical computations (moderator: Bjorn Sandstede)

4:00 pm - Open discussion sessions in small groups

Happy Hour

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Friday, May 20, 2005

9:00 am - Problems: 5 minutes each - Discussion session in plenum: collect topics and t

Lunch

2:00 pm - Wrap-up

Happy Hour