

# Summerschool on "Current Topics in Mathematical Physics"

(Marseille, Sept. 2-7, 2013)

All the lectures in the main conference room (Auditorium).

All the working groups in the Annexe or in the chapelle.

## Monday 02 September 2013

- 09:30 – 10:30 **Daniel Ueltschi** "Quantum spin systems and phase transitions" (1)  
10:30 – 11:00 *Coffee Break*  
11:00 – 12:00 **Daniel Ueltschi** "Quantum spin systems and phase transitions" (2)  
12:00 – 14:00 *Lunch*  
14:00 – 15:00 **Rupert Frank** "Ground states of non-linear scalar field equations" (1)  
15:00 – 15:30 *Coffee Break*  
15:30 – 16:30 **Rupert Frank** "Ground states of non-linear scalar field equations" (2)  
17:00 – 18:00 **Working groups** (Annexe)  
Room 1: Ueltschi      Room 4 & chapelle: free for discussions  
Room 2: Frank  
19:30 – 21:00 *Dinner*

## Tuesday 03 September 2013

- 09:30 – 10:30 **Daniel Ueltschi** "Quantum spin systems and phase transitions" (3)  
10:30 – 11:00 *Coffee Break*  
11:00 – 12:00 **Daniel Ueltschi** "Quantum spin systems and phase transitions" (4)  
12:00 – 14:00 *Lunch*  
14:00 – 15:00 **Rupert Frank** "Ground states of non-linear scalar field equations" (3)  
15:00 – 15:30 *Coffee Break*  
15:30 – 16:30 **Rupert Frank** "Ground states of non-linear scalar field equations" (4)  
17:00 – 18:00 **Working groups** (Annexe)  
Room 1: Ueltschi      Room 4 & chapelle: free for discussions  
Room 2: Frank  
19:30 – 21:00 *Dinner*

## Wednesday 04 September 2013

- 09:30 – 10:30 **Jens Marklof** "From Newton's laws to macroscopic transport equations: The Boltzmann-Grad limit of the Lorentz gas" (1)  
10:30 – 11:00 *Coffee Break*  
11:00 – 12:00 **Jens Marklof** "From Newton's laws to macroscopic transport equations: The Boltzmann-Grad limit of the Lorentz gas" (2)  
12:00 – 14:00 *Lunch*  
14:00 – 18:00 Room 1, 2 & 4: free for discussions  
19:30 – 21:00 *Dinner*

### Thursday 05 September 2013

- 09:30 – 10:30 **Eric Carlen** "Mathematical Problems in Kinetic Theory" (1)  
10:30 – 11:00 *Coffee Break*  
11:00 – 12:00 **Eric Carlen** "Mathematical Problems in Kinetic Theory" (2)  
12:00 – 14:00 *Lunch*  
14:00 – 15:00 **Jens Marklof** "From Newton's laws to macroscopic transport equations: The Boltzmann-Grad limit of the Lorentz gas" (3)  
15:00 – 15:30 *Coffee Break*  
15:30 – 16:30 **Jens Marklof** "From Newton's laws to macroscopic transport equations: The Boltzmann-Grad limit of the Lorentz gas" (4)  
17:00 – 18:00 **Working groups** (Annexe)  
Room 1: Marklof   Room 4 & chapelle: free for discussions  
Room 2: Carlen  
19:30 – 22:00 *Social dinner (bouillabaisse)*

### Friday 06 September 2013

- 09:30 – 10:30 **Christian Hainzl** "The BCS-functional of superconductivity (superfluidity)" (1)  
10:30 – 11:00 *Coffee Break*  
11:00 – 12:00 **Christian Hainzl** "The BCS-functional of superconductivity (superfluidity)" (2)  
12:00 – 14:00 *Lunch*  
14:00 – 15:00 **Eric Carlen** "Mathematical Problems in Kinetic Theory" (3)  
15:00 – 15:30 *Coffee Break*  
15:30 – 16:30 **Eric Carlen** "Mathematical Problems in Kinetic Theory" (4)  
17:00 – 18:00 **Working groups** (Annexe)  
Room 1& Room 2: Hainzl  
Room 4: Carlen  
Chapelle: Marklof  
19:30 – 21:00 *Dinner*

### Saturday 07 September 2013

- 09:30 – 10:30 **Christian Hainzl** "The BCS-functional of superconductivity (superfluidity)" (3)  
10:30 – 11:00 *Coffee Break*  
11:00 – 12:00 **Christian Hainzl** "The BCS-functional of superconductivity (superfluidity)" (4)  
12:00 – 13:00 *Cold lunch*