

MATTER AND RADIATION
May 31 – June 17, 2010
organized by: V. Bach, J. Fröhlich, J. Yngvason

WEEK 1: May 31 – June 4**Tuesday, June 1**

- 10:30 - 11:00 WELCOME COFFEE
- 11:00 - 12:00 GORA SHLYAPNIKOV
New quantum states in dilute dipolar systems
- 15:00 - 16:00 FRANK VERSTRAETE
tba
- 16:00 - 16:30 COFFEE
- 16:30 - 17:30 EDGARDO STOCKMEYER
tba

Wednesday, June 2

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 THOMAS CHEN
tba
- 15:00 - 16:00 DAVID HASLER
tba
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 STEPHAN DE BIEVRE
A fluctuation-dissipation theorem in dissipative Lorentz gases

Thursday, June 3

HOLIDAY Fronleichnam / Corpus Christi

Friday, June 4

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 STEFAN TEUFEL
Dynamical molecules coupled to the quantized field: Born-Oppenheimer approximation and radiative decay
- 15:00 - 16:00 HERBERT SPOHN
Retarded van der Waals forces: a challenge to nonrelativistic QED
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 CLAUDE-ALAIN PILLET
Entropic Fluctuations in Statistical Mechanics Part I: Classical Dynamical Systems

WEEK 2: June 7 – June 11

Monday, June 7

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 ISRAEL MICHAEL SIGAL
tba
- 15:00 - 16:00 HEINZ SIEDENTOP
tba
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 MARCEL GRIESEMER
tba

Tuesday, June 8

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 JEREMY FAUPIN
Local Decay for a Free Electron in Non-Relativistic QED
- 15:00 - 16:00 WOJCIECH DYBASLKI
tba
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 VOJKAN JAKSIC
Entropic Fluctuations in Statistical Mechanics Part II: Quantum Dynamical Systems

Wednesday, June 9

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 ABDELMALEK ABDESSELAM
On the combinatorics of the spin-Boson model
- 15:00 - 16:00 JÜRGEN FRÖHLICH
tba
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 GIAN MICHELE GRAF
Adiabatic evolution with and without dissipation

Thursday, June 10

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 DETLEV BUCHHOLZ
tba
- 15:00 - 16:00 JACOB SCHACH MÖLLER
Spectral and Scattering Theory for some Massive Translation Invariant QFT Models
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 DETLEF DÜRR
tba

Friday, June 11

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 MATHIEU LEWIN
Geometric methods for nonlinear many-body quantum systems
- 15:00 - 16:00 MARCO MERKLI
Some Applications of Resonance Theory to Open Spin Systems
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 WOJCIECH DE ROECK
Return to equilibrium' for weakly coupled quantum systems: a simple polymer expansion

WEEK 3: June 14 – June 17**Monday, June 14**

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 WALTER ASCHBACHER
tba
- 15:00 - 16:00 JEAN-MARIE BARBAROUX
tba
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 JEAN-CLAUDE GUILLOT
tba

Tuesday, June 15

- 10:00 - 11:00 ELLIOTT LIEB
Stability and Binding of Multi-Polaron Systems. Part 1.
- 11:00 - 11:30 COFFEE
- 11:30 - 12:30 ROBERT SEIRINGER
tba
- 15:00 - 16:00 DIRK-ANDRE DECKERT
tba

Wednesday, June 16

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 PETER PICKL
A simple derivation of mean field limits for quantum systems
- 15:00 - 16:00 BENJAMIN SCHLEIN
tba
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 MATTHIAS WESTRICH
tba

Thursday, June 17

- 10:30 - 11:00 COFFEE
- 11:00 - 12:00 CHRISTIAN HAINZL
On perturbation theory for Pauli-Fierz-type operators
- 15:00 - 16:00 VOLKER BACH
tba

Except Thursday, June 10, afternoon, all lectures will take place in the ESI Boltzmann Lecture Hall.