



SUMMER SCHOOL: ULTRAFAST DYNAMICS WITH INTENSE RADIATION SOURCES
18-22 October 2016 - St. Nicolas Bay resort Hotel in Crete

PROGRAM

MONDAY 17 OCTOBER , 2016

SPECIAL TRAINING SESSION ON PHOTONICS EXPLORER KIT
at IESL-FORTH, Seminar Room "Stelios Orphanoudakis" (1st floor)

This section is reserved for the ESRs that have not attended to the Milan Winter School

09.00 – 10.00 | Intro presentation of the Photonics Explorer | T. DE PAUW

Some aspects of the presentation: What is the Photonics explorer , Overview of the modules of the Photonics Explorer, Working with the Photonics explorer to give workshops for teachers and to give workshops to secondary-school students.

10.00 – 11.00 | Hands-on experiments PART 1: Diffraction

11.00 – 12.00 | Hands-on experiments PART 2: Light spectrum – Polarization

12.00 – 13.00 | Hands-on experiments PART 3: Light signals – colours – lenses

13.00 – 14.00 | Lunch

14.00 – 15.00 | Conclusion: round table, how the PhD students will implement action plan related to the photonic explorer

15.30 | Departure for the Hotel



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 64178.



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PROGRAM

MONDAY 17 OCTOBER (for all the ESRs)

- 18.00 – 18.30 | Hotel Check In
- 18.30 – 20.00 | School Registration
- 20.00 – 22.00 | Dinner

TUESDAY 18 OCTOBER

- 08.00 – 08.50 | Breakfast
- 08.50 – 9.00 | D. CHARALAMBIDIS/G. SANSONE | Welcome**
- Session 1 -morning: Chairman A. Kuleff**
- 09.00 – 10.00 | M. IVANOV | Molecules in intense laser fields**
- 10.00 – 11.00 | A. MAQUET | Attosecond time delays**
- 11.00 – 11.30 | Coffee Break
- 11.30 – 12.30 | T. PFEIFER | Laser control of absorption profiles on the attosecond timescale**
- 12.30 – 15.30 | Lunch
- Session 2 -afternoon: Chairman E. Cormier**
- 15.30 – 16.30 | F. LEPINE | Application of attosecond pulses for the investigation of molecular dynamics**
- 16.30 – 17.30 | H.J. WÖRNER | Attosecond charge migration**
- 17.30 – 20.00 | Poster Session**
- 20.00 – 22.00 | Dinner

WEDNESDAY 19 OCTOBER

- 08.00 – 09.00 | Breakfast
- Session 3 -morning: Chairman F. Lepine**
- 09.00 – 10.00 | J. LIMPERS | High-repetition rate fiber lasers**
- 10.00 – 11.00 | T. METZGER | OPA driven by thin disk-lasers**
- 11.00 – 11.30 | Coffee Break
- 11.30 – 12.30 | G. TSAKIRIS | Surface Harmonic Generation**
- 12.30 – 15.30 | Lunch
- Session 4 -afternoon: Chairman T. Metzger**
- 15.30 – 16.30 | A. KULEFF | Ultrafast charge migration: fundamental theoretical aspects**
- 16.30 – 17.00 | Coffee Break
- 17.00 – 18.00 | K. SCHAFER | Theoretical description of attosecond processes**
- 20.00 – 22.00 | Social Dinner**

THURSDAY 20 OCTOBER

- 08.00 – 09.00 | Breakfast
 - Session 5 -morning: Chairman J. Biegert**
 - 09.00 – 10.00 | L. GIANNESI | Free Electron Lasers in the extreme ultraviolet and X-ray spectral regions**
 - 10.00 – 11.00 | N. BERRAH | Time-Resolved Molecular Dynamics using the LCLS**
 - 11.00 – 11.30 | Coffee Break
 - 11.30 – 12.30 | P. LAMBROPOULOS | Photoionization under intense XUV fields: the perturbative approach**
 - 12.30 – 15.30 | Lunch
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Session 6 -afternoon: Chairman N. Berrah

15.30 – 16.30 | F. MARTIN | Theoretical description of attosecond molecular dynamics

16.30 – 17.30 | R. DÖRNER | Ultrafast Dynamic investigated by recoil-ion and electron momentum spectroscopy

17.30 – 20.00 | Poster Session

20.00 – 22.00 | Dinner

FRIDAY 21 OCTOBER

08.00 – 09.00 | Breakfast

Session 7 -morning: Chairman L. Giannessi

09.00 – 10.00 | J. TISCH | Generation and application of multi-colour attosecond pulses

10.00 – 11.00 | E. CORMIER | Mid-IR laser sources

11.00 – 11.30 | Coffee Break

11.30 – 12.30 | P. TZALLAS | Nonlinear effects in the attosecond domain

12.30 – 15.30 | Lunch

Session 8 -morning: Chairman M. Ivanov

15.30 – 16.30 | S. KAHALY | Ultrafast charge dynamics at ultra-high intensity

16.30 – 17.00 | Coffee Break

17.00 – 18.00 | J. BIEGERT | Soft X-ray generation and Laser-induced Electron Diffraction

20.00 – 22.00 | Dinner

SATURDAY 22 OCTOBER

08.00 – 10.00 | Breakfast

10.00 – Departure

Invited Speakers

T. DE PAUW - EYEST

A. KULEFF - Theoretische Chemie

P. LAMBROPOULOS - FORTH, Crete Greece

K. SCHAFER - Louisiana State University, Baton Rouge USA

A. MAQUET - Université Pierre et Marie Curie, Paris, France

M. IVANOV - Max Born Institut Berlin, Germany

F. MARTIN - Universidad Autonoma Madrid

L. GIANNESI - Sincrotrone ELETTRA Trieste, Italy

N. BERRAH - University of Connecticut, USA

R. DÖRNER - University Frankfurt, Germany

P. TZALLAS - FORTH, Crete Greece

G. TSAKIRIS - Max Planck Institut for quantum Optics, Garching , Germany

E. CORMIER - University of Bordeaux, France- ELI-ALPS Szeged, Hungary

J. BIEGERT - ICFO, Barcelona Spain

J. LIMPET - University of Jena, Germany

T. METZGER - TRUMPF Scientific Lasers Unterföhring, Germany

S. KAHALY - ELI-ALPS, Hungary

H.J. WÖRNER - ETH, Zurich Switzerland

T. PFEIFER - Max Planck Institut for nuclear physics

J. TISCH - Blackett Laboratory London UK

F. LEPINE - University of Lyon, France- ELI-ALPS Szeged, Hungary



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TUESDAY 18 OCTOBER

17.30 – 20.00 Poster Session		
P 01	Alexandridi Christina-Anastasia	<i>Photoionization dynamics with attosecond resolution.</i>
P 02	Martin Gebhardt	<i>Performance scaling of ultrafast Tm-based fiber lasers.</i>
P 03	Arne Baumann	<i>Ultrafast VUV-photodissociation of H₂O traced by single-shot autocorrelation.</i>
P 04	Arne Baumann	<i>Ultrafast photodissociation dynamics of molecular oxygen in the vacuum ultraviolet studied with a single-color pump-probe scheme.</i>
P 05	Joana Duarte	<i>Digital In-line holography corrected from aberrations by resorting to wavefront measurements.</i>
P 06	Maïté Louisy	<i>Gating attosecond pulses in a noncollinear geometry.</i>
P 07	Alix Volte	<i>Characterization of non-linear phases and spatio-temporal couplings in chirped-pulse amplifiers by the d-scan technique.</i>
P 08	Joart Peter	<i>Phase noise measurement of water-cooled optomechanic components for high average power lasers.</i>
P 09	David Busto	<i>Intensity dependence of Fano resonances in Helium and Argon.</i>
P 10	James D. Pickering	<i>Ultrafast Dynamics in a Superfluid Solvent.</i>
P 11	Harshitha N.G.	<i>Saddle point approaches in attosecond physics.</i>
P 12	Andrés Ordóñez	<i>Chiral states in atomic hydrogen.</i>
P 13	Dionysios Potamianos	<i>Attosecond Molecular Dynamics in Molecular Systems.</i>
P 14	Sylvain Maclot	<i>Intense XUV attosecond physics at the Lund Laser Centre.</i>
P 15	Zsolt Gellert Kiss	<i>Numerical investigations beyond the SFA model.</i>

THURSDAY 20 OCTOBER

17.30 – 20.00 | Poster Session

P 01	Katharina Wenig	<i>Chirped electron wave packets resolved with terahertz-field driven streak camera.</i>
P 02	Sudipta Mondal	<i>Coherent ultrashort bursts of XUV and THz pulses via the interaction of high intensity short pulse laser with plasma mirrors.</i>
P 03	Anna Golinelli	<i>High repetition rate, sub-20fs, CEP stable Ti:Sa front-end for attosecond pulse generation.</i>
P 04	Céline Chappuis	<i>Generation of High-Order Harmonics carrying Orbital Angular Momentum.</i>
P 05	Marc Rebholz	<i>XUV-pump—XUV-probe transient absorption experiments at FLASH.</i>
P 06	Arjun Nayak Puttur	<i>ELI-ALPS end-stations for gas phase and condensed matter physics of ultrafast phenomena.</i>
P 07	Veit Stooß	<i>Comparison of time-dependent strong-field effects in atoms and molecules observed by attosecond XUV absorption spectroscopy.</i>
P 08	Mikayel Musheghyan	<i>Ultrabroadband (FWHM > 100 nm) Ti:Sapphire Multipass Amplifier.</i>
P 09	Lana Neoričić	<i>High intensity attosecond beamlines at ELI-ALPS based on gas high harmonic generation.</i>
P 10	Lorenz Drescher	<i>XUV Transient Absorption Spectroscopy of Iodomethane and Iodobenzene.</i>
P 11	Peter Badanko	<i>Molecular vibrational trapping revisited: a case study with D2+.</i>
P 12	Melby Johny	<i>Photophysics and electron dynamics of Indole and Indole- Water.</i>
P 13	Attila Toth	<i>Dissociative ionization of D2+ in strong laser fields.</i>
P 14	Neven Ibrakovic	<i>Achromatic Dual-Waveplates.</i>
P 15	Guillaume Bouchard	<i>Mechanisms induced by Extrem Light Intensities: Sub-femtoseconds Sources, Analysed Numerically, Driven by Relativistic Electrons (MELI:SSANDRE).</i>



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