



# XI School on Synchrotron Radiation: *Fundamentals, Methods and Applications*

Duino Castle / Trieste, Italy / 5-16 September 2011



## Program

### Monday September the 5th

9.00 – 9.30	9.30 – 11.00	11.00 – 11.30	11.30 – 13.00	13.00 – 15.00	15.00 – 16.30	16.30 – 17.00	17.00 – 18.00
<b>C. Mariani, S. Mobilio, G. Vlaic, A. Franciosi: Opening Session</b>	<b>S. Mobilio: Introduction to Synchrotron Radiation</b>	<b>Coffee Break</b>	<b>G. Margaritondo: Characteristics and properties of Synchrotron Radiation</b>	<b>Lunch time</b>	<b>G. Margaritondo: Characteristics and properties of Synchrotron Radiation</b>	<b>Coffee Break</b>	<b>S. Mobilio: Introduction to Matter-Radiation interaction I</b>

### Tuesday September the 6th

9.00 – 10.30	10.30 – 11.00	11.00 – 13.00	13.00 – 15.00	15.00 – 19.00
<b>S. Mobilio: Introduction to Matter-Radiation interaction II</b>	<b>Coffee Break</b>	<b>C.M. Bertoni: Matter- Radiation interaction</b>	<b>Lunch time</b>	<b>Poster Session &amp; Student Presentation</b>

### Wednesday September the 7th

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
<b>P. Fornasini: X-ray Absorption Spectroscopy</b>	<b>Coffee Break</b>	<b>P. Fornasini: X-ray Absorption Spectroscopy</b>	<b>Lunch time</b>	<b>G. Zanotti: X-ray Diffraction</b>	<b>Coffee Break</b>	<b>G. Zanotti: X-ray Diffraction</b>



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### Thursday September the 8<sup>th</sup>

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
<b>G. Stefani: Photoelectron Spectroscopy</b>	<b>Coffee Break</b>	<b>G. Stefani: Photoelectron Spectroscopy</b>	<b>Lunch time</b>	<b>P. Scardi: Powder Diffraction &amp; Synchrotron Radiation</b>	<b>Coffee Break</b>	<b>S. Polizzi: Small angle X-ray scattering</b>

### Friday September the 9<sup>th</sup>

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 14.30	14.30 - 15.30	15.30 – 17.00	17.00 – 17.30	17.30 – 18.30
<b>G. Paolucci: Photoemission from solids</b>	<b>Coffee Break</b>	<b>G. Paolucci: Core level photoemission and Photoelectron diffraction</b>	<b>Lunch time</b>	<b>C. Meneghini: Phenomenological approach to XANES spectroscopy</b>	<b>A. Ruocco: Surface Diffraction</b>	<b>Coffee Break</b>	<b>M. Milanesio: Combination of X- ray Powder diffraction with other techniques</b>

### Saturday September the 10<sup>th</sup>

9.00 – 11.00	11.00 – 11.30	11.30 – 13.00
<b>S. Lupi: Synchrotron radiation in infrared</b>	<b>Coffee Break</b>	<b>F. Boscherini: Applications of XAFS to nanostructures and materials science</b>



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### Monday September the 12<sup>th</sup>

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
<b>G. Rossi: Spin resolved photoemission</b>	<b>Coffee break</b>	<b>G. Rossi: Linear and circular x-ray dichroism</b>	<b>Lunch time</b>	<b>M. Nardini: Synchrotron Radiation and Biocristallography</b>	<b>Coffee Break</b>	<b>M. Nardini: Synchrotron Radiation and Biocristallography</b>	<b>M. Benfatto: Multiple Scattering method and its applications to X-ray absorption spectroscopy</b>

### Tuesday September the 13<sup>th</sup>

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 15.00	15.00 – 19.00
<b>A. Gianoncelli: Microscopy with Synchrotron Radiation: Phase Contrast Imaging and Micro-spectroscopy</b>	<b>Coffee Break</b>	<b>A. Locatelli: Microscopy with Synchrotron Radiation: chemical and magnetic imaging by photoemission techniques</b>	<b>Lunch time &amp; Transfer to ELETTRA</b>	<b>Practical&amp;Data Analysis at ELETTRA</b>

### Wednesday September the 14<sup>th</sup>

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 15.00	15.00 – 19.00
<b>A.Lausi: X-ray Holography</b>	<b>Coffee Break</b>	<b>G. Tromba: Medical Imaging with synchrotron radiation</b>	<b>Lunch time &amp; Transfer to ELETTRA</b>	<b>Practical&amp;Data Analysis at ELETTRA</b>



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### Thursday September the 15th

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 – 18.30
<b>S. Quartieri:</b> Synchrotron Radiation & Earth Science	Coffee Break	<b>F. Sacchetti:</b> Complementarity between X-rays and neutrons	Lunch time	<b>P. Lattanzi:</b> Synchrotron Radiation & Environmental Science	Coffee break	<b>S. Quartieri:</b> Synchrotron Radiation & Cultural Heritage	<b>A. Martorana:</b> Synchrotron Radiation & Chemistry

### Friday September the 16th

9.00 – 10.30	10.30 – 11.00	11.00 – 12.30	12.30 – 12.45
<b>G. Monaco:</b> High resolution inelastic X-ray scattering	Coffee Break	<b>F. Parmigiani:</b> Free Electron Lasers	<b>S. Mobilio</b> <b>G. Vlaic:</b> Concluding remarks

**Practical and Data Analysis session at ELETTRA:** Students will be divided into two groups, on the 13<sup>th</sup> one group will attend a practical session on beam-lines, the other will attend a data analysis session. On the 14<sup>th</sup> the two groups will exchange sessions and the data analysis will regard diffraction methods.

The Data analysis session will be on X-ray Absorption Spectroscopy the 13<sup>th</sup> and on Powder Diffraction the 14<sup>th</sup>.