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 WSe2 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

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Teachers

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Eunah Kim

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Department of Physics, Osaka University

Jeanie Lau

The Ohio State University

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

Hector Ochoa

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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