



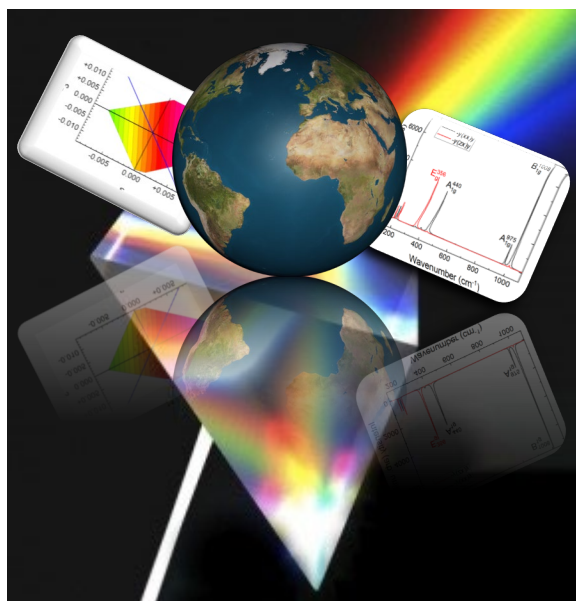
# UNIVERSITÀ DEGLI STUDI DI MILANO

## Corso di Dottorato in Scienze della Terra



*(provisory) June 2023 - Short course (4 cfu, 20 hours) – (provisory) Villa del Grumello (Lake of Como)*

## Vibrational Spectroscopy meets Geosciences (GeoVibrS)



### Tentative PROGRAM

*Monday*  
9.00-12:30 Arrivals + Lectures  
14:30-18:00 Lectures

*Tuesday*  
9.00-12:30 Lectures  
14:30-18:00 Lectures

*Wednesday*  
9.00-12:30 Lectures  
14:30-18:00 Lectures

*Thursday*  
9.30-12 Student Activities  
15-18 Trip - social activities  
18-19.30 Student Presentations

*Friday (9.30 Departure)*

### Provisional list of speakers

**Prof. Boriana Mihailova**  
(Universität Hamburg)

**Prof. Mauro Prencipe**  
(Università di Torino)

**Prof. Donato Belmonte**  
(Università di Genova)

### Organizers:

**Prof. Patrizia Fumagalli**,  
**Prof. Fernando Cámara (UniMI)**,  
**Prof. Marco Scambelluri (UniGe)**,  
**Prof. Matteo Alvaro (UniPv)**

*Per informazioni e iscrizione contattare:*  
**Prof. Fernando CAMARA** ([fernando.camara@unimi.it](mailto:fernando.camara@unimi.it))

## Course description

Vibrational spectroscopic techniques are becoming increasingly available and fundamental for investigation of Earth's and planetary materials at the microscale in situ as they allow preserving the pristine nature of the sample while carrying out the analyses. However, current advances in vibrational spectroscopic techniques are pushing the limit also for data interpretation and processing that require increasingly more to be coupled with computational methods. In Earth science application we are progressively away from the simplistic approach “measure-compare” toward a more sophisticated “simulate – measure – interpret” approach. The school aims at providing a comprehensive view of *state of the art* vibrational spectroscopic methods including the underlying theory and experimental challenges. The program will span from a substantial portion of computational methods (ab initio and numerical) and experimental approaches; business-oriented applications (PL for solar cells etc...) will also be included.

We have applied for funding to the Lake of Como School



LAKE COMO SCHOOL  
OF ADVANCED STUDIES

It is organized in collaboration with the PhD programs of

the Università di Pavia



and the Università di Genova



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