



# UNIVERSITÀ DEGLI STUDI DI MILANO

## Corso di Dottorato in Scienze della Terra

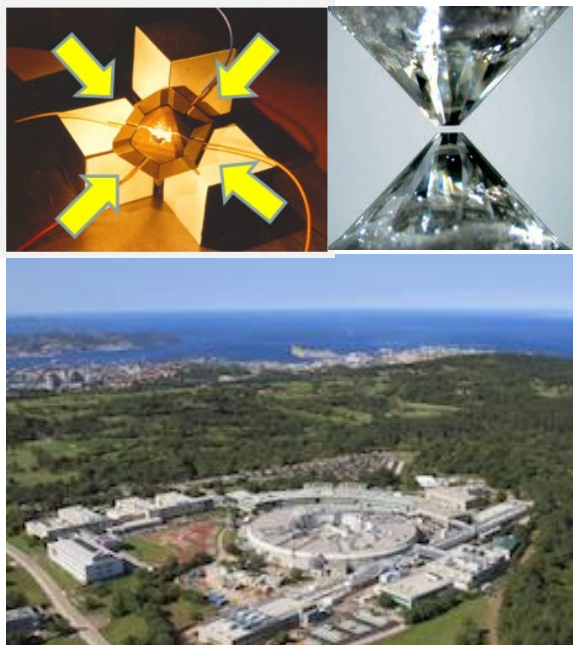


**6-17<sup>th</sup> February 2023 - Short course (4 cfu, 20 hours) – Room first floor  
Dipartimento di Scienze della Terra “A. Desio”, via Botticelli 23, Milano**

### Advanced experimental synthesis and characterization of minerals and rocks by Marco Merlini and Patrizia Fumagalli

#### PROGRAM

- Experimental methodologies and protocols for synthesis of minerals at HP/HT
- Laboratory characterization of minerals and rocks by diffraction (multipurpose diffractometer) and spectroscopy (micro-Raman)
- Introduction to synchrotron radiation application for advanced characterization of minerals and possible visit to the Elettra synchrotron facility



**Per informazioni e iscrizione contattare:**

**Prof. Marco Merlini ([marco.merlini@unimi.it](mailto:marco.merlini@unimi.it)) and/or Patrizia Fumagalli ([patrizia.fumagalli@unimi.it](mailto:patrizia.fumagalli@unimi.it))**

## Course description and/or schedule

4 days in the first half of February. The exact date and the visit to the synchrotron will be defined with participants.

**Day 1 (Milano – 4 hours) Introduction to experimental methodologies for synthesis of rocks and minerals. Lecture and tutorials in laboratories.**

**Day 2 (Milano – 4 hours) Diffraction techniques: remind of basic theory; example of data collection with multipurpose diffractometer and data processing. Lecture and tutorials in laboratory**

**Day 3 (Milano – 4 hours) Spectroscopic techniques: micro-Raman. Lecture and tutorial**

**Day 4 (Trieste – 8 hours) Introduction to synchrotron radiation; diffraction and spectroscopic techniques with synchrotron radiation. Lectures and tutorials at the Elettra synchrotron radiation facility (Basovizza, Trieste)**

*(Alternatively, in Milano: introduction to synchrotron radiation and applications (lectures) and tutorial on data processing and analysis)*

