TIMETABLE OF TALKS AND EVENTS

Saturday

	Arrival and registration
19.00-20.00	*Dinner*

Sunday

From 7.45	*Breakfast*	
MORNING SESSION - CHAIR MARCO MARLETTA		
9.20	Introduction and Welcome by Malcolm Brown	
9.30	**Konstantin Mischaikow**	Using a finite number of computations to characterize global nonlinear structures
10.30	*Coffee*	
11.00	**John R. Willis**	Mathematics of Metamaterials
12.00-12.30	**Lance L Littlejohn**	A generalization of Hardy's inequality
13.00	*Lunch*	
AFTERNOON SESSION - CHAIR WOLFGANG REICHEL		
14.00	**Michael I. Weinstein**	Spectral Optimization Problems for Metastable States
15.00-15.30	**Andreas M. Hinz**	The uncountability of the real numbers
16.00	*Tea*	
19.00	*Dinner*	
20.30	*Wine Reception*	

Monday

From 7.45	*Breakfast*	

Morning Session - Chair Hubert Kalf

9.00	**Brian Davies**	Spectrum of a Feinberg-Zee Random Hopping Matrix
9.30	**Daphne Gilbert**	Scalar Spectral Functions associated with the Schrödinger Operator on the Line
10.00	**Heinz Langer**	Sturm-Liouville problems with an inner singularity and indefinite inner products
10.30	*Coffee*	
11.00	**Annemarie Luger**	Titchmarch-Weyl-theory for strongly singular Sturm-Liouville
11.30	**Pavel B Kurasov**	Inverse problems for Schrödinger operators on graphs
12.00	**Rudi Weikard**	The Inverse Resonance Problem for CMV Operators
12.30	**Christer Bennewitz**	Inverse scattering for left definite Sturm-Liouville equations
13.00	*Lunch*	

Afternoon Session - Chair Christiane Tretter

14.00	**Gerd Grubb**	A Krein resolvent formula for the mixed problem, and its eigenvalue asymptotics
14.30	**Kaori Nagatou**	Eigenvalue excluding for 1D Schrödinger operators and related topics
15.00	**Mitsuhiro T. Nakao**	On a posteriori estimates of inverse operators for linear parabolic initial-boundary value problems
15.30	**Sergey Naboko**	Unbounded Jacobi matrices with a few gaps in the essential spectrum - constructive examples
16.00	*Tea*	
16.30	**Robert Sims**	Locality Estimates and Lieb-Robinson Bounds
17.00-17.30	**Gunter Stolz**	Localization in a disordered quantum spin chain
19.00	*Dinner*	

Tuesday

From 7.45	*Breakfast*	

9.00	**John R. Willis**	Effective constitutive relations and variational principles for waves in composites and metamaterials
10.00	**Kirill Cherednichenko**	High-frequency spectral analysis of thin periodic acoustic strips
10.30	*Coffee*	
11.00	**Christiane Tretter**	Spectral inclusions for operators with spectral gaps
11.30	**Carsten Trunk**	Singular indefinite Sturm-Liouville problems
12.00	**Xuefeng Liu**	High precision eigenvalue bounds for laplacian over general polygonal domain
12.30	**Akitoshi Takayasu**	A computer assisted proof method for semilinear elliptic equations on arbitrary polygonal domain
13.00	*Lunch*	

AFTERNOON   FREE

19.00	*Dinner*	

Wednesday

From 7.45	*Breakfast*	

Morning Session - Chair Michael Plum

9.00	**Konstantin Mischaikow**	Rigorous computation of equilibria, periodic orbits and connecting orbits for differential equations
10.00	**Piotr Zgliczyński**	On some computer assisted proofs of bifurcations in the dynamics of maps and ODEs
10.30	*Coffee*	
11.00	**Ian Wood**	Spectral information contained in Dirichlet-to-Neumann-type maps
11.30	**Sylvie Monniaux**	Maximal regularity in tent spaces
12.00	**Carlos Kenig**	Quick introductions to classical homogenization theory for elliptic systems with periodic coefficients and to boundary value problems on Lipschitz domains
13.00	*Lunch*	

Afternoon Session - Chair Heinz Langer

14.00	**Karl Michael Schmidt**	Spectral Properties of Massless Dirac Operators
14.30	**Daniel G. Hughes**	Spectral Properties of Dirac Operators with Square Summable Potentials
15.00	**Jean-Claude Cuenin**	Diagonalization of Dirac operators
15.30	**Daniel M. Elton**	Zero Modes and Approximate Zero Modes of the Pauli Operator
16.00	*Tea*	
19.00	*Dinner*	
20.00	*Musical Recital*	

Antje Siefert (Mezzo-soprano) & Sybille Hempel-Abromeit (Piano)

The recital and will be followed by a *Wine* Reception

Thursday

From 7.45	*Breakfast*	

Morning Session - Chair Ian Wood

9.00	**Carlos Kenig**	Homogenization of elliptic systems with periodic coefficients
10.00	**Friedrich Philipp**	Indefinite Sturm-Liouville operators with periodic coefficients
10.30	*Coffee*	
11.00	**Michael S.P. Eastham**	Generalised Meissner equations with an eigenvalue-inducing interface
11.30	**Rainer Hempel**	Spectral properties of some dislocation operators in two dimensions
12.00	**Dagmar Roth**	A computer-assisted multiplicity proof for a semilinear elliptic boundary value problem
12.30	**Matthias Langer**	Discrete fragmentation equations
13.00	*Lunch*	

Afternoon Session - Chair Andreas Hinz

14.00	**Vu Hoang**	Dispersion Relations for Arrays of Split Ring Resonators
14.30	**Lutz Weis**	Spectral multiplier theorems for Laplace-type operators
15.00	**Thomas Østergaard Sørensen**	Relativistic semi-classics for potentials with Coulomb-like singularities
15.30	**Roland Möws**	Eigenvalues in Spectral Gaps of Left-Definite Sturm-Liouville Operators
16.00	*Tea*	
19.00	*Workshop Dinner*	

Friday

From 7.45	*Breakfast*	

Morning Session - Chair Rainer Hempel

9.00	**Michael I. Weinstein**	Scattering, Homogenization and Waves in Microstructures
10.00	**Tomáš Dohnal**	Eigenvalues of the Linear Periodic Schrödinger Equation with an Interface
10.30	*Coffee*	
11.00	**Michael Plum**	A Computer-Assisted Band-Gap Proof for 3D Photonic Crystals
11.30	**Wolfgang Reichel**	Ground states for the nonlinear Schrödinger-equation with interface
12.00	*Lunch*	End of meeting