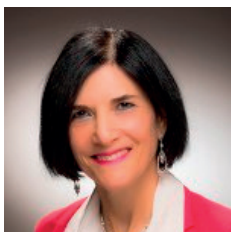


**nanoGe
Fall
Meeting**

Sol2D19_Two Dimensional layered semiconductors

Symposium organizers:



Efrat Lifshitzl
Technion



**Christiane
deMorais Smith**
Universiteit Utrecht, NL



Doron Naveh
Bar-Ilan
University

Topics:

- Synthesis of 2D nanomaterials including exfoliated layers, CVD growth, colloidal growth or others
- Different types of 2D nanomaterials: Graphenes and related carbon containing materials, transition-metal chalcogenides and iodides, solution-grown nanoplatelets, honeycomb-like structures and others
- Study of the physical properties of 2D nanomaterials from mechanical, optical, electrical, optoelectronic, magneto-optics, magnetism and others
- Focusing on a few unique phenomena: topological insulators, Dirac-type band structure, spin-valley coupling, symmetry breaking, curvature, layer-layer interactions and more
- Theoretical modeling of band structure and quantum many-body effects. Use of 2D nanomaterials in various applications, from electronics, through opto-electronics, photonics, display devices, biological arena and others

Invited speakers:

Andres Castellanos-Gomez Consejo Superior de Investigaciones Científicas (CSIC), ES

Christophe Delerue EMN - UMR 8520, FR

Gianluca Fiori University of Pisa, IT

Alexander Khajetoorians Institute for Molecules and Materials (IMM), Radboud University, NL

Christian Klinke Swansea University, GB

Xavier Marie University of Toulouse - INSA - CNRS

Eduardo Marino Universidade Federal do Rio de Janeiro, BR

Gloria Platero Instituto de Ciencia de Materiales de Madrid, CSIC, ES

Anna Rodina Ioffe Physical Technical Institute, RU

Laurens Siebbeles TU Delft, NL

Daniel Vanmaekelbergh Universiteit Utrecht, NL

Roland Wiesendanger University of Hamburg, DE

Xiaoyang Zhu Columbia University, US

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