ZVR 298034776

Summer School on current topics in Mathematical Physics August 16 - 24, 2011

organized by Christian Hainzl, Robert Seiringer

• Tuesday, August 16

10:00 – 11:00: Rafael Benguria (PUC, Santiago, Chile)

Isoperimetric inequalities for eigenvalues of the Laplace and Schroedinger operator

11:00 - 11:30: Coffee

11:30 – 12:30: Rafael Benguria (PUC, Santiago, Chile)

Isoperimetric inequalities for eigenvalues of the Laplace and Schroedinger operator

12:30 – 15:00: Lunch Break

15:00 – 16:00: Soeren Fournais (University of Aarhus, Denmark)

Semiclassics with self-generated fields

16:00 - 16:30 Break

16:30 – 17:30: Soeren Fournais (University of Aarhus, Denmark)

Semiclassics with self-generated fields

• Wednesday, August 17

10:00 – 11:00: Wilhelm Schlag (University of Chicago, USA)

Invariant manifolds and dispersive Hamiltonian Equations

11:00 – 11:30: Coffee

11:30 – 12:30: Wilhelm Schlag (University of Chicago, USA)

Invariant manifolds and dispersive Hamiltonian Equations

12:30 - 15:00: Lunch Break

15:00 – 16:00: Rafael Benguria (PUC, Santiago, Chile)

Isoperimetric inequalities for eigenvalues of the Laplace and Schroedinger operator

16:00 – 16:30: Break

16:30 – 17:30 Rafael Benguria (PUC, Santiago, Chile)

Isoperimetric inequalities for eigenvalues of the Laplace and Schroedinger operator

• Thursday, August 18

10:00 – 11:00: Soeren Fournais (University of Aarhus, Denmark)

Semiclassics with self-generated fields

11:00 – 11:30: Coffee

11:30 – 12:30: Soeren Fournais (University of Aarhus, Denmark)

Semiclassics with self-generated fields

12:30 - 15:00: Lunch Break

15:00 – 16:00: Wilhelm Schlag (University of Chicago, USA) *Invariant manifolds and dispersive Hamiltonian Equations*

16:00 - 16:30: Break

16:30 – 17:30 Wilhelm Schlag (University of Chicago, USA) *Invariant manifolds and dispersive Hamiltonian Equations*

• Friday, August 19

10:00 – 11:00: Vieri Mastropietro (Università di Roma, Italy) *Universality and critical behavior in Luttinger and Dirac liquids*

11:00 - 11:30: Coffee

11:30 – 12:30: Vieri Mastropietro (Università di Roma, Italy) *Universality and critical behavior in Luttinger and Dirac liquids*

12:30 – 15:00: Lunch Break

15:00 – 16:00: Mathieu Lewin (Cergy-Pontoise, Paris)

Geometrics methods for nonlinear many-body quantum systems

16:00 - 16:30: Break

16:30 – 17:30 Mathieu Lewin (Cergy-Pontoise, Paris)

Geometrics methods for nonlinear many-body quantum systems

• Saturday, August 20

11:00 – 12:00: Vieri Mastropietro (Università di Roma, Italy) *Universality and critical behavior in Luttinger and Dirac liquids*

12:00 - 12:30: Coffee

12:30 – 13:30: Vieri Mastropietro (Università di Roma, Italy) *Universality and critical behavior in Luttinger and Dirac liquids*

• Monday, August 22

10:00 – 11:00: Mathieu Lewin (Cergy-Pontoise, Paris)

Geometrics methods for nonlinear many-body quantum systems

11:00 - 11:30: Coffee

11:30 – 12:30: Mathieu Lewin (Cergy-Pontoise, Paris)

Geometrics methods for nonlinear many-body quantum systems

12:30 - 15:00: Lunch Break

15:00 – 16:00: Fabio Toninelli (ENS Lyon, France)

Zero-temperature dynamics of the three-dimensional Ising model and dimer covering fluctuations

16:00 - 16:30: Break

16:30 – 17:30 Fabio Toninelli (ENS Lyon, France)

Zero-temperature dynamics of the three-dimensional Ising model and dimer covering fluctuations

• Tuesday, August 23

10:00 – 11:00: Jürg Fröhlich (ETH Zürich, Switzerland)

States of matter and phase transitions accompanied by continuous symmetry breaking

11:00 - 11:30: Coffee

11:30 – 12:30: Jürg Fröhlich (ETH Zürich, Switzerland)

States of matter and phase transitions accompanied by continuous symmetry breaking

12:30 - 15:00: Lunch Break

15:00 – 16:00: Fabio Toninelli (ENS Lyon, France)

Zero-temperature dynamics of the three-dimensional Ising model and dimer covering fluctuations

16:00 – 16:30: Break

16:30 – 17:30 Fabio Toninelli (ENS Lyon, France)

Zero-temperature dynamics of the three-dimensional Ising model and dimer covering fluctuations

• Wednesday, August 24

10:00 – 11:00: Jürg Fröhlich (ETH Zürich, Switzerland)

States of matter and phase transitions accompanied by continuous symmetry breaking

11:00 - 11:30: Coffee

11:30 – 12:30: Jürg Fröhlich (ETH Zürich, Switzerland)

States of matter and phase transitions accompanied by continuous symmetry breaking

All lectures take place in the ESI Boltzmann Lecture Hall