

## MOPNET Meeting 6

University of Bath  
Monday April 2nd to Tuesday April 3rd 2012

All lectures will take place in the Wolfson Lecture Theatre of the 4 West building (also known as room 4W1.7), Department of Mathematical Sciences, University of Bath. Coffee and Tea will be served in the 4W Level 1 Atrium outside the Wolfson Lecture Theatre. Lunch will be served in the Social Space on Level 4 of the 4 West building.

### Schedule

#### Monday, 2nd April 2012

|               |  |  |
|---------------|--|--|
| until 9:30    | Arrival and Opening  |  |
| 9:30 - 10:30  | <b>Patrick Joly</b> (ENSTA ParisTech)  | <i>Mathematical modelling of non homogeneous coaxial cables for time domain simulation</i> |
| 10:30 - 11:00 | Coffee/Tea in 4W Atrium  |  |
| 11:00 - 12:00 | <b>Rafael Benguria</b> (Universidad Católica de Chile)   | tba  |
| 12:00 - 13:30 | Lunch (and discussions)  |  |
| 13:30 - 14:30 | <b>Charles Johnson</b> (The College of William and Mary)   | <i>Eigenvalues, Multiplicities and Graphs</i>  |
| 14:30 - 15:30 | <b>Valeria Simoncini</b> (Università di Bologna)   | <i>The rational Krylov subspace for parameter dependent systems</i>                        |
| 15:30 - 16:00 | Coffee/Tea in 4W Atrium  |  |
| 16:00 - 17:00 | <b>David Krejčířík</b> (Nuclear Physics Institute ASCR, Czech Republic)  | <i>Waveguides with non-Hermitian boundary conditions</i>                                   |
| 17:00 - 17:30 | MOPNET Scientific Committee Meeting  |  |
| 17:30 - 19:00 | Discussions/Walk/Busses into Bath City Centre  |  |
| from 19:00    | Dinner at The Eastern Eye (Indian Restaurant, <a href="http://www.easterneye.com/">http://www.easterneye.com/</a> ). |  |

#### Tuesday, 3rd April 2012

|               |  |   |
|---------------|--|---|
| 9:00 - 10:00  | <b>Christiane Tretter</b> (Universität Bern)             | <i>Quadratic numerical range (QNR) of analytic block operator matrix functions</i>  |
| 10:00 - 10:30 | Coffee/Tea in 4W Atrium                                  |   |
| 10:30 - 11:30 | <b>Karl Meerbergen</b> (KU Leuven)                       | <i>The solution of two-parameter eigenvalue problems arising from the determination of Hopf bifurcations of dynamical systems</i> |
| 11:30 - 12:30 | <b>Emre Mengi</b> (Koç University)                       | <i>Optimization of Eigenvalues of Hermitian Matrix Functions and Applications</i>   |
| 12:30 - 14:00 | Lunch (and discussions)                                  |   |
| 14:00 - 15:00 | <b>Dmitri Vassiliev</b> (UCL)                            | <i>Spectral theory of first order systems: an interface between analysis and geometry</i>   |
| 15:00 - 15:30 | Coffee/Tea in 4W Atrium                                  |   |
| 15:30 - 16:30 | <b>Charles Johnson</b> (The College of William and Mary) | <i>New Generalizations of the Field of Values to Pairs of Matrices</i>  |

We hope you have an enjoyable and stimulating meeting!