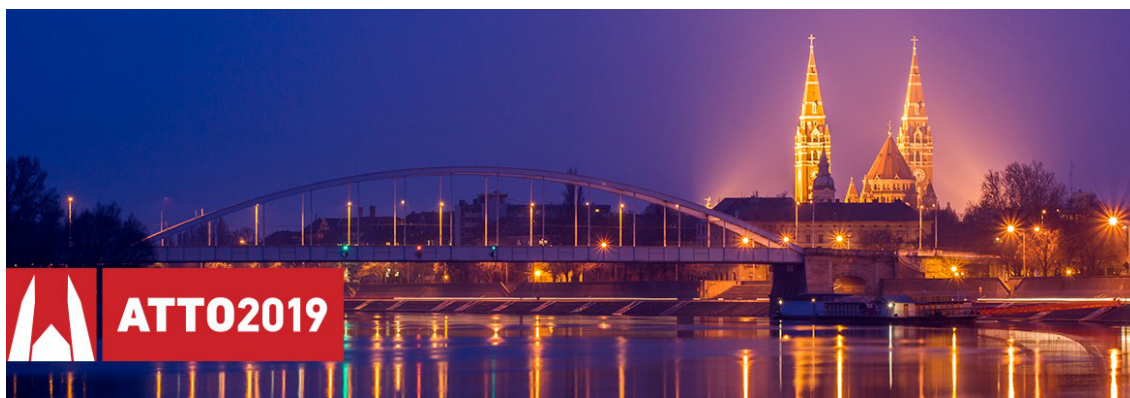


## **Session Program**

**1-5 Jul 2019**



# **7th International Conference on Attosecond Science and Technology**

## **Poster session 2**

University of Szeged Congress Centre  
Ady Square 10., 6722 Szeged, Hungary

## Wednesday 3 July

18:00

### Poster session 2: Wednesday poster session with sandwiches

**Poster Session** | **Location:** University of Szeged Congress Centre, Ady Square 10., 6722 Szeged, Hungary

#### High Repetition Rate Attosecond Pulse Source for Coincidence Spectroscopy

**Speaker**

Dominik Ertel

#### First Attosecond Pulses in ELI-ALPS High Repetition Rate Beamline

**Speaker**

Miklós Füle

#### Asymmetry of the Photoelectron Momentum Distribution from Molecular Ionization in Elliptically Polarized Laser Pulses

**Speaker**

Dr Yanan Qin

#### Study on XUV Photon Flux Contributed by Phase-matched Off-axis High-order Harmonic Generation (HHG)

**Speaker**

Dr Lifeng Wang

#### Two-Color High-Harmonic Spectroscopy of Liquids

**Speaker**

Dr Tran Trung Luu

#### Detecting and Characterizing the Nonadiabaticity of Laser-Induced Quantum Tunneling

**Speaker**

Siqiang Luo

#### HHG-Driven Photoionization of Noble Gaseous Atoms Investigated with Newly-Built Reaction Microscope in Lanzhou

**Speakers**

Prof. Shaofeng Zhang, Prof. Xinwen Ma

#### Strong-field Dynamics Driven by Ultrafast Hyper-Gaussian Pulses in Cascade Three-level System

**Speaker**

Dr Ji-Cai Liu

#### Isotope Effects on the Ionization of Hydrogen Molecular Ions in Strong Laser Fields

**Speaker**

Liang Xu

#### Optical Lasing during Laser Filamentation in the Nitrogen Molecular Ion: Rotational Inversion

**Speakers**

Dr Felipe Morales, Dr Maria Richter

**Photoionization Time Delay in Xenon 4d Probed by Coincidence Spectroscopy****Speaker**

Shiyang Zhong

**Enhancement and Spatial Manipulation of High Harmonics in Crystals****Speaker**

Ms Shatha Kaassamani

**Photoelectron Holography of Noble Gas Atoms****Speaker**

Attila Tóth

**XUV and Soft X-ray Transient Absorption Spectroscopy of Strong-Field Excited Molecules****Speaker**

Mr Danylo Matselyukh

**Spatio-temporal Characterization of a High Repetition Rate, Few-cycle, CEP-stable OPCPA Laser****Speaker**

Dr Chen Guo

**Selection Rules in HHG: Unified Microscopic-macroscopic Group Theory and Observation of New Selection Rules****Speaker**

Mr Gavriel Lerner

**Ultrafast Intramolecular Electron Transfer in Dye-sensitized Solar Cells: A Computational Perspective****Speaker**

Ms Kalyani Chordiya

**Spectral Variation of the Driver after HHG in Long Medium: Correlation to Conversion Efficiency and Harmonic Spectral Shift****Speaker**

Dr Jaroslav Nejd

**High Harmonic Generation Gas Cell for High Repetition Rate Secondary Sources****Speaker**

Mr Zoltán Filus

**A Real-Space Perspective On High Harmonic Generation In Solids****Speaker**

Guilmot Ernotte

**Quantum Path Interferences in High-Harmonics Generated by Impulsively Aligned N<sub>2</sub> Molecules****Speaker**

Dr Ioannis Lontos

**High Harmonic Generation in 2D and 3D Semiconductors**

**Speakers**

Ms Shatha Kaassamani, Dr David Gauthier

**High Harmonic Generation and Applications at ELI Beamlines****Speaker**

Dr Ondřej Hort

**Multiple Ionization of Ar in Strong Elliptically Polarized Laser Fields****Speakers**

Ms Zhao Xinning, Luo Sizuo, Ding Dajun

**Probing Molecular Influence on Photoemission Delays****Speaker**

Dr Shubhadeep Biswas

**Towards Intense Isolated Attosecond Pulses by Waveform Synthesis****Speaker**

Alice Autuori

**Origin of Strong-Field Induced Low-Order Harmonic Generation in Amorphous Solids****Speaker**

Benjamin Liewehr

**Transient Optical Gain in Solids after Strong-field Excitation****Speaker**

Mr Muhammad Qasim

**Angle-resolved Photoemission Delays in Noble Gases and Molecules****Speaker**

Mr Daniel Hammerland

**ELI-ALPS SYLOS GHHG Beamlines: Optimizing Generation Conditions for High-power Laser Pulses****Speaker**

Balázs Nagyillés

**Effects of the Pump Wavelength on Laser-Induced Ultrafast Demagnetization****Speaker**

Katherine Légaré

**Seemingly Anomalous Electronic Signature in oriented Chiral Molecules upon Ultrafast laser****Speaker**

Dr Gopal Dixit

**Angularly Resolved Two-photon Above-threshold Ionization of Helium****Speaker**

Dr Diego I. R. Boll

**Spatiotemporal Coupling of Attosecond Pulses****Speakers**

Mr Hampus Wikmark, Prof. Mette B. Gaarde

## **Detection of Electronic and Lattice Dynamics through Attosecond X-ray Absorption Spectroscopy**

### **Speaker**

Mr Nicola Di Palo

## **Towards a mW-scale Attosecond Source**

### **Speaker**

Dr Christoph M. Heyl

## **The Influence of Many-Electron Atoms Polarization in a Strong Laser Field on the High-Order Harmonic Generation**

### **Speaker**

Dr Nikolai V. Vvedenskii

## **Universal Pulse Characterization Method for a Multi-octave Wavelength Range from UV to IR**

### **Speaker**

Mr Wosik Cho

## **ATTOLAB SE10: a Versatile and Integrated Beamline for Attosecond Physics on Gases and Surfaces**

### **Speaker**

David Bresteau

## **Resonant Faraday Effect Using High Order Harmonics for the Investigation of Ultrafast Demagnetization**

### **Speaker**

Dr Guillaume Lambert

## **Ab Initio Approach to Ultrafast Spectroscopy with Stochastic Time-Dependent Density Functional Theory and Gauge-Including Projector Augmented Wave Method**

### **Speaker**

Stanislav Kruchinin

## **Nonlinear Fourier Transform Spectroscopy of Acetylene by Intense Attosecond Pulse Trains**

### **Speaker**

Mr Takuya Matsubara

## **Cooper Minimum in Singly Ionized and Neutral Argon**

### **Speaker**

Dr Ola Hassouneh

## **Strong-field-induced Electron and Nuclear Dynamics in Nitric Oxide Probed by Attosecond Soft X-ray Absorption Spectroscopy**

### **Speaker**

Mr Nariyuki Saito

## **Tailoring Caustics in High-harmonic Generation with Phase-controlled Multi-colour Fields**

### **Speaker**

Mr Sambit Mitra

**Subcycle Transfer of Linear Momentum in Nondipole Tunnel Ionization****Speaker**

Hongcheng Ni

**High-order Harmonic Generation in Graphene Under Local Ultrahigh Pressure****Speaker**

Giovanni Consalvo Cistaro

**Time-resolved Soft X-Ray Transient Absorption in the Liquid Phase****Speaker**

Dr Adam Smith

**Observation of Inter-Channel Coupling in Photoionization Delays of Carbon Dioxide****Speaker**

Mr Andrei Kamalov

**High Resolution Mass Spectrometry and Velocity Map Imaging for Ultrafast Electron Dynamics in Biomolecules****Speaker**

Mr Krishna Chaitanya Saraswathula

**Sub-cycle Electron Dynamics in the Generation of Below Threshold Harmonics****Speaker**

Prof. Zhinan Zeng

**High-energy Ultrafast Mid-IR Optical Parametric Amplifier for Strong-Field Science****Speaker**

Mr Prabhash Prasannan Geetha

**Sub-cycle Control Electron Localization of  $H_2$  in Multicycle Laser Fields****Speaker**

Dr Sizuo Luo

**Nonlinear Fourier Transform Spectroscopy of  $O_2$  with Intense Attosecond Pulse Trains****Speaker**

Dr Shinichi Fukahori

**Ultrafast Dissociation of OCS Influenced by Neighbor Ion  $OCS^{\{(1,2)+\}}$  in a Dimer****Speaker**

Mr Xitao Yu

**Interference Signatures from Kramers-Henneberger Atoms****Speaker**

Mr Pei-Lun He

**Nonsequential Double Ionization of Helium in IR+XUV Two-color Laser Fields****Speaker**

Dr Bingbing Wang

**Ultrafast Electron Dynamics in Relativistic Intensity Laser Plasma Interaction Revealed by Coherent THz Transition Radiation**

**Speaker**

Sudipta Mondal

**Coherent Control of Extreme-ultraviolet Emission Generated through Frustrated Tunneling Ionization****Speaker**

Dr Hyeok Yun

**High Order Harmonic Generation in an Active Grating****Speaker**

Thierry Ruchon

**High Harmonic Generation on Noble Gas Clusters****Speaker**

Mr Balázs Bódi

**Photon Gas in Plasma: Thermodynamics and Bose-Einstein Condensate****Speaker**

Peter Mati

**High Power 1 TW Ti:sapphire Laser at 1 kHz for High Energy High Harmonic Generation****Speaker**

Prof. Hao Teng

**Coherent Synchrotron Emission Source from Few Cycle Laser Driven Relativistic Surface****Speaker**

Mojtaba Shirozhan

**Decomposition of AC Stark Effect and Interference Signals in the Temporal and Spectral Response in Attosecond Transient Absorption Spectroscopy****Speaker**

Lorenz Drescher

**Selective Electron Emission in XUV+IR Photoionization****Speaker**

Renata Della Picca

**Enhancement of High Harmonics Emission in Transmission by Surface Plasmon Polariton****Speaker**

Chaoneng Wu

 **$H_2^+$  Dissociation in Strong Laser Fields****Speaker**

Prof. Feng He

**Characterization of Attosecond Pulse Train using RABBITT Technique****Speaker**

Harshitha Nandiga Gopalakrishna

**First Results on Single Ionization of Helium by Extreme Ultraviolet Photons at Lanzhou**

**Speakers**

Prof. Shaofeng Zhang, Prof. Xinwen Ma

**NewStock, a Time-dependent Close-coupling Program for Atomic Ionization****Speaker**

Dr Luca Argenti

**Analysis of Photoionization Time Delay Using R-matrix Method****Speaker**

Dr Jinlei Liu

**High-order Harmonics as Induced by a Quantized Field: a Phase-space Picture****Speaker**

Dr Péter Földi

**Ultrafast Background-Free Detection of Ring Currents by Symmetry Breaking High Harmonic Spectroscopy****Speaker**

Mr Ofer Neufeld

**Measurement of Attosecond Electron Pulses Emitted from Metallic Nanotips****Speaker**

Mr Hee-Yong Kim

**Phase Control of Complex Fano Resonances****Speaker**

Mr Nicola Mayer

**Influence of Vacancy-Defect in Solid High-Harmonic Generation****Speaker**

Mr Adhip Pattanayak

**Polarization-state-resolved High-harmonic Spectroscopy on Crystalline Solids****Speaker**

Mr Nicolai Klemke

**Artifact-free XUV Coherence Tomography by One-dimensional Phase Retrieval****Speaker**

Martin Wünsche

**Spatio-Temporal Dynamics in Femtosecond Filamentation****Speaker**

Mrs Lana Neoricic

**Photodissociation Dynamics of the LiF Molecule****Speaker**

Dr Attila Tóth

**Surface High Harmonics Using a Long Focusing Length****Speakers**

Mr Mingyuan Shi, Mr Ross McHugh

**Ultrafast Electronic Decay through Carbon Chains**



**Speaker**

Dr Alexander Kuleff

**Post-Compression of Pulses from an Yb Amplifier to 25 fs at 40 mJ****Speaker**

Paolo Carpeggiani

**Generation of Terahertz radiation Using Large Aperture Photoconductive Antennas and Subps KrF Lasers****Speaker**

Mr Zsolt Kovács

**On the Theory of Attosecond Interferometry Experiments for Liquid Water****Speaker**

Hans Jakob Wörner

**Time Resolved Photoelectron Circular Dichroism of Fenchone at FERMI****Speaker**

Davide Faccialà

**An Intense Attosecond Light Source for Time-resolved Photodissociation Studies in Large Molecules****Speaker**

Mr Jasper Peschel

**Angularly Resolved RABBITT at  $2\omega$ : Attosecond Pulses Measurement & Attosecond Signature of the  $1s3p$  Resonance of Helium****Speakers**

Dr Vincent Lorient, Marius Herve

**Radially Polarized Pulses Compression****Speaker**

Chunmei Zhang

**Single-Image Measurement of an Isolated Attosecond Pulse****Speaker**

Dr Donghyuk Ko

**Self-referenced Spatio-temporal Characterization of Few-cycle Pulses****Speaker**

Dr Tobias Witting

**Ultrafast Electron Dynamics and High Harmonic Generations in Novel Two-dimensional Materials****Speaker**

Dr Mousumi Upadhyay Kahaly

**A Geometric Perspective of Photoelectron Circular Dichroism****Speaker**

Mr Andres Ordonez

**Following Phonon Dynamics in Solids Using High-Harmonic Spectroscopy**

**Speaker**

Tran Trung Luu

**Central Laser Facility Artemis Upgrade: New Capabilities for X-Ray Spectroscopy****Speaker**

Dr Adam Wyatt

**Reconstruction of Tunneling Time and Exit Momentum in Strong Field Ionization, Based on Phase Space Methods****Speakers**

Szabolcs Hack, Attila Czirják

**A Gauge-Invariant Approach to Interband and Intraband Currents****Speaker**

Marco Taucer

**Ellipticity-Resolved High-Harmonic Spectroscopy of Phase-Locked Attosecond Pulse Trains****Speaker**

Mr Eliyahu Bordo

**Dual Self-diffraction Dispersion-scan: Characterizing Ultrashort Ultraviolet Pulses in Inhomogeneous Beams****Speaker**

Mr Miguel Canhota

**Nonperturbative Enhancement of Inelastic Photoemission Delay in Metals: Comparison with Correlated Insulators****Speaker**

Jaedong Lee

**High Intensity High-order Harmonic Generation by Optimizing Phase Matching Condition****Speaker**

Ms Yueying Liang

**Light Induced Ultrafast Thermal Processes in Metal: Thermal Evolution to Material Damage****Speaker**

Mousumi Upadhyay Kahaly

**Simultaneous, Long-term Stabilization of the Delay and CEP for Coherent Combination of the Two-color Few-cycle Pulses****Speaker**

Prof. Shaobo Fang

**CEP-stabilized, sub-18fs, 10kHz and TW-class 1kHz Dual Output Ti:Sa Laser with Wavelength Tunability Option****Speaker**

Dr Anna Golinelli

**Quantum Control and Multi-Dimensional Laser-Induced Mass Spectrometry of Biomolecules**

**Speaker**

Ms Ruth Ayers

**High Efficient Carrier-Envelope Offset Frequency Measurement and Control with a Tapered Photonic Crystal Fiber**

**Speaker**

Huibo Wang

20:00