

# **1st on-line School on Synchrotron Radiation “Gilberto Vlaic”: Fundamentals, Methods and Application**



**Monday, September 13, 2021 - Friday, September 17, 2021**

**Virtual**

## **Scientific Program**

### **Monday September the 13th**

9.00 - 9.15 C. Giannini - A. Franciosi: Opening Session  
9.15 - 10.15 S. Mobilio: Characteristics and Properties of Synchrotron Radiation: an introduction  
10.15 - 11.45 F. Boscherini: The interaction between matter and radiation  
11.45 - 12.00 Question time  
12.00 – 14.00 Lunch  
14.00 - 17.00 G. Paolucci: Virtual tour of ELETTRA and FERMI facilities  
17.00 – 17.30 Question time and break  
17.30 – 18.30 G. Margaritondo: Characteristics and Properties of Synchrotron Radiation: Free Electron Lasers and Coherence

### **Tuesday September the 14th**

9.00 – 10.30 L. Vaccari - A. Perrucchi: Infrared spectroscopy with synchrotron and FEL radiation  
10.30 – 11.00 Question time and break  
11.00 – 13.00 A.Di Cicco: X-ray absorption and fluorescence spectroscopy  
13.00 – 15.00 Question time and lunch  
15.00 – 18.00 C. Meneghini: Data analysis of X-ray absorption spectroscopy data

### **Wednesday September the 15th**

9.00 – 11.00 G. Zanotti: X-ray Diffraction in crystals and powders  
11.00 – 11.30 Question time and break  
11.30 – 13.00 H. Amenitch: Small angle X-ray scattering  
13.00 – 15.00 Question time and lunch  
15.00 – 18.00 M. Merlini: Data analysis of diffraction data

### **Thursday September the 16th**

9.00 – 11.00 G. Stefani: Introduction to photoelectron spectroscopy in atoms, molecules and solids  
11.00 – 11.30 Question time and break  
11.30 – 13.00 A. Baraldi: Core level photoelectron spectroscopy  
13.00 – 15.00 Question time and lunch  
15.00 – 18.00 L. Bignardi: Data analysis of photoemission data

### **Friday September the 17th**

9.00 – 11.00 G. Tromba: Hard X-ray imaging with Synchrotron Radiation  
11.00 – 11.30 Question time and break  
11.30 – 12.15 L. Mino: Watching nanomaterials with X-ray eyes: probing different length scales by combining scattering with spectroscopy  
12.15 – 13.00 L. Monico: Synchrotron radiation-based X-ray methods and vibrational spectroscopy techniques for the study of cultural heritage materials: a multi-method and multi-scale approach  
13.00 – 15.00 Question time and lunch  
15.00 – 17.00 Experimental session: an operando XAS study on batteries  
17.00 - 18.00 Virtual visit of FERMI  
18.00 - 18.15 Concluding remarks

