International Workshop on Quantum Spintronics at Interfaces (MAGNON)

04.Sep - 08.Sep 2017

Cód. Z20-17

Mod.:
Presencial

Edición
2017

Tipo de actividad
Workshop

Fecha
04.Sep - 08.Sep 2017

Ubicación
Palacio Miramar

Idiomas
Inglés

Validez académica
50 horas

Web
http://magnon.dipc.org/

DIRECCIÓN

Vitaly Golovach, Ikerbasque Research Fellow, Materialen Fisika Zentroa CFM and Donostia

International Physics Center, Ikerbasque Research Fellow

Yaroslav Tserkovnyak -, Department of Physics & Astronomy, UCLA, -

Comité Organizador

Descripción

The workshop will focus on novel phenomena occurring at interfaces between metallic conductors and magnetic insulators as well as in recently-discovered quantum magnetic materials, both offering a rich playground for Quantum Spintronics. The workshop will bring together leading experts, experimentalists and theorists, working at the crossroads between magnon spintronics and quantum magnetism. We will discuss recent developments in electrical control and detection of spin currents through magnetic insulators, collective spin transport and spin waves, quantum correlations and novel quantum heterostructures for spintronics, bosonic condensation and superfluidity of magnons, topological order and dynamics in quantum magnetic materials. We hope the workshop will foster collaborations in this rapidly developing field, important for the fundamental physics and applications.

Organizing committee:

Yaroslav Tserkovnyak. Department of Physics & Astronomy, University of California. Los Angeles, California. United States

Vitaly Golovach. Ikerbasque Research Fellow. Materialen Fisika Zentroa CFM and Donostia International Physics Center. Donostia / San Sebastian.

Objetivos

To bring together leading experts working on the frontiers of Spintronics and Quantum Magnonics.

To present and discuss the recent developments in the field and determine directions of future research.

To promote the new and rapidly developing field of Quantum Magnonics among the workers of the Spintronics community.

To facilitate discussion and foster collaboration between theoretical and experimental physicists, including local scientists in Donostia working in the field of Spintronics.

To create the conditions for young and brilliant scientists to present their work and make themselves visible in this rapidly developing field.

Colaboradores específicos del curso

Dirigido por:

Vitaly Golovach

Ikerbasque Research Fellow, Materialen Fisika Zentroa CFM and Donostia International Physics Center, Ikerbasque Research Fellow

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Yaroslav Tserkovnyak -

Department of Physics & Astronomy, UCLA, -

Precios matrícula

REGISTRATION	HASTA 29-08-2017
Invited Speaker	0 EUR
Regular Fee	300,00 EUR

Lugar

Palacio Miramar

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa