

Monday, March 6th

08:00 - 09:00	Registration (also available Sunday, March 5th from 18:00 to 19:00)
09:00 - 09:15	Opening (Versace Room)
Session: WG introduction and Invited 1 (Versace Room) Chairperson: Ricardo Fonseca	
09:15 - 09:25	Yang Wan & Thales Silva <i>Working Group 1: Lepton acceleration</i>
09:25 - 09:35	Ulrich Schramm & Igor Andriyash <i>Working Group 2: Ion acceleration</i>
09:35 - 09:45	Amina Hussein & Miguel Pardal <i>Working Group 3: QED & secondary radiation generation and applications</i>
09:45 - 10:10	Ke Feng (SIOM-CAS) <i>Free electron lasing based on a laser wakefield accelerator in EUV regime</i>
10:10 - 10:35	Patric Muggli (MPIP & CERN) <i>Highlights of the AWAKE Plasma Wakefield Acceleration Experiment</i>
10:35 - 11:05	Coffee Break

Session: Invited 2 (Versace Room)

Chairperson: Alexander Pukhov

11:05 - 11:30	Alessandro Flacco (LOA) <i>Temporal aspects of laser-driven particle sources and application to radiation biology</i>
11:30 - 11:55	Francesco Massimo (LPGP - Paris-Saclay University) <i>Fast numerical tools and methods for plasma accelerator design</i>
11:55 - 12:20	Miguel Pardal (IST) <i>Radiation Diagnostic for OSIRIS: Applications in coherent betatron emission</i>
12:20 - 13:50	Lunch

Session: Invited 3 (Versace Room)

Chairperson: Alec Thomas

13:50 - 14:15	Jérôme Faure (LOA) <i>From all optical guiding and GeV beams to kiloHertz Laser-Plasma acceleration</i>
14:15 - 14:40	Mamiko Nishiuchi (QST) <i>Enhancement of ion acceleration from transparency-driven foils demonstrated at two ultra-intense laser facilities</i>
14:40 - 15:05	Elisabetta Boella (Lancaster University) <i>The novel Laser-hybrid Accelerator for Radiobiological Applications</i>
15:05 - 15:30	Bo Miao (University of Maryland) <i>Multi GeV Electron Bunches from an All-Optical Laser Wakefield Accelerator</i>
15:30 - 16:00	Coffee Break

Session: Honored Speaker (Versace Room)

Chairperson: Luís Silva

16:00 - 17:00

Chan Joshi (UCLA)

A perspective on Plasma Accelerator-based Linear Collider

17:30 - 18:30

Welcome Reception

Tuesday, March 7th

08:30 - 09:00	Registration	
Session: Invited 4 (Versace Room) Chairperson: Arie Irman		
09:00 - 09:25	Massimo Ferrario (INFN - LNF) <i>Free-electron lasing with compact beam-driven plasma wakefield accelerator</i>	
09:25 - 09:50	Matthew Streeter (Queen's University Belfast) <i>Automation and modelling of laser-driven plasma accelerators</i>	
09:50 - 10:15	Andreas Döpp (LMU Munich) <i>Machine-learning strategies for high-power laser experiments</i>	
10:15 - 10:55	Coffee Break	
	Session: WG1 (Versace Room)	Session: WG2 (Armani Room)
10:55 - 11:13	Matthias Fuchs (Uni. Nebraska-Lincoln) <i>High-efficiency compact laser-plasma electron accelerator</i>	Martin Rehwald (HZDR) <i>Ultra-short pulse laser acceleration of protons from cryogenic hydrogen jets tailored to near-critical density</i>
11:13 - 11:31	Moritz Foerster (LMU Munich) <i>High stability electron beams from staged laser and plasma wakefield accelerators</i>	Yasmina Azamoum (Helmholtz Jena) <i>Optical Probing of Ultrafast Laser-Induced Transitions from Solid to Overdense Plasma</i>
11:31 - 11:49	Aaron Liberman (Weizmann) <i>First Electron Acceleration with an Axiparabola</i>	Igor Andriyash (LOA) <i>Acceleration of low-divergence proton beams at kHz rate</i>

11:49 - 12:07	<p>Kosta Oubrierie (INRS) <i>Controlled acceleration of GeV electron beams in an all-optical plasma waveguide</i></p>	<p>Martin Matys (ELI Beamlines) <i>Plasma shutter for ion acceleration and spiral pulse generation</i></p>
12:07 - 12:25	<p>Linus Feder (University of Oxford) <i>Observation of resonant wakefield excitation by pulse trains guided in long plasma channels</i></p>	<p>Omri Seemann (Weizmann) <i>Relativistic interaction with critical laser-machining gas target</i></p>
12:25 - 13:55	Lunch	
	<p>Joint Session: Machine Learning (WG1+2) (Versace Room) Chairperson: Andreas Döpp</p>	<p>Session: WG3 (Armani Room)</p>
13:55 - 14:13	<p>Alexander Debus (HZDR) <i>From laser-plasma accelerator experiments to digital twins: Exploit machine learning methods to tighten the links between theory and experiment</i></p>	<p>Milenko Vescovi (HZDR) <i>Relativistic high harmonic generation with a PW short pulse laser as a laser-plasma interaction diagnostic</i></p>
14:13 - 14:31	<p>Marko von der Leyen (Uni. of Oxford) <i>Optical Alignment using Reinforcement Learning</i></p>	<p>Daniel Seipt (Helmholtz Jena) <i>Spin and polarization in effects in high-intensity laser-plasma interactions</i></p>
14:31 - 14:49	<p>Brendan Loughran (Queen's U. Belfast) <i>Automated control and optimisation of laser-driven ion acceleration</i></p>	<p>Ewan Bacon (University of Strathclyde) <i>High order modes of intense second harmonic light produced from self-generated and preformed plasma apertures</i></p>
14:49 - 15:07	<p>Ewan Dolier (University of Strathclyde) <i>Multi-parameter Bayesian optimization of laser-driven ion acceleration and synchrotron emission in PIC simulations</i></p>	<p>Mario Balcazar (University of Michigan) <i>Dynamic ultrafast X-ray imaging of shocks in water</i></p>

15:07 - 15:25	Elena Svystun (DESY) <i>Numerical studies on spin-polarised electron beam generation from a laser-driven plasma accelerator</i>	Gabriele Grittani (ELI Beamlines) <i>ELI-ELBA all-optical GeV electron - PW laser collider</i>
15:25 - 16:00	Coffee Break	
16:00 - 19:30	Poster Session (Valentino Room) [The poster list is available at the end of the document]	

Wednesday, March 8th

Session: Invited 5 (Versace Room)

Chairperson: Kristjan Pöder

09:00 - 09:25

Marie-Emmanuelle Couprie (Synchrotron SOLEIL)

The COXINEL seeded Free Electron Laser driven by the HZDR Laser Plasma Accelerator

09:25 - 09:50

Karl Zeil (HZDR)

Surpassing TNSA performance in laser proton acceleration in the relativistic transparency regime

09:50 - 10:15

Yang Wan (Weizmann Institute of Science)

Femtosecond electron microscopy of the laser-plasma wakefield dynamics

10:15 - 10:55

Coffee Break

Session: WG1 (Versace Room)

Session: Sources (Armani Room)

Chairperson: Malte Kaluza

10:55 - 11:13

Tatiana Nechaeva (MPIP)

Hosing of a long proton bunch induced by short electron bunch

Karl Krushelnick (Uni. of Michigan)

Laser Wakefield Acceleration at the ZEUS laser facility at the University of Michigan

11:13 - 11:31

Joséphine Monzac (LOA)

Observation of carrier-envelope phase (CEP) effects in a kiloHertz laser-wakefield accelerator

Oliver Finlay (STFC)

Laser Wakefield Accelerator Design for the Extreme Photonics Applications Centre (EPAC)

11:31 - 11:49

Matt Zepf (Helmholtz Jena)

Polarisation and CEP dependence of the transverse phase-space in laser driven accelerators

Christian Greb (FZ Juelich)

KAIO-Beamline – a modular high-repetition rate laser-plasma electron accelerator for a broad range of applications

11:49 - 12:07	Tom Katsouleas (Uni. of Connecticut) <i>Micro Plasmonic Wakefield Accelerators</i>	Carlo Maria Lazzarini (ELI Beamlines) <i>50 MeV electron beams from a scalable kHz laser</i>
12:07 - 12:25	Victor Malka (Weizmann) <i>Laser Plasma Accelerator for VHEE-RT: the ebeam4therapy project</i>	Anna Golinelli (Amplitude) <i>The quest for high repetition rate PW lasers: record 750TW @ 10Hz</i>
12:25 - 13:55	Lunch	
	Joint Session: WG1+WG3 (Versace Room)	Session: WG2 (Armani Room)
13:55 - 14:13	Alexander Pukhov (HHU Düsseldorf) <i>Peeler regime of laser-plasma interaction: electron and ion acceleration, X-ray emission</i>	Pilar Puyuelo-Valdes (CLPU) <i>High-repetition-rate targets at the CLPU: liquid, gas, and tape targets</i>
14:13 - 14:31	Tito Mendonça (IST) <i>Classical Unruh effect in plasma based accelerators</i>	Antoine Mitrallain (Uni. of Bordeaux) <i>Ion acceleration from optically shaped high density gas jet targets</i>
14:31 - 14:49	Arie Irman (HZDR) <i>Development of laser-plasma accelerators at HZDR for FEL applications</i>	Chuan Zheng (FZ Juelich) <i>Laser-induced acceleration of Helions from a high-density polarized gas-jet target</i>
14:49 - 15:07	Marija Vranic (IST) <i>Optimizing direct laser acceleration of leptons</i>	Peter Hinz (Helmholtz Jena) <i>High Efficiency Ion Acceleration from nano-scale targets reaching approaching 30 MeV/J</i>
15:07 - 15:25	Pablo San Miguel (LOA & IST) <i>First X-ray and Gamma-ray measurements at FACET-II</i>	Martin Metternich (TU Darmstadt) <i>The LIGHT beamline as a potential synchrotron injector</i>
15:25 - 16:00	Coffee Break	

16:00 - 16:30

John Dawson Thesis Prizes (Versace Room)

Thursday, March 9th

Session: Invited 6 (Versace Room)

Chairperson: Mamiko Nishiuchi

09:00 - 09:25

Dillon Ramsey (University of Rochester)

Direct Electron Acceleration and Radiation Generation in Space-Time Structured Laser Pulses

09:25 - 09:50

Kristjan Pöder (DESY)

Compact all-optical precision-tunable narrowband hard Compton X-ray source

09:50 - 10:15

Nicholas Dover (Imperial College London)

Enhanced ion acceleration from thin foils driven by ultra-intense femtosecond lasers

10:15 - 10:55

Coffee Break

Session: WG1 (Versace Room)

Session: WG3 (Armani Room)

10:55 - 11:13

Sébastien Corde (LOA)

Acceleration of positrons in plasmas with high energy efficiency

Raoul Trines (STFC)

Laser harmonic generation with tuneable orbital angular momentum using a structured plasma target

11:13 - 11:31

Nicholas Ernst (University of Michigan)

Controlled electron injection from wake shaping using co-propagating laser pulses

Max Gilljohann (LOA)

The E332 experiment at FACET-II: Towards solid density beams and intense gamma-ray beams

11:31 - 11:49

Weiming An (Beijing Normal University)

Recent Progress on QuickPIC

Amina Hussein (University of Alberta)

Imaging of dynamic processes in materials using high-repetition rate betatron x-rays

11:49 - 12:07	<p align="center">Pierre Drobniak (IJCLab) <i>Fast Particle-in-Cell simulations-based method for the optimisation of a laser-plasma electron accelerator</i></p>	<p align="center">Alec Thomas (University of Michigan) <i>Phase matched photon acceleration from Optical to XUV in a beam driven wakefield</i></p>
12:07 - 12:25	<p align="center">Paolo Tomassini (ELI-NP) <i>Bright attosecond electron beams and brilliant gamma ray sources with the Resonant Multi-Pulse Ionization Injection</i></p>	<p align="center">Bernardo Malaca (IST) <i>Coherence and superradiance from a plasma-based quasiparticle accelerator</i></p>
12:25 - 13:55	Lunch	
13:55 - 18:30	Excursion / Free afternoon	
20:00 - 23:00	<p>Conference Dinner (Valentino Room) <i>Banquet Speakers: Tom Katsouleas & Bob Bingham</i></p>	

Friday, March 10th

Session: Invited 7 (Versace Room)

Chairperson: Sébastien Corde

09:00 - 09:25

Rafal Zgadzaj (University of Texas at Austin)

CO₂-laser-driven wakefield acceleration

09:25 - 09:50

Hyung Taek Kim (GIST)

Effects of Neon Dopant on LWFA with Multi-PW Laser Pulses

09:50 - 10:15

Aarón Alejo Alonso (University of Santiago de Compostela)

Acceleration of ions from ultra-thin foils and neutron generation

10:15 - 10:40

Stefan Karsch (LMU Munich)

Towards stable multi-GeV laser-wakefield operation on PW lasers

10:40 - 11:10

Coffee Break

Session: WG summaries (Versace Room)

Chairperson: Jorge Vieira

11:10 - 11:30

Yang Wan & Thales Silva

Working Group 1: Lepton acceleration

11:30 - 11:50

Ulrich Schramm & Igor Andriyash

Working Group 2: Ion acceleration

11:50 - 12:10

Amina Hussein & Miguel Pardal

Working Group 3: QED & secondary radiation generation and applications

12:10 - 12:25

Closing (Versace Room)

Tuesday, March 7th

Poster Presentations

#01	Elias Catrix (INRS) <i>Clusterized surface transformation under intense heating generated by laser-accelerated proton irradiation</i>
#02	Patric Muggli (MPIP) <i>Current Filamentation Instability of a Long Proton Bunch in Plasma</i>
#03	Jinpu Lin (LMU Munich) <i>Applications of object detection networks at high-power laser systems and experiments</i>
#04	Faran Irshad (LMU Munich) <i>Multi-objective and multi-fidelity Bayesian optimization of laser-plasma acceleration</i>
#05	Dragos Popescu (ELI-NP) <i>Automatic scanning and benchmarking of thin film targets using Machine Learning techniques</i>
#06	Rakesh Yembadi (Imperial College London) <i>Bayesian optimization of ultrashort, 100 MeV-scale, 1 kHz rep. rate laser-plasma electron accelerator at Eli-Alps: First results</i>
#07	—
#08	Vlad Gaciu (ELI-NP) <i>Machine learning for beam profile classification in the operation of the ELI-NP high power laser</i>
#09	Cruz Méndez (CLPU) <i>VEGA PW facility: usage statistics and management tools</i>

#10	Eyal Kroupp (Weizmann Institute of Science) <i>Commissioning and First Results from the new 2X100 TW laser at the WIS</i>
#11	Valeria Istokskaia (ELI Beamlines) <i>Laser-driven ion acceleration at the ELIMAIA user beamline: commissioning experiments</i>
#12	Hyung Taek Kim (GIST) <i>Strategy and planning for construction of next-generation ultra-intense laser facility in Korea</i>
#13	Amin Ghaith (HZDR) <i>Operation of the COXINEL line at HZDR</i>
#14	Slava Smartsev (LOA) <i>Characterization of spatiotemporal couplings with far-field beamlet cross-correlation</i>
#15	Xinhe Huang (DESY) <i>3-dimensional full characterization of laser pulses with optical angular momentum</i>
#16	Rafael Almeida (IST) <i>Arbitrarily non-paraxial electromagnetic wave-packets in particle-in-cell codes</i>
#17	Szilárd Majorosi (ELI-ALPS) <i>Numerical representation of tightly focused ultra-short laser pulses with different beam modes</i>
#18	Anton Golovanov (Weizmann Institute of Science) <i>Energy-conserving theory of plasma wakefield in the bubble regime</i>
#19	Anton Golovanov (Weizmann Institute of Science) <i>Tailoring density downramp injection in particle-driven wakefield accelerators</i>

#20	Zsolt Lécz (ELI-ALPS) <i>Laser Wakefield Acceleration with Two Collinear Laser Pulses</i>
#21	John Farmer (MPIP) <i>Wakefield regeneration in a plasma accelerator</i>
#22	Richard Pausch (HZDR) <i>What is going on in a laser plasma wakefield accelerator (LPWFA)? - a theoretical perspective on the hybrid concept</i>
#23	Claudia Cobo (University of York) <i>Effects of plasma density fluctuations on density transition-injected electrons in laser wakefield accelerators</i>
#24	Max Gilljohann (LOA) <i>The E336 experiment at FACET-II: Wakefield acceleration and modulation of dense electron beams in nanostructures</i>
#25	Paolo Tomassini (ELI-NP) <i>Accurate electron beam phase-space theory for ionisation injection schemes</i>
#26	Alexander Debus (HZDR) <i>Impact of LWFA injection schemes on longitudinal electron bunch properties diagnosed by single-shot CTR spectrometry</i>
#27	Kristjan Pöder (DESY) <i>High-quality polarised electron bunches from colliding pulse injection</i>
#28	Mariana Moreira (IST) <i>Mapping out the dynamic growth rate of the self-modulation instability</i>
#29	Carola Zepter (FSU Jena) <i>The Influence of Spatio-Temporal Couplings on Laser Wakefield Accelerators</i>
#30	—

#31	Chiara Badiali (IST) <i>Plasma-based acceleration of non-relativistic particles</i>
#32	Ronan Lahaye (LOA) <i>Measurement and control of the group velocity of an axiparabola for dephasingless acceleration of electron</i>
#33	Pablo Morales Guzmán (MPIP) <i>Numerical study of non-linear plasma response to a long proton bunch and its effect on an electron bunch</i>
#34	Bertrand Martinez (IST) <i>Direct Laser Acceleration of Bethe-Heitler positrons in a plasma channel</i>
#35	Alec Thomas (University of Michigan) <i>Modeling chromatic emittance growth in staged plasma wakefield acceleration to 1 TeV using nonlinear transfer matrices</i>
#36	Alec Thomas (University of Michigan) <i>A spin and polarization-dependent QED module for OSIRIS 4.0 for modeling strong field QED laser-plasma experiments</i>
#37	Óscar Amaro (IST) <i>Toolkit for efficient modelling of realistic laser scattering experiments</i>
#38	Lars Reichwein (HHU Düsseldorf) <i>Simulations of spin-polarized ion beams from laser-plasma interaction</i>
#39	Israa Salaheldin (Helmholtz Jena) <i>Laser-driven Ion Acceleration from pre-expanded thin foils</i>
#40	Paul McKenna (University of Strathclyde) <i>Optimisation of multi-petawatt laser-driven proton acceleration in the relativistic transparency regime</i>

#41	Camilla Willim (IST) <i>High-energetic proton beams with low divergence driven by twisted laser from double-layer target</i>
#42	Stefan Assenbaum (HZDR) <i>Investigation of laser-induced breakdown and target pre-expansion for laser proton acceleration</i>
#43	Esin Aktan (HHU Düsseldorf) <i>Laser Contrast Study of Laser-Accelerated Multi-MeV Protons from a Continuous Hydrogen Cluster-Jet Target</i>
#44	Marvin Umlandt (HZDR) <i>Optimizing PW Laser-Driven Proton Acceleration by Characterizing Laser Transmission of Relativistically Transparent Targets</i>
#45	Malte Kaluza (FSU Jena) <i>High-Resolution Diagnostics for Laser-Plasma Interactions with Overdense Plasmas</i>
#46	Haress Nazary (TU Darmstadt) <i>Towards Stopping Power Experiments with LIGHT</i>
#47	Alma Kurmanova (INFN - LNS) <i>A compact high resolution Thomson Parabola Spectrometer</i>
#48	Yuliia Mankovska (LOA) <i>High precision probing of laser-solid interaction with LWFA-generated electron beams</i>
#49	Sheroy Tata (Weizmann Institute of Science) <i>Probing the dynamics of under-dense plasma expansion with ultra-short electron bunches</i>
#50	Abigail James (University of Oxford) <i>Noise-dependence of Frequency Domain Holography reconstruction algorithms</i>

#51	Yu Zhao (Helmholtz Jena) <i>Monochromatic shadowgraphy and mid-infrared probing of LWFA</i>
#52	Jan Pucek (MPIP) <i>Reproducibility of wakefield amplitude from a plasma light diagnostic</i>
#53	Sunny Howard (University of Oxford) <i>Hyperspectral Compressive Wavefront Sensing</i>
#54	Marcel Lamač (ELI Beamlines) <i>Laser-plasma accelerator driven X-ray sources and advanced concepts at ELI Beamlines</i>
#55	Sandrine Dobosz Dufrénoy (CEA Paris-Saclay) <i>Dosimetry development for extreme dose rate electron beams from laser-driven particle sources</i>
#56	Maksym Tryus (ELI Beamlines) <i>Liquid jet target system for laser-plasma interactions at kHz repetition rate</i>
#57	Camilla Giaccaglia (LOA) <i>Exploring high-charge irradiation conditions with laser-driven very high energy electrons for radiation biology</i>
#58	Luís O. Silva (IST) <i>Transverse phase-space dynamics of betatron cooled electron beams in ion channels</i>
#59	Alexander Sävert (Helmholtz Jena) <i>Nonlinear Plasma Phenomena: Observation of Relativistic Postsolitons and Rayleigh Taylor Like Instabilities</i>
#60	Andreas Seidel (FSU Jena) <i>Controlled Injection in a Multi-Stage Gas Cell</i>

#61	Nelson Lopes (IST) <i>A length-scalable discharge plasma source for plasma wakefield accelerators</i>
#62	Vidmantas Tomkus (FTMC) <i>Two-stage nozzle optimised for laser wakefield acceleration of electrons using Bessel-Gauss beams</i>
#63	Sebastian Lorenz (ELI Beamlines) <i>Development of Gas Targets for Stable Laser Wakefield Electron Acceleration at ELI-Beamlines</i>