



Quantum Phenomena in 2D Matter (QP2DM)



17.Jul - 21.Jul 2023

Cód. Z14-23

Mod.:
Presencial

Edición
2023

Tipo de actividad
Workshop

Fecha
17.Jul - 21.Jul 2023

Ubicación
Palacio Miramar

Idiomas
Inglés

Validez académica
50 horas

Web
<https://qp2dm.dipc.org>

DIRECCIÓN

Vitaly Golovach ---, Ikerbasque Research Associate, Materialen Fisika Zentroa CFM and Donostia International Physics Center, Ikerbasque Research Fellow

Comité Organizador

Descripción

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 an 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)

Objetivos

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.

Colaboradores específicos del curso



Dirigido por:



Vitaly Golovach ---

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

Profesorado



Shaffique Adam

National University of Singapore



Eva Andrei

rutgers university



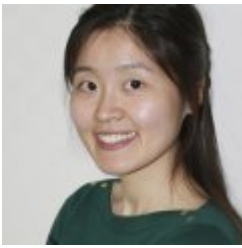
Ankita Anirban

Springer Nature



Alexey Berdyugin

The University of Manchester



Deung-Jang (DJ) Choi

Centro de Física de Materiales (CSIC-UPV/EHU)



Swarup Deb Deb

Institute for Physics, University of Rostock



Lingjie Du

NANJING UNIVERSITY



Rui-Rui Du

Peking University, Professor



Lloyd Engel



Yuval Gefen

Weizmann Institute



Leonid Golub Golub

Regensburg University, Germany



Alejandro Gonzalez-Tudela

Instituto de Fisica Fundamental-CSIC



Francisco Guinea López

IMDEA Nanoscience - DIPC



Adbhut Gupta Gupta

Princeton University



Bertrand Halperin Halperin

Harvard University



Alex Hamilton

UNSW



Zeyu Hao

Harvard University



Masayuki Hashisaka

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 Semiconductor Physics, Novosibirsk



Mariia Labendik



Alex Levchenko

University of Wisconsin-Madison



Yang Liu

Peking University, Assistant Professor



Daniel Loss Loss

University of Basel



Allan MacDonald

University of Texas at Austin



Michael Manfra Manfra

Purdue University



Xavier Marie

INSA- Université de Toulouse



Denis Maryenko



Yigal Meir Meir

Ben Gurion University



Dmitry Miserev

University of Basel



Miguel Moreno Ugeda

Donostia International Physics Center



Markus Morgenstern

II. Institute of Physics B



Alberto MORPURGO

University of Geneva



Elisabetta Paladino

University of Catania



Stuart Parkin

MPI of Microstructure Physics



Loren Pfeiffer Pfeiffer

Princeton University



Leonid Ponomarenko

Lancaster University



Marek Potemski

LNCMI/CNRS-Grenoble, France



Leonid Rokhinson

Purdue University



Takashi Taniguchi

NIMS



Lars Tiemann

University Hamburg



Ilya Tokatly

University of the Basque Country UPV/EHU



Klaus von Klitzing

Max Planck Institute



Chengyu Wang Wang

Princeton University



Robert Willett

Nokia Bell Labs



Maksim Savchenko Savchenko

TU Wien



Chi Zhang

Institute of Semiconductors, Chinese Academy of Science, Professor



Qianhui Shi

UCLA



Jun Zhu Zhu

Penn State University



Inti Sodemann Villadiego

University of Leipzig



Michael Zudov Zudov

University of Minnesota

Precios matrícula

REGISTRATION FEES	HASTA 09-07-2023
Fee Waiver	0 EUR
Regular fee	400,00 EUR

Lugar

Palacio Miramar

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa