



XII School on Synchrotron Radiation: *Fundamentals, Methods and Applications*

Grado, Italy / 16-27 September 2013



Monday September the 16th

9.00 – 9.30	9.30 – 11.00	11.00 – 11.30	11.30 – 13.00	13.00 – 15.00	15.00 – 16.00	16.00 – 16.30	16.30 – 18.00
F. Boscherini, A. Franciosi S. Mobilio, G. Vlaic: Opening Session	S. Mobilio: Introduction to Synchrotron Radiation	Coffee Break	G. Margaritondo: Characteristics and properties of Synchrotron Radiation	Lunch time	G. Margaritondo: Characteristics and properties of Synchrotron Radiation	Coffee Break	A. Goldoni: Instrumentation at synchrotron radiation beamlines

Tuesday September the 17th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.00	12.00 – 13.00	13.00 – 15.00	15.00 – 16.30	16.30 – 19.00
S. Mobilio: Introduction to the interaction between matter and radiation I	Coffee Break	S. Mobilio: Introduction to the interaction between matter and radiation II	C.M. Bertoni: Quantum description of the matter- radiation interaction	Lunch time	C.M. Bertoni: Quantum description of the matter- radiation interaction	Poster Session

Wednesday September the 18th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 15.00	15.00 – 16.30	16.30 – 17.00	17.00 – 18.30
G. Zanotti: X-ray Diffraction	Coffee Break	G. Zanotti: X-ray Diffraction	Lunch time	P. Fornasini: X-ray Absorption Spectroscopy	Coffee Break	P. Fornasini: X-ray Absorption Spectroscopy



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Thursday September the 19th

9.00 – 10.30	10.30 – 11.00	11.00 – 13.00	13.00 – 15.00	15.00 – 17.00	17.00 – 17.30	17.30 – 19.00
G. Artioli: <i>Powder Diffraction & Synchrotron Radiation</i>	Coffee Break	M. Benfatto: <i>The XANES region- I</i>	Lunch time	S. Lupi: <i>Infrared synchrotron radiation: from the production to the scientific applications</i>	Coffee Break	D. Eichert: <i>X-ray microscopy</i>

Friday September the 20th

9.00 – 11.00	11.00 – 11.30	11.30 – 13.00	13.00 – 15.00	15.00 – 17.00	17.00 – 17.30	17.30 – 19.00
G. Stefani: <i>Photoelectron spectroscopy: fundamentals</i>	Coffee Break	G. Stefani: <i>Photoelectron spectroscopy: fundamentals</i>	Lunch time	J.Y. Buffiere : <i>X-ray imaging techniques</i>	Coffee Break	A. Ruocco: <i>Surface Diffraction</i>

Saturday September the 21th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30
F. Spinozzi: <i>Small angle X-ray scattering</i>	Coffee Break	A. Baraldi: <i>High resolution core level photoelectron spectroscopy and photoelectron diffraction</i>



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Monday September the 23th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 17.30	17.30 – 19.00
S. Pascarelli: <i>Studies of matter at extreme conditions</i>	Coffee break	F. Boscherini: <i>Applications of XAFS to nanostructures and materials science</i>	Lunch time	G. Tromba: <i>Medical Imaging with synchrotron radiation</i>	Coffee Break	M. Nardini: <i>Synchrotron Radiation and Biocrystallography</i>	M. Nardini: <i>Synchrotron Radiation and Biocrystallography</i>

Tuesday September the 24th

8.30 – 10.00	10.00 – 10.30	10.30 – 13.00	13.00 – 15.00	15.00 – 16.30	16.30 – 17.00	17.00 – 18.30
A.Martorana: <i>Synchrotron Radiation and Chemistry</i>	Coffee Break	G. Rossi <i>Spin resolved photoemission & Linear and circular x-ray dichorism</i>	Lunch time	L. Paolasini <i>Resonant and magnetic x-ray diffraction</i>	Coffee break	C. Meneghini: <i>The XANES region - II</i>

Wednesday September the 25th

9.00 – 19.00
Practical & Data Analysis at ELETTRA



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Thursday September the 26th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 18.00	18.00 – 19.30
S. Quartieri: <i>Synchrotron radiation in the earth sciences</i>	Coffee Break	P. Scardi: <i>Diffraction from nanocrystalline materials</i>	Lunch time	P. Lattanzi: <i>Synchrotron Radiation in the environmental Science</i>	Coffee break	S. Quartieri: <i>Synchrotron radiation in art, archeology and cultural heritage science</i>	C. Masciovecchio <i>Science frontiers with coherent x-ray free electron laser sources</i>

Friday September the 27th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 17.30	17.30 – 17.45
M. Chergui: <i>Time resolved core-level spectroscopy</i>	Coffee Break	A. Locatelli: <i>Photoemission electron microscopy for chemical and magnetic imaging</i>	Lunch time	C. Lamberti: <i>Catalytic studies “in operando”</i>	G. Monaco <i>High resolution inelastic x-ray scattering</i>	S. Mobilio G. Vlaic: Concluding remarks

Practical and Data Analysis session at ELETTRA is foreseen for Wednesday 25th: Students will be divided into two groups; in the morning one group will attend a practical session on beam-lines, the other one will attend a data analysis session. In the afternoon the two groups will exchange sessions.