MAX-PLANCK-INSTITUT
FÜR MIKROSTRUKTURPHYSIK

WORKSHOP ON

TRANSFORMATIONAL MATERIALS

Addressing the future needs of computing and energy will require radical advances in materials. This workshop will explore the latest theoretical advances in understanding and predicting novel phenomena, such as effects that exhibit extraordinary quantum, electronic, magnetic, optical, topological, or emergent properties, that can lead to transformational materials for computing and energy.

PROGRAM

09:50 am Introduction

10:00 am Prof. Titus Neupert
University of Zurich, Switzerland
Topology in quantum matter: Beyond the rules of the game

11:00 am Prof. Prineha Narang
Harvard University, USA
Predicting and controlling emergent behavior in quantum matter

12:00 am Lunch Break

01:00 pm Prof. Ronny Thomale
University Würzburg, Germany
The new frontier - collective phenomena in synthetic matter

02:00 pm Prof. Thomas Heine
Technical University Dresden, Germany
The chemistry way towards quasiparticle physics

JUNE 8, 2021
9:50 AM - 3 PM
ONLINE