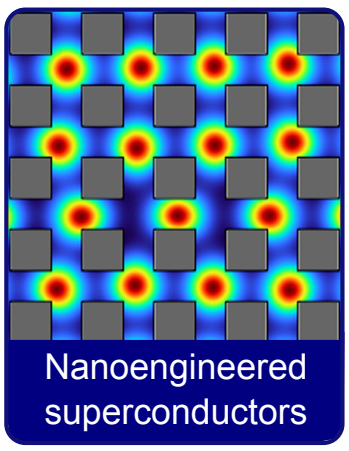
Nanoengineered Superconductors - NES21

Young Investigator's online workshop, May 10-12, 2021



The workshop aims to bring together experts and younger investigators on nanoengineered superconductors and vortex matter. The focus will be on charge and flux dynamics on the micro- and nanoscale, magneto-transport properties of superconductors, as well as their applications in magnetic-field sensing, single-photon detection, and hybrid quantum circuits.

Workshop topics include:

- Vortex dynamics and fluxonic devices
- Vortex imaging and vortex phase diagrams
- Vortices in meso- and nanoscale systems
- Vortex pinning and its applications
- Josephson phenomena and weak links
- SQUIDs, their fabrication and applications
- Superconducting single-photon detectors
- Superconducting and hybrid quantum circuits
- Topological, 2D and interface superconductivity
- Novel superconducting materials and heterostructures
- Novel fabrication techniques for superconductors

A few introductory talks of tutorial character are planned in the beginning of topical sessions. The workshop will be hosted by the University of Vienna with support of the COST Action CA16218 "NanoCoHybri".

universität wien

Workshop Chairs:

Oleksandr Dobrovolskiy
Alina Ionescu
Dieter Koelle
Wolfgang Lang

Partners:

cost EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

NANOSCALE COHERENT HYBRID DEVICES FOR SUPERCONDUCTING QUANTUM TECHNOLOGIES

NIMP SCIENTIFIC RESEARCH

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Mads Peter SOERENSEN
Raivo STERN
Daniela STORNAIUOLO
Francesco TAFURI
Andrzej ZALESKI
Nikolaj ZINNER

Important dates:

- Registration and abstract submission due: April 11
- Notification of acceptance: April 20
- Workshop programme online: May 1
- Registration for scholars due: May 5
- Upload of posters due: May 6
- Technical online checks: May 7-8
- Workshop dates: May 10-12

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