



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Quantum effects of nano-devices and applications for the next generation of Electronics and Thermoelectrics

2122-79R-M2

Title

Quantum effects of nano-devices and applications for the next generation of electronics and thermoelectrics

Teacher(s)

Dr. Frederico Martins, Hitachi Cambridge Laboratory (GB)

Language

English

Short description

1. Electron Quantum transport and Materials: 0D, 1D and 2D systems.
2. Quantum effects: quantum points contact, quantum Hall effect, Coulomb blockade, superconductivity
3. Spin-based Quantum Computation

4. Nanostructured devices for thermoelectric applications

CFU / Hours

1 CFU, 8 hours

Teaching period

Spring 2022:

from April 4 to April 8 (14.30-16.30)
