

CeNS/SFB1032 Workshop Venice 2017: Design and Control of Nanosystems

Sunday, September 17		Monday, September 18		Tuesday, September 19		Wednesday, September 20		Thursday, September 21		Friday, September 22		
	09:00	<b>Welcome</b>		09:00	<b>Laurens Molenkamp</b> Topological Physics in HgTe-based Quantum Devices	09:00	<b>Ronny Thomale</b> Topoelectrical circuits		<b>Michael Strano</b>		<b>Ivan Huc</b>	
	09:15	<b>Daniel Müller</b> Studying Mechanical Processes of Life from the Cellular to Molecular Scale			<b>Julie Biteen</b> Single-molecule imaging and plasmonics uncover nanometer-scale fundamentals of cell biology		<b>Rob Philipps</b>	09:00	Using Carbon Nanotechnology for the Manipulation of Matter	09:00	Engineering synthetic folded organic nanoarchitectures	
	10:00	<b>Mikael Rechtsman</b> Photonic topological physics in two and three dimensions		09:45		09:45	<b>Key challenges in biophysics</b>	09:45	<b>Frank Pollmann</b> Many-body localization: Entanglement and dynamics	09:45	<b>Peter Röttgermann</b> Time-correlations of single cell dual fluorescence markers	
	10:45	<b>Coffee break</b>		10:30	<b>Coffee break</b>	10:45	<b>Coffee break</b>	10:30	<b>Coffee break</b>	10:05	<b>Christoph Lienau</b> Probing the motion of photoemitted electrons by ultrafast point-projection electron microscopy	
	11:15	<b>Stefan Datz</b> Multifunctional mesoporous nanoparticles		11:00	<b>Peter Hommelhoff</b> Landau-Zener-Stückelberg interferometry with electrons in graphene		<b>Gil Refael</b> <b>Key challenges:</b> The coming quantum revolution? From new materials to new computational paradigms	11:00	<b>L. Mahadevan</b> Controlled growth and form: from precipitating microsculptures to growing soft flowers	10:50	<b>Closing remarks</b>	
	11:35	<b>Nigel Goldenfeld</b> Oscillatory population dynamics of mobile genetic elements		11:45	<b>Alexander Deiters</b> Optochemical Control of Biological Processes in Cells and Animals	11:15		11:45	<b>Oliver Trapp</b> Self-Amplification of Chirality in Stereodynamic Catalysts			
		<b>Lunch (12:20-14:15)</b>			<b>Lunch (12:30-14:15)</b>		<b>Lunch (from 12:15)</b> Boat from San Servolo at 12:40 and 13:30		<b>Lunch (12:30-14:15)</b>			
	14:15	<b>Rob Phillips</b> The Molecular Switch and Monod's Second Secret of Life		14:15	<b>Jörn Dunkel</b> Geometric control of microbial fluids: from bacterial spin lattices to active matter logic		<b>Informal discussions / Sightseeing</b>	13:30	<b>Gil Refael</b> Floquet quantum states: topological transitions, steady states, and surprising implications			
	15:00	<b>Sanford Simon</b> Assembly of HIV-1 at the plasma membrane of cells			<b>Posters session I &amp; coffee (15:00-17:00)</b>	14:15		<b>Rinaldo Trotta</b> Strain-engineered artificial atoms for quantum nanophotonics	14:15			<b>Departure</b>
	15:45	<b>Coffee break</b>				17:00		<b>Nikta Fakhri</b> Active Matters: probing forces and fluctuations in actomyosin cortices	15:00	<b>Coffee break</b>		
	16:15	<b>Klaus Kroy</b> Exact symmetries in the velocity fluctuations of a hot Brownian swimmer						15:25	<b>Patrick Vogel</b> Applications with Traveling Wave Magnetic Particle Imaging	15:45	<b>Christoph Westerhausen</b> Fluidic hybrid systems for cell manipulation - towards neural networks on a chip	
	17:00	<b>Aleksei Aksimentiev</b> Sensing and Building with DNA										
	19:30	<b>Speakers' dinner in Venice</b>			<i>Guided tour on San Servolo</i>				<b>Posters session II &amp; coffee (16:30-18:30)</b>			
<b>from 8:15 pm: Welcome Reception on San Servolo</b>												
									<i>Guided tour on San Servolo</i>			