



## Crystallography School - 2019

Organized by the CrisDi – Interdepartmental Centre for Crystallography, University of Torino

Send to [piera.benna@unito.it](mailto:piera.benna@unito.it) before 14 may 2019

Name and Surname: \_\_\_\_\_ e-mail: \_\_\_\_\_

Education: \_\_\_\_\_

PhD (specialization, cycle): \_\_\_\_\_

Supervisor: \_\_\_\_\_

### COURSES:

BC1 INTRODUCTION TO CRYSTALLOGRAPHY	1½ CFU (6 hours)	
BC2 INSTRUMENTATION FOR X-RAY DIFFRACTION	1 CFU (4 hours)	
BC3 ELECTRON DIFFRACTION	1 CFU (4 hours)	
BC4 X-RAY DIFFRACTION	1 CFU (4 hours)	
BC5 X RAYS DIFFRACTION METHODS: POLYCRYSTALLINE	2½ CFU (10 hours)	
BC6 X-RAY DIFFRACTION METHODS: SINGLE CRYSTAL	2½ CFU (10 hours)	
SC1 STRUCTURAL STUDY OF BIOLOGICAL MACROMOLECULES	2 CFU (8 hours)	
SC2 IN SITU NON-AMBIENT CONDITIONS BY SINGLE CRYSTAL XR DIFFRACTION	2 CFU (8 hours)	
SC3 SOLID STATE PROPERTIES: MODELIZATION	2 CFU (8 hours)	
SC4 CAUSES OF COLOUR IN MINERALS	2 CFU (8 hours)	
SC5 LABORATORY OF HIGH PRESSURE EXPERIMENTS - DIAMOND ANVIL CELL (DAC) PREPARATION.	1 CFU (4 hours)	
SC6 THE DEBYE SCATTERING EQUATION: A TOTAL SCATTERING APPROACH FOR CHARACTERIZING NANOMATERIALS	1 CFU (4 hours)	
SC7 THE RIETVELD METHOD	2 CFU (8 hours)	
SC8 INTRODUCTION TO CRYSTAL GROWTH	1½ CFU (6 hours)	
SC9 CRYSTAL GROWTH FOR BEGINNERS	1 CFU (4 hours)	
SC10 USE OF TEM-EDS FOR THE CHARACTERIZATION OF NATURAL OR SYNTHETIC SUB-MICROMETRIC INORGANIC PHASES	2 CFU (8 hours)	
SC11 IN SITU/OPERANDO X-RAY POWDER DIFFRACTION	1 CFU (4 hours)	
SC12 PAIR DISTRIBUTION FUNCTION ANALYSIS OF COMPLEX, DISORDER AND AMORPHOUS MATERIALS FROM TOTAL SCATTERING DATA	2 CFU (8 hours)	
SC13 INORGANIC CRYSTALLOCHEMISTRY	1 CFU (4 hours)	
SC14 X-RAY DIFFRACTION APPLICATIONS ON MATERIALS STUDY	2 CFU (8 hours)	