

# Program

## Sunday, 02 June 2019

17:00 – 21:00    Registration

18:00            *BUFFET SUPPER and get-together*

## Monday, 03 June 2019

08:00            *BREAKFAST*

09:15 – 09:20    Scientific organizers    **Opening**

09:20 – 09:55    Yoichi Ando            **Quest for topological  
superconductivity**

09:55 – 10:30    Hervé Aubin            **Spin-orbit induced phase-shift in Bi<sub>2</sub>Se<sub>3</sub>  
Josephson junctions**

10:30 – 11:00    *COFFEE BREAK*

11:00 – 11:35    Yuli Nazarov            **Topological properties of multi-  
terminal superconducting  
nanostructures: effect of a continuous  
spectrum**

11:35 – 12:10    Fabrizio Nichele        **Evidence of topological  
superconductivity in planar Josephson  
junctions**

12:10 – 12:15    **Conference Photo** (in the front of the lecture hall)

12:15 – 12:30    Break

12:30            *LUNCH*

# Program

**Monday, 03 June 2019**

14:30 – 15:05	Laurens Molenkamp	<b>Topological superconductivity in HgTe-based devices</b>
15:05 – 15:30	William Mayer	<b>Anomalous phase shift in Al-InAs Josephson junctions</b>
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:35	Tristan Cren	<b>Two-dimensional topological superconductivity in Pb/Co/Si(111)</b>
16:35 – 17:00	Simon Diesch	<b>Creation of equal-spin triplet superconductivity at the Al/EuS interface</b>
17:00 - 19:00	<b>Poster I</b>	<i>(Presenters of posters with ODD ordering numbers are asked to stay at their posters)</i>
19:15	<i>HERAEUS DINNER</i> <i>(social event with cold &amp; warm buffet with complimentary drinks)</i>	

# Program

**Tuesday, 04 June 2019**

08:00	<i>BREAKFAST</i>	
09:15 – 09:50	Jukka Pekola	<b>Thermometry based on proximity superconductivity for ultra-sensitive calorimetry</b>
09:50 – 10:25	Detlef Beckmann	<b>Spin-dependent thermoelectric effects in superconductor/ferromagnet hybrid structures</b>
10:25– 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:35	Natascha Pugach	<b>Spin amplification of electrons cooling in cold electron bolometers</b>
11:35 – 12:00	Ali G. Moghaddam	<b>Impurity-induced subgap states in time-reversal-invariant topological superconductors</b>
12:00 – 12:25	Raffael Klees	<b>Microwave spectroscopy reveals the quantum geometric tensor of topological Josephson matter</b>
12:25 – 12:45	Break	
12:45	<i>LUNCH</i>	

# Program

**Tuesday, 04 June 2019**

14:30 – 15:05	Angelo Di Bernardo	<b>Nodal superconducting exchange coupling</b>
15:05 – 15:30	Julien Basset	<b>Dynamics of strongly driven diffusive Josephson junctions</b>
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:35	Hélène Bouchiat	<b>Microwave signature of topological Andreev level crossings in a Bismuth-based Josephson junction</b>
16:35 – 17:10	Christian Ast	<b>Yu-Shiba-Rusinov states from impurities with a quantum spin</b>
17:10 – 17:35	Akashdeep Kamra	<b>Superconductivity from squeezed magnons on normal metals and topological insulators</b>
18:30	<i>DINNER</i>	
20:00 – 21:00	Philipp Moll	<b>Exploring topology on the micron-scale</b>

# Program

Wednesday, 05 June 2019

08:00	<i>BREAKFAST</i>	
09:15 – 09:50	Teun Klapwijk	<b>Absorption of low-frequency photons by a superconductor</b>
09:50 – 10:25	Attila Geresdi	<b>Andreev and Majorana bound states in semiconductor nanowire Josephson junctions</b>
10:25 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:35	Leandro Tosi	<b>Spin-orbit splitting of Andreev states revealed by microwave spectroscopy</b>
11:35 – 12:10	Milena Grifoni	<b>The ac-Josephson effect in interacting nanostructures: diagrammatic theory in the particle-conserving framework</b>
12:10 – 12:30	Break	
12:30	<i>LUNCH</i>	
14:30 – 15:05	Ioan Pop	<b>Granular aluminum: A superconducting material for high impedance quantum circuits</b>
15:05 – 15:30	Çağlar Girit	<b>Non-local Josephson effect in Andreev molecules</b>
15:30 – 16:00	<i>COFFEE BREAK</i>	

# Program

Wednesday, 05 June 2019

16:00 – 16:35	JianTing Ye	<b>Field-induced superconductivity in transition metal dichalcogenides</b>
16:35 – 17:00	Nicola Paradiso	<b>Phase slip lines in few-layer NbSe<sub>2</sub> devices</b>
17:00 – 19:00	<b>Poster II</b>	<i>(Presenters of posters with EVEN ordering numbers are asked to stay at their posters)</i>
19:15	<i>DINNER</i>	

# Program

Thursday, 06 June 2019

08:00	<i>BREAKFAST</i>	
09:15 – 09:50	Irina Bobkova	<b>Magnetoelectric effects in S/F and S/AF hybrids and Josephson detection of magnetization dynamics</b>
09:50 – 10:25	Clemens Winkelmann	<b>Tuning the singlet-doublet ground state transition in a superconductor-quantum dot hybrid</b>
10:25 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:35	Aviad Frydman	<b>Specific heat measurements through the superconductor-insulator quantum phase transition</b>
11:35– 12:00	Raphaëlle Delagrangé	<b>Non-linearity and quasi-particle dynamics in superconducting silicon resonator</b>
12:00 – 12:20	Scientific organizers	<b>Closing and Poster Award Ceremony</b>
12:30	<i>LUNCH</i>	

**End of the seminar and departure**

*NO DINNER for participants leaving on Friday morning*