

FILMITH 2012 – Program

--Wednesday, Sept 19 --

9:00-9:10	Joachain	Opening by the chairman of SILMI
9:10-9:40	Schroeder	Laser-plasma accelerators for high-energy physics and light source applications
9:40-10:10	Gamaly	Phase transformations produced inside a crystal
10:10-10:30	Psikal	Laser-driven proton acceleration enhancement by structured foils (simulations and experiments)
10:30-11:00	-- BREAK --	
11:00-11:30	Malka	Electron and X ray beams produced by laser plasma accelerators
11:30-12:00	Grech	High energy photon emission and its back-reaction effect in UHI laser-plasma interaction
12:00-14:00	-- LUNCH --	
14:00-14:30	Pukhov	Laser interaction with thin foils: new sources of radiation and fast particles
14:30-15:10	Sheng / Wang	Two-stage acceleration of protons from relativistic laser-solid interactions
15:10-15:40	Silva	Novel simulation approaches for laser-plasma accelerators and fast ignition
15:40-16:00	-- BREAK --	
16:00-16:20	Meyer-ter-Vehn	Giant half-cycle attosecond pulse from ultrathin foils
16:20-16:50	Zepf	Coherent Emission from ultraintense laser thin foil interactions
	-- DINNER --	

--Thursday, Sept 20 --

9:00-9:30	Rohringer	Amplified spontaneous x-ray emission in atomic and molecular gases
9:30-10:00	Tikhonchuk	Electron heating and acceleration in two plasmas colliding with sub-relativistic velocities
10:00-10:30	Goulielmakis	Elements of attosecond control of electrons
10:30-11:00	-- BREAK --	
11:00-11:30	Santra	Ultrafast processes in xenon
11:30-12:00	Yabana	Ab-initio description for the interaction of intense laser pulses with solids

12:00-14:00	-- LUNCH --	
14:00-14:30	Demekhin	Coherent Intense Laser Pulses Lead to Interference in the Time Domain: Dynamic Interference of Electron Waves
14:30-15:00	Madsen	Strong field ionization of molecules
15:00-15:30	Marini	Phonon-induced dynamics of electrons and excitons in solids driven out-of-equilibrium by strong laser pulses: an Ab-Initio approach
15:30-16:00	-- BREAK --	
16:00-16:30	Maquet	Attosecond delays in photoionization: A theoretical perspective
16:30-17:00	Smirnova	Attosecond multielectron dynamics in tunnel ionization
17:00-17:30	Cederbaum	Exploring Intermolecular Coulombic Decay by free electron lasers
	-- DINNER --	
--Friday, Sept 21 --		
9:00-9:30	Bauer	Coulomb-corrected quantum orbits in strong-field ionization
9:30-10:00	Seipt	Strong field QED processes in short laser pulses
10:00-10:30	Keitel	Electrons, ions and nuclei in extremely intense laser pulses
10:30-11:00	-- BREAK --	
11:00-11:30	Di Piazza	Testing strong-field CED and QED with intense laser fields
11:30-12:00	Marklund	Strong field QED effects in laser-matter interactions
12:00-14:00	-- LUNCH --	
14:00-14:30	Ilderton	Open problems and challenges in strong field QED
14:30-15:00	Fedotov	Pair creation by collision of intense laser pulse with high-frequency photon beam
15:00-15:30	Berenyi	Pair Production in Strong Fields: The Wigner function approach
15:30-16:00	-- BREAK --	
16:00-16:20	Raczka	Particle production effects in laser-matter interactions at ultra-high intensities
16:20-16:50	Narozhny	Vacuum instability in extreme laser fields
END 17:00		

-- POSTERS --

Bamberg	The AMR domain
Boca / Florescu	Radiation Reaction Effects in Non-linear Thomson scattering
Deutschmann	FEL simulation
Dinu	Nonlinear Compton Scattering Probabilities
Elkina	Radiation reaction in laser irradiated plasma
King	Trident pair production in a constant-crossed field
Klier	Simulation of strong cascading and spontaneous vacuum decay
Kruchinin	Light induced currents in dielectrics and wide band gap semiconductors: quantum kinetic approach
Laasner	Band tail absorption saturation in CdWO ₄ with 100-fs laser pulses
Lupetti	High repetition rate attosecond sources by plasmonic enhancement
Majety	Ionic shake-up in the XUV ionization of molecules
Sato	Time-dependent density functional theory for ultrafast electron dynamics at solid surfaces
Siminos	Electron heating effect on self-induced transparency in relativistic intensity laser-plasma interaction
Zielinski	A new parallel code implementing t-SURFF: fully differential two-electron spectra at IR wavelength