



International Bunsen Discussion Meeting
November 1-4, 2015, Göttingen

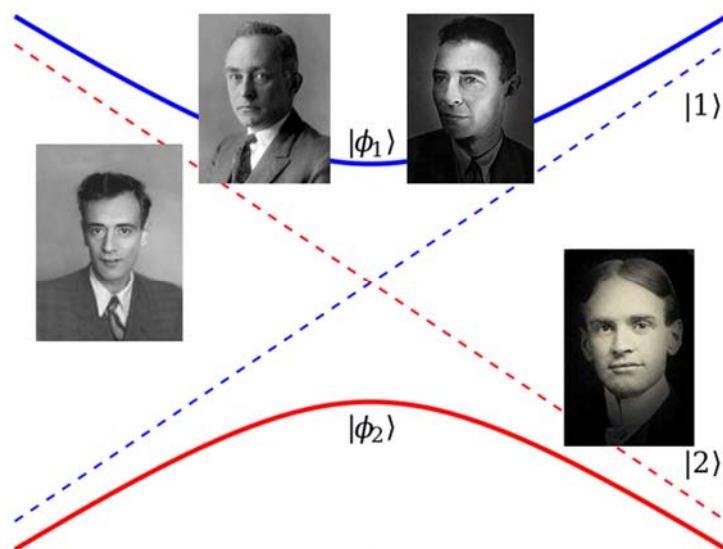


Max-Planck-Institut für biophysikalische Chemie



Niedersächsisches Ministerium
für Wissenschaft und Kultur

Nonadiabatic Effects in Chemical Kinetics, Dynamics, and Spectroscopy



Programme

Organizers: Jürgen Troe, Alec Wodtke, Jörg Schroeder
Meeting Office: Inge Dreger

Sunday, November 1

18:00	Informal Get Together
20:00	Symposium Concert

Monday, November 2

Morning Session

08:45	Opening Remarks
Theoretical Concepts (Chair: NN)	
09:00	Wolfgang Domcke (München)
	<i>Back to the Origins: Ultrafast Nonadiabatic Dynamics of Jahn-Teller Systems</i>
09:40	Evgeny Nikitin (Haifa)
	<i>Interplay between Landau-Teller and Landau-Zener Pathways in the Vibrational Relaxation of Open-shell Diatoms in Collisions with Atoms</i>
10:20	Coffee Break
10:50	Lorenz Cederbaum (Heidelberg)
	<i>Intermolecular Coulombic Decay and its Exploration by Short, Intense Light Pulses</i>
11:30	Anatoly Maergoyz (Göttingen)
	<i>Electronically Nonadiabatic Statistical Adiabatic Channel Model in Association Processes</i>
12:10	Samuel Meek (Göttingen)
	<i>Nonadiabatic Losses of Molecules from Chip-Based Microtraps</i>
12:35	Roman Wagner (Göttingen)
	<i>Surface Scattering Using Velocity Controlled Molecular Beams of Carbon Monoxide</i>
13:00	Lunch

Monday, November 2

Afternoon Session

Nonadiabatic Effects in Spectroscopy I (Chair: NN)	
14:30	Martin Quack (Zürich)
	<i>Rotational-Vibrational Nonadiabatic Coupling as a Mechanism for Intramolecular Energy Transfer and Symmetry Breaking</i>
15:10	Karl-Michael Weitzel (Marburg)
	<i>The role of rotation in proton transfer reactions</i>
15:40	Coffee Break
16:10	Frédéric Merkt (Zürich)
	<i>Nonadiabatic Effects in Molecular Hydrogen Revealed by Spectroscopic and Collisional Experiments</i>
16:50	Dan Harding (Göttingen)
	<i>Using Ion Imaging to Measure Velocity Distributions in Surface Scattering Experiments</i>
17:15	Jannis Neugeboren (Göttingen)
	<i>Ion Imaging of Trapping Desorption Kinetics</i>
17:40	Session Close

Tuesday, November 3

Nonadiabatic Effects in Spectroscopy II (Chair: NN)	
09:00	Martin Suhm (Göttingen)
	<i>Adiabatic and Nonadiabatic Cooling of Molecules Close to and Below their Zero Point Energy Level</i>
09:40	Lauri Halonen (Helsinki)
	<i>Nonadiabatic Effects in the Vibrational Spectroscopy of some Atmospherically Interesting Water Clusters</i>
10:20	Coffee Break
Nonadiabatic Processes in Physical Organic Chemistry I (Chair: NN)	
11:10	Helmut Schwarz (Berlin)
	<i>Thermal Hydrogen-atom Transfer from Methane: a Mechanistic Exercise</i>
11:50	Sason Shaik (Jerusalem)
	<i>Reactivity Patterns of Metal-Oxo Enzymes and Reagents</i>
12:30	Kawon Oum (Siegen)
	<i>UV-Vis Broadband Transient Absorption Studies of Apocarotenals</i>
13:00	Lunch
Nonadiabatic Processes in Physical Organic Chemistry II (Chair: NN)	
14:30	Albert Viggiano (Albuquerque)
	<i>Don't Fear the Pink Cloud: Lanthanide Chemi-Ionization Chemistry</i>
15:10	Simone Techert (Hamburg)
	<i>Studies of Nonadiabatic Processes with Free Electron Laser Radiation</i>
15:40	Coffee Break
16:10	Jeremy Harvey (Leuven)
	<i>Dynamics and Kinetics of Spin-forbidden Reactions: from the Gas Phase to Catalysis</i>
16:50	Jürgen Troe (Göttingen)
	<i>A Complex-Forming Bimolecular Ion-Molecule Reaction with Spin-Inversion</i>
17:30	Session Close

Wednesday, November 4

Nonadiabatic Effects in Gas-Surface Processes I (Chair: NN)	
09:00	Peter Saalfrank (Potsdam)
	<i>Nonadiabatic Molecular Dynamics at Surfaces</i>
09:40	Tim Schäfer (Göttingen)
	<i>Playing Squash with Molecules: Energy Transfer in Molecule-Surface Collisions</i>
10:20	Coffee Break
10:50	Daniel Auerbach (Göttingen)
	<i>Nonadiabatic Electronic Transitions Associated with Vibronic Energy Transfer: From Gas Phase to Surfaces</i>
11:30	Aleksandr Kandratsenka (Göttingen)
	<i>Nonadiabatic Effects in H/NO Scattering from a Au(111) Surface: What can be Learned from Molecular Dynamics Simulations</i>
12:10	Svenja Maria Janke (Göttingen)
	<i>H Atom Scattering from Au(111): The Importance of Nonadiabatic Effects</i>
12:35	Jan Geweke (Göttingen)
	<i>HCl Dissociation on Au(111)</i>
13:00	Lunch
Nonadiabatic Effects in Gas-Surface Processes II (Chair: NN)	
14:30	Hermann Nienhaus (Duisburg)
	<i>Experimental Evidence of Nonadiabatic Effects in Gas-Surface Interactions</i>
15:10	Christoph Lienau (Oldenburg)
	<i>Nonadiabatic Effects in the Ultrafast Light-to-Current Conversion in Polymers and Solar Cells</i>
15:35	Thomas Lenzer (Siegen)
	<i>Ultrafast Charge Carrier Dynamics at Sensitized Semiconductor Oxide Interfaces of Solar Cells</i>
16:00	Eckart Hasselbrink (Essen)
	<i>Nonadiabaticity in the Recombination Reaction of Hydrogen on Metal Surfaces</i>
16:40	Meeting Close