



## Joint JRA Meeting, Florence 9-10 October 2019

### Wednesday, October 9 (Sesto Fiorentino Campus)

12.30 - 13.30	<b>Light lunch</b>			
	Joint Session 1: PHOTMAT - BIOAPP (Aula Querzoli, LENS)		Joint Session 2: ILAT - LEPP (Aula Magna, Department of Physics)	
	13.45 - 13.50	Introduction of PHOTMAT and BIOAPP JRA Coordinators	13.45 - 13.50	Introduction of ILAT and LEPP JRA Coordinators
	13.50- 14.05	“Femtosecond X-Ray Diffraction” <i>Amélie Ferré, LP3 (PHOTMAT)</i>	13.50- 14.05	“Summary laser material development” <i>Laurent Lamaignere, CESTA (ILAT)</i>
	14.05- 14.20-	“MID-IR sources for photoionization experiments” <i>Salvatore Stagira, POLIMI (PHOTMAT)</i>	14.05- 14.20-	“Accurate high rep-rate CEP measurements” <i>Adam Borzsonyi, USZ (ILAT)</i>
	14.35 - 14.50	“Soft X-ray bioimaging at nanometer scale and patterning of polymer surfaces with EUV photons for bio-compatibility control” <i>Henrik Fiedorowicz, MUT (PHOTMAT)</i>	14.35 - 14.50	“High power MID-IR fiber lasers” <i>Luke Maidment, ICFO (ILAT)</i>
13.45 - 16.05	14.50 - 15.05	“Light-sheet microscopy” <i>Ludovico Silvestri, LENS (BIOAPP)</i>	14.50 - 15.05	“New algorithm in PIC code for a better modeling of the transverse properties of the wakefield accelerated beam” <i>Xavier Davoine, CEA (LEPP)</i>
	15.05 - 15.20	Ultrafast Magneto-optical Sensing” <i>Charlotte Sanders, CLF (PHOTMAT)</i>	15.05 - 15.20	“Next generation coherent X-ray sources” <i>David Garzella, LIDYL (ILAT)</i>
	15.20 15.35	“Femtosecond electron diffraction” <i>Luke Maidment, ICFO (PHOTMAT)</i>	15.20 15.35	“20GW attosecond XUV beam-line <i>Dimitris Charalambidis, FORTH (LEPP)</i>
	15.35 - 15.50	“Bringing multimodal microscopies to the clinic” <i>Freek Ariese, LLAMS (BIOAPP)</i>	15.35 - 15.50	“Imaging and spectroscopy in the soft x-ray” <i>Holger Stiel, MBI (LEPP)</i>
	15.50 16.05	“Environmental sensing using cellular autofluorescence” <i>Alzbeta M. Chorvatova, ILC (BIOAPP)</i>	15.50 16.05	“Radiobiology with the fast fractionation effect” <i>Alessandro Flacco, LOA (LEPP)</i>
16.05 - 16.30	<b>coffee break</b>			

16.30 - 17.15	16.30 - 16.45	“Plasmonic sensors” <i>Aleksejs Lihacovs, UL (PHOTMAT)</i>	16.30 - 16.45	“An action of ionizing radiation on (bio)molecular systems at high dose” <i>Ludek Vysin, IP-CAS (LEPP)</i>
	16.45 17.00	“Progress in spontaneous and coherent Raman imaging for tissue diagnostics” <i>Christoph Krafft, IPHT (BIOAPP)</i>	16.45 17.00	“Preparation for laser-based proton beam irradiation in vivo zebrafish model” <i>Rita Emilia Szabo &amp; Tunde Tokes, USZ (LEPP)</i>
	17.00- 17.15	“Lasers, materials and beauty – how photoacoustic waves can make us look better” <i>Luis Arnaut, UC Coimbra (BIOAPP)</i>	17.00- 17.15	“Proton detector based on scintillators for High rep rate at Dresden” <i>Luca Volpe, CLPU (LEPP)</i>
<b>Sessions dedicated to Laserlab IV JRA reporting duties</b>				
Joint Session 1: PHOTMAT - BIOAPP			Joint Session 2: ILAT - LEPP	
17.15- 18.15	17.15 - 17.35	<i>Deliverables, due by Nov. 15<sup>th</sup> 2019</i>	17.15 - 17.35	<i>Deliverables, due by Nov. 15<sup>th</sup> 2019</i>
	17.35 - 17.55	<i>Dec 2018-Nov 2019 activity report, due by Jan. 15<sup>th</sup> 2020</i>	17.35 - 17.55	<i>Dec 2018-Nov 2019 activity report, due by Jan. 15<sup>th</sup> 2020</i>
	17.55 - 18.15	<i>Final report over the whole project, due by Jan. 15<sup>th</sup> 2020</i>	17.55 - 18.15	<i>Final report over the whole project, due by Jan. 15<sup>th</sup> 2020</i>
18.30 - 19.15	<b>Bus from “Polo Scientifico” Campus Sesto Fiorentino to Florence city center</b>			

**Thursday, October 10** (Sesto Fiorentino Campus, Aula Magna, Department of Physics)

**Joint JRA Session open to Laserlab-Europe Conference Participants**

08.00 - 08.45	<i>Bus from Florence city center to Polo scientifico Campus Sesto Fiorentino</i>
	<i>Chair: Francesco Pavone</i>
09.00 - 09.25	“Development of a new diagnostic technique based on time-domain DCS and/or development and characterisation of tissue-mimicking phantoms” <i>Cosimo D’Andrea, POLIMI &amp; IFCO (BIOAPP)</i>
09.25 - 09.50	“Advanced Attosecond Working Stations for Material Science Studies” <i>Philippe Martin, CEA-LIDYL (PHOTMAT)</i>
09.50 - 10.15	“Advances of ultrafast lasers’ employment for the highly-efficient fabrication of mesoscale structures combining individual micro-/nano features with overall macro-dimensions out of various biomaterials” <i>Mangirdas Malinauskas, VULRC (BIOAPP)</i>
10.15 - 10.45	<b>coffee break</b>
	<i>Chair: Marta Fajardo</i>
10.45 - 11.10	“Advanced Time resolved non-linear spectroscopy “ <i>Christian Manzoni, POLIMI, LU &amp; LLAMS, (PHOTMAT)</i>
11.10 - 11.35	“Advances in Spectroscopic Analytical Capability” <i>Freek Ariese, LLAMS (PHOTMAT)</i>
11.35 - 12.00	“Targetry” <i>Dino Jaroszynski, STRATH (LEPP)</i>
12.00 - 12.25	“Preparing laser accelerated proton beams for dose controlled irradiation studies” <i>Ulrich Schramm, HZDR (LEPP)</i>
12.30 - 14.00	<b>light lunch</b>
	<i>Chair: Joachim Hein</i>
14.00 - 14.25	“Laser beams control and combination” <i>Jean-Christophe Chanteloup, LULI &amp; STFC (ILAT)</i>
14.25 - 14.50	“High repetition rate CEP and spatio-temporal pulse characterization” <i>Cord Arnold, LLC &amp; USZ (ILAT)</i>
14.50 - 15.15	“MID-IR laser development” <i>Federico Furch, MBI, ICFO &amp; MPG (ILAT)</i>
15.15 - 15.45	<b>coffee break</b>
	<i>Laserlab V JRA kick-off</i> <i>Chair: Claes-Göran Wahlström</i>
15.45- 16.10	PRImary and SEcondary Sources (bottlenecks, metrology, diagnostics tools) and advanced application workstations (PRISES) <i>Joachim Hein, HIJ</i>
16.10 - 16.35	Advanced Laser-based Techniques for Imaging and Spectroscopy in material science and biomedicine (ALTIS) <i>Mike Towrie, STFC</i>
16.35 - 18.00	<i>Visit to LENS laboratories</i>
18.30 - 19.15	<i>Bus from “Polo Scientifico” Campus Sesto Fiorentino to city center</i>
20.00 22.00	<i>Laserlab social dinner for JRA meeting &amp; Conference participants (restaurant in city center)</i>