

## Mini-Workshop: Entropies and Optimal Transport in Quantum Mechanics

**Thursday June 5, 2008**

- 8:00–8:55 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:55–9:00 *Welcome and Opening Remarks*
- 9:00–9:45 **Anton Arnold** (Technische Universität Wien)  
*Quantum Fokker-Planck models: global solutions, steady states, and large-time behavior*
- 9:50–10:05 *Break*
- 10:05–10:50 **Christian Ringhofer** (Arizona State University)  
*MAXIMUM ENTROPY CLOSURES FOR QUANTUM TRANSPORT IN CONFINED GEOMETRIES*
- 10:55–11:10 *Break*
- 11:15–11:55 **Christof Sparber** (University of Cambridge)  
*Stability of steady states in kinetic Fokker-Planck equations for Fermions and Bosons*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–2:45 **Peter Markowich** (University of Cambridge)
- 2:50–3:05 *Break*
- 3:05–3:50 **Irene Gamba** (University of Texas at Austin)  
*Discontinuous Galerkin Schemes for the Wigner-Fokker-Planck Equation*
- 3:50–4:05 *Break*
- 4:05–4:50 **Jose Carrillo** (Autonomous University of Barcelona)  
*Entropy and Optimal transport methods in Fokker-Planck equations for fermionic and bosonic particles*

**Friday June 6, 2008**

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:45 **Shi Jin** (University of Wisconsin-Madison)  
*Coherent semiclassical transport models for thin quantum barriers*
- 9:50–10:05 *Break*
- 10:05–10:50 **Weizhu Bao** (National University of Singapore)  
*Quantum transport and self-trapping in Bose-Einstein condensates*
- 10:55–11:10 *Break*

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11:15–11:55 **Jan Sprenger** (Technische Universität Wien)  
*Quantum Entropy*

12:00–1:30 *Lunch (on your own)*

1:30–2:30 *Panel Discussion*

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