

ECLIM 2024 - TIMETABLE - 16th to 20th of September

	MONDAY 16th	TUESDAY 17th	WEDNESDAY 18th	THURSDAY 19th	FRIDAY 20th
	Chair: <u>T.Mendonça/ R.Fonseca</u>	Chair: <u>M. Perlado/D. Batani</u>	Chair: <u>V.Tikhonchuk/ G. Brodin</u>	Chair: <u>J. Palastro / J. Davies</u>	Chair: <u>G. Williams/J. Vieira</u>
09:00	OPENING	I-8 L.Volpe	I-15 Z. Najmudin	I-23 Matt Zepf	I-27 VI. Tikhonchuk
09:30	I-1 A. Bonasera	I-9 J. Honrubia	I-16 M. Formánek	I-24 P. Dombi	I-28 K. Dzierżęga
10:00	I-2 D. Batani	I-10 J. Davies	I-17 R. Bingham	I-25 G. Brodin	I-29 Ph. Zeitoun
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00	I-3 HyungTaek Kim	I-11 J. Palastro	I-18 E. Khazanov	I-26 D. Jaroszynski	I-30 D. Margarone
11:30	I-4 L. Veisz	I-12 V. Wanie	I-19 P. Velarde	O-36 A. Bret O-37 M. Vescovi	O-42 J. Cikhardt O-43 S. Singh
12:00	O-1 P. Hadjisolomou O-2 I. Foldes	O-12 O. Rosmej O-13 S.Ter-Avetisyan	O-26 S. Kondrashev O-27 M. Perlado	O-38 T. Grismayer O- 40 V. Kocharovsky	O-44 K. Krajewska O-45 K. Zeil
12:30		O-14 D. Kraus		O-41 L.R. He	O-46 G. Cirrone
13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:30					
	Chair: <u>D. Hoffmann/ M. Fajardo</u>	Chair: <u>I. Foldes / M. Zepf</u>	Chair: <u>Jaroszynski/ A. Pukhov</u>	POSTER SESSION	Chair: <u>R. Bingham/ L.O.Silva</u>
14:00	I-6 P. Muggli	I-13 Al. Pukhov	I-20 F. Fiuza		I-31 A. Golovanov
14:30	I-7 E. Abreu	O-15 M.R. Edwards O-16 Bendib-Kalache	I-21 P. Raczka		O-47 M. Ehret O-48 M. Cipriani
15:00	O-4 J. Vábek O-5 R. Lahaye	O-17 M. Geissel O-18 C. Badiali	O-28 O.-y. Jian-ming O-29 M. Murakami		O-49 S. Arjmand O-50 M. Majszyk
15:30	O-6 G. Williams O-7 V. Horny	O-19 T. Silva O-20 Li-Xiang Hu	O-30 W.K. Wang O-31 Zs. LécZ		O-51 P. Tomassini O-52 R. Stefaniková
16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:30	O-8 R. Nuter O-9 A. Lech	I-14 Nikolay Andreev	I-22 M. Sciscio	WALK IN TOWN	O-53 M. Vranic
17:00	O-10 P. Claveria O-11 A. González	O-21 D. Pan O-22 F. Massimo	O-32 P.D. Zhang O-33 V. Istokskaia		CLOSING
17:30		O-23 G. Giubega O-24 S. Ivanov	O-34 X.R. Jiang O-35 A. Dawood		
18:00					

Duration of the talks: Invited (25+5min); Orals (12+3min); Posters (A0 size)

MONDAY 16th

08:30 - Registration

09:00 - Opening: Rogério Colaço, IST President; Luis Silva, Head of GoLP.

18:00 - Welcome Party

THURSDAY 19th

16:00 - Walk in Town

20:00 - Conference Dinner

ECLIM 2024 - MONDAY - 16th September

	Chair: <u>T.Mendonça/</u> <u>R.Fonseca</u>	
09:00	OPENING	
09:30	I-1 A. Bonasera	Nuclear fusion reactions using lasers
10:00	I-2 D. Batani	Hugoniot measurements of boron nitride at multi-Megabar pressures
10:30	Coffee Break	
11:00	I-3 HyungTaek Kim	Laser-wakefield acceleration and generation of radiation sources with 4 PW laser pulses
11:30	I-4 L. Veisz	Vacuum laser acceleration of electrons
12:00	O-1 P. Hadjisolomou	Attosecond Gamma-Ray Flashes and Electron-Positron Pairs in Dyadic Laser Interaction With Micro-Wire
12:15	O-2 I. Foldes	Pulse cleaning of short-pulse lasers by nonlinear Fourier filtering
12:30		
13:00	Lunch	
13:30		
	Chair: <u>D. Hoffmann/M.</u> <u>Fajardo</u>	
14:00	I-6 P. Muggli	AWAKE: plasma wakefield acceleration and beam/plasma physics
14:30	I-7 E. Abreu	Conductivity dynamics in THz driven spin-ladders
15:00	O-4 J. Vábek	Modular multiscale approach to modelling HHG in gases
15:15	O-5 R. Lahaye	Laser Wakefield acceleration of electrons with optical guiding and controlled injection on the high-power laser installation Apollon
15:30	O-6 G. Williams	Tracking the solid to plasma transition using high harmonics
15:45	O-7 V. Horny	An efficient laser wakefield accelerator in the bubble regime dominated by a pump depletion
16:00	Coffee Break	
16:30	O-8 R. Nuter	Influence of the laser polarization on the optical component laser damage
16:45	O-9 A. Lech	Modification of polyetheretherketone (PEEK) surface with EUV-induced cold nitrogen plasma
17:00	O-10 P. Claveria	Incoherent Diffraction Imaging with Pseudo-Thermal Light Source
17:15	O-11 A. González	XUV Platform for Ultrafast Dynamical Studies of Materials at High Repetition Rate
17:30		

ECLIM 2024 - TUESDAY - 17th September

	Chair: M. Perlado/D. Batani	
09:00	I-8 L. Volpe/M.Perlado	Laser Fusion: Current situation and future perspectives of the European IFE program
09:30	I-9 J. Honrubia	Proton fast ignition of inertial fusion targets
10:00	I-10 J. Davies	Magnetized Plasma Experiments on the Omega Laser Facility
10:30	Coffee Break	
11:00	I-11 J. Palastro	Space-time structured waves
11:30	I-12 V. Wanie	Advances in ultrafast UV lasers and applications in molecular spectroscopy
12:00	O-12 O. Rosmej	Development of the DLA platform using foam targets on ARC/NIF with the PHELIX as a testbed
12:15	O-13 S.Ter-Avetisyan	Energetic negative ion and neutral atom beams from laser interaction with a liquid spray
12:30	O-14 D. Kraus	Creating and probing dense plasmas relevant to stellar interiors and inertial fusion energy
13:00	Lunch	
13:30		
	Chair: I. Foldes/M.Zepf	
14:00	I-13 Al. Pukhov	e-e+ plasma generation and dynamics in laser interaction with solid-state targets
14:30	O-15 M.R. Edwards	Diffraction Plasma Optics for Controlling High-Power Light
14:45	O-16 Bendib-Kalache	Closure relations of relativistic hydrodynamic equations Application to the filamentation instability
15:00	O-17 M. Geissel	X-Ray Generation for Diffraction Experiments on Z*
15:15	O-18 C. Badiali	Laser-Plasma Accelerator for Unstable Particles
15:30	O-19 T. Silva	The electron cyclotron maser instability in laser-ionized plasmas
15:45	O-20 Li-Xiang Hu	Vortex laser-driven capture of hot positrons
16:00	Coffee Break	
16:30	I-14 N. Andreev	High energy particles and gamma rays in relativistic laser-matter interaction
17:00	O-21 D. Pan	Generation of sub-megatesla magnetic fields by laser-driven paiseley targets and its application to fusion reactions
17:15	O-22 F. Massimo	High-accuracy modelling of Laser driven Wakefield Acceleration
17:30	O-23 G. Giubega	Probing the Cosmos: Nuclear Isomer Production via Laser-Driven Bremsstrahlung Irradiation at ELI-NP
17:45	O-24 S. Ivanov	Artificial Intelligence Applied to the Design of Plasma Photonic Structures as High-Power Optical Elements

ECLIM 2024 - WEDNESDAY - 18th September

	Chair: V.Tikhonchuk/G. Brodin	
09:00	I-15 Z. Najmudin	Staging of laser wakefield accelerators
09:30	I-16 M. Formánek	Flying focus pulses as a probe of strong field phenomena
10:00	I-17 R. Bingham	Controlling Laser Plasma instabilities
10:30	Coffee Break	
11:00	I-18 E. Khazanov	Review of the XCELS laser design
11:30	I-19 P. Velarde	A Non-thermal time dependent atomic physics code for X-ray laser interaction with matter
12:00	O-26 S. Kondrashev	Ion Beam Generation by High Rep-Rate Ps-lasers with Power Densities in the Range of 10^{11} - 10^{14} W/cm ²
12:15	O-27 M. Perlado	Basic considerations on the solid and liquid blanket of Laser Fusion chamber
12:30		
13:00	Lunch	
13:30		
	Chair: D. Jaroszynski/A. Pukhov	
14:00	I-20 F. Fiuza	Energy partition in collisionless shocks driven by high-power lasers
14:30	I-21 P. Raczka	Target charging, ion acceleration and electromagnetic pulse mitigation in high-intensity laser-solid interactions
15:00	O-28 O.-y. Jian-ming	Hundreds-petawatt laser pulses reshaping and heavy ion acceleration based on plasma channels
15:15	O-29 M. Murakami	Generation of giga-electron volt (GeV) proton beams by intense-laser- driven micro-nozzle acceleration
15:30	O-30 W.K. Wang	Resistive field generation in intense proton beam interaction with solid targets
15:45	O-31 Zs. Léczi	Ion acceleration from high-density dual-gas jet targets
16:00	Coffee Break	
16:30	I-22 M. Sciscio	Demonstration of high-repetition-rate alpha-particle generation from p+11B fusion reactions on petawatt-scale high-power lasers
17:00	O-32 P.D. Zhang	Research on laser-driven ion acceleration assisted by machine learning
17:15	O-33 V. Istoksaia	Real-time bremsstrahlung detector for monitoring laser-plasma proton acceleration
17:30	O-34 X.R. Jiang	High-flux Angularly Uniform Proton Beams from Multiple Laser Interaction with Wire-hemisphere Target
17:45	O-35 A. Dawood	Examining the Role of Magnetic Fields in Plasma Behaviour and Surface Evolution of Mg-Alloy in Femtosecond Laser Treatment

ECLIM 2024 - THURSDAY - 19th September

	Chair: J. Palastro / J. Davies	
09:00	I-23 Matt Zepf	Vacuum Birefringence and Photon Photon Scattering Using the Dark-field Approach
09:30	I-24 P. Dombi	Light-wave-controlled laser-solid interactions
10:00	I-25 G. Brodin	Transition from the Vlasov regime to the strong field regime
10:30	Coffee Break	
11:00	I-26 D. Jaroszynski	Demonstration of coherent undulator radiation from attosecond to femtosecond electron bunches produced by a laser wakefield accelerator
11:30	O-36 A. Bret	On the width of a collisionless shock and the index of the cosmic rays it accelerates
11:45	O-37 M. Vescovi	Reflected light characterization as a diagnostic tool for high intensity laser driven ion acceleration
12:00	O-38 T. Grismayer	Growth rate and steady-state distribution function of a QED cascade
12:15	O-40 V. Kocharovsky	Formation of current filaments and kiloTesla magnetic fields in the process of a strong discontinuity decay in a magnetized collisionless laser plasma
12:30	O-41 L.R. He	Experimental Study of Proton Acceleration using Water Leaf Targets
13:00	Lunch	
13:30		
14:00		POSTER SESSION
16:00		

ECLIM 2024 - FRIDAY - 20th September

	Chair: G. Williams/J. Vieira	
09:00	I-27 Vi. Tikhonchuk	Laser beam spray control with spatial and temporal smoothing
09:30	I-28 K. Dzierżęga	Thomson scattering in studies of laser-induced plasmas
10:00	I-29 Ph. Zeitoun	X-ray Hartmann and Shack-Hartmann wavefront sensing: from plasma to plenoptic cameras and medical imaging
10:30	Coffee Break	
11:00	I-30 D. Margarone	User Science at ELI Beamlines: the high-energy, high-repetition-rate laser facility of the Extreme Light Infrastructure
11:30	O-42 J. Cikhardt	Characterization of broadband EMP emission at the sub-nanosecond laser system PALS
11:45	O-43 S. Singh	Efficacy of laser-plasma interaction at Prague Asterix Laser System
12:00	O-44 K. Krajewska	Electron Jets in Ionization Driven by Attosecond Laser Pulses
12:15	O-45 K. Zeil	Diagnosing the onset of relativistically induced transparency in high-energy laser-driven proton acceleration experiments
12:30	O-46 G. Cirrone	I-LUCE: An Upcoming Facility for Radiation Production Using High-Power Laser Beams
13:00	Lunch	
13:30		
	Chair: R. Bingham/L.O.Silva	
14:00	I-31 A. Golovanov	Energy-conserving model of the bubble regime of plasma wakefield
14:30	O-47 M. Ehret	Advances in high-repetition-rate metrology of laser-driven ion beams and electromagnetic pulses at the CLPU
14:45	O-48 M. Cipriani	Ablation loading amplification from Carbon nano-structured foams
15:00	O-49 S. Arjmand	Integration of Capillary System in Laser-Plasma Accelerators for VHEE Beam Delivery
15:15	O-50 M. Majszyk	Spectral measurements in low temperature plasmas based on gaseous mixture targets
15:30	O-51 P. Tomassini	High-Brightness GeV-scale attosecond bunches and related Compton backscattering gamma beams
15:45	O-52 R. Stefaniková	Investigating Electron Acceleration and Transport in Ultra-High Intensity Laser-Solid Interaction
16:00	Coffee Break	
16:30	O-53 M. Vranic	Direct laser acceleration: prospects and opportunities
17:00		CLOSING
17:30		