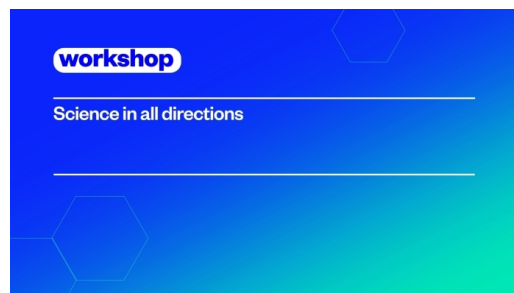




# Novel Electronic Properties of Two-Dimensional Materials (NEP2DM)



11.Jul - 15.Jul 2022

Cod. Z15-22

**Mod.:**

Face-to-face

**Edition**

2022

**Activity type**

Workshop

**Date**

11.Jul - 15.Jul 2022

**Location**

Miramar Palace

**Languages**

English

**Academic Validity**

50 hours

**Web**

<http://www.nep2dm.dipc.org>

**Organising Committee**



## **Description**

The conference will bring together leading experts in the experimental and theoretical fronts to discuss the newly found correlated electronic states in two dimensional Moiré heterostructures. These include correlated insulators and superconductors in stacked, twisted layers of graphene in their different forms, as well as transition metal dichalcogenide heterostructures like those realized with WSe<sub>2</sub> and variants. The conference will feature talks in a range of experimental techniques as well as advanced theoretical modeling, in order to further understand the surprising behaviour of these heterostructures

### **ORGANIZING COMMITTEE:**

Francisco Guinea (IMDEA Nanoscience and DIPC/Ikerbasque)

Fernando de Juan (DIPC/Ikerbasque)

Pablo Jarillo-Herrero (MIT)

Frank Koppens (ICFO)

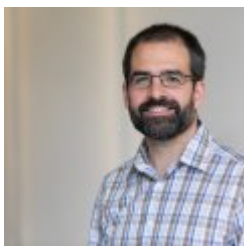
### **Objectives**

To showcase the latest experimental and theoretical results in the field of two dimensional Moire heterostructures, and to catalyze new collaborations to solve open problems in the field.

### **Course specific contributors**



## Directed by



**Fernando de Juan Sanz**

Donostia International Physics Center

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**Francisco Guinea López**

IMDEA Nanoscience - DIPC

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## Teachers



**Siddharth Ashok Parameswaran**

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**Leni Bascones**

ICMM-CSIC

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**Dmitri Basov**

Columbia University

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**Alexey Berdyugin**

The University of Manchester

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**Andrei Bernevig**

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**Laura Classen**

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**Dmitri Efetov Efetov**

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**Klaus Ensslin**

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**Atac Imamoglu**

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**Jeil Jung Woo**

University of Seoul

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**Eunah Kim**

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**Mikito Koshino**

Department of Physics, Osaka University

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## **Jeanie Lau**

The Ohio State University

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Chun Ning (Jeanie) Lau is a Professor in the Department of Physics at The Ohio State University. She received her BA in physics from University of Chicago in 1994, and PhD in physics from Harvard in 2001. She was a research associate at Hewlett Packard Labs in Palo Alto from 2002 to 2004, before joining University of California, Riverside in 2004 as an assistant professor. She was promoted to associate professor in 2009 and full professor in 2012. Starting January 2017 she moved to The Ohio State University. The honors and awards she has received include the NSF CAREER award, the PECASE award, Kavli Fellow and APS Fellow. Her research focuses on electronic, thermal and mechanical properties of nanoscale systems, in particular, graphene and other two-dimensional systems.



## **Stevan Nadj-Perge Nad Perge**

California Institute of Technology

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## **Hector Ochoa**

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## **Yuval Oreg**

Weizmann Institute of Science, Professor

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**Pierre Anthony Pantaleon Peralta**

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**Päivi Törmä**

Aalto University

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**Xiaodong Xu**

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**Oleg Yazyev**

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**Eli Zeldov**

Weizmann Institute of Science

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# Registration fees

REGISTRATION FEES

UNTIL 04-07-2022

Attendant

375,00 EUR

## **Place**

### **Miramar Palace**

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa