

**XIV School on Synchrotron Radiation:
Fundamentals, Methods and Applications**
Muggia, Italy / 18-29 September 2017



Elettra Sincrotrone Trieste

Monday September the 18th

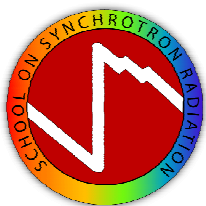
9.00 – 9.30	9.30 – 11.00	11.00 – 11.30	11.30 – 13.00	13.00 – 15.00	15.00 – 16.00	16.00 – 16.30	16.30 – 18.00
A. Di Cicco A. Franciosi A. Goldoni S. Mobilio: <i>Opening Session</i>	A. Di Cicco: <i>Introduction to synchrotron radiation</i>	Coffee Break	G. Margaritondo: <i>Characteristics and properties of synchrotron radiation</i>	Lunch time	G. Margaritondo: <i>Characteristics and properties of synchrotron radiation</i>	Coffee Break	A. Goldoni: <i>Instrumentation at synchrotron radiation beamlines</i>

Tuesday September the 19th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 15.30	15.30 – 16.30	16.30 -17.00	17.00 – 18.30
S. Mobilio: <i>Introduction to the interaction between matter and radiation</i>	Coffee Break	C.M. Bertoni: <i>Quantum description of the matter-radiation interaction</i>	Lunch time	G. Stefani: <i>Photoelectron spectroscopy: fundamentals</i>	G. Stefani: <i>Photoelectron spectroscopy: fundamentals</i>	Coffee break	C.M. Bertoni: <i>Quantum description of the matter-radiation interaction</i>

Wednesday September the 20th

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 – 18.30
P. Fornasini: <i>X-ray Absorption Spectroscopy</i>	Coffee Break	P. Fornasini: <i>X-ray Absorption Spectroscopy</i>	Lunch time	S. Mobilio: <i>Introduction to the interaction between matter and radiation</i>	Coffee Break	S. Lupi: <i>Infrared synchrotron radiation: from the production to the scientific applications</i>



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Thursday September the 21th

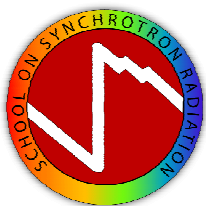
9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.00	16.00 – 16.30	16.30 – 18.00
G. Zanotti: <i>X-ray Diffraction</i>	Coffee Break	G. Zanotti: <i>X-ray Diffraction</i>	Lunch time	M. Benfatto: <i>XANES Spectroscopy - I</i>	Coffee Break	M. Ferrario: <i>Advanced Radiation Sources based on plasma accelerators</i>

Friday September the 22th

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
J.R. Plaisier : <i>Powder Diffraction & Synchrotron Radiation</i>	Coffee Break	C. Meneghini: <i>XANES Spectroscopy - II</i>	Lunch time	G. Aquilanti: <i>Studies of matter at extreme conditions</i>	Coffee Break	F. Boscherini: <i>Applications of XAFS to nanostructures and materials science</i>

Saturday September the 23th

8.30 – 10.00	10.00 – 11.30	11.30 – 12.00	12.00 - 13.30
P. Scardi: <i>Diffraction from nanocrystalline materials</i>	H. Amenitch: <i>Small angle X-ray scattering</i>	Coffee Break	M. Kiskinova: <i>New high flux and coherent photon sources and their multi- disciplinary applications</i>



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Monday September the 25th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 – 16.30	16.30 – 17.00	17.00 – 18.30
A. Baraldi: <i>High resolution and time resolved core level photoelectron spectroscopy</i>	Coffee break	G. Monaco: <i>High resolution inelastic x-ray scattering</i>	Lunch time	J.Y. Buffiere: <i>X-ray imaging techniques</i>	Coffee Break	D. Eichert: <i>X ray microscopy</i>

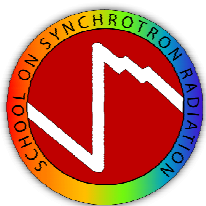
Tuesday September the 26th

Parallel session

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30
G. Artioli: <i>Synchrotron radiation in the earth sciences</i>	Coffee Break	P. Lattanzi: <i>Synchrotron Radiation in the environmental Science</i>

8.30 – 10.00	10.00 – 10.30	10.30 – 12.30
L. Paolasini: <i>Resonant and magnetic x-ray diffraction</i>	Coffee Break	G. Rossi: <i>Spin resolved photoemission & Linear and circular x-ray dichroism</i>

12.30-14.30	14.30 - 15.00	15.00 – 16.30	16.30 – 17.00	17.00 – 18.30
Lunch time	G. Paolucci: <i>Science for peace</i>	G. Ghiringhelli: <i>Resonant Inelastic X-ray Scattering</i>	Coffee break	C. Meneghini and M. Merlini: <i>Data analysis session: introduction and software set-up</i>



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Wednesday September the 27th

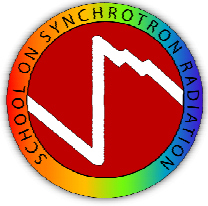
9.00 – 19.00
Practical & Data Analysis at ELETTRA

Thursday September the 28th

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
C. Giannini : <i>Watching nanomaterials with X-ray eyes</i>	Coffee Break	L. Bertrand: <i>Synchrotron radiation and heritage materials</i>	Lunch time	C. Lamberti: <i>Catalytic studies “in operando”</i>	Coffee break	G. Tromba: <i>Medical Imaging with synchrotron radiation</i>	A. Locatelli: <i>Photoemission electron spectroscopy for chemical and magnetic imaging</i>

Friday September the 29th

8.30 – 10.00	10.00 – 10.30	10.30 – 12.30	12.30 – 13.00
A. Martorana: <i>Synchrotron Radiation and Chemistry</i>	Lunch time	M. Nardini: <i>Synchrotron Radiation and Biocrystallography</i>	A. Goldoni S. Mobilio: <i>Concluding remarks</i>



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Practical and Data Analysis sessions at ELETTRA are foreseen for Wednesday 27th: Students will be divided into two groups; in the morning one group will attend a practical session on beam-lines at ELETTRA and the other one will attend a data analysis session. In the afternoon the two groups will exchange sessions.