



| 14/9/2026          | 15/9/2026          | 16/9/2026             | 17/9/2026            | 18/9/2026          |
|--------------------|--------------------|-----------------------|----------------------|--------------------|
| 9:00 Welcome       | 9:00 Pomerantz     | 9:00 Michel           | 9:00 Cipiccia        | 9:00 Rus           |
| 9:10 Olson         | 9:30 Tomassini     | 9:30 Oliva            | 9:30 Skruszewicz     | 9:30 Pallas        |
| 9:40 Murakami      | 10:00 Valenta      | 10:00 Lehmann         | 10:00 Vyšín          | 9:50 Chen          |
| 10:10 Hao          | 10:20 Casati       | 10:20 La Porte        | 10:20 Shirozhan      | 10:10 Giuffrida    |
| 10:30 Coffee break | 10:40 Coffee break | 10:40 Coffee break    | 10:40 Coffee break   | 10:30 Kojima       |
| 11:00 Cotelo       | 11:10 Lundh        | 11:10 Maffini         | 11:10 Dromey         | 10:50 Coffee break |
| 11:30 Huo          | 11:40 LécZ         | 11:40 Sciuto          | 11:40 Mašlárová      | 11:20 Jelínek      |
| 12:00 Condamine    | 12:00 Touguet      | 12:00 Velarde         | 12:10 Zsíros         | 11:40 Krása        |
| 12:20 Földes       | 12:20 Masckala     | 12:20 Kondrashev      | 12:30 Vábek          | 12:00 Cikhardt     |
| 12:40 Blackman     | 12:40 Swain        | 12:40 lunch           | 12:50 lunch          | 12:20 Jurkovičová  |
| 13:00 lunch        | 13:00 lunch        | 13:40 Grech           | 13:50 Poster session | 12:40 Grau         |
| 14:00 Menoni       | 14:00 Arjmand      | 14:10 Corde           |                      | 13:00 Closing      |
| 14:30 Brambrink    | 14:30 Chaulagain   | 14:40 Mercuri-Baron   |                      | 13:10 ELI visit    |
| 15:00 Hoffmann     | 14:50 Varma        | 15:00 Custodio        |                      |                    |
| 15:20 Kraus        | 15:10 Mendonca     | 15:20 Villalba-Chávez |                      |                    |
| 15:40 Ialovega     | 15:30 Chodukowski  | 15:40 Galbiati        |                      |                    |
| 16:00 Coffee break | 16:00 Coffee break | 16:00 Coffee break    | 16:00 Coffee break   |                    |
| 16:30 Batani       | 16:30 Tazes        | 16:30 Silva           | 16:30 Li             |                    |
| 17:00 Dulat        | 17:00 Schramm      | 17:00 Schumacher      | 17:00 Lamač          |                    |
| 17:20 Cipriani     | 17:30 Iaccarino    | 17:30 Cornet          | 17:20 de Almeida     |                    |
| 17:40 Consoli      | 17:50 Malka        | 17:50 Rips            | 17:40 Hadjisolomou   |                    |

## Monday 14 September – LASER-DRIVEN FUSION

|                  |                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:10<br>INVITED  | <b>Rick Olson</b> (Los Alamos National Laboratory)<br><i>Physics of direct-drive wetted foam ICF capsules</i>                                                                      |
| 9:40<br>INVITED  | <b>Masakatsu Murakami</b> (Shanghai Institute of Optics and Fine Mechanics)<br><i>Self-Similar Multi-Shock Implosions for Ultra-High Compression of Matter</i>                     |
| 10:10            | <b>Liang Hao</b> (Institute of Applied Physics and Computational Mathematics, Beijing)<br><i>Study of asymmetric backscattering in hohlraums due to cross-beam energy transfer</i> |
| 11:00<br>INVITED | <b>Manuel Cotelo Ferreira</b> (Universidad Politécnica de Madrid)<br><i>Inertial Fusion Hybrid Targets for Advanced Lasers</i>                                                     |
| 11:30<br>INVITED | <b>Wenyi Huo</b> (Institute of Applied Physics and Computational Mathematics, Beijing)<br><i>Nonlocal electron heat transport involving Langdon effect in laser plasmas</i>        |
| 12:00            | <b>Florian Condamine</b> (GenF)<br><i>Effect of residual gas pressure on ablation plasma properties in ns-kJ laser–solid interactions</i>                                          |
| 12:20            | <b>Istvan Földes</b> (HUN-REN Wigner Research Centre)<br><i>Excimer lasers with detuned oscillators: a possible alternative for inertial fusion energy drivers</i>                 |
| 12:40            | <b>David Blackman</b> (ELI Beamlines Facility, The Extreme Light Infrastructure ERIC)<br><i>Rare temporal spikes and chromatic shear in broadband laser-plasma interactions</i>    |
| 14:00<br>INVITED | <b>Carmen Menoni</b> (Colorado State University)<br><i>The US-IFE RISE hub research efforts to advance inertial fusion</i>                                                         |
| 14:30<br>INVITED | <b>Erik Brambrink</b> (European XFEL)<br><i>HAFEN: a fusion instrument at European XFEL</i>                                                                                        |
| 15:00            | <b>Dieter H.H. Hoffmann</b> (Xian Jiaotong University)<br><i>The Fusion Portfolio: Why p-11B Deserves a Place at the Table</i>                                                     |
| 15:20            | <b>Dominik Kraus</b> (University of Rostock)<br><i>The High Energy Density Initiative (HEDI) in Rostock</i>                                                                        |
| 15:40            | <b>Mykola Ialovega</b> (GenF)<br><i>Predictive Lifetime Assessment of First-Wall Materials in Direct-Drive Inertial Fusion Energy Systems</i>                                      |
| 16:30<br>INVITED | <b>Dimitri Batani</b> (Université de Bordeaux)<br><i>Contributions from the HiPER+ community to advancing knowledge of IFE physics</i>                                             |
| 17:00            | <b>Ankit Dulat</b> (Helmholtz-Zentrum Dresden-Rossendorf)<br><i>Multispectral pump-probe studies of nanostructured target dynamics in high-intensity laser-plasma interactions</i> |
| 17:20            | <b>Mattia Cipriani</b> (ENEA)<br><i>Evolution of the plasma obtained from high-power irradiation of 2PP foams with different morphologies</i>                                      |
| 17:40            | <b>Fabrizio Consoli</b> (ENEA)<br><i>Charged Beam Manipulation by Laser-Driven Electromagnetic Pulses</i>                                                                          |

## Tuesday 15 September

# LASER-PLASMA PARTICLE ACCELERATION

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|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00<br>INVITED  | <b>Ishay Pomerantz</b> (Tel-Aviv University)<br><i>Advances in Direct Laser Acceleration: High-Brightness X-ray and Neutron Sources via Plasma Guiding, High-Z Targets, and Flying Focus Pulses</i>                                                                                |
| 9:30<br>INVITED  | <b>Paolo Tomassini</b> (ELI Beamlines and ELI NP, The Extreme Light Infrastructure ERIC)<br><i>Design of high-brightness and multi-GeV LWFA electron beams for tunable sub-fs soft/hard X-FEL and Compton scattering sources</i>                                                   |
| 10:00            | <b>Petr Valenta</b> (ELI Beamlines facility, The Extreme Light Infrastructure ERIC)<br><i>Energy-optimized scaling laws for self-guided laser wakefield accelerators</i>                                                                                                           |
| 10:20            | <b>Ginevra Casati</b> (Imperial College London)<br><i>Vacuum laser acceleration of electrons using a high intensity Ti-Sapphire laser</i>                                                                                                                                          |
| 11:10<br>INVITED | <b>Olle Lundh</b> (Lund University)<br><i>Sub-cycle dynamics in few-cycle laser-plasma acceleration</i>                                                                                                                                                                            |
| 11:40            | <b>Zsolt Lécz</b> (ELI ALPS facility, The Extreme Light Infrastructure ERIC)<br><i>Asymmetric wave-breaking in nonlinear wakefields driven by intense pulses</i>                                                                                                                   |
| 12:00            | <b>Jerome Touquet</b> (Laboratoire d'Optique Appliquée)<br><i>Advanced Beam Shaping for Axi-parabola-Based Laser-Plasma Acceleration</i>                                                                                                                                           |
| 12:20            | <b>Mohamad Masckala</b> (Université Paris-Saclay)<br><i>High Accuracy Modeling of Laser Driven Electron Acceleration</i>                                                                                                                                                           |
| 12:40            | <b>Kalyani Swain</b> (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)<br><i>Effect of optical aberrations on the laser wakefield acceleration of electrons using ionisation injection scheme</i>                                                                         |
| 14:00<br>INVITED | <b>Sahar Arjmand</b> (Istituto Nazionale di Fisica Nucleare)<br><i>Capillary-Based Laser-Plasma Accelerators: Beam Generation, Characterization, and Optimization</i>                                                                                                              |
| 14:30            | <b>Uddhab Chaulagain</b> (ELI Beamlines Facility, The Extreme Light Infrastructure ERIC)<br><i>Laser-Driven X-ray Sources Based on Plasma Accelerators for Multidisciplinary Applications</i>                                                                                      |
| 14:50            | <b>Chaitanya Varma</b> (Laboratoire d'Optique Appliquée)<br><i>Semi-Autonomous Optimization of a Laser-Plasma Accelerator for Very High Energy Electron Radiobiology</i>                                                                                                           |
| 15:10            | <b>Tito Mendonça</b> (Instituto Superior Tecnico, Universidade de Lisboa)<br><i>Particle Acceleration by Superluminal and Accelerated Wakefields</i>                                                                                                                               |
| 15:30<br>INVITED | <b>Tomasz Chodukowski</b> (Institute of Plasma Physics and Laser Microfusion)<br><i>Efficiency of laser energy conversion with Cavity Pressure Acceleration scheme</i>                                                                                                             |
| 16:30<br>INVITED | <b>Ioannis Tazes</b> (Hellenic Mediterranean University)<br><i>High-Repetition-Rate Laser-Driven Ion Acceleration via Optically Shaped Near-Critical Density Gaseous Targets</i>                                                                                                   |
| 17:00<br>INVITED | <b>Ulrich Schramm</b> (Helmholtz-Zentrum Dresden-Rossendorf)<br><i>Boosting laser plasma proton acceleration in near critical density targets</i>                                                                                                                                  |
| 17:30            | <b>Matteo Iaccharino</b> (Politecnico di Milano)<br><i>Advanced carbon-based targets for laser-plasma interaction experiments</i>                                                                                                                                                  |
| 17:50            | <b>Gerard Malka</b> (Université de Bordeaux)<br><i>Significant Increase in the Number of Energetic Protons with Two Hot Temperatures of 1 and 4 MeV During the Interaction of an Ultra-Intense Laser with a Foam Target Near the Critical Density and Coulomb piston signature</i> |

## Wednesday 16 September

### EMERGENT TOPICS IN LASER-MATTER INTERACTION

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|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00<br>INVITED  | <b>Pierre Michel</b> (Lawrence Livermore National Laboratory)<br><i>Gas optics for high-power laser applications</i>                                                                                                    |
| 9:30<br>INVITED  | <b>Eduardo Oliva</b> (Universidad Politécnica de Madrid)<br><i>3D multiscale modelling of the interaction of structured light with inhomogeneous plasmas: applications to plasma diagnosis</i>                          |
| 10:00            | <b>Götz Lehmann</b> (Heinrich-Heine University Düsseldorf)<br><i>Formation and persistence of ponderomotive plasma gratings created by finite-duration laser pulses</i>                                                 |
| 10:20            | <b>Jeremy La Porte</b> (Laboratoire pour l'utilisation des lasers intenses)<br><i>Magnetic field generation by Light Springs through refraction on helical plasma waves</i>                                             |
| 11:10<br>INVITED | <b>Alessandro Maffini</b> (Politecnico di Milano)<br><i>Tailoring laser-matter interaction using near-critical nanofoam targets</i>                                                                                     |
| 11:40            | <b>Alberto Sciuto</b> (Istituto Nazionale di Fisica Nucleare)<br><i>Comparison between hollow-channel pHEMA nanofoam targets with conventional gas jets for millijoule-class few-cycle laser wakefield acceleration</i> |
| 12:00            | <b>Pedro Velarde</b> (Instituto de Fusión Nuclear, Universidad Politécnica de Madrid)<br><i>Collisional ionisation and shake-off processes in XFEL-heated dense plasmas</i>                                             |
| 12:20            | <b>Sergey Kondrashev</b> (Brookhaven National Laboratory)<br><i>Development of continuous beam laser ion source</i>                                                                                                     |

### STRONG-FIELD QED LASER PHYSICS

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:40<br>INVITED | <b>Mickael Grech</b> (LULI, CNRS, Sorbonne Université, École polytechnique, Institut Polytechnique de Paris)<br><i>Kinetic Theory and Scaling Laws of QED Cascades: From Crossed Fields to Solid Targets</i>             |
| 14:10<br>INVITED | <b>Sebastian Corde</b> (LOA, CNRS, École polytechnique, ENSTA, Institut Polytechnique de Paris)<br><i>Progress towards strong-field QED studies at multi-PW laser and accelerator facilities</i>                         |
| 14:40            | <b>Anthony Mercuri-Baron</b> (University of Plymouth)<br><i>Quantifying Extreme Laser Intensities Using Nonlinear Photon-Photon Scattering</i>                                                                           |
| 15:00            | <b>Joao Custodio</b> (ELI Beamlines Facility, Extreme Light Infrastructure ERIC)<br><i>Coherent radiation and radiation friction in laser-plasma collisions</i>                                                          |
| 15:20            | <b>Selym Villalba-Chávez</b> (University of Düsseldorf)<br><i>Muon Pair Production in Electron-Positron Collisions Close to Threshold in a Strong Laser Field</i>                                                        |
| 15:40            | <b>Marta Galbiati</b> (LULI, CNRS, CEA, Sorbonne Université, Ecole Polytechnique, Institut Polytechnique de Paris)<br><i>Gamma-photon generation with near-critical foam-based targets at the Apollon multi-PW laser</i> |

### LASER APPLICATIONS IN ASTROPHYSICS RESEARCH

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16:30<br>INVITED | <b>Luís O. Silva</b> (GoLP/IPFN, Instituto Superior Técnico, Universidade de Lisboa)<br><i>Shaping and Control of Laser-Driven Extreme Plasma Turbulence</i>                               |
| 17:00<br>INVITED | <b>Samuel Schumacher</b> (University of Rostock)<br><i>Measurement of the Opacity of Hydrogen at Red Dwarf Star Interior Conditions</i>                                                    |
| 17:30            | <b>Louise Cornet</b> (CNRS)<br><i>Mechanisms at the origin of radio solar bursts by laser-plasma interaction</i>                                                                           |
| 17:50            | <b>Johannes Rips</b> (University of Rostock, Germany)<br><i>Investigating the onset of carbon K-shell ionization from imploding CH capsules measured at the National Ignition Facility</i> |

## Thursday 17 September

# LASER-BASED X-RAY SOURCES AND APPLICATIONS

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|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00<br>INVITED  | <b>Silvia Cipiccia</b> (University College London)<br><i>Dark field x-ray imaging using a laser driven x-ray source</i>                                                                                    |
| 9:30<br>INVITED  | <b>Sławomir Skruszewicz</b> (University of Hamburg)<br><i>Imaging and Probing Matter on Extreme Time and Length Scales Enabled by High-Harmonic Generation</i>                                             |
| 10:00            | <b>Luděk Vyšín</b> (Institute of Physics of the Czech Academy of Sciences)<br><i>Laser-plasma soft X-ray source for radiobiological applications</i>                                                       |
| 10:20            | <b>Mojtaba Shirozhan</b> (ELI ALPS, The Extreme Light Infrastructure ERIC)<br><i>Light-Wave-Controlled Relativistic Electron Mirrors for Isolated Attosecond XUV Pulses</i>                                |
| 11:10<br>INVITED | <b>Brendan Dromey</b> (Queen's University Belfast)<br><i>Optimising the efficiency of harmonic emission from relativistic laser plasmas</i>                                                                |
| 11:40<br>INVITED | <b>Dominika Mašlářová</b> (Chalmers University of Technology)<br><i>Bayesian optimization techniques for multiparameter optimization in attosecond science</i>                                             |
| 12:10            | <b>Szanna Zsíros</b> (ELI ALPS, The Extreme Light Infrastructure ERIC; University of Szeged)<br><i>Macroscopic peculiarities: wavelength scaling of high-harmonic generation efficiency in noble gases</i> |
| 12:30            | <b>Jan Vábek</b> (FNSPE, Czech Technical University in Prague)<br><i>Modular multiscale approach to modelling HHG in gases &amp; spectrally selective HHG scheme</i>                                       |
| 16:30<br>INVITED | <b>Song Li</b> (Shanghai Institute of Optics and Fine Mechanics)<br><i>Research Advances in High-Brightness Betatron Radiation and Its Applications Driven by Ultrafast Intense Lasers at SIOM</i>         |
| 17:00            | <b>Marcel Lamač</b> (ELI Beamlines Facility, Extreme Light Infrastructure ERIC)<br><i>Beam-driven relativistic mirrors for extreme electromagnetic fields</i>                                              |
| 17:20            | <b>Rafael Russo de Almeida</b> (GoLP/IPFN, Instituto Superior Técnico, Universidade de Lisboa)<br><i>Generalized Thomson scattering for relativistic plasma optics</i>                                     |
| 17:40            | <b>Prokopis Hadjisolomou</b> (ELI Beamlines Facility, The Extreme Light Infrastructure ERIC)<br><i>Self-organised plasma cavities for ultrabright gamma-ray generation with multipetawatt lasers</i>       |



## Friday 18 September

### HIGH-INTENSITY LASER FACILITIES

- 9:00 **Bedřich Rus** (ELI Beamlines Facility, The Extreme Light Infrastructure ERIC)  
INVITED *High-repetition PW-class and multi-PW kJ laser systems at ELI Beamlines*
- 9:30 **Florent Pallas** (Amplitude)  
*1.4 TW sub-2-cycle pulses from a double-stage multi-pass cell compression of a kHz Yb-based laser*
- 9:50 **Xiaowei Chen** (Amplitude)  
*Ultrahigh Temporal Contrast OPCPA Front-end for Petawatt Lasers*
- 10:10 **Lorenzo Giuffrida** (ELI Beamlines Facility, The Extreme Light Infrastructure ERIC)  
*The ELIMAIA/ELIMED ion beamline at ELI Beamlines: from laser-driven source optimization to user-oriented applications*
- 10:30 **Sadaoki Kojima** (Kansai Institute for Photon Science, QST)  
*High-Repetition Laser-Driven Heavy Ion Bunches for the Quantum Scalpel Injector*

### LASER AND PLASMA DIAGNOSTICS

- 11:20 **Šimon Jelínek** (Institute of Plasma Physics of the Czech Academy of Sciences)  
*Reaching reproducible relativistic interaction conditions with sub-ns laser pulses at the PALS facility*
- 11:40 **Josef Krása** (Institute of Physics of the Czech Academy of Sciences)  
*Characterization of ion emissions from plasmas produced by femto- and nano-second pulses of short-wavelength laser radiation: a brief overview*
- 12:00 **Jakub Cikhardt** (Czech Technical University in Prague)  
*Generation of electromagnetic pulses driven by kilojoule laser facility PALS*
- 12:20 **Lucie Jurkovičová** (ELI Beamlines Facility, Extreme Light Infrastructure ERIC)  
*THz generation in high-intensity laser plasma as an in-situ probe of ultrafast ionization*
- 12:40 **Benoist Grau** (University of Rome "Tor-Vergata" / ENEA)  
*Electro-Optical probing for Electromagnetic pulses emitted in a high-intensity laser facility*