Erwin Schrödinger International Institute, Vienna

June 2 - June 6, Focus Week on

Nonequilibrium Processes

Program

Monday, June 2

09:30 - 10:30	D. RUELLE , Introductory lecture I: Nonequilibrium statistical mechanics and smooth dynamical systems
11:00 - 12:00	L. REY-BELLET Large deviations for billiards and nonuniformly hyperbolic dynamical systems
14:00 - 15:00	F. BONETTO Perturbative methods for dynamical systems theory and statistical mechanics
15:00 - 16:00	A. VULPIANI Some aspects of the fluctuation-dissipation relation
16:30 - 17:30	L.-S. YOUNG Reliability of neural oscillator networks

Tuesday, June 3

09:30 - 10:30	D. RUELLE, Introductory lecture II: Nonequilibrium statistical mechanics and smooth dynamical systems
11:00 - 12:00	L. RONDONI Onset of diffusive behavior in confined transport systems
14:00 - 15:00	E. PRESUTTI, Introductory lecture I: Persistence of randomness in macroscopic limits
15:00 - 16:00	D. SANDERS Rare events and long-range correlations in systems with many random walkers
16:30 - 17:30	D. MUKAMEL Ordering and criticality in one dimensional driven systems

Wednesday, June 4

09:00 - 10:00	E. PRESUTTI, Introductory lecture II: Persistence of randomness in macroscopic limits
10:30 - 11:30	G. JONA-LASINIO Nonequilibrium thermodynamics: a self-contained macroscopic description of diffusive systems
11:30 - 12:30	O. LANFORD Discretization of expanding maps and percolation on a tree

19:00 **Conference Dinner** at the Heurigen Mayer am Pfarrplatz (Beethovenhaus)
Pfarrplatz 2, 1190 Wien

Thursday, June 5

09:30 - 10:30	C.-A. PILLET, Introductory lecture I: C*-dynamical systems and nonequilibrium quantum statistical mechanics
11:00 - 12:00	B. SCHLEIN Dynamics of Bose-Einstein condensates
14:00 - 15:00	A. KUPIAINEN Diffusion of energy in a coupled map lattice
15:00 - 16:00	G. BENETTIN The two-dimensional vs the one-dimensional Fermi-Pasta Ulam problem
16:30 - 17:30	C.-A. PILLET, Introductory lecture II: C*-dynamical systems and nonequilibrium quantum statistical mechanics

Friday, June 6

09:30 - 10:30	A. POLITI Heat conductivity as a testing ground for the characterization of out-of-equilibrium steady states
11:00 - 12:00	Ph. JACQUET Transport properties of a chain of dynamical quantum dots
14:00 - 15:00	J.-P. ECKMANN A model of heat transport
15:00 - 16:00	P. GASPARD Heat conduction and Fourier's law in a class of many-particle dispersing billiards