

CONFERENCE PROGRAM

	Monday, October 4 th	Tuesday, October 5 th	Wednesday, October 6 th	Thursday, October 7 th	Friday, October 8 th
1 [^] morning session 8.30-10.20	<i>Laser driven electron acceleration I</i> (chair: Victor Malka)	<i>Attosecond pulses/ultrafast molecular processes</i> (chair: Olga Rosmej)	<i>Laser driven ion acceleration II</i> starting time: 8.10 (chair: Thomas Cowan)	<i>X ray production</i> (chair: Markus Roth)	<i>Laser driven ion acceleration III</i> (chair: Marco Borghesi)
	INTRODUCTION (Joachain, Batani, Passoni)	Alfred Maquet [I] Harmonic phases and attosecond electron dynamics in small molecules: Challenges for theory.	Alan Michette Coherent diffraction imaging using high harmonic generation sources.	Emily Sistrunk [I] Strong field physics in the x-ray regime.	Markus Roth [I] Laser Driven Ion Beams -Status and Perspectives for Research and Fusion.
	Chan Joshi [I] Charged Particle Acceleration Using Intense Laser and Particle beams.	Mauro Nisoli [I] Isolated attosecond pulses for the investigation of electron localization processes in molecules.	Francesco Pegoraro [I] Ion acceleration in the RPDA regime.	Masaki Kando Novel x-ray generation schemes based on electron cusps formed via intense laser plasma interaction.	Ulrich Schramm Applications of 100 TW class ultrashort pulse lasers.
	Nikolay E. Andreev Laser wakefield acceleration of supershort electron bunches in guiding structures.	Rodrigo Lopez-Martens High-harmonic generation on plasma mirrors in the λ^3 regime.	Andrey Brantov [I] Ion acceleration from solid and low-dense targets	Sebastien Corde Femtosecond X-rays from Laser-Plasma Accelerators.	Claes Göran Wahlström Hollow Microspheres – A Novel Target for Staged Laser-Driven Proton Acceleration.
	Alex Arefiev Generation of energetic ions by laser-irradiated plasmas.	Jens Biegert Enhancement of HHG yield.	Matteo Tamburini Radiation reaction effects on electron nonlinear dynamics and ion acceleration in laser-solid interaction.	Liming Chen High contrast laser driven intense x-ray source for imaging application.	Daniele Margarone High current, high energy proton beams accelerated by a sub-nanosecond laser.
Tomonao Hosokai Electron energy boosting in laser-wake-field acceleration with transient plasma micro-optics.	Edmond Turcu Ultrafast Materials Science with the Artemis XUV beamline.	Thomas Sokollik Proton Acceleration from Mass-Limited Targets.	<i>Coffee break 10.20-10.40</i>		
2 [^] morning session 10.40-12.30	<i>Inertial fusion</i> (chair: Jurgen Meyer-ter-Vehn)	<i>Fast ignition</i> (chair: Riccardo Betti)	<i>Ultraintense laser-matter interaction</i> (chair: David Ros)	<i>Astrophysics and nuclear physics using ultraintense lasers</i> (chair: Peter Mulser)	<i>Developments in superintense laser technology</i> (chair: Rodrigo Lopez-Martens)
	Riccardo Betti [I] The Lawson criterion for inertial confinement fusion.	Benjamin Vauzour [I] Fast ignition: propagation of fast electrons in compressed matter.	Juergen Meyer-ter-Vehn [I] Uniform laser-driven relativistic electron layer for coherent Thomson scattering.	Vyacheslav M. Gordienko [I] Powerful picosecond 10- μ m laser radiation in gaseous and cluster media: pulse duration control, particle acceleration and nuclear excitation.	Federico Canova (Amplitude) Power amplifier for Ti:Sapphire multi 100 TW and PW lasers.
	Mayuko Koga [I] Present status and future prospect of Fast Ignition realization Experiment (FIREX) with Gekko and LFEX at ILE.	Anthony J. Link [I] The Role of Hot Electron Divergence in Determining the Efficacy of Fast Fusion.	Peter Mulser [I] Collisionless absorption of sub-ps laser pulses, fast electron spectra and scaling with intensity.	Franck Gobet [I] Nuclear Physics experiments with high energy lasers.	Stephanie Grabielle (Fastlite) Self-Referenced Spectral interferometry: a comparison with SPIDER.
	Jiri Limpouch Simulation study of parametric instabilities at intensities relevant to shock ignition.	Luca Volpe Proton Radiography of Cylindrical Laser-Driven Implosions.	Piotr A. Raćzka Evolution of positrons produced in a plasma target of solid density.	Daniel Symes Studying radiative shocks using laser driven blast waves in clustered gases.	Tommaso Tessitore (Le Croy) Inside an High Bandwidth, Real Time Oscilloscope.
Gerard Malka Study of laser hole-boring using foam target.	Olga Rosmej Nanostructures irradiated by fs and ns laser pulses: latest advances on X-ray sources and high energy density plasmas.	Rachel Nuter Field ionization in PIC codes and application to laser-accelerated ions.	Manoranjan Khan Development of Rayleigh-Taylor Instability in presence of magnetic field.	Nicola Lefaudeux (Imagineoptics) Wavefront sensing and adaptive optics implementation on ultra-intense lasers.	

<i>lunch</i>					
	<i>Laser driven ion acceleration I (chair: Francesco Pegoraro)</i>	<i>Laser driven electron acceleration II (chair: Chan Joshi)</i>	<i>Projects (chair: Alfred Maquet)</i>	<i>Tour</i>	<i>Laser driven electron acceleration III (chair: Claes G. Wahlström)</i>
Afternoon session 14.45-16.35	Thomas Cowan [I] Maximizing the energy of laser-accelerated protons and ions within Target Normal Sheath Acceleration.	James Rosenzweig [I] Teravolt-per-meter plasma wakefields from low-charge, femtosecond electron beams.	Riccardo Betti [I] The path to ignition within the US inertial confinement fusion program.		Paul McKenna [I] Investigations of fast electron generation and transport in dense plasma using the Vulcan PW laser.
	Marco Borghesi [I] Radiation pressure acceleration of ions from thin foils irradiated by ultraintense laser pulses.	Mark Hogan [I] Particle Driven Wakefields in Plasmas.	Robert Bingham [I] HiPER: the European path to inertial fusion energy.		Arkady V. Kim Electron Acceleration with Sub-Petawatt Laser PEARL: Current Studies and Prospects.
	Karl Zeil Laser proton acceleration from mass limited silicon foils.	Francois Sylla Observation of ion spectral modulations from multi-TW Ti:Sa laser interaction with underdense plasma.	Luca Labate [I] The FLAME Laser and the Test Experiment at LNF-FRASCATI		Victor Malka [I] High current electron beam produced with laser plasma accelerators
	Arie Zigler Generation of fast protons by interaction of modest laser intensities with H2O "snow" nano-wire targets.	Paolo Valente Development of a Multi-GeV spectrometer for laser-plasma experiments at FLAME.	David ROS [I] LASERIX : an open facility for developments of Soft X-ray and EUV lasers and Applications.		CONCLUSION
<i>Coffee break 16.35-17.00</i>					
17.00-18.00	<i>Poster session</i>	<i>Poster session</i>	<i>Poster session</i>		<i>Coffee Break</i>
	Welcome reception		Concerto Chiesa S.Giorgio		Departures

Legend:

[I] >invited