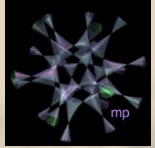




Andrejewski-Day

at the Faculty for Mathematics and Physics
University of Freiburg



Friday, May 18, 2012

PROGRAM

The mathematics of quantum transport

Invited lectures		
9:00- 9:45	Jean-Michel Bismut (Université Paris-Sud)	The hypoelliptic Laplacian
10:00-10:45	Fabio Benatti (Università di Trieste)	Non-Markovian quantum dynamics
10:45-11:15	Posters & Coffee break	
11:15-12:00	Thierry Paul (École Polytechnique Paris)	Surprises in semiclassical approximations
12:15-13:00	Maciej Zworski (UC Berkeley)	Semiclassical scattering and applications
13:00-14:30	Lunch	
Short presentations		
14:30-15:30	Philipp Hauke (ICFO Barcelona)	Non-Abelian gauge fields and topological insulators in shaken optical lattices
	Sam Genway (Univ. Nottingham)	Phase Transitions in Trajectories of a Superconducting Single-Electron Transistor Coupled to a Resonator
	Thomas Engl (Univ. Regensburg)	Semiclassical propagation in bosonic many particle systems
	Taketani, Bruno (Univ. Saarbrücken)	Long-distance entanglement between two defects embedded in a linear chain of ions
15:30-16:30	Posters & Coffee break	
16:30-17:45	James Hickey (Univ. Nottingham)	A stochastic viewpoint of non-equilibrium s-ensemble quantum master equations: From jump trajectories to homodyne detection
	Steffen Wißmann (Univ. Freiburg)	On the measure for quantum non-Markovianity: a simplification of the maximization procedure via geometrical considerations
	Daniel Manzano (Univ. Innsbruck)	Energy transport in quantum chains
	Federico Levi & Stefano Mostarda (FRIAS Univ. Freiburg)	Structural principles of efficient transport
	Pierre Lugan (École Polytechnique Fédérale de Lausanne)	Application of the kernel polynomial method to transport in disordered quantum systems
17:45-19:00	Posters & Refreshments	
from 19:00	Closing dinner	

Scientific Coordinators:

Andreas Buchleitner (Institute of Physics), Katrin Wendland (Institute of Mathematics)

Location: Albert-Ludwigs-Universität Freiburg, Institute of Physics, Hermann Herder-Str. 3

Further details: <http://home.mathematik.uni-freiburg.de/mathphys/konf/Andrejewski.html>

Walter und Eva Andrejewski-Stiftung