Nanotechnology Meets Quantum Information (NanoQI'19)

21.Jul - 26.Jul 2019

Cod. Z15-19

Mod.:
Face-to-face

Edition
2019

Activity type
Workshop

Date
21.Jul - 26.Jul 2019

Location
Miramar Palace

Languages
English

Academic Validity
50 hours

Web
http://nanoqi.dipc.org

Organising Committee

Description

Ever smaller and better designed and controlled solid-state structures are reaching the quantum realm, leading to new promises and challenges in technology and information processing and an emerging industry.

This school gives an introduction into an overview of the basics and recent advances in different areas of quantum information theory and solid-state-based quantum technologies. Both the basic physics of different implementations of quantum information technologies and the applicable theoretical methods are covered. The school is aimed at PhD students and young postdocs with interest in quantum information and its (solid-state) implementation.

Organizing committee:

J. Ignacio Cirac (Max-Planck-Institute for Quantum Optics Garching)

Géza Giedke (DIPC, Basque Country, Spain)

Ataç Imamoglu (ETH Zurich, Switzerland)

Mikhail D. Lukin (Harvard University, Cambridge, MA, USA)

Alejandro González-Tudela (Institute for Fundamental Physics, CSIC Madrid, Spain)

Objectives

Bring together young scientists interested in quantum information processing and quantum technologies and their implementation using solid-state systems.

Give an introduction and overview of the main concepts and methods and explain promising current research directions through lectures by leading experts in the field.

Provide a forum to present and discuss their own research with their colleagues and senior researchers.

Course specific contributors

Directed by

Geza Giedke

DIPC

Registration fees

REGISTRATION	UNTIL 22-07-2019
FEE WAIVER	0 EUR
REGULAR ATTENDANT	330,00 EUR

Place

Miramar Palace

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa