CeNS Workshop Venice 2016: Nanoscale Matter – Novel Concepts and Functions

Sunday, Sept 18	Time	Monday, September 19	Time	Tuesday, September 20	Time	Wednesday, September 21	Time	Thursday, September 22	Time	Friday, September 23
Arrival	09:00	**Welcome**	09:00	**John Anthony** Organic semiconductors for applications from electronics to imaging - molecular design considerations	09:00	**Sebastian Huber** A mechanical topological insulator	09:00	**Dieter Braun** Can we create evolution from scratch?	09:00	**Wesley Legant** From cell mechanics to light sheet microscopy: imaging molecules, cells, and embryos at high spatiotemporal resolution
	09:15	**Stephen Doorn** Covalently Doped Carbon Nanotubes: Photophysics and Emerging Potential for Nanotube Photonics	09:45	**Jeffrey Schwartz** Phosphonate Monolayers are a Stable Platform for Surface Property Modification	09:45	**Josef Käs** Why do rigid tumours contain soft cancer cells?	09:45	**Tony Heinz** Seeing Electrons in 2D – Light/Matter Interactions in Atomically Thin Semiconductors	09:45	**Daniela Ziegler** DNA nanopores
	10:00	**Matthew Paszek** Mechanobiology of the Cellular Glycocalyx	10:30	**Coffee break**	10:30	**Coffee break**	10:30	**Coffee break**	10:05	**Stephan Rauschenbach** Electrospray Ion Beam Deposition of Proteins, Peptides, and Sugars: Macromolecular Structure Revealed by STM
	10:45	**Coffee break**	11:00	**Jan Philipp Junker** Spatially resolved transcriptomics and single cell lineage tracing	11:00	**Emanuel Lörtscher** Single-molecule Electronics and Optics	11:00	**Heiko Weber** Charge transport in large-area graphene	10:50	**Closing remarks**
	11:15	**Thomas Perkins** Optimizing 1 µs-resolution single-molecule force spectroscopy for studies of protein folding	11:45	**Jan Budich** Topological Insulators: A New Periodic Table for Physics	11:45	**Alberto Salleo** Charge transport in conjugated polymers: from molecular scale to mesoscopic effects	11:45	**Valentina Cauda** Tailoring properties and structures of zinc oxide nanomaterials for energy to biomedical applications		
	11:45	**Patrick Maletinsky** Quantum sensing an nanoscale imaging with single spins in diamond								
		Lunch (12:30-14:15)		**Lunch (12:30-14:15)**		**Lunch (from 12:30)** Boat at 12:40		**Lunch (12:30-14:15)**		
	14:15	**Kurt Gothelf** Templated assembly of polymers and other materials	14:15	**Ann McEvoy** 3D super-resolution microscopy using a double-helical point spread function			14:15	**Michael Knap** Periodically driven quantum systems		Boat leaves at 11:20 / 12:10 Train to Munich leaves at 13:50 h from train station
	15:00	**Alberto Morpurgo** Electronic transport through transition metal dichalcogenides and their interfaces		**Posters session I & coffee (15:00-17:00)**		**Informal discussions**	15:00	**Florian Schüder** Whole cell imaging with DNA-PAINT on a spinning disk confocal microscope		
	15:45	**Coffee break**					15:20	**Suchitra Sebastian** Exploring materials universes: the case of an exotic insulator that behaves like a metal		
	16:15	**David Cahen** Electron Transport across Peptides and Proteins						**Posters session II & coffee/drinks (16:05-18:30)**		
	17:00	**Michael Nash** Single-molecule mechanics of ultrastable protein receptor-ligand complexes	17:00	**Karsten Reuter** Predictive-quality theory for surface nanostructures						
20:00	**Welcome reception**									