

ICFO Schools on the Frontiers of Light

40 international students take part in Master School on Quantum Nano- and Opto-mechanics.

July 12, 2016

Throughout the week of the 4th of July, 40 Masters and starting PhD students recruited from some of the best research centers in the world participated in a new Summer School program at ICFO dedicated to Quantum Nano-and Opto-mechanics. During this intense week-long experience, the students were exposed to a carefully chosen list of topics representing the cutting-edge of research, with the goal of introducing students to, and helping them target, their future research directions. This program was the first in a permanent series of schools, to enhance ICFO?s role in training highly talented students worldwide.

The students followed a dynamic program including pedagogical lectures, active student participation through problem solving sessions, and reading and discussion of recent papers.

In order to shed light on the broader scope of research taking place at ICFO, there were also lab tours and a poster session from ICFO researchers. The academic program was complemented by many social activities including drinks with ICFO students organized by ICONS and a walking tour of the Gothic quarter, followed by dinner in the Barcelona harbor.

The program faculty was made up of invited lecturers Professors Amir Safavi-Naeini (Stanford) and Oriol Romero-Isart (IQOQI Innsbruck), as well as ICFO Professors Darrick Chang, Romain Quidant and Adrian Bachtold. All lecturers were chosen for their teaching skill as well as their research reputation.

Program Topics:

Oriol Romero-Isart (Innsbruck): Levitated optomechanics
Amir Safavi-Naeini (Stanford): Optomechanical crystals
Darrick Chang (ICFO): Atom-optomechanics
Adrian Bachtold (ICFO): Carbon nanotube and graphene mechanics
Romain Quidant (ICFO): Optical trapping and manipulation of nanoparticles