## **Symposium Programme**

Monday 16 <sup>th</sup> December 2013	
09.00 - 09.30	Registration, Tea & Coffee
09.30 - 10.05	Prof EB Davies (King's College London) A non-self-adjoint spectral problem
10.05 - 10.40	<b>Prof LE Fraenkel</b> (University of Bath) A singular initial-value problem for the Navier-Stokes equations (L.E. Fraenkel and M.D. Preston)
10.40 - 11.05	<b>Prof AV Sobolev</b> (University College London) Multidimensional Wiener-Hopf operators and Quantum Information
11.05 - 11.30	<b>Prof J Björn</b> ( <i>Linköping University</i> ) Metrics, Prime ends and the Dirichlet problem on bad domains
11.30 - 11.55	<b>Prof SN Chandler-Wilde</b> ( <i>University of Reading</i> ) Scattering by fractal screens: fun with integral equations and Sobolev spaces (S.N. Chandler-Wilde, D.P. Hewett and A. Moiola)
11.55 - 12.20	<b>Prof A Cialdea</b> (University of Basilicata) The $L^p$ -dissipativity of partial differential operators
12.20 - 13.00	Lunch
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13.00 - 13.35	<b>Prof G Dal Maso</b> (Scuola Internazionale Superiore di Studi Avanzati) Generalised functions of bounded deformation
13.00 - 13.35 13.35 - 14.10	Prof G Dal Maso (Scuola Internazionale Superiore di Studi Avanzati)
	Prof G Dal Maso (Scuola Internazionale Superiore di Studi Avanzati) Generalised functions of bounded deformation Prof JR Ockendon (University of Oxford)
13.35 - 14.10	Prof G Dal Maso (Scuola Internazionale Superiore di Studi Avanzati) Generalised functions of bounded deformation  Prof JR Ockendon (University of Oxford) Perturbed Hyperbolic Systems in Plasticity and Plasma Physics  Prof A Cianchi (Università de Firenze) Global boundedness of the gradient for a class of nonlinear elliptic
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	Monday 16 <sup>th</sup> December 2013
15.50 - 16.20	Tea & Coffee Break
16.20 - 16.45	<b>Prof R Hurri-Syrjänen</b> (University of Helsinki) On fractional Sobolev-Poincaré and Hardy inequalities in domains in $\mathbb{R}^n$
16.45 - 17.10	Prof N Jacob (Swansea University) Dirichlet Spaces as Function Spaces
17.10 - 17.35	<b>Prof C Kiselman</b> ( <i>Uppsala University</i> ) Discrete convolution operators, the Fourier transformation, and its tropical counterpart: the Fenchel transformation
17.35 - 18.00	<b>Dr M Dindos</b> (University of Edinburgh) $L^p$ Solvability of the Stationary Stokes Problem in domains with conical singularity in any dimension
19.00	Symposium Dinner
	Tuesday 17 <sup>th</sup> December 2013
09.00 - 09.35	<b>Prof WL Wendland</b> ( <i>Universität Stuttgart</i> ) Potential methods for Stokes and Brinkman systems on Lipschitz domains
09.35 - 10.10	<b>Prof M Dauge</b> (IRMAR, Université de Rennes 1) Ground energy of the magnetic Laplacian in polyhedral bodies
10.10 - 10.45	Prof T Lyons (University of Oxford) Reading and learning from time ordered data
10.45 - 11.15	Tea & Coffee Break
11.15 - 11.40	Prof M Levitin (University of Reading) Eigenvalues of a one-dimensional Dirac operator pencil
11.40 - 12.05	<b>Dr A Pushnitski</b> (King's College London) Analysis of Hankel operators with continuous spectrum
12.05 - 12.30	<b>Prof S Mikhailov</b> (Brunel University London) Spectral Properties and Perturbations of Boundary-Domain Integro- Differential Equations for Variable-Coefficient BVPs
12.30 - 12.55	<b>Prof F Pacella</b> ( <i>University of Rome "La Sapienza"</i> ) Blow up in finite time for some semilinear heat equations
12.55 - 13.35	Lunch

Tuesday 17 <sup>th</sup> December 2013	
13.35 - 14.10	<b>Prof VG Maz'ya</b> (University of Liverpool & Linköping) Differentiability of solutions to elliptic equations with non-Dini coefficients
14.10 - 14.35	<b>Prof G Schmidt</b> (Weierstrass Institute) On an integral equation formulation for scattering by biperiodic structures (joint work with B. Bugert)
14.35 - 15.00	<b>Prof E Shargorodsky</b> (King's College London) Negative eigenvalues of two-dimensional Schroedinger operators
15.00 - 15.30	Tea & Coffee Break
15.30 - 15.55	<b>Prof T Shaposhnikova</b> (Royal Institute of Technology, Stockholm) Logarithmic interpolation-embedding inequalities on irregular domains
15.55 - 16.20	<b>Prof MA Vivaldi</b> (University of Rome "La Sapienza") PDEs in the Koch snowflake domain
16.20 - 16.45	<b>Prof JR Whiteman</b> (Brunel University London) High Order Space-Time Finite Element Schemes for Acoustic and Viscodynamic Wave Equations with Application to Stenosis diagnosis
16.45 - 17.10	<b>Dr Y Netrusov</b> ( <i>University of Bristol</i> ) Estimates of entropy numbers in some classes of functions
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