



Tentative Program

Monday 05/09/2022		Tuesday 06/09/2022	
08 ³⁰	Registration	08 ³⁰	
09 ⁰⁰	Welcome	09 ⁰⁰	X-ray diffraction & scattering
09 ³⁰	SR production & methods	10 ⁰⁰	Powder and Single Crystal Synchrotron X-ray Diffraction Dr. Evangelia Moschopoulou, NCSR "Demokritos"
	Interaction of X-rays with matter and methods Prof. Annalisa Pastore, ESRF, France		
10 ³⁰	Accelerator physics for synchrotron light users Dr. Emmanuel Karantzoulis, ELETTRA, Italy	10 ⁰⁰	Introduction to macromolecular crystallography Assoc. Prof. Irene Margiolaki, University of Patras
11 ³⁰	Coffee Break	11 ⁰⁰	Coffee Break
12 ⁰⁰	Methods and instrumentation	11 ³⁰	X-ray scattering
	X-ray optics and beamlines Prof. Alexei Erko, Institut für angewandte Photonik, Berlin, Germany		
13 ⁰⁰	Synchrotron Radiation Instrumentation t.b.a.	12 ³⁰	X-ray total scattering in Materials Science Dr. Alexandros Lappas, IESL-FORTH
		13 ³⁰	Lunch Break
14 ⁰⁰	Lunch Break	15 ³⁰	X-ray protein crystallography - challenges and opportunities from sample preparation to 3D structure determination Dr. Evangelia Chrysinia, National Hellenic Research Foundation
16 ⁰⁰	Free Electron Lasers: principles and selected applications Prof. Federico Boscherini, University of Bologna, Italy	16 ³⁰	Coffee Break
17 ⁰⁰	Coffee Break	17 ⁰⁰	Lab-Course 2 X-ray diffraction Dr. Vassilis Psycharis, NCSR "Demokritos"
17 ³⁰	Lab-Course 1 X-Ray tracing Prof. Alexei Erko, Institut für angewandte Photonik, Berlin, Germany		
19 ³⁰	Virtual beamline tour		
20 ⁰⁰	End of day		

	Wednesday 07/09/2022	Thursday 08/09/2022
09 ⁰⁰	X-ray spectroscopies	X-ray Imaging
	X-ray absorption fine structure spectroscopies for the study of matter Assoc. Prof. Maria Katsikini, Aristotle University of Thessaloniki	X-ray microscopy Dr. Marine Cotte, ESRF, France
10 ⁰⁰	X-ray Fluorescence Spectroscopy Dr. Andreas Germanos Karydas, NCSR "Demokritos"	X-ray tomography Dr. Paul Tafforeau, ESRF, France
11 ⁰⁰	Coffee Break	
11 ³⁰	Spectroscopies-II	Extreme conditions/ industrial applications
	Spectroscopies Dr. Dimosthenis Sokaras, SLAC National Accelerator Laboratory, USA	Inelastic x ray scattering: technique and sample environments Dr. Michaela Souliou Karlsruhe Institute of Technology, Germany
12 ³⁰	X-ray Magnetic Circular Dichroism on ultra-thin layers Prof. Panagiotis Pouloupoulos, University of Patras	Industrial applications of Synchrotron Radiation A. Papazoglou, ESRF, France
13 ³⁰	Lunch Break	
15 ³⁰	Lab-Course 3 XAFS spectroscopies Dr. F. Pinakidou, Aristotle Univ. of Thessaloniki	Lab-Course 5 X-ray Imaging (To be confirmed)
17 ³⁰	Coffee Break	
18 ⁰⁰	Lab-Course 4 Sy-XRF: spectrum analysis and quantification Dr. V. A. Solé, ESRF, France	t.b.a.
20 ⁰⁰	End of day	End of School