

Table of contents

Monday 04 April 2016	1
Tuesday 05 April 2016	2
Wednesday 06 April 2016	3
Thursday 07 April 2016	4
Friday 08 April 2016	5
Monday 11 April 2016	6
Tuesday 12 April 2016	7
Wednesday 13 April 2016	8
Thursday 14 April 2016	9
Friday 15 April 2016	10

School on Synchrotron and Free-Electron-Laser Based Methods: Multidisciplinary Applications and Perspectives | (smr 2812)

Monday 04 April 2016

: Conference bags are found in the Leonardo building, Foyer (to right). - LB (Euler Lecture Hall) (09:00-21:00)

time	title	presenter
09:00	For administrative formalities	
09:30	REGISTRATION	
10:00	Opening	
10:15	Fundamentals of Synchrotron Radiation and Free Electron Lasers (I)	GIORGIO MARGARITONDO
11:15	Coffee Break	
11:30	Fundamentals of Synchrotron Radiation and Free Electron Lasers (II)	GIORGIO MARGARITONDO
12:30	LUNCH BREAK	
14:00	Shaping FEL radiation: from multipulse/multicolor emission to generation of twisted light (I)	PRIMOZ R. RIBI■
15:00	Break	
15:15	Shaping FEL radiation: from multipulse/multicolor emission to generation of twisted light (II)	PRIMOZ R. RIBI■
16:15	Coffee Break	
16:45	Interactions of x-rays with matter: absorption, scattering, emission	DAVID ATTWOOD
18:30	Get together	

Tuesday 05 April 2016

- LB (Euler Lecture Hall) (09:00-18:30)

time	title	presenter
09:00	Interactions of x-rays with matter: with FEL coherence and time structure	DAVID ATTWOOD
10:30	Coffee Break	
11:00	Advances in time domain spectroscopies, a table-top approach complementary to FEL and SR sources	DANIELE FAUSTI
12:30	LUNCH BREAK	
14:00	Basic Aspects of x-ray crystallography and powder diffraction	PAOLO SCARDI
15:30	Coffee Break	
16:00	Diffraction from nanocrystalline materials	PAOLO SCARDI
17:00	Break	
17:15	Protein crystallography with synchrotrons and FELs: from static to time-resolved	JANOS HAJDU

Wednesday 06 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:15)

time	title	presenter
09:00	Protein Crystallography with FELs: towards imaging single protein molecule	JANOS HAJDU
10:30	Coffee Break	
11:00	SAXS and WAXS alternatives when crystallography is not possible	HEINZ AMENITSCH
12:30	LUNCH BREAK	
14:00	SAXS applications in life science and material science using synchrotron	HEINZ AMENITSCH
15:30	Coffee Break	
16:00	X-ray photon correlation spectroscopy at synchrotron and FEL sources	CHRISTIAN GUTT
17:00	Break	
17:15	Ultrafast spin and magnetization dynamics probed by resonant diffraction	CHRISTIAN GUTT

Thursday 07 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:15)

time	title	presenter
09:00	X-ray absorption spectroscopy: principles, methods and data analysis	GIULIANA AQUILANTI
10:30	Coffee Break	
11:00	X-ray absorption spectroscopy applied to operando and time resolved studies	GIULIANA AQUILANTI
12:30	LUNCH BREAK	
14:00	X-ray Emission Spectroscopy: quantitative X-Ray Fluorescence analysis	BURKHARD BECKHOFF
15:30	Coffee Break	
16:00	Grazing-incidence X-Ray Spectrometry and X-Ray Reflectometry: principle and applications	BURKHARD BECKHOFF
17:00	Break	
17:15	High-resolution X-Ray Emission spectroscopy and XAFS: applications using calibrated instrumentation	BURKHARD BECKHOFF

Friday 08 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:00)

time	title	presenter
09:00	Resonant Inelastic X-ray Scattering: principles and methodology	GIACOMO GHIRINGHELLI
10:00	Coffee Break	
10:30	Applications of high resolution RIXS	GIACOMO GHIRINGHELLI
11:30	UV resonance Raman scattering at Elettra: principle and applications	BARBARA ROSSI
12:30	LUNCH BREAK	
14:00	For transportation to Elettra	
15:00	VISIT AT ELETTRA	

Monday 11 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:15)

time	title	presenter
09:00	RIXS and XES with FELs: applications	ALEXANDER FÖHLISCH
10:30	Coffee Break	
11:00	RIXS and XES with FELs: stimulated emission	ALEXANDER FÖHLISCH
12:30	LUNCH BREAK	
14:00	Multicolor experiments with FEL: 4WM	CLAUDIO MASCIOVECCHIO
15:30	Coffee Break	
16:00	Ultrafast dynamics in matter under extreme conditions	EMILIANO PRINCIPI
17:00	Break	
17:15	Time-resolved XAS with FELs: recent advances at FERMI	EMILIANO PRINCIPI

Tuesday 12 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:30)

time	title	presenter
09:00	Photoelectron Spectroscopy, CL shifts and spin	ALBERTO VERDINI
10:30	Coffee Break	
11:00	ARPES	LUCA PETACCIA
12:30	LUNCH BREAK	
14:00	Photoelectron Diffraction and holography	JÜRGEN OSTERWALDER
15:30	Coffee Break	
16:00	Hard X-ray photoemission and AP-PES	JÜRGEN OSTERWALDER
17:30	Electronic structure and atomistic computations for the interpretation of SR experiments	NADIA BINGGELI

Wednesday 13 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-17:30)

time	title	presenter
09:00	New opportunities for PES of condensed matter using FELs	SERGUEI MOLODTSOV
10:30	Coffee Break	
11:00	PES using FELs: time resolved surface studies	SERGUEI MOLODTSOV
12:30	LUNCH BREAK	
14:00	Ultrafast transformations in matters induced by intense radiation	BEATA ZIAJA-MOTYKA
15:30	Coffee Break	
16:00	Low-density matter with synchrotrons and time resolved experiments with FELs	MARIA NOVELLA PIANCASTELLI

Thursday 14 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:30)

time	title	presenter
09:00	Introduction to X-ray microscopy and spectromicroscopy	MAYA KISKINOVA
10:00	X-ray Microscopy in photon transmission and emission, and multidisciplinary applications (I)	ALESSANDRA GIANONCELLI
11:00	Coffee Break	
11:30	X-ray Microscopy in photon transmission and emission, and multidisciplinary applications (II)	ALESSANDRA GIANONCELLI
12:30	LUNCH BREAK	
14:00	X-ray imaging and tomography for biomedical research	GIULIANA TROMBA
15:00	Basic concepts for LEEM, PEEM and XPEEM and applications	ANDREA LOCATELLI
16:30	Coffee Break	
17:00	Infrared spectroscopy and microscopy	LISA VACCARI

Friday 15 April 2016

- Leonardo Building - Euler Lecture Hall (09:00-18:00)

time	title	presenter
09:00	Coherent diffraction imaging (I)	ANDERS MADSEN
10:30	Coffee Break	
11:00	Coherent diffraction imaging (II)	ANDERS MADSEN
12:30	LUNCH BREAK	
14:00	For transportation to Elettra	
15:00	VISIT AT ELETTRA	