

# Program

## Sunday, 10 November 2019

17:00 – 21:00     Registration

from 18:30        *BUFFET SUPPER / Informal get together*

## Monday, 11 November 2019

07:45              *BREAKFAST*

08:50 – 09:00     Scientific organizers        **Welcome and Introduction**

09:00 – 09:45     David Haviland              **Kinetic Inductance, Josephson Inductance and The Superconductor-Insulator Quantum Phase Transition**

09:45 – 10:30     Jochem Baselmans        **Microwave Kinetic Inductance Detectors: An introduction**

10:30 – 11:00     *COFFEE BREAK*

11:00 – 11:45     Christoph Strunk           **Superconductivity vs. insulation in strongly disordered metal films**

11:45 – 12:30     Guy Deutscher              **Fundamentals of granular superconductivity**

12:30 – 12:45     **Conference Photo** (in front of the Physikzentrum/Main entrance)

12:45              *LUNCH*

# Program

**Monday, 11 November 2019**

|               |                                                                                         |                                                                                |
|---------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 14:15 – 15:00 | Nimrod Bachar                                                                           | <b>Electrodynamics of Superconductors : To BCS and Beyond...</b>               |
| 15:00 – 15:45 | Nataliya Maleeva                                                                        | <b>Granular Aluminum: from circuit quantum electrodynamics to applications</b> |
| 15:45 – 16:15 | <i>COFFEE BREAK</i>                                                                     |                                                                                |
| 16:15 – 17:00 | Marco Vignati                                                                           | <b>KIDs for Particle Physics</b>                                               |
| 17:00 – 17:45 | Angela Kou                                                                              | <b>A gate-tunable, field-compatible fluxonium</b>                              |
| 17:45 – 18:00 | Stefan Jorda                                                                            | <b>About the Wilhelm and Else Heraeus Foundation</b>                           |
| 18:30         | <i>HERAEUS DINNER at the Physikzentrum<br/>(cold &amp; warm buffet, free beverages)</i> |                                                                                |
| 20:00         | <b>Poster Session</b>                                                                   |                                                                                |

# Program

**Tuesday, 12 November 2019**

|               |                       |                                                                                                            |
|---------------|-----------------------|------------------------------------------------------------------------------------------------------------|
| 07:45         | <i>BREAKFAST</i>      |                                                                                                            |
| 09:00 – 09:45 | Oleg Astafiev         | <b>Highly disordered superconductors and quantum phase-slips</b>                                           |
| 09:45 – 10:30 | Nicholas Roch         | <b>High impedance superconducting quantum circuits</b>                                                     |
| 10:30 – 11:00 | <i>COFFEE BREAK</i>   |                                                                                                            |
| 11:00 – 11:45 | Gianluigi Catelani    | <b>Quasiparticles in superconducting qubits and resonators</b>                                             |
| 11:45 – 12:30 | Pieter de Visser      | <b>Energy resolved detection of single visible/near-infrared photons with kinetic inductance detectors</b> |
| 12:30         | <i>LUNCH</i>          |                                                                                                            |
| 14:15 – 15:00 | Alessandro Monfardini | <b>KID for GHz to THz Astronomy and Particle Physics</b>                                                   |
| 15:00 – 15:45 | Raphaëlle Delagrange  | <b>RF properties of superconducting silicon</b>                                                            |
| 15:45 – 16:15 | <i>COFFEE BREAK</i>   |                                                                                                            |
| 16:15 – 17:00 | Pasquale Scarlino     | <b>Microwave Cavity Quantum Electrodynamics with superconductor-semiconductor hybrid technology</b>        |
| 17:00 – 17:45 | Karl Berggren         | <b>Nanowire-Based Detectors and Electronics Using Kinetic Inductance</b>                                   |
| 18:30         | <i>DINNER</i>         |                                                                                                            |
| 20:00         | <b>Poster Session</b> |                                                                                                            |

# Program

**Wednesday, 13 November 2019**

|               |                                        |                                                                           |
|---------------|----------------------------------------|---------------------------------------------------------------------------|
| 07:45         | <i>BREAKFAST</i>                       |                                                                           |
| 09:00 – 09:45 | Peter Day                              | <b>Superconducting Devices Based on Non-linear Kinetic Inductance</b>     |
| 09:45 – 10:30 | <b>Poster Awards &amp; Award Talks</b> |                                                                           |
| 10:30 - 11:00 | <i>COFFEE BREAK</i>                    |                                                                           |
| 11:00 – 11:45 | Hélène le Sueur                        | <b>Charged fluctuators as a limit to the coherence of superconductors</b> |
| 11:45 – 12:30 | Alexey Ustinov                         | <b>Superconducting Metamaterials</b>                                      |
| 12:30 – 12:40 | Scientific organizers                  | <b>Closing remarks</b>                                                    |
| 12:40         | <i>LUNCH</i>                           |                                                                           |

**End of the seminar and *FAREWELL COFFEE* / Departure**