Quantum Phenomena in 2D Matter (QP2DM)

17.Juil - 21.Juil 2023

Cod. Z14-23

Modalité:
En personne

Édition
2023

Type d'activité
Workshop

Date
17.Juil - 21.Juil 2023

Location
Miramar Palace

Langues
Anglais

Reconnaissance officielle par l'État
50 heures

Comité d'organisation

Description

Modern theoretical, experimental, and applied physics of two-dimensional (2D) systems explore and employ the great richness of their quantum properties. These properties are probed by various experimental techniques, such as charge, spin, exciton, and heat transport, optical, microwave, and scanning-probe spectroscopies, photoresistance, etc. Over the recent years, the available variety of 2D systems has grown dramatically and include various semiconductor and oxide heterostructures, atomically thin layers (or bi-layers) of graphene, transition metal dichalcogenides, and their heterostructures. Some of the most celebrated phenomena realized in these 2D systems are quantum Hall effects, Wigner crystals, stripes and bubble phases, and excitonic Bose condensates. More exotic phenomena are expected to emerge as the quality of the 2D systems and experimental tools are improved, which is and ongoing process.

ORGANIZING COMMITTEE:

- Michael Zudov (University of Minnesota, USA)
- Evgeny Sherman (University of the Basque Country UPV/EHU, Ikerbasque)
- Vitaly Golovach (University of the Basque Country UPV/EHU, Ikerbasque)

Objectifs

The aim of this workshop is to bring together leading experts and the researches at the beginning of their careers in the field of quantum physics of 2D matter for presentation and discussion of their recent results and ongoing developments. Exchange of ideas and expectations of the future progress in the field will help its development in next several years.

Collaborateurs spécifiques au cours

Directed by

Vitaly Golovach ---

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

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Professeurs

Shaffique Adam

National University of Singapore

Eva Andrei

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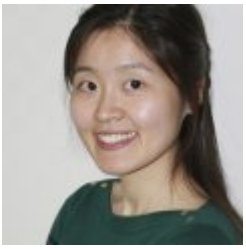
Springer Nature

Alexey Berdyugin

The University of Manchester



Deung-Jang (DJ) Choi

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The University of Tokyo, Associate Professor

Harold Hwang

Maxim Ilin

Takuya Iwasaki

National Institute for Materials Science

Jainendra Jain

Penn State University

Fabian Jaroslav

Univeristy of Regensburg

Jaroslav Fabian (PhD 1997, SUNY Stony Brook) is a professor of theoretical physics at the University of Regensburg where he heads the Spintronics Group since 2004. Prior to that Jaroslav Fabian was on the faculty at the Karl-Franzens University in Graz, and a research associate in University of Maryland at College Park, and Max-Planck Institute for Complex Systems in Dresden. Research activities of Jaroslav Fabian span a wide spectrum of theoretical and computational solid state physics, but are particularly focused on the physics of 2D materials and on the field of spintronics. He is a member of Graphene Flagship, and several collaborative research initiatives. Recently, he has been excited about the art of creating novel electronic and magnetic properties by proximity effects in stacks of 2D materials.

Jelena Klinovaja

University of Basel

Piotr Kossacki

University of Warsaw

Ze Kvon

Institute of Semoconductor Physics, Novosibirsk

Mariia Labendik

Alex Levchenko

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Qianhui Shi

UCLA

Jun Zhu Zhu

Penn State University

Inti Sodemann Villadiego

University of Leipzig

Michael Zudov Zudov

University of Minnesota

Tarifs inscription

REGISTRATION FEES	JUSQU'AU 09-07-2023
Fee Waiver	0 EUR
Regular fee	400,00 EUR

Lieu

Miramar Palace

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa