MOLIM 2017, Molecules in Motion

International Workshop on Molecular Quantum Dynamics and Kinetics (Working Group 2 of MOLIM, Time-dependent method developments)

ETH Zürich, Hönggerberg Campus, HCI Building, Vladimir-Prelog-Weg, Lecture Hall HCI J7

https://molim2017.ethz.ch, http://cost-molim.eu/

Tuesday 18 April through Thursday 20 April 2017

Tuesday	, 18 Apri	il 2017		
Session 1, Chairperson Martin Quack				
after 11:3	0	Welcome coffee and sandwich lunch for speakers (in front of Lecture Hall)		
12:30 -	- 12:50	Martin Quack Welcome and Introduction		
12:50 -	- 13:30	L1 Bill Poirier Exact Quantum Dynamical Treatment of Hydrogen-material Interactions		
13:30 -	- 14:10	L2 Jürgen Stohner Progress in synthesis, enantio-separation and determination of the absolute configuration of small chiral molecules		
14:10 -	- 14:50	L3 Emilio Martínez-Núñez Using chemical dynamics simulations to discover reaction mechanisms and solve the kinetics in reactive systems		
14:50 -	- 15:30	L4 Thomas Baumert Control of bound electrons in molecules with tailored light fields and of free electrons with chiral potentials		
15:30 -	- 16:00	Coffee Break		
Session 2, Chairperson Attila G. Császár				
16:00 -	- 16:40	L5 Tamás Szidarovszky Laser-induced alignment dynamics of polyatomic molecules		
16:40 -	- 17:20	L6 Stuart C. Althorpe Quantum statistics + classical dynamics: what is it?		
17:20 -	- 18:00	L7 Alberto García-Vela Quantum Coherent Control of the Behavior of a Resonance State		
18:00 -	- 18:40	L8 Gilberte Chambaud Catalytic oxidation reaction on modified graphene surface		
19:00 -	- 22:00	Conference Dinner and Welcome Dinner		

Wednesday 19	Anril 2017			
Wednesday, 19 April 2017 Session 3, Chairperson Sonia Grubišić or Gilberte Chambaud				
08:30 - 09:1	•			
09:10 - 09:5	L10 Majdi Hochlaf Vibrational quantum localization			
09:50 - 10:3	Control L11 Lauri Halonen Simple chemical processes on water, ice and quartz surfaces			
10:30 – 11:0	Coffee Break			
Session 4, Chairperson Jiří Vaníček				
11:00 – 11:4	L12 Ioannis Thanopulos Non-Markovian quantum emitter dynamics in a plasmonic environment			
11:40 – 12:2	L13 Klaus Braagaard Møller Ultrafast electronic and nuclear dynamics in photo-excited transition-metal complexes			
12:20 - 13:0	Classical Wigner model based on a Feynman path open polymer			
13:00 - 14:0	0 Lunch on Campus			
Session 5, Chairperson Bill Poirier				
14:00 - 14:4	L15 Frédéric Merkt High resolution spectroscopy of few electron molecules			
14:40 – 15:2	L16 Roberto Marquardt Full Quantum Calculations of the Diffusion of Particles on Surfaces			
15:20 – 16:0	L17 Maria Louisa Senent Far infrared spectral features of Ethylene Glycol isotopologues			
16:00 - 16:3	Coffee Break			
Session 6, Chai	person Frédéric Merkt			
16:30 – 17:1	Calculate Company Comp			
17:10 – 17:5	L19 Antonio J. C. Varandas Reaction dynamics within the Born-Oppenheimer approximation and beyond			
17:50 – 18:3	L20 Françoise Remacle Ultrafast Non Equilibrium Dynamics Induced By Attopulses			
19:00	Dinner (start before 19:00) on Campus			
19:30 – 21:0	Posters and Discussions (near Lecture Hall)			

Thursday, 20 Apr	ril 2017			
Session 7, Chairperson Roberto Marquardt				
08:30 - 09:10	L21 Fabien Gatti Multi-dimensional quantum mechanical treatment of an electron transfer in plant cryptochrome and to the control of the ring opening in spiropyrane molecules			
09:10 - 09:50	L22 Nađa Došlić Photochemical Study of 1- and 2-Naphthols and their Water Clusters			
09:50 – 10:30	L23 Niels Engholm Henriksen Laser-induced Quantum Control of Molecular Processes			
10:30 – 11:00	Coffee Break			
Session 8, Chairpe	erson Ruth Signorell			
11:00 – 11:40	L24 Rita Prosmiti Quantum computations of nanoconfined molecules			
11:40 – 12:20	L25 Octavio Roncero Reactive Collisions at Cold Temperatures of Interstellar Cloulds			
12:20 – 13:00	L26 Graham Worth Quantum molecular dynamics simulations of polyatomic molecules in a manifold of coupled states			
13:00 - 14:00	Lunch on Campus			
Session 9, Chairperson Isabelle Kleiner or Jürgen Stohner				
14:00 - 14:40	L27 Magnus Gustafsson Classical dynamics methods for radiative processes in gases: strengths and weaknesses			
14:40 – 15:20	L28 Ruth Signorell Low-energy electron transport in water: Aerosol droplets, molecular clusters, and liquid bulk			
15:20 – 16:00	L29 Roland Mitric Non-adiabatic energy transport dynamics in molecular assemblies and nanostructures			
16:00 – 16:30	Coffee Break			
Session 10, Chairperson Sergey Yurchenko or Martin Quack				
16:30 – 17:10	L30 Christopher J. Stein Vibrational Density Matrix Renormalization Group			
17:10 – 17:50	L31 Leticia González Light triggered dynamics in DNA building blocks			
17:50 – 18:30	L32 Georg Seyfang Intramolecular vibrational energy redistribution in HCCCN			
19:00	Dinner (on Campus, starts before 19:00 and informal Speakers Dinner)			
Friday, 21 April 2017				
Departure after Breakfast				