

Course: Energy transport in molecular systems: description, characterization and modeling

Duration: 24 hours

Teacher(s): FERRANTE Camilla (8 hours)

COLLINI Elisabetta (8 hours)

CORNI Stefano (8 hours)

Curriculum: Chemical Sciences

Description:

Aim of this course is to give a basic description of the energy transport phenomena between molecules in condensed phase. The course will: (i) provide a physical picture of these phenomena starting from molecular dimers and ending with molecular crystals and polymers; (ii) describe the techniques used to characterize these systems: absorption, fluorescence, and nonlinear optical spectroscopies experiments in the frequency and time domain; (iii) describe the main computational methodologies used to model energy and excitonic couplings.

Additional information: Whenever possible, international guest speakers will be invited to cover specialized topics.