UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Crystallography and Laboratory of X-ray powder diffraction

2324-1-124R021

Title

Crystallography and Laboratory of X-ray powder diffraction

Teacher(s)

Chiara Ferrara ; Massimo Moret

Language

English

Short description

Program:

- Symmetry in crystals

- Examples of crystalline structures

- Mechanisms of Crystal growth

- Diffraction of X-ray by crystals

- Experimental methods in X-ray: from single crystals to powders

Objectives of the program:

To understand the role of symmetry in periodic structures, basics of crystal growth, theory of diffraction in crystals, the use of diffraction to study solids. To make and interpret experiments on powdered polycrystalline samples.

Evaluation: YES - Oral examination

CFU / Hours

2 CFU - 18 Hours (12h lectures - 6h laboratory training)

Teaching period

II semester: 2nd half of May to 1st half of June 2024

Sustainable Development Goals