

SPECTRAL DAYS 2012

PROGRAMME*

	Tuesday, 10 April	Wednesday, 11 April	Thursday, 12 April	Friday, 13 April
09:00 – 10:00	S.-T. Yau	M. Aizenman	S. Serfaty	A. Klein
10:00 – 10:35	A. Joye	F. Klopp	R. D. Benguria	W.-M. Wang
10:35 – 11:00	Coffee Break			
11:00 – 11:35	R. Seiringer	S. Jitomirskaya	S. Fournais	J. P. Solovej
11:35 – 12:10	R. Frank	F. Germinet	M. Esteban	B. Schlein
12:10 – 14:30	Lunch Break			
14:30 – 15:05	V. Bach	O. Matte	C. Tretter	T. Weidl
15:05 – 15:40	I. M. Sigal	M. Lewin	A. Sobolev	B. Davies
15:40 – 16:00	Coffee Break			
16:00 – 17:00	J. Fröhlich	B. Helffer	J. Sjöstrand	Farewell Coffee
19:00	Conference Dinner at Schlosswirtschaft Schwaige			

End at 16:05

* Updated Monday 9th April, 2012 at 18:07.

Tuesday, 10 April

09:00 – 10:00

S.-T. Yau (Harvard)

Geometry and Spectrum of Graphs

10:00 – 10:35

A. Joye (Grenoble)

Correlated Markov Quantum Walks

10:35 – 11:00

Coffee Break

11:00 – 11:35

R. Seiringer (Montreal)

How much Energy does it Cost to Make a Hole in the Fermi Sea?

11:35 – 12:10

R. Frank (Princeton)

Properties of Multi-Polaron Systems

12:10 – 14:30

Lunch Break

14:30 – 15:05

V. Bach (Braunschweig)

Dynamical Renormalization Group

15:05 – 15:40

I. M. Sigal (Toronto)

Statics and Dynamics of Magnetic Vortices

15:40 – 16:00

Coffee Break

16:00 – 17:00

J. Fröhlich (ETH Zürich)

Electrons and Light – QED light

Wednesday, 11 April

09:00 – 10:00	M. Aizenman (Princeton) <i>Resonant Delocalization for Schrödinger Operators with Random Potential on Tree Graphs</i>
10:00 – 10:35	F. Klopp (Paris) <i>Level Statistics at Spectral Edges</i>
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10:35 – 11:00	Coffee Break
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11:00 – 11:35	S. Jitomirskaya (Irvine) <i>Quasiperiodic Schrödinger Operators and their Rational Frequency Approximants</i>
11:35 – 12:10	F. Germinet (Cergy-Pontoise) <i>Anderson Localization for Delone Hamiltonians</i>
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12:10 – 14:30	Lunch Break
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14:30 – 15:05	O. Matte (LMU München) <i>The Mass Shell in the Semi-Relativistic Pauli-Fierz Model</i>
15:05 – 15:40	M. Lewin (Cergy-Pontoise) <i>Existence of the Thermodynamic Limit for Disordered Coulomb Quantum Systems</i>
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15:40 – 16:00	Coffee Break
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16:00 – 17:00	B. Helffer (Paris) <i>A Magnetic Characterization of Minimal Partitions</i>

Thursday, 12 April

09:00 – 10:00	S. Serfaty (Paris) <i>2D Classical Coulomb Gas and the Renormalized Energy</i>
10:00 – 10:35	R. D. Benguria (Santiago de Chile) <i>A New Estimate on the Two-Dimensional Indirect Coulomb Energy</i>
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10:35 – 11:00	Coffee Break
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11:00 – 11:35	S. Fournais (Århus) <i>Relativistic Scott Correction in Self-Generated Magnetic Fields</i>
11:35 – 12:10	M. Esteban (Paris) <i>Best Constants for Lieb–Thirring like Inequalities in Cylinders and their Relation to Symmetry Properties of Extremals for the Caffarelli–Kohn–Nirenberg Inequalities</i>
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12:10 – 14:30	Lunch Break
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14:30 – 15:05	C. Tretter (Bern) <i>Spectral Inclusions for Operators with Spectral Gaps</i>
15:05 – 15:40	A. Sobolev (London) <i>Discrete Spectrum Asymptotics for Certain Finite Band Lattice Operators</i>
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15:40 – 16:00	Coffee Break
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16:00 – 17:00	J. Sjöstrand (Dijon) <i>Weyl Laws for Non-Self-Adjoint Differential Operators with Small Random Perturbations</i>

Friday, 13 April

09:00 – 10:00	A. Klein (Irvine) <i>Local Behavior of Solutions of Schrödinger Equations and Bounds on the Density of States for Schrödinger Operators</i>
10:00 – 10:35	W.-M. Wang (Paris) <i>Spectral Methods in PDE</i>
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10:35 – 11:00	Coffee Break
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11:00 – 11:35	J. P. Solovej (København) <i>Microscopic Derivation of the Ginzburg–Landau Model</i>
11:35 – 12:10	B. Schlein (Bonn) <i>A Central Limit Theorem for Many Body Quantum Dynamics</i>
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12:10 – 14:30	Lunch Break
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14:30 – 15:05	T. Weidl (Stuttgart) <i>Sharp Semiclassical Spectral Estimates with Remainder Terms</i>
15:05 – 16:05	B. Davies (London) <i>Spectrum of a Feinberg–Zee Random Hopping Matrix</i>
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16:05 – 17:00	Farewell Coffee
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