

Sunday June 15

17:00 Registration open

19:00 Welcome reception

Monday June 16

8:45 Welcome

9:00-9:45 (Invited)

Dennis W. Lindle

Department of Chemistry, University of Nevada, Las Vegas, NV, USA

Nondipole Effects in Soft-X-Ray Photoemission from Atoms and Molecules

9:45-10:30 (Invited)

Edwin Kukk

Turku University, Turku, Finland

Recoil effects in high-energy molecular core-level photoemission

10:30-11.00 Coffee break

11:00-11:45 (Invited)

Olle Björneholm

Department of Physics and Materials Science, Uppsala University, Uppsala, Sweden

Clusters and liquids: Electronic and geometric structure probed by synchrotron radiation

11:45-12.05 (Hot Topic)

Manfred Faubel

Max Planck Institute, for Dynamics and Self-Organization, D-37073 Göttingen, Germany

ESCA Studies of Protonation/Deprotonation in Aqueous Solutions

12:05-12:25 (Hot Topic)

Paolo Piseri¹; Tommaso Mazza¹; Marcello Coreno²; Gero Bongiorno¹; Luca Ravagnan¹;

Michele Devetta¹; Matteo Amati¹; Cristina Lenardi³; Monica de Simone⁴; Paolo Milani¹

¹Università degli Studi di Milano, Dipartimento di Fisica & CIMAINA, Milano, Italy; ²CNR -

IMIP, Roma, Italy; ³Università degli Studi di Milano, Dipartimento di Farmacologia & CIMAINA,

Milano, Italy; ⁴INFN - CNR, TASC, Trieste, Italy

Transition metal and metal-oxide clusters in a supersonic beam probed by multicoincidence technique after core-level photoionization.

12:30-14:00 Lunch

14:00-14:45 (Invited)

Karsten Horn

Fritz-Haber-Institut of the Max Planck Society, Berlin, Germany

Electronic structure of graphene revealed by photoelectron spectroscopy

14:45-15:30 (Invited)

Giancarlo Panaccione

Lab. TASC INFM CNR, Trieste, Italy

Hard X-ray Photoemission Spectroscopy on complex systems: from surface to bulk sensitivity

15:30-16:00 Coffee break

16:00-16:45 (Invited)

Daniel Rolles

Western Michigan University, Physics Department, Kalamazoo, MI, USA

Electron-ion coincidence spectroscopy on rare gas clusters

16:45-17:05 (Hot Topic)

Antti Kivimaki¹; Jesus Alvarez Ruiz²; Marcello Coreno³; Marek Stankiewicz⁴; Monica de Simone⁵; Svante Svensson⁶; Giovanna Fronzoni⁷; Piero Decleva⁷

¹CNR-INFM, Laboratorio Nazionale TASC, Trieste, Italy; ²IQFR-CSIC, Departamento de Quimica Laser, Madrid, Spain; ³CNR-IMIP, Roma, Italy; ⁴Uniwersytet Jagiellonski, Instytut Fizyki, Krakow, Poland; ⁵INFM-CNR, Laboratorio Nazionale TASC, Trieste, Italy; ⁶Uppsala University, Department of Physics, Uppsala, Sweden; ⁷Universita di Trieste, Dipartimento di Scienze Chimiche, Trieste, Italy

A comparative photoionization study of sulfur L levels in the SF₅CF₃ and SF₆ molecules

17:05-17:25 (Hot Topic)

Laurent Nahon¹; Gustavo Garcia¹; Chris Harding²; Ivan Powis²

¹SOLEIL l'Orme des Meurisiens BP 48 St Aubin, Experimental Division, Gif sur Yvette, France;

²University of Nottingham, School of Chemistry, Nottingham, United Kingdom

Photoelectron circular dichroism on pure enantiomers of chiral species : a very fine probe of molecular structure

Tuesday June 17

9:00-9:45 (Invited)

Michael Meyer

LIXAM/CNRS, Orsay, France

Atomic Photoionization in combined XUV and Optical Radiation Fields

9:45-10:30 (Invited)

Artem Rudenko

Max-Planck Institut für Kernphysik, Heidelberg, Germany

Double ionization of atoms by two or many photons

10:30-11.00 Coffee break

11:00-11:45 (Invited)

Robert Moshhammer

Max-Planck-Institut für Kernphysik, Heidelberg, Germany

Molecules in the Focus of Intense Laser Pulses

11:45-12.05 (Hot Topic)

D.R. Batchelor¹; M. Häming²; F. Holch²; J. Zioff²; C. Hub³; A. Schöll²; T. Schmidt¹; R. Follath⁴; C. Jung⁴; R. Fink³; M. Knupfer⁵; H. Freund¹; F. Reinert²; E. Umbach⁶

¹Fritz-Haber-Institute, Chemical Physics, Berlin, Germany; ²Universität Würzburg, Experimentelle Physik II, Würzburg, Germany; ³Universität Erlangen-Nürnberg, Physikalische Chemie II, Erlangen, Germany; ⁴BESSY GmbH, Berlin, Germany; ⁵IFW, Dresden, Germany;

⁶Forschungszentrum, Karlsruhe, Germany

Soft X-Ray Dispersive Photoelectron Spectroscopy

12:05-12:25 (Hot Topic)

Ulrich Warring; Carlo Canali; Arne Fischer; Raoul Heyne; Christoph Morhard; Alban Kellerbauer

Max Planck Institute for Nuclear Physics, Heidelberg, Germany

Spectroscopy of ¹⁹²Os⁻ and a route to laser-cooled negative ions

12:30-14:00 Lunch

14:00-14:45 (Invited)

Arvinder Sandhu

University of Arizona, Tucson, USA

Understanding real time dynamics of highly-excited molecular ion states using femtosecond EUV sources

14:45-15:30 (Invited)

Per Johnsson

FOM Institute for Atomic and Molecular Physics, Amsterdam, Netherlands

Ultrafast electron dynamics studied using attosecond and free electron lasers

15:30-16:00 Coffee break

16:00-16:45 (Invited)

Michele RF Siggel-King

Daresbury Laboratory, Daresbury, Warrington, United Kingdom

High-resolution ro-vibrational autoionisation of H₂/D₂ involving transitions beyond the Born-Oppenheimer approximation

16:45-17:05 (Hot Topic)

Per Linusson¹; Lorian Storchi²; Filip Hejlikensjoeld¹; Egil Andersson¹; Mohammed Elshakre³; John H.D. Eland⁴; Leif Karlsson¹; Jan-Erik Rubensson¹; Francesco Tarantelli²; Raimund Feifel¹

¹Department of Physics and Material Sciences, Uppsala University, Uppsala, Sweden;

²Dipartimento di Chimica, Universita di Perugia, Perugia, Italy; ³Department of Physics, Stockholm University, Stockholm, Sweden; ⁴Physical and Theoretical Chemistry Laboratory, Oxford University, Oxford, United Kingdom

Double photoionisation of thiophene and bromine- substituted thiophenes

17:05-17:25 (Hot Topic)

Rainer Hentges¹; Axel Reinköster¹; Markus Braune¹; Sanja Korica¹; Burkhard Langer²; Oliver Kugeler³; Uwe Hergenhanh⁴; Uwe Becker¹

¹Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany; ²Freie Universität Berlin, Institut für Chemie und Biochemie, Berlin, Germany; ³BESSY GmbH, Berlin, Germany; ⁴MPI für Plasmaphysik, München, Germany

Electron tunnelling studied by core-hole clock-based Doppler electron-spectroscopy

Wednesday June 18

9:00-9:45 (Invited)

Nikolay Kabachnik

Moscow State University, Institute of Nuclear Physics, Moscow, Russian Federation

Attosecond chronoscopy: Probing the time evolution of strong-field atomic photoionization.

9:45-10:30 (Invited)

Masahiro Ehara

Kyoto University, Department of Synthetic Chem. and Biological Chem., Katsura, Nishikyo-ku, 615-8510, Japan

Theoretical spectroscopy of the inner-shell electronic processes: SAC-CI study

10:30-11.00 Coffee break

11:00-11:45 (Invited)

G. Prümper

Tohoku University, IMRAM, 980-8577 Sendai, Japan

Ionization and break-up processes of molecules exposed to soft x-rays or intense laser fields

11:45-12.05 (Hot Topic)

Mohamed E Madjet¹; Himadri S Chakraborty²; Jan M Rost³; Steven T Manson⁴

¹Freie Universitaet, Institut für Chemie, Berlin, Germany; ²Northwest Missouri State University, Chemistry and Physics, Maryville, Missouri, USA; ³Max-Planck-Institut für Komplexer Systeme, Dresden, Germany; ⁴Georgia State University, Physics and Astronomy, Atlanta, Georgia, USA

Theoretical studies of the photoionization of confined atoms

12:05-12:25 (Hot Topic)

Victor Kimberg¹; Nobuhiro Kosugi¹; Faris Gel'mukhanov²

¹Institute for Molecular Science, Okazaki 444-8585, Japan; ²Royal Institute of Technology, Theoretical Chemistry, Stockholm 106-91, Sweden

Theory of angle-resolved photo-ion yield spectroscopy (ARPIS) for inner-shell excitation: acetylene 1s- \rightarrow π^* transition

12:30-14:00 Lunch

14:00-17:00

Kai Siegbahn Memorial Symposium

14:00-14:15 Introduction

14:15-14:45 *Nils Mårtensson*

Department of Physics and Material Sciences, Uppsala University, Sweden

From monochromatized X-rays to advanced synchrotron radiation sources

14:45-15:15 *Svante Svensson*

Department of Physics and Material Sciences, Uppsala University, Sweden

ESCA applied to free molecules: decades in resolution

15:15-15:45 coffee break

15:45-16:15 *Jan-Erik Rubensson*

Department of Physics and Material Sciences, Uppsala University, Sweden

Soft X-ray emission: an *in situ* probe for electronic structure

16:15-16:45 *Hans Siegbahn*

Department of Physics and Material Sciences, Uppsala University, Sweden

Electron spectroscopy for chemical applications: Liquids and vapour interfaces

18:00 Banquet at Sala Silvermine

Thursday June 19

9:00-9:45 (Invited)

Paola Bolognesi

CNR-IMIP, Area della Ricerca di Roma 1, Monterotondo Scalo (Roma), Italy

Site - and - state selective study of the dynamical effects of molecular inner shell ionisation and decay via coincidence experiments

9:45-10:30 (Invited)

Yasumasa Hikosaka

Institute for Molecular Science, UVSOR, Okazaki, Japan

Electron coincidence study on multiple photoionization dynamics in atoms

10:30-11.00 Coffee break

11:00-11:45 (Invited)

Norio Saito

National Institute of Advanced Industrial Science, National Metrology Institute of Japan, Tsukuba, Japan

Interatomic Coulombic decay following the Auger decay in rare-gas dimers

11:45-12.05 (Hot Topic)

Oksana Travnikova¹; Denis Céolin²; Zhuo Bao¹; Takahiro Tanaka³; Hironobu Fukuzawa⁴; Kiyoshi Ueda⁴; Maria Novella Piancastelli¹

¹Uppsala University, Dept. of Physics, Uppsala, Sweden; ²Lund University, Dept. of Synchrotron Radiation Research, Lund, Sweden; ³Sophia University, Dept. of Physics, Tokyo, Japan; ⁴Tohoku University, Multidisciplinary Research for Advanced Materials, Sendai, Japan

Core-hole induced ultrafast isomerization of acetylacetone probed by resonant Auger spectroscopy

12:05-12:25 (Hot Topic)

Alexandre F. Lago¹; Reinaldo L. Cavasso-Filho¹; Arnaldo N. de Brito²

¹Universidade Federal do ABC, Centro de Ciências Naturais e Humanas, Santo André - SP, Brazil;

²Laboratório Nacional de Luz Síncrotron (LNLS), Campinas - SP, Brazil

Investigation of the valence and inner shell dissociation dynamics of sulfur-containing amino acids photo-excited by synchrotron radiation

12:30 Conclusion