Main Topics

Nonlinear Dynamics of Nanoscopic Systems: Scaling, Stochasticity, and Quantum Mechanics

Organization

Günter Radons, Benno Rumpf Physics Institute, Chemnitz University of Technology, 09107 Chemnitz, Germany

Heinz Georg Schuster Institute for Theoretical Physics, University of Kiel, 24098 Kiel, Germany

Conference Office

Angelique Gaida

Phone: +49 (371) 531 21870 Fax: +49 (371) 531 21959 E-mail: nldnano@tu-chemnitz.de

Internet

www.tu-chemnitz.de/physik/KSND/eng/nldnano.php

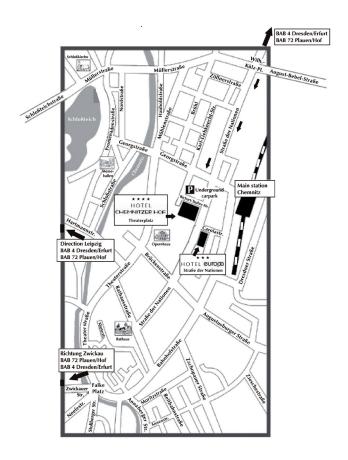
Conference Location

Hotel Chemnitzer Hof Theaterplatz 4 09111 Chemnitz Germany

Phone: +49 (371) 684 - 0 Fax: +49 (371) 6762587

E-mail: chemnitzer.hof@guennewig.de

Travel Information



The hotel Chemnitzer Hof is located in the inner city of Chemnitz near the main station, the opera house, and König-Albert-Museum - the City Art Gallery.

Conference Program (Updated August 23, 2006)

International Symposium

Nonlinear Dynamics of Nanosystems

August 28-30, 2006 Chemnitz, Germany





Sunday, August 27, 2006

18.00 Welcome Buffet

Monday, August 28, 2006		Tuesday, August 29, 2006		Wednesday, August 30, 2006	
8.00	Registration		Plenary Talks		Plenary Talks
8.30	Welcome and Greeting Words Heinz Georg Schuster, University of Kiel Dieter Happel, Prorector of Chemnitz University of	9.00	Excited-State Dynamics in Carbon Nanostructures David Tománek, Michigan State University, East	9.00	Nanoscale Fluid Dynamics David Erickson, Cornell University
	Technology Franz Dettenwanger, VolkswagenStiftung Plenary Talks		Lansing	9.50	Nonlinear Dynamics of Electromigration- Driven Crystal Steps
		9.50	The Stochastic Dynamics of Arrays of Micro and Nanoscale Cantilevers in a Viscous Fluid	10.40	Joachim Krug, University of Cologne Coffee Break
9.00	Nonlinearity: The Key to Creating and Detecting Mechanical Quanta		 Fluctuations from Dissipation Mark Paul, Virginia Tech, Blacksburg 		Casimir Forces and Geometry of
	Andrew Cleland, UC Santa Barbara	10.40	Coffee Break		Nanomechanical Systems Thorsten Emig, Universite Paris Sud
9.50	The Duffing Nonlinearity in Nanomechanical Systems Sequoyah Aldridge, Caltech, Pasadena	11.10	The Fluctuation and NonEquilibrium Free Energy Theorems - Theory and Experiment	12.00	Scale
10.40	Coffee Break		Denis Evans, The Australian National University, Canberra	12.50	Eckehard Schöll, Technical University of Berlin Lunch
11.10	Metastability and Structural Dynamics of Metal Nanowires Jérome Bürki, University of Arizona, Tucson	12.00	Nonequilibrium Nanosystems Pierre Gaspard, Universite Libre de Bruxelles	14.20	Nanoscale Optical Fields
12.00	Nonlinear Response of Driven Nanoscale Conductors	12.50	Lunch		Mark I. Stockman, Georgia State University, Atlanta
	Sigmund Kohler, University of Augsburg	14.20	Ultrasensitive Magnetic Resonance Detection with Micromechanical Cantilevers	15.10	Biomolecules as Nonlinear Oscillators: Life- Enabling Dynamics
12.50	Lunch		Chris Hammel, Ohio State University, Columbus		Igor Mezic, UC Santa Barbara
14.20	Dynamics of Nonlinear Coupled Nanomechanical Resonators Ron Lifshitz, Tel Aviv University	15.10	High-Frequency Dynamics and Phase Locking in Spin Transfer Nano-Oscillators Steve Russek, National Institute of Standards and Technology, Boulder	16.00	Coffee Break
				16.30	Round Table
15.10	Bonds that Strengthen under Force Viola Vogel, ETH Zürich	16.00	Coffee Break	19.00	Dinner
16.00	Coffee Break	16.30	Poster Session		
16.30	Short Poster Announcements	19.00	Conference Dinner		
19.00	Dinner				