

WINTER WORKSHOP

Master Degree in Physics - A.Y. 2024-2025
Materials Physics and Nanoscience (MANO)



Dept. Physics and Astronomy
Room 1, Level -1
Viale Berti Pichat 6/2
Bologna

19 DECEMBER

9 AM - 11 AM

Seminar - Prof. Ritsch

Basic Principles of Quantum Optics

11 AM - 1 PM

Seminar - Prof. Loi

Solar cells working principles and device structures

2:30 PM - 6 PM

Poster Session

20 DECEMBER

9 AM - 11 AM

Seminar - Prof. Loi

Thin films solar cells: Metal Halide perovskites and organic solar cells

11 AM - 1 PM

Seminar - Prof. Ritsch

Advanced Quantum Optics

2:30 - 3:15 PM

Seminar - Prof. Loi

Colloidal Quantum Dots Superlattices

3:15 PM - 4 PM

Seminar - Prof. Ritsch

Minimalistic efficient quantum devices build dipole-coupled nano arrays of quantum emitters

4 PM - 4:30 PM

**Closing Remarks &
Best Poster Award**




Prof. Helmut Ritsch
University of Innsbruck
Austria



Prof. Maria Antonietta Loi
University of Groningen
Netherlands



Lunch break: 1 PM - 2:30 PM

 Prof. Daniela Cavalcoli (daniela.cavalcoli@unibo.it), Tutor: liagiulia.damico2@unibo.it