



MASTER SCHOOL ON QUANTUM NANO-AND OPTO-MECHANICS

July 04, 2016 to July 08, 2016

ICFO Auditorium

ICFO School on the Frontiers of Light

Nano- and opto-mechanical systems are at an exciting frontier in which their interactions and functionalities can be exquisitely tailored, sometimes at the quantum level. This leads to new possibilities for investigating fundamental phenomena such as thermodynamics and nonlinearities, coupling together various quantum degrees of freedom, and developing novel types of sensors. This school is dedicated to exposing masters-level students to modern topics in the field and honing their future research interests. The schedule will include pedagogical lectures on selected topics, research-style seminars, group discussion sessions, student presentations, and lab tours.

Lecturers & 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

Barcelona, 4-8 July, 2016

** Registration is now closed