Summer School on Interatomic Coulombic Decay (ICD)

Bad Honnef, Germany, 1st – 5th September 2014

Program

Monday, 1st September

12:30 – 14:00 Lunch

14:00 – 14:30 Reinhard Dörner

Welcome

14:30 – 15:30 Lenz Cederbaum

Introduction

16:00 – 17:00 Uwe Hergenhahn

A review of experiments on ICD

17:00 – 18:00 Kirill Gokhberg

Introduction to ab initio methods I

18:00 – 19:30 Dinner

20:00 – 21: 00 Kiyoshi Ueda

Experimental investigation of ICD: from SR to FEL

Tuesday, 2nd September

8:00 – 9:00 Breakfast

9:00 – 10:00 Andreas Dreuw

Introduction to ab initio methods II

10:00 – 11:00 Richard Saykally

Solvent-driven ionic processes in water: Surface ion adsorption and cation-cation pairing studied by X-ray absorption and UV-SHG spectroscopy

11:30 – 12:30 Edvardas Narevicius

Chemistry with cold molecules: from universality to quantum resonances

12:30 – 14:00 Lunch

14:30 – 15:30 Musahid Ahmed

Probing proton transfer, ion chemistry, and excitonic charge transfer in clusters with VUV radiation

16:00 – 17:00 Stephan Denifl

Cluster Physics

17:00 – 18:00 Melanie Mucke

Experiments with magnetic bottles

18:00 – 19:30 Dinner

20:00 – Poster Session I

Wednesday, 3rd September

8:00 – 9:00 Breakfast

9:00 – 10:00 Premysl Kolorenc

Ab initio calculation of electronic decay rates I

10:00 – 11:00 Bela Viskolc

Molecular aging: Free radicals in oxidation processes and

oxidative stress

11:30 – 12:30 Ulrike Frühling

Light Sources

12:30 – 14:00 Lunch

14:00 – 18:00 Excursion – Drachenfels castle and surroundings

(All project leaders – Preparing the follow-up proposal starting 16:00)

18:00 – 19:30 Dinner

Thursday, 4th September

8:00 – 9:00 Breakfast

9:00 – 10:00 Premysl Kolorenc

Ab initio calculation of electronic decay rates II

10:00 – 11:00 Till Jahnke

TBA

11:30 – 12:30 Nicolas Sisourat

Nuclear dynamics on resonance potential surfaces

12:30 – 14:00 Lunch

14:30 – 15:30 Bernd Winter

Proton dynamics and ICD in hydrogen-bonded solutes in aqueous solutions: Core-level photoelectron spectroscopy

16:00 – 17:00 Andre Knie

Fluorescence detection

17:00 – 18:00 Petr Slavicek

Photoabsorption, photoionization and autoionization: Electronic

vs. nuclear aspects

18:00 – 19:30 Dinner

20:00 – Poster Session II

Friday, 5th September

8:00 – 9:00 Breakfast

9:00 – 10:00 Annika Bande

Electron dynamics of ultrafast energy transfer in clusters of real and artificial atoms induced by long-range electron correlation

10:00 – 11:00 Paola Bolognesi

Ion impact fragmentation of molecules and clusters of biological interest

11:00 – 12:00 Reinhard Dörner

The COLTRIMS reaction microscope: The truth behind the glamour pics

12:00 – 12:30 Uwe Hergenhahn

Perspectives

12:30 – 14:00 Lunch

List of participants

Ahmed Musahid	LBNL, USA
Al Maalouf Elias	Uni Innsbruck
Bande Annika	Uni Heidelberg
Ben Ltaief Ltaief	Uni Kassel
Bolognesi Paola	CNR-ISM, Rome
Cederbaum Lenz	Uni Heidelberg
Denifl Stephan	Uni Innsbruck
Dörner Reinhard	Uni Frankfurt
Dreuw Andreas	Uni Heidelberg
Ehresmann Arno	Uni Kassel
Frühling Ulrike	Uni Hamburg
Gokhberg Kirill	Uni Heidelberg
Hans Andreas	Uni Kassel
Hergenhahn Uwe	Helmholtz-Zentrum Berlin
Hollas Daniel	Inst. Chemical Techn., Praque
Jabbari Ghazal	Uni Heidelberg
Jahnke Till	Uni Frankfurt
Karimi Fawad	Uni Hamburg
Kim Hong Keun	Uni Frankfurt
Knie André	Uni Kassel
Kolorenc Premysl	Charles University Praque
Miteva Tsveta	Uni Heidelberg
Mucke Melanie	Uppsala University
Narevicius Edvardas	Weizmann Institute of Science
Neustetter Michael	Uni Innsbruck

Oghbaie Shabnam	Lund University
Ovcharenko Yevheniy	TU-Berlin
Rist Jonas	Uni Frankfurt
Saykally Richard	UC Berkeley
Schneider Matthias	IWR, Uni Heidelberg
Schnorr Kirsten	MPI Heidelberg
Seidel Robert	Helmholtz-Zentrum Berlin
Sisourat Nicolas	Uni Pierre et Marie Curie
Slavicek Petr	Inst. Chemical Techn., Praque
Stumpf Vasili	Uni Heidelberg
Takanashi Tsukasa	Tohoku University
Trinter Florian	Uni Frankfurt
Ueda Kiyoshi	Tohoku University
Unger Isaak	Helmholtz-Zentrum Berlin
Viskolcz Bela	University of Szeged
Wechselberger Natascha	Uni Frankfurt
Weller Miriam	Uni Frankfurt
Wenzel Jan	IWR, Uni Heidelberg
Wiegandt Florian	Uni Frankfurt
Williams Joshua	Uni Frankfurt
Winter Bernd	Helmholtz-Zentrum Berlin