

## *Quasicrystals: State of the art and outlooks*

18 Novembre 2022

Comitato Ordinatore: Luca Bindi, Vincenzo Aquilanti, Giovanni Ferraris, Massimo Inguscio, Stefano Merlino, Annibale Mottana, Carlo Sbordone.

- 09:00 Opening remarks
- 09:30 Sander Van Smaalen: *Aperiodic crystals and their atomic structures in superspace: An introduction*
- 10:10 Paul Steinhardt: *Quasicrystals and beyond*
- 10:40 Coffee Break
- 11:00 Marc De Boissieu: *Physics of quasicrystals: phonons and phasons*
- 11:30 Jean-Marie Dubois: *Potential and marketed applications of quasicrystals*
- 12:00 Carlo Sbordone: *Mathematical aspects of quasicrystals*
- 12:30 Discussion
  
- 12:45 Light Lunch
  
- 14:00 Emil Makovicky: *Quasicrystals and Art: interesting new facts*
- 14:30 Diederik Wiersma: *Structured photonic materials and quasicrystals*
- 15:00 Leonardo Fallani: *Quantum transport of matter waves in quasiperiodic crystals of light*
- 15:30 Michael Widom: *Atomistic simulation of quasicrystals*
- 16:00 Coffee Break
- 16:20 Luca Bindi: *Natural quasicrystals and beyond*
- 16:50 Vincenzo Stagno: *Quasicrystals at high pressure and high temperature*
- 17:20 Discussion, final remarks and outlooks