

One-Dimensional Systems for Quantum Technology — 700. WE-Heraeus-Seminar

Sunday, 16.6.19		Monday, 17.6.19
	8:45	<b>Werner Wegscheider:</b> <i>Cleaved Edge Overgrowth – current status, perspectives and experimental challenges</i>
	9:30	<b>Jelena Klinovaja:</b> <i>Andreev bound states and Majorana fermions in helical 1D systems</i>
	10:15	coffee
	10:45	<b>Dominik Zumbühl:</b> <i>Edge State Spectroscopy with a GaAs Quantum Wire</i>
	11:30	poster flash
	12:30	lunch
	14:00	<b>Oleg Yevtushenko:</b> <i>Helicity-protected transport in magnetically doped one-dimensional wires</i>
	14:45	<b>Fabrizio Nichele:</b> <i>InAs/Al two-dimensional electron gases</i>
	15:30	<b>Hongqi Xu:</b> <i>InSb nanolayers: A new platform for developments of quantum and topological devices</i>
registration (16:00 – 21:00)	16:15	<b>Yuval Oreg:</b> <i>Insulating phases of topological superconductors – the super-symmetric Majorana-zero modes point of view</i>
	17:00	coffee
buffet dinner (18:00 – ...)	17:30	poster session
opening and welcome (19:45)	18:30	dinner
<b>Charles Bennett:</b> <i>Quantum Information's birth, growth, and significance</i>	20:00 –21:00	<b>Leo Kouwenhoven:</b> <i>1D hybrid nanowires of superconducting and semi-conducting materials as a scalable platform for qubit circuits</i>

Tuesday, 18.6.19		Wednesday, 19.6.19
<b>Stefan Jorda:</b> <i>About the Wilhelm and Else Heraeus Foundation</i>	8:45	
<b>Koji Ishibashi:</b> <i>Quantum structures with carbon nanotubes</i>	9:00	<b>Piet Brouwer:</b> <i>Quantum Tomography of Solitary Electrons</i>
<b>Jan von Delft:</b> <i>Multiloop Functional Renormalization Group: Computing Finite-Temperature Transport through Inhomogeneous Quantum Wires</i>	9:45	<b>Floris Zwanenburg:</b> <i>Quantum dots and superconductivity in GeSi nanowires</i>
coffee	10:30	coffee
<b>Katharina Franke:</b> <i>From single magnetic adatoms on superconductors to coupled spin chains</i>	11:00	<b>Thomas Schäpers:</b> <i>In-situ prepared nanowire-based Josephson junctions for qubit applications</i>
<b>Erik Bakkers:</b> <i>bottom-up grown nanowire quantum devices</i>	11:45	<b>Martin Stehno:</b> <i>Topological superconductivity in HgTe-based topological materials</i>
lunch	12:30	lunch
<b>Peter Krogstrup Jeppesen:</b> <i>Engineering electronic hybridization in epitaxial materials</i>	14:00	<b>Anton Akhmerov:</b> <i>Majoranas in zigzag devices: why shape matters</i>
<b>Eduardo Lee:</b> <i>Andreev bound states in hybrid superconductor-semiconductor nanowire devices</i>	14:45	<b>Charlie Marcus:</b> <i>Vortices, Majorana zero modes, and quantum phase transitions in full-shell hybrid nanowires</i>
<b>Vadim Khrapai:</b> <i>Heat conductance of an InAs nanowire proximitized by a superconductor</i>	15:30	closing
coffee	16:15	15:45 coffee / departure
<b>Julia Meyer:</b> <i>Multiterminal Josephson Junctions based on Helical States</i>	16:45	
panel discussion	17:30	
conference dinner	18:15	
poster session	20:00 –	

scientific committee: Heike Riel, Stefan Ludwig, Christian Schönenberger

local organization: Jutta Lang, Stefan Jorda

color code:	growth & transport	superconductor-semiconductor hybrid systems
	correlations in 1D	helical states & more
	Majorana fermions	poster sessions, panel discussion, introduction
	breaks & food	evening talks