

Programme Calendar

Sunday, October 9

3:00 PM – 6:00 PM: **Registration**

7:30 PM – 9:00 PM: **Laser Electron Acceleration, Chair: DiMauro**

7:30: Mori, *Laser-Driven and Particle-Beam Driven Plasma Accelerators*

8:00: Leemans, *Laser Plasma Sources for High Brightness Beams: from THz to X-rays*

8:30: Malka, *Laser-Plasma Accelerator: Status and Perspectives*

9:00 PM: **Wine, Beer and Cheese Reception, Sponsored by THALES Laser**

Monday, October 10

7:30 AM – 8:50 AM **Breakfast - All Meals will be served at Manoir des Sables**

8:50 AM – 10:30 AM **Ionization of Atoms I, Chair: Becker**

8:50: Becker's Overview

9:00: Taylor, *Laser-Driven Helium at Ti:sapphire Wavelengths*

9:30: Walker, *Atoms and Ions in Ultraintense Laser Fields*

10:00: Eichmann et al, *Core Relaxation and Relativistic Effects in Atomic Ultra Strong Laser Field Ionization*

10:15: Bachau et al, *Dynamics of two-photon double-ionization of helium at the attosecond scale*

10:30 AM – 11:00 AM **Coffee Break, Sponsored by Quantronix**

11:00 AM – 12:30 PM **Ionization of Atoms II, Chair: Bachau**

11:00: Bryan, *Atomic Excitation during Recollision-Free Ultrafast Multi-Electron Tunnel Ionization*

11:15: Smirnova, *Coulomb and polarization effects in attosecond strong-field dynamics*

11:30: Kaminski, *Non-Sequential Double Ionization at Moderate Laser Intensities.*

11:45: Lin, *Direct Experimental Visualization of Atomic and Electron Dynamics with Attosecond Pulses*

12:00: Frolov, *Strong Field Detachment and High Harmonic Generation by Negative Ions*

12:30 PM – 2:00 PM

Lunch

2:00 PM – 6:00 PM

Free Time

6:00 PM – 7:20 PM

Dinner

7:20 PM – 9:00 PM

Ionization, Molecules and Clusters, Chair: Krainov

7:20: Krainov's Overview

7:30: Rost, *Ion Spectra and Attosecond-Time Resolved Charging Dynamics in Rare Gas Clusters under an Intense Laser Pulse*

8:00: Becker, *Ionization of Molecules with Intense Laser Pulses*

8:30: Légaré et al, *Imaging Ultra-fast Molecular Dynamics using Few-cycle Laser Pulses*

8:45: Okino et al, *Coincidence Imaging of Ultrafast Hydrogen Motion of Methanol in Intense Laser Fields*

9:00 PM:

Beer and Poster Session, Sponsored by **Amplitude Technologies**

Tuesday, October 11

7:30 AM – 8:50 AM

Breakfast

8:50 AM – 10:30 AM

COLTRIMS Atoms, Chair: Cocke

8:50: Cocke's Overview

9:00: Rottke, *The Role of the Carrier-envelope Phase in Nonsequential Double Ionization at the Single-optical-cycle Limit*

9:30: Moshhammer, *Multiple Ionization of Atoms in Strong Laser Fields*

10:00: Ruiz et al et al, *Ab-initio Calculations of Double Ionization of Helium Beyond the One-dimensional Approximation*

10:15: X. Liu et al, *Nonsequential Multiple Ionization via Attosecond Electron Thermalization in a Laser-driven Recollision*

10:30 AM – 11:00 AM

Coffee Break, Sponsored by **Plasmionique**

11:00 AM – 12:30 PM

COLTRIMS Molecules, Chair: Starace

11:00: Doerner,
11:30: Alnaser, *Momentum Imaging of Ultrafast Dynamics in Short Pulse Ionization of Atoms and Molecules*
12:00: Kato et al, *A time-dependent Multiconfiguration Description of the Electronic Dynamics of Molecules in an Intense Laser Field*
12:15: Caillat et al, *Correlation in Strong Field Ionization of Linear Molecules*

12:30 PM – 2:00 PM

Lunch

2:00 PM – 6:00 PM

Free Time

6:00 PM – 7:20 PM

Dinner

7:20 PM – 9:00 PM

HHG in Atoms, Chair: Maragos

7:20 Maragos' Overview

7:30: Kapteyn, *Extreme Nonlinear Optics at Short Wavelengths*

8:00: Midorikawa, *Multiphoton Processes with XUV Photons and their Application to Autocorrelation Measurement*

8:30: Zeitoun

9:00 PM:

Beer and Poster Session, Sponsored by Femto Lasers Inc.

Wednesday, October 12

7:30 AM – 8:50 AM

Breakfast

8:50 AM – 10:30 AM

Attosecond I, Chair: Nisoli

8:50 Nisoli's Overview

9:00: Charalambidis, *Auto- and Cross-correlation Measurements of Harmonic and Attosecond Pulses*

9:30: Quéré, *Frequency-Resolved Optical Gating for Complete Reconstruction of Attosecond Bursts : FROG CRAB*

10:00: Salières, *Characterization of Attosecond Pulse Trains on both femtosecond and attosecond timescales*

10:30 AM – 11:00 AM

Coffee Break, Sponsored by RoentDek Gmb

11:00 AM – 12:30 PM

Attosecond II, Chair: Paulus

11:00: Vrakking, *Strongly Driven Electrons in the Development and Application of Attosecond Lasers*

11:30: Schafer, *The Role of Attosecond Pulses in Strong Field Physics*

12:00: Vozzi et al, *Probing Recombination Interference in Molecular High Harmonic Generation*

12:15: Zeidler et al, *Controlling Attosecond Double Ionization Dynamics via Molecular Alignment*

12:30 PM – 2:00 PM

Lunch

2:00 PM – 3:00 PM

Free Time

3:00 PM – 4:30 PM

Attosecond III, Chair: Goreslavsky

3:00: Johnsson, *Generation and Application of Attosecond Pulse Trains*

3:30: Yudin et al, *Chirped Attosecond Photoelectron Spectroscopy*

3:45: Kim et al, *Synchronized Generation of Bright High-Order Harmonics Using Self Guided and Chirped Femtosecond Laser Pulses*

4:00: Kitzler et al, *Spatial Control of Recollision Wave Packets with Attosecond Precision*

4:15: Tzallas et al, *Temporal TH Pulse Reconstruction through Coherent Control*

4:30 PM – 6:00 PM

Free Time

6:00 PM – 7:30 PM

Dinner

7:30 PM – 9:00 PM

Attosecond IV, Chair: Bigert

7:30: Mauritsson, *Initiating Strong-Field Processes with Attosecond Pulse Trains*

8:00: Guyetand et al, *Multicolor Above-Threshold Ionization of Helium: Quantum Interference Effects in Angular Distributions.*

8:15: Dudovitch et al, *Electron Wave-packet Characterization*

8:30: Constant, *Controlling High Order Harmonic Emission by Manipulating the Polarization of the Fundamental Pulse.*

9:00 PM:

Beer and Poster Session, Sponsored by Varian Vacuum Tech.

Thursday, October 13

7:30 AM – 8:50 AM

Breakfast

8:50 AM - 10:30 AM

Propagation, Chair: Chin

8:50: Chin's *Overview*

9:00: Mysyrowicz, *Recent Developments in Femtosecond Laser Filamentation*

9:30: W. Liu et al, *Experiment and Simulations on the Energy Reservoir of Femtosecond Light Filaments*

9:45: Guandalini et al, *5.1 fs Pulses Generated by Filamentation and Carrier Envelope Phase Stability Analysis*

10:00 AM - 12:30 PM

ALLS Special Session, Chair: Bandrauk

10:00: Bandrauk's *Overview*

10:10: Kieffer, *Femtosecond Phase Contrast Stroboscop*

10:40 AM - 11:00 AM

Coffee Break, Sponsored by Pfeiffer

11:00: Brabec, *Multi-electron dynamics in strong fields*

11:30: Miller, *Femtosecond Electron Diffraction: "Making the Molecular Movie"*

12:00: Villeneuve, *High Harmonics and Molecular Orbitals*

12:30 PM - 2:00 PM

Lunch

2:00 PM – 6:00 PM

Visit to ALLS

6:00 PM – 8:00 PM

Banquet

8:00 PM – 8:45 PM

Multiphoton Processes in Dielectrics, Chair: Rammuno

8:00: Bhardwaj et al, *Optically Induced Arrays of Planar Nanostructures in Fused Silica*

8:30: Korneev et al, *Collisionless Heating and Relaxation of Laser-Irradiated Nanoplasma*

8:45 PM – 9:30 PM

Post-Deadline Talks

8:45: Morlens et al, *Group Delay Measurement of XUV Chirped Mirrors Using High Order Harmonics*

9:00: Schultz et al, *Double Ionization of Helium: Experiment and Theory in the Multiphoton Regime*

9:15: Ho et al, *Three-electron Study of Non-sequential Multi-ionization*

9:30 PM: **Beer and Poster Session**, Sponsored by **Pfeiffer**

Friday, October 14

7:30 AM – 8:50 AM **Breakfast**

8:50 AM – 10:15 AM **Relativistic Plasmas**, Chair: **Maurou**

8:50: Maurou's *Overview*

9:00: Pukhov, *Ultra-relativistic Laser-plasmas: Bubbles, Monoenergetic Electron Acceleration, Similarity Theory and Scalings*

9:30: Nees, *Efficient Attosecond Phenomena Arising in the Relativistic Lambda-Cubed Regime*

10:00: Kundu et al, *Collective Energy Absorption in Intense Laser-cluster Interaction*

10:15 AM – 10:35 AM **Coffee Break**, Sponsored by **Coherent**

10:35 AM – 12:30 PM **Control**, Chair: **Yamanouchi**

10:35: Yamanouchi's *Overview*

10:45: Gonoskov et al, *High Harmonic Generation in Molecules within Moving-nuclei Semiclassical Simulations*

11:00: Rabitz, *Controlling Quantum Dynamics Phenomena with Shaped Laser Pulses Acting as Photonic Reagents*

11:30: Weinacht, *Interpreting Strong Field Control of Molecular Fragmentation in a Family of Molecules*

12:00: Niikura et al, *Controlling Vibrational Wave Packet Motion by Intense, Few-cycle Laser Pulses*

12:15: Spanner et al, *Learning from Adaptive Feedback Control Experiments: Control of Two-Mode Stimulated Raman Scattering in Liquids*

12:30 PM – 2:00 PM **Lunch**

2:00 PM – 3:30 PM **Measuring Structure and Dynamics**, Chair: **Ivanov**

2:00: Gundry, *Probing Nuclear Dynamics on an Attosecond Timescale*

2:30: Sakai, *Quantum Interference in the Recombination Process of High-order Harmonic Generation from Aligned Molecules*

3:00: Krausz (Uiberacker), *Tracing Ultrafast Dynamics in Time Domain*