

## Programmübersicht - Résumé du programme

Das vollständige Programm wird allen Teilnehmern am Tagungssekretariat abgegeben sowie auf der SPG-Webseite publiziert.

Hinweise:

- Je Beitrag wird nur der präsentierende Autor aufgeführt.
- Die Postersitzung ist am Montag von 18:30 - ca. 20:00 (mit Apéro, anschließend Grillparty) sowie am Dienstag von 12:00 - 13:15 (mit Lunchbuffet)
- (p) = Plenarsprecher, (i) = eingeladener Sprecher

Le programme complet sera distribué aux participants au stand du secrétariat de la conférence et sera publié sur le site de la SSP.

Indication:

- seul le nom de l'auteur présentant la contribution a été indiqué.
- la session poster a lieu le lundi de 18.30 à env. 20.00 (suivie de l'apéro et du barbecue) ainsi que le mardi de 12.00 à 13.15 (avec buffet de midi)
- (p) = orateur de la session plénière, (i) = orateur invité

### Plenary Session

Monday, 21.06.2010, Aula

Time	ID	PLENARY SESSION Chair: C. Rossel, IBM Rüschlikon
09:00	1	50 Jahre Laser: "Genauer – Schneller – Kleiner – Heller" Gerd Leuchs, MPI Erlangen (p)
09:40	2	The Large Hadron Collider at CERN: Entering a new era in unraveling the mystery of matter, space and time Felicitas Pauss, ETH Zürich & CERN (p)
10:20		<b>Coffee Break</b>
10:50	3	Dirac Fermions in HgTe Quantum Wells Laurens W. Molenkamp, Uni Würzburg (p)
11:30	4	Nanofabrication with Organometallic Polymers Julius Vancso, Uni Twente (p)
12:10		<b>Lunch</b>
13:30		<b>Topical Sessions</b>

Tuesday, 22.06.2010, Aula

Time	ID	PLENARY SESSION Chair: T. Gyalog, Uni Basel
09:00	5	Magnetic resonance imaging with nanomechanics Martino Poggio, Uni Basel (p)
09:40		<b>Award Ceremony, Honorary Members, General Assembly</b>
10:50		<b>Coffee Break</b>
11:20	6	Polaritons: Bose-Einstein condensation and quantum correlations in semiconductors Vincenzo Savona, EPFL (p)
12:00		<b>Postersession (continued), Lunchbuffet</b>
13:15		<b>Topical Sessions</b>

ID	MODEL BOOTH available during the whole conference
51	The SwissFEL project Rafael Abela

### 1 Modeling in Material Science

Monday, 21.06.2010, Room 115

Time	ID	MODELING IN MATERIAL SCIENCE I Chair: E. Kaxiras, EPFL
13:30	101	Au(111) vicinals reconstruction pattern and steps as nanostructure template: an atomistic insight Roberto Gaspari
13:45	102	Chemical reactivity on surfaces Stephan Blankenburg
14:00	103	Bottom-up modeling of the elastic properties of organo- silicate glasses and their relation to composition and network defects Jan M. Knaup
14:15	104	All-atom molecular dynamics simulations of amorphous, crosslinked PDMS Philip T. Shemella
14:30	105	Convergent Space Sampling by Deduction and Induction from Material Sciences to Bio-Structural Chemistry Christian Lehmann
14:45	106	Large scale computer simulations of strain distribution and electron effective masses in silicon <100> nanowires Christian Tuma
15:00	123	Optical response of gold and its alloys studied with DFT and beyond-DFT methods Deniz Keçik (changed from poster to talk)
15:15		Discussion, first chance to look at posters
15:30		<b>Coffee Break</b>
		<b>MODELING IN MATERIAL SCIENCE II Chair: H. Van Swygenhoven-Moens, PSI, A. Curioni, IBM Rüschlikon</b>
16:00	111	Iron EAM potential and magnetism: results of an extensive fitting attempt. Samuele Chiesa
16:15	113	Modelling Fe-Cr alloys by first-principle calculations and EXAFS measurements Anne-Christine Uldry
16:30	114	Embrittlement of Ni Georg Schusteritsch
16:45	115	Modeling recovery and creep by discrete dislocation dynamics Péter Dusán Ispánovity
17:00	116	Multi-scale modeling of radiation induced defect structure evolution using stochastic differential equations Peter Derlet
17:15	117	Modeling of the rheological behaviour of an Al-Cu alloy during solidification using a discrete/finite element procedure Meisam Sistaninia

17:30	118	Laue diffraction spots obtained from 3D dislocation dynamic simulations <i>Jorge Martinez Garcia</i>
17:45	119	Multiphase-field simulation of micropores constrained by a solid network: The pinching effect <i>Hossein Meidani</i>
18:00		<b>END</b>
18:30		<b>Postersession, Apéro, Barbecue</b>

16:30	208	Single crystal growth and twinning in non-stoichiometric SrCoO <sub>3-x</sub> <i>Sura Ravi Chandra Reddy</i>
16:45	209	Oxygen diffusion at moderate temperatures in highly ordered frameworks: the case of La <sub>2</sub> CoO <sub>4+δ</sub> <sup>*</sup> <i>Loïc Le Dréau</i>
17:00	210	Electron beam properties of molybdenum field emitter arrays with stacked gates <i>Patrick Helfenstein</i>
17:15		<b>END</b>

ID	MODELING IN MATERIAL SCIENCE POSTER	
121	Applications of graphene-based nano-structures produced by bottom-up technologies <i>Stephan Blankenburg</i>	
122	Experimental analysis and computational modeling of temperature dependent cyclic plastic hardening and strain controlled ratcheting <i>Koenraad Janssens</i>	
124	Atomistic modeling of carboxylate adsorption onto different aluminiumoxide and hydroxide surfaces <i>Christian Lehmann</i>	
125	Dislocation loops in nanocrystalline metals <i>Mario Augusto Velasco Sanchez</i>	
112	He atoms in BCC iron studied with molecular dynamics <i>Ning Gao (changed from talk to poster)</i>	
126	Adsorption, diffusion and coupling of phenyl groups on Cu(111): DFT calculations <i>Manh-Thuong Nguyen</i>	
127	First-principles study of copper-phthalocyanine complexes on graphene <i>Ju Ren</i>	

ID	APPLIED PHYSICS POSTER	
221	Table-top Actinic Mask Metrology Tool for Enabling EUV Lithography <i>Davide Bleiner</i>	
222	Towards an all-optical ultra-stable microwave oscillator based on an optical frequency comb <i>Vladimir Dolgovskiy</i>	
223	High Temperature Crystallographic and Electronic Structure of LaSrFeNi-oxides: a combination of Neutron diffraction and Near Edge X-ray Absorption Spectroscopy <i>Selma Erat</i>	
224	Near Edge X-ray absorption studies on CdSe thin films grown by Chemical Bath Deposition <i>Selma Erat</i>	
225	Pinned Uncompensated Spins at the Ferromagnet/Antiferromagnet Interface mapped by high-resolution Magnetic Force Microscopy <i>Niraj Joshi</i>	
226	A novel biophysical model describing repair modifications and growth inhibition of irradiated cells <i>Stephan Scheidegger</i>	
227	Magnetoelastic coupling in the triangular lattice antiferromagnet CuCrS <sub>2</sub> investigated by neutron and X-ray diffraction, neutron polarimetry and inelastic neutron scattering <i>Julia C. E. Rasch</i>	
228	Domain wall structure and propagation in CoFeB and NiFe <i>Philipp Eib</i>	
229	Quantum state preparation and laser cooling of a continuous atomic fountain with a single optical lattice <i>Laurent Devenoges</i>	
230	Deposition and Characterization of First Mirror Candidates for ITER <i>Baran Eren</i>	
231	Electronic Structure and Conductivity of n-type CdS films for Solar Energy Conversion <i>Hülya Metin</i>	

## 2 Applied Physics

Tuesday, 22.06.2010, Room 119

Time	ID	APPLIED PHYSICS I Chair: I. Furno, EPFL
14:15	201	Analysis of Human Oto-Acoustic Emissions <i>Reinhard Frosch</i>
14:30	202	Electrical impedance measurements for the local detection of modifications of coronary arteries <i>Patrick Schwaller</i>
14:45	203	Surface structuring of transparent materials by laser induced back side wet etching <i>Sarah Zehnder</i>
15:00	204	Experiments on entanglement of ultracold atoms on an atom chip <i>Jad C. Halimeh</i>
15:15	205	Optimization of multidisperse packing problems <i>Johannes Josef Schneider</i>
15:30		<b>Coffee Break</b>
		<b>APPLIED PHYSICS II Chair: B. Braunecker</b>
16:00	206	Multi-foci imaging by depth of field multiplexing with a spatial light modulator (SLM) <i>Saranjam Khan</i>
16:15	207	Exchange bias enhancement by Cr addition to CoO in a CoO-Co/Pt multilayer system <i>Sevil Oezer</i>

## 3 Astro-, Particle- and Nuclear Physics

Monday, 21.06.2010, Room 117

Time	ID	TASK I Chair: K. Kirch, PSI & ETHZ
13:15		<i>Welcome</i>
13:20	301	The CHIPP Doctoral Program <i>Andrew Hamilton</i>
13:30	302	Highlights of recent MAGIC observations <i>Dorothee Hildebrand</i>
14:00	303	Measurement of the Lamb shift in muonic hydrogen: hydrogen, QED and the proton radius puzzle <i>Aldo Antognini</i>

14:30	304	First results from the CMS experiment <i>Simon De Visscher</i>
14:50	305	First Results from the ATLAS detector and Perspectives <i>Xin Wu</i>
15:10	306	New results from the OPERA experiment <i>Antonio Ereditato</i>
15:30		<b>Coffee Break</b>
		<b>TASK II A</b> <i>Chair: F. Nessi-Tedaldi, CERN</i>
16:00	311	Studies of jet based triggers for Supersymmetry searches in the ATLAS experiment <i>Tobias Kruker</i>
16:15	312	<i>(Cancelled)</i>
16:30	313	Exclusion of low-mass, high cross-section SUSY scenarios at the LHC with ATLAS at 7 TeV center-of-mass energy <i>Cyril Topfel</i>
16:45	314	Supersymmetry at CMS with multijet events: an experimental strategy <i>Tanja Rommerskirchen</i>
17:00	315	Measurements of the Lorentz angle in the CMS barrel pixel detector <i>Mirena Ivova Rikova</i>
17:15	316	Hit resolution measurements with the CMS pixel detector <i>Carlotta Favaro</i>
17:30	317	A Standard Model Higgs boson search strategy with LHC data <i>Jürg Eugster</i>
17:45	318	LHC Discovery Potential of a Composite Higgs Model <i>Pascal Nef</i>
18:00	319	Hadro-production measurements for the T2K experiment with the NA61/SHINE detector at the CERN SPS <i>Claudia Strabel</i>
18:15	320	Pion production measurements in NA61/SHINE for the T2K neutrino experiment. <i>Sebastien Murphy</i>
18:30		<b>Postersession, Apéro, Barbecue</b>

**Monday, 21.06.2010, Room 116**

15:30		<b>Coffee Break</b>
		<b>TASK II B</b> <i>Chair: P.-R. Kettle, PSI</i>
16:00	321	<i>(Cancelled)</i>
16:15	322	An alternative approach to non-commutative inflation <i>Massimiliano Rinaldi</i>
16:30	323	<i>(Cancelled)</i>
16:45	324	The Gravitational Wave Signature of Supernova Matter <i>Simon Scheidegger</i>
17:00	325	Model independent constraints from the CMB <i>Marc Vonlanthen</i>
17:15	326	Quark matter in supernova explosions and the possible site for the synthesis of heavy elements <i>Tobias Fischer</i>

17:30	327	Search for Dark Matter with the PEBS (Positron Electron Balloon Spectrometer) Detector <i>Lesya Shchutska</i>
17:45	328	Photoproduction of $\pi^0$ -Mesons off Quasi-Free Protons and Neutrons <i>Manuel Dieterle</i>
18:00	329	Nuclear Muon Capture on the Deuteron - the MuSun experiment <i>Claude Petitjean</i>
18:15		
18:30		<b>Postersession, Apéro, Barbecue</b>

**Tuesday, 22.06.2010, Room 117**

		<b>TASK III A</b> <i>Chair: H. P. Beck, Uni Bern</i>
13:15	331	Search for Excited Electron Production in ATLAS at the LHC <i>Ahmed Abdelalim</i>
13:30	332	Measurement of W-bosons in association with jets events in the ATLAS detector at the LHC accelerator <i>Nicola Venturi</i>
13:45	333	Performance of the CMS silicon pixel detector: results from first data <i>Andreas Jäger</i>
14:00	334	Study of the Bs-meson with forthcoming data at the CMS detector <i>Barbara Millan Mejias</i>
14:15	335	Jet distributions with first LHC data at the CMS experiment <i>Matthias Artur Weber</i>
14:30	336	Search for Supersymmetry signatures with the CMS detector in events with two same-sign electrons <i>Predrag Milenovic</i>
14:45	337	A Tale of Two Ts: The Performance of the Tracker Turicensis at the LHCb Experiment <i>Michel De Cian</i>
15:00	338	Tracker alignment in LHCb <i>Vincent Fave</i>
15:15	339	Cosmological and astrophysical bounds on super-weakly interacting dark matter <i>Oleg Ruchayskiy</i>
15:30		<b>Coffee Break</b>
		<b>TASK IV A</b> <i>Chair: V. Chiochia, CERN</i>
16:00	341	Beauty production at LHC <i>Lukas Wehrli</i>
16:15	342	Search for Supersymmetry in Same-Sign Di Muon Events at the CMS Detector <i>Benjamin Stieger</i>
16:30	343	Status report of the T2K experiment and the magnetic field mapping at its near detector <i>Eike Frank</i>
16:45	344	Acoustic detection of ultra high energy neutrinos <i>Mathieu Ribordy</i>
17:00	345	Search for a flux of ultra high energy neutrinos with the IceCube neutrino telescope <i>Shirit Cohen</i>
17:15	346	Search for a neutrino signal from LS I +61303 with Ice-Cube based on a time-dependent emission model <i>Levent Demirörs</i>
17:30	347	Swiss Activities in Ground-Based Gamma-Ray Astronomy <i>Isabel Braun</i>

17:45	348	The DWARF network of Cherenkov telescopes for long-term monitoring of bright blazars <i>Thomas Bretz</i>
18:00	349	Semiconductor photosensors for Cherenkov telescopes <i>Thomas Krähenbühl</i>
18:15	350	The FACT camera: overview and status <i>Patrick Vogler</i>
18:30		<b>END</b>

**Tuesday, 22.06.2010, Room 116**

Time	ID	TASK III B <i>Chair: C. Petitjean, PSI</i>
13:15	351	The MEG Experiment - Status and First Results <i>Peter-Raymond Kettle</i>
13:30	352	The MEG Positron Spectrometer <i>Jeanine Adam</i>
13:45	353	The PSI UCN Source <i>Leonard Goeltl</i>
14:00	354	Improved search for the neutron electric dipole moment <i>Philipp Schmidt-Wellenburg</i>
14:15	355	Magnetic guiding field optimization for the nEDM apparatus at PSI <i>Edgard Pierre</i>
14:30	356	The AX-PET Demonstrator: Performance and first results <i>Chiara Casella</i>
14:45	357	Track reconstruction with the electronic detector in the OPERA experiment <i>Claudia Lazzaro</i>
15:00	358	Electron reconstruction in the OPERA emulsions. <i>Frank Meisel</i>
15:15	359	Neutrino induced charm production in the OPERA detector <i>Thomas Strauss</i>
15:30		<b>Coffee Break</b>
		<b>TASK IV B <i>Chair: B. Lauss, PSI</i></b>
16:00	361	$\eta$ -photoproduction off $^3\text{He}$ : Search for $\eta$ -mesic nuclei <i>Francis Pheron</i>
16:15	362	Quasi-free photoproduction of $\eta$ -mesons off the deuteron <i>Dominik Werthmüller</i>
16:30	363	Quasi-Free $\eta$ Photoproduction off $^3\text{He}$ <i>Lilian Witthauer</i>
16:45	364	Non-metallic electrodes for the neutron electric dipole moment experiment <i>Johannes Zenner</i>
17:00	365	Laser-driven optically-pumped Cs magnetometer array for a nEDM experiment <i>Martin Fertl</i>
17:15	366	Results from a 3 liter double phase pure argon LEM-TPC <i>Devis Lussi</i>
17:30	367	Light yield from nuclear recoils in liquid argon <i>William Creus</i>
17:45	368	The ArDM Experiment, a Double Phase Argon Calorimeter and TPC for Direct Detection of Dark Matter <i>Ursina Degunda</i>

18:00	369	Material Screening for XENON100 with a High Purity Germanium (HPGe) Spectrometer <i>Ali Askin</i>
18:15	370	Calibration of the Photomultipliers in the XENON100 Experiment <i>Annika Behrens</i>
18:30		<b>END</b>

ID	TASK POSTER
381	Implementation of NA61/SHINE data in T2K <i>Nicolas Abgrall</i>
382	Extracting the three- and four-graviton vertices from binary pulsars and gravitational-wave observations of coalescing binaries. <i>Umberto Cannella</i>
383	Active compensation of the magnetic field surrounding a new nEDM apparatus <i>Beatrice Franke</i>
384	Experimental determination of absorbed dose to water in a scanned proton beam using a water calorimeter and an ionization chamber <i>Solange Gagnebin</i>
385	The Hg magnetometer in the nEDM-experiment <i>Marlon Horras</i>
386	$^3\text{He}$ magnetometer <i>Tobias Spetzler</i>
387	The fully active calorimeter for the MICE experiment <i>Håvard Wisting</i>

**4 Physics and Sustainable Energy**

**Monday, 21.06.2010, Room 114**

Time	ID	PHYSICS AND SUSTAINABLE ENERGY <i>Chair: K. Hencken, ABB Baden</i>
15:30		<b>Coffee Break</b>
16:00	401	Sustainability Assessment of Energy Systems <i>Stefan Hirschberg (i)</i>
16:30	402	Defying the Challenges of Modern Power Systems Operation: Physical Constraints and Beyond <i>Cherry Yuen (i)</i>
17:00	403	The Swiss Master in Nuclear Engineering: an EPFL-ETHZ-PSI-industry collaboration <i>Rakesh Chawla (i)</i>
17:30		
18:30		<b>Postersession, Apéro, Barbecue</b>

**Tuesday, 22.06.2010, Room 114**

Time	ID	PHYSICS AND SUSTAINABLE ENERGY <i>Chair: K. Hencken, ABB Baden</i>
13:15	404	Das Desertec-Konzept - ein Baustein für die Energieversorgung Europas <i>Jochen Kreusel (i)</i>
13:45	405	The self sufficient home <i>Mark Zimmermann (i)</i>
14:15	406	The Role of Nuclear Power in the (Future) Energy Supply of Switzerland <i>Edwin Kolbe (i)</i>
14:45		<b>END</b>

## 5 History of Physics

Monday, 21.06.2010, Room 119

Time	ID	HISTORY OF PHYSICS Chair: J. Lacki, Uni Genève
13:15	501	The evolution of Physics teaching instruments and of their use between 1830 and 1930 <i>Paolo Brenni (i)</i>
13:45	502	The making of a microscope in the XVIIIth century <i>Marc Ratcliff (i)</i>
14:15	503	The Physics Museum at UNIL/EPFL <i>Jean-François Loude (i)</i>
14:35	504	Histoire des instruments de physique expérimentale: de l'Académie au Musée d'histoire des sciences de Genève <i>Laurence-Isaline Stahl Gretschi (i)</i>
14:55	505	Jost Bürgi brachte die Neuzeit zum Ticken <i>Fritz Staudacher (i)</i>
15:15		Discussion
15:30		Coffee Break
15:45	506	The 18th-century battle over lunar motion <i>Siegfried Bodenmann (i)</i>
16:15	507	Recursive kinetic theory of gravitation: from Lesage to Thomson and Maxwell <i>Hugues Chabot (i)</i>
16:45		Discussion
		Chair: B. Braunecker
17:00	508	Sphaera mundi of Johannes de Sacrobosco – a medieval "textbook" for the subject "Astronomy" at the universities from 13 <sup>th</sup> up to 17 <sup>th</sup> century <i>Werner Frank (i)</i>
17:20	509	Erinnerungen an Dr. Max Herzberger (1899 – 1982) und dessen Verdienste auf dem Gebiet der Strahlenoptik <i>Jakob Jütz (i)</i>
17:40	510	The classical revolutionary physics of Walter Ritz <i>Jan Lacki (i)</i>
18:00	511	Die drahtlose Telegraphie - die Einführung des Schwingkreises - der Nobelpreis 1909 - G. Marconi und F. Braun <i>Klaus Stadler (i)</i>
18:20	512	The Pleasure to drive an Accelerator <i>Bernhard Braunecker (i)</i>
18:40		Postersession, Apéro, Barbecue; END

## 6 NCCR MaNEP

Monday, 21.06.2010, Aula

Time	ID	MANEP I: CORRELATED ELECTRON SYSTEMS Chair: T. Giamarchi, Uni Genève
13:30	601	The light that Resonant Inelastic X-ray Scattering sheds on High $T_c$ Cuprates <i>Jeroen van den Brink (i)</i>
14:00	602	Is the ground-state of copper oxide really a collinear antiferromagnetic? X-rays tell a more complicated story... <i>V. Scagnoli</i>
14:15	603	The duality of charge carriers in $\text{LaAlO}_3/\text{SrTiO}_3$ superlattices revealed by resonant inelastic x-ray scattering <i>Kejin Zhou</i>
14:30	604	Spin ladders: Model systems and real materials <i>Christian Rüegg (i)</i>

15:00	605	NMR study of doping effects in a single-crystal 2-leg Heisenberg spin ladder <i>Francesco Casola</i>
15:15	606	Occurrence of superconductivity when the metal-insulator transition is inhibited in $1\text{T-TaS}_2$ <i>Peng Xu</i>
15:30		Coffee Break
		MANEP II: SUPERCONDUCTIVITY Chair: M. Sigrist, ETH Zürich
16:00	611	Some remarkable physical features of quasi one dimensional organic superconductors <i>Denis Jérôme (i)</i>
16:30	612	Evidence for exciton condensation in layered $\text{TiSe}_2$ : A photoemission study <i>Philipp Aebi (i)</i>
17:00	613	First direct observation of the Van Hove singularity in the tunneling spectra of cuprates <i>Alexandre Piriou</i>
17:15	614	Anisotropic superconducting properties of single-crystalline $\text{FeSe}_{0.5}\text{Te}_{0.5}$ <i>Markus Bendele</i>
17:30	615	Nature of stripes in the generalized t-J model applied to Cuprate superconductors <i>Kai-Yu Yang</i>
17:45	616	Spin rotational symmetry breaking by orbital current patterns in two-leg ladders <i>Piotr Chudzinski</i>
18:00	617	Evidence for magnetically driven superconducting Q phase of $\text{CeCoIn}_5$ <i>Simon Gerber</i>
18:15	618	Crystal Chemistry, Superconductivity and Magnetism of Iron Chalcogenides <i>Enrico Giannini</i>
18:30	22	Winner of the SPS Award for Condensed Matter Physics, sponsored by IBM
18:45		Postersession, Apéro, Barbecue

Tuesday, 22.06.2010, Aula

Time	ID	MANEP III: NOVEL MATERIALS FOR NANOELECTRONICS Chair: J.-M. Triscone, Uni Genève
13:15	621	Topological origin of sub-gap conduction in insulating bi-layer graphene <i>Ivar Martin (i)</i>
13:45	622	Strong localization in graphene nanoribbon devices <i>Jeroen B. Oostinga</i>
14:00	623	Magneto-optical studies of monolayer graphene on SiC <i>Iris Crassee</i>
14:15	624	Electron Spin Resonance study of Graphene <i>Luka Ciric</i>
14:30	625	Multifunctionality at the nanoscale: looking closely at ferroic domain walls <i>Patrycja Paruch (i)</i>
15:00	626	Tunable spin-orbit interaction at oxide interfaces <i>Andrea D. Caviglia</i>
15:15	627	Novel Si-in-Si one dimensional template for atomic chains <i>François Bianco</i>
15:30	628	Nano-structured $\text{SmFeAs}(\text{O},\text{F})$ single crystals: Nearly isotropic transport up to 65 T <i>Philip J. W. Moll</i>
15:45		Coffee Break ; END

ID	MANEP POSTER
6001	Fe <sub>1-y</sub> Se <sub>x</sub> Te <sub>1-x</sub> superconductors: phase diagram, crystal growth, structural and magnetic properties <i>Ekaterina Pomjakushina</i>
6002	Evidence for large electric polarization from commensurate magnetism in multiferroic TmMnO <sub>3</sub> <i>Vladimir Y. Pomjakushin</i>
6003	Optical Investigation of the Charge Dynamics in Ba(Co <sub>x</sub> Fe <sub>1-x</sub> ) <sub>2</sub> As <sub>2</sub> <i>Andrea Lucarelli</i>
6004	Morphology, Elasticity and Slow Dynamics of Superconducting Vortex Lattices Investigated with Time Resolved Stroboscopic Neutron Scattering. <i>Sebastian Mühlbauer</i>
6005	Influence of doping on the strong rail spin ladder compound (2,3-dmpyH) <sub>2</sub> CuBr <sub>4</sub> <i>Sebastian Mühlbauer</i>
6006	Electron paramagnetic resonance investigation of EuFe <sub>2-x</sub> Co <sub>x</sub> As <sub>2</sub> (x=0, 0.1, 0.2) single crystals <i>Zurab Guguchia</i>
6007	Muon spin rotation study of the CaC <sub>6</sub> superconductor at low temperatures <i>Ferenc Muranyi</i>
6008	Metallic-like temperature dependence of the mobility in n-type organic single-crystal field effect transistors <i>Nikolas Minder</i>
6009	Equilibrium and out of equilibrium studies of ultracold fermions in an optical lattice <i>Thomas Uehlinger</i>
6010	MuSR studies of the heavy fermion CeRhSi <sub>3</sub> <i>Nikola Egetenmeyer</i>
6011	Graphene based devices on top of single crystal SrTiO <sub>3</sub> substrates <i>Nuno J. G. Couto</i>
6012	Dissipation-driven phase transitions in superconducting wires <i>Alejandro M. Lobos</i>
6013	Dynamical correlation functions in spin-1/2 ladders under a magnetic field <i>Pierre Bouillot</i>
6014	Anisotropic properties of superconducting single crystals of La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> <i>Saskia Bosma</i>
6015	Ferromagnetic spin resonance in EuTiO <sub>3</sub> probed by time-domain THz ellipsometry <i>J. L. M. van Mechelen</i>
6016	Evidence for extended magnetic interactions in the cuprates from the magnon dispersion of Sr <sub>2</sub> CuO <sub>2</sub> Cl <sub>2</sub> <i>Marco Guarise</i>
6017	Low energy muon spin rotation study of the Meissner effect in La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> heterostructures <i>Bastian M. Wojek</i>
6018	Spectroscopy of cold bosonic atoms by periodically phase-modulation of optical lattice potential <i>Akiyuki Tokuno</i>
6019	Semimetal to semiconductor phase transition in 1T-TiS <sub>2</sub> induced by Nb doping studied by angle resolved photoemission spectroscopy <i>Miguel A. Valbuena</i>
6020	Threshold Voltage and Space Charge in Organic Transistors <i>Ignacio Gutiérrez Lezama</i>
6021	Pseudogap and anisotropic far-infrared optical conductivity of URu <sub>2</sub> Si <sub>2</sub> <i>Julien Levallois</i>
6022	Giant spin orbit splitting from band topology: Experiment and tight-binding approach to the Bi/Si(111) bandstructure <i>Emmanouil Frantzeskakis</i>

6023	High Field ESR Study of (EDT-TTF-CONH) <sub>8</sub> Re <sub>6</sub> Se <sub>8</sub> (CN) <sub>8</sub> Under Pressure <i>Dejan Djokic</i>
6024	Pseudogap Phase of High-Temperature Superconductors Studied by ARPES <i>Elia Razzoli</i>
6025	When Superconductivity meets Magnetism: Angle Resolved Photoemission Spectroscopy and Polarized Neutron Reflectometry studies on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Bilayers <i>Milan Radovic</i>
6026	Magnetically-driven electric polarization in a magneto-electric organo-metallic magnet <i>M. Kenzelmann</i>
6027	Manganese silicide nanowires on the Si(001) surface induced by Bi nanolines <i>James H. G. Owen</i>
6028	Pauli paramagnetic effects on the flux line lattice in CeCoIn <sub>5</sub> <i>Jonathan S. White</i>
6029	Anisotropic properties and multi-gap superconductivity in SmFeAsO <sub>1-x</sub> F <sub>y</sub> <i>Stephen Weyeneth</i>
6030	Proximal detection of magnetism near the surface of YBCO films using β-NMR <i>Hassan Saadaoui</i>
6031	The phase diagram of precursor superconductivity as obtained from the infrared c-axis conductivity of RBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> <i>Adam Dubroka</i>
6032	Heat propagation velocities in coated conductors for fault current limiter applications. <i>Louis Antognazza</i>
6033	Magnetic and superconducting properties of electron doped La <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4</sub> epitaxial thin films <i>Hubertus Luetkens</i>
6034	Effect of a staggered spin-orbit coupling on the occurrence of a nematic phase in Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> <i>Mark H. Fischer</i>
6035	Collective Mode Energy Measured by Scanning Tunneling Spectroscopy Does Not Follow T <sub>c</sub> in Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10+δ</sub> <i>Nathan Jenkins</i>
6036	Structural Studies of the Interfaces Between Insulating Metal Oxides <i>Stephan A. Pauli</i>
6037	Ultrafast laser-induced spin-reorientation in the heterostructure Co/SmFeO <sub>3</sub> <i>Loic Le Guyader</i>
6038	High oxygen pressure single crystal growth of spin ladder superconductor Sr <sub>14-x</sub> Ca <sub>x</sub> Cu <sub>24</sub> O <sub>41</sub> by optical floating zone technique <i>Guochu Deng</i>
6039	The spin-mediated pairing interaction of high T <sub>c</sub> superconductors: clues from scanning tunneling spectroscopy on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> single crystals <i>Ivan Maggio-Aprile</i>
6040	Study of magnetoelectric effects (parity and time odd) by resonant x-ray diffraction techniques in GaFeO <sub>3</sub> <i>Urs Staub</i>
6041	Strong-coupling signatures in the tunneling spectra of metals and superconductors: the role of dimensionality <i>Christophe Berthod</i>
6042	Structural and magnetic properties of the parent compound T'-La <sub>2</sub> CuO <sub>4</sub> of electron-doped cuprates <i>Gwendolyne Pascua</i>
6043	Electronic Structure of Superconducting iron-chalcogenide studied by angle-resolved photoemission spectroscopy <i>Ping-Hui Lin</i>

<b>6044</b>	Controlled growth and placement of carbon nanotubes for device applications <i>Yuliya Lisunova</i>
<b>6045</b>	Polarization switching and ferroelectric field effect in devices combining carbon nanotubes with epitaxial $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ thin films <i>Cedric Blaser</i>
<b>6046</b>	Crystal structure and superconductivity above 50 K in Th-substituted $\text{SmFeAsO}$ <i>Nikolai D. Zhigadlo</i>
<b>6047</b>	Fine tuning strain through composition: $\text{Pb}_x\text{Sr}_{1-x}\text{TiO}_3$ on $\text{DyScO}_3$ <i>Gijsbert Rispens</i>
<b>6048</b>	Single crystal growth and superconducting properties of doped $\text{LnFeAsO}$ ( $\text{Ln}=\text{La, Pr, Nd, Sm, Gd}$ ) and $\text{AFe}_2\text{As}_2$ ( $\text{A}=\text{Ba, Ca, Rb, Eu}$ ) <i>Janusz Karpinski</i>
<b>6049</b>	The apparent influence of elastic scattering on binding energies and the mean free path in x-ray photoemission <i>Eike F. Schwier</i>
<b>6050</b>	Shear effects in lateral piezoresponse force microscopy at $180^\circ$ ferroelectric domain walls <i>Jill Guyonnet</i>
<b>6051</b>	Pulsed laser deposition of $\text{TbMnO}_3$ thin films <i>Yi Hu</i>
<b>6052</b>	Identification of the Fermi and non-Fermi liquid phase in transport properties of $\text{MnSi}$ <i>Stevan Arsenijevic</i>
<b>6053</b>	Anomalous $\text{LaAlO}_3$ c-axis contraction in the $\text{LaAlO}_3 / \text{SrTiO}_3$ system <i>Claudia Cancellieri</i>
<b>6054</b>	$\text{CeCu}_2\text{Si}_2$ : new insights from magneto-transport measurements <i>Gabriel Seyfarth</i>
<b>6055</b>	Self-organization and electronic properties of $\text{Ag}/\text{Si}(111) - 7 \times 7$ <i>Nicolas Mariotti</i>
<b>6056</b>	Field-effect studies of rare-earth nickelate thin films <i>Raoul Scherwitzl</i>
<b>6057</b>	High Curie temperature in epitaxial $\text{Pb}(\text{Zr}_{20}\text{Ti}_{80})\text{O}_3$ thin films grown on silicon <i>Alessia Sambri</i>
<b>6058</b>	Static roughness of a one-dimensional interface at finite temperature <i>Elisabeth Agoritsas</i>
<b>6059</b>	Novel Method to Probe Ion Diffusion in Battery-materials by $\mu^+\text{SR}$ <i>Martin Månsson</i>
<b>6060</b>	Spin Density Wave Order in the Quasi-1D Metallic Antiferromagnet $\text{NaV}_2\text{O}_4$ <i>Martin Månsson</i>
<b>6061</b>	Soft X-ray ARPES Investigation of High-temperature Superconductors <i>Martin Månsson</i>
<b>6062</b>	Dispersion of two-spinon and collective orbital excitations in $\text{Sr}_2\text{CuO}_3$ investigated by Resonant Inelastic Soft X-Ray Scattering <i>Thorsten Schmitt</i>
<b>6063</b>	Microscopic Study of the Superconducting State of the Iron Pnictide $\text{RbFe}_2\text{As}_2$ <i>Zurab Shermadini</i>
<b>6064</b>	Non-Fermi-Liquid-like Charge Transport of Overdoped Cuprates <i>Jonathan Buhmann</i>
<b>6065</b>	Superfluid Density and Energy Gap-Function of Superconducting $\text{PrPt}_4\text{Ge}_{12}$ <i>Alexander Maisuradze</i>
<b>6066</b>	Magneto-transport properties of $\text{LaAlO}_3 / \text{SrTiO}_3$ interfaces <i>Alexandre Fête</i>

<b>6067</b>	Interaction between the magnetic and superconducting order parameters in a $\text{La}_{1.94}\text{Sr}_{0.06}\text{CuO}_4$ wire <i>Elvezio Morenzoni</i>
<b>6068</b>	Magnetoelectric multipoles in $\text{GaFeO}_3$ <i>Cynthia Piamonteze</i>
<b>6069</b>	Influence of the domain walls on the Josephson effect in $\text{Sr}_2\text{RuO}_4$ <i>Adrien Bouhon</i>
<b>6070</b>	High performance thermoelectric materials <i>Sascha Populoh</i>
<b>6071</b>	On-demand electron entanglement in a normal-superconductor junction <i>Andrey V. Lebedev</i>
<b>6072</b>	Non-linear spin dynamics on the square-lattice - neutron scattering and theory <i>Martin Mourigal</i>
<b>6073</b>	Functional Nanomaterials for Catalysis and Sensing Applications <i>Greta R. Patzke</i>
<b>6074</b>	Graphene - a corrugated and chiral structure <i>Philip Willmott</i>
<b>6075</b>	Functional Nanomaterials for Catalysis and Sensing Applications <i>Ying Zhou</i>
<b>6076</b>	Magneto-thermal Transport Study of the $\text{LaAlO}_3 / \text{SrTiO}_3$ Interface at ambient and high Pressure <i>Anna-Sabina Rüetschi</i>
<b>6077</b>	Electron-phonon coupling in $\text{TiSe}_2$ : A photoemission study <i>Zuzana Vydrova</i>
<b>6078</b>	Magnetism of Ni and Co-doped ZnO Produced by Low Temperature Synthesis Process <i>Zlatko Mickovic</i>
<b>6079</b>	Superconductivity and magnetic ordering in Co-substituted $\text{EuFe}_2\text{As}_2$ single crystals <i>Zbigniew Bukowski</i>
<b>6080</b>	Nanoscale ferroelectric domain switching mechanisms in $\text{BiFeO}_3$ <i>Benedikt Ziegler</i>
<b>6081</b>	Pressure influence on $(\text{EDT-TTF-CONH})_6\text{Re}_6\text{Se}_8(\text{CN})_6$ , a Metallic Kagomé-Type Organic-Inorganic Hybrid Compound <i>Jacim Jacimovic</i>
<b>6082</b>	Absence of magnetic phase separation in $\text{MnSi}$ under pressure <i>Alex Amato</i>
<b>6083</b>	Proximity induced interfacial magnetism at nanometer scale in complex oxide superlattices <i>Dillip K. Satapathy</i>
<b>6084</b>	Phenomenology of the saddle point regime of the two-dimensional Hubbard model <i>Matthias Ossadnik</i>
<b>6085</b>	Revealing the Ortho II Band Folding in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films <i>Yasmine Sassa</i>
<b>6086</b>	Growth and characterisation of high- $T_c$ superconductor and colossal magnetoresistance superlattices <i>Vivek K. Malik</i>
<b>6087</b>	A $^{29}\text{Si}$ NMR study of the quasi 1-D $S = 1/2$ spin-chain compound $\text{BaCu}_2\text{Si}_2\text{O}_7$ <i>Toni Shiroka</i>
<b>6088</b>	Reversible switching of magnetic transitions in $\text{Na}_x\text{CoO}_2$ ( $x \approx 0.83$ ) by altering the Coulomb potential background <i>Jakob Kanter</i>
<b>6089</b>	NMR Search for orbital-current Effects in under-doped YBCO <i>Björn Granéli</i>
<b>6090</b>	Solar Thermoelectric Cavity Converter <i>Petr Tomes</i>

6091	A Photon Josephson Junction (PJJ) using circuit QED <i>Sebastian Schmidt</i>
6092	Behaviour of Al/SrTiO <sub>3-x</sub> N <sub>y</sub> /Al as MEMRISTORS <i>Andrey Shkablo</i>
6093	Synthesis and thermoelectric properties of aluminum-doped zinc oxide <i>Myriam H. Aguirre</i>
6094	Engineering Leg-Materials for All-Oxides Thermoelectric Module <i>Lassi Karvonen</i>
6095	Laser induced CDW melting in TiSe <sub>2</sub> studied by optical and x-ray time resolved spectroscopy <i>Ekaterina Vorobeva</i>
6096	Spin waves in multiferroic LiCu <sub>2</sub> O <sub>2</sub> ; far-infrared study in high magnetic fields <i>Dan Hühnen</i>
6097	Multiferroic Composites Probed with Soft X-ray Techniques <i>Rajesh V. Chopdekar</i>
6098	World Record High Field Magnet for Neutron Scattering <i>Rolf Spreiter</i>
6099	Ultrafast Relaxation in a Low Density Electron Glass <i>Verner K. Thorsmølle</i>
6100	<i>(Cancelled)</i>
6101	Electron-phonon mass enhancement in graphene antidot lattices <i>Vladimir M. Stojanovic</i>
6102	Strain-induced effects on the electronic structure of manganese thin films and their properties <i>Mihaela C. Falub</i>

## 7 NCCR NANO

Monday, 21.06.2010, Room 118

Time	ID	<b>NANO I: THEORY OF QUANTUM SYSTEMS</b> <i>Chair: B. Braunecker jr., Uni Basel</i>
13:30	701	Spin transport in insulating magnets <i>Kevin van Hoogdalem</i>
13:45	702	Energy relaxation in Coulomb coupled edge channels <i>Simon Nigg</i>
14:00	703	Perturbative Schrieffer-Wolff transformation and the Kitaev model <i>Fabio Pedrocchi</i>
14:15	704	Mesoscopic Coulomb drag, broken detailed balance and fluctuation relations <i>Rafael Sanchez</i>
14:30	705	Edge states and enhanced spin-orbit interaction at graphene/graphane interfaces <i>Manuel Schmidt</i>
14:45	706	On long-time Environment-induced Entanglement of bipartite Systems <i>Maximilian Schultz</i>
15:00	707	Spin susceptibility of interacting two-dimensional electrons in the presence of Rashba spin-orbit coupling <i>Robert Zak</i>
15:15	708	One-step Multi-qubit GHZ State Generation in a Circuit QED System <i>Ying-Dan Wang</i>
15:30		<b>Coffee Break</b>
		<b>NANO II: NANOMECHANICS</b> <i>Chair: L. Marot, Uni Basel</i>

16:00	711	Improved atomic scale contrast via bimodal dynamic force microscopy <i>Shigeki Kawai</i>
16:15	712	Non-contact friction measurements done with nc - AFM in the pendulum mode <i>Marcin Kisiel</i>
16:30	713	Size-dependent spin structures in supported iron nanoparticles <i>Armin Kleibert</i>
16:45	714	Optomechanical Coupling of Ultracold Atoms and a Membrane <i>Maria Korppi</i>
17:00	715	Effect of Uniaxial Strain on Transport Properties of Silicon Nanowires <i>Giorgio Signorello</i>
17:15	716	Surface-assisted cyclodehydrogenation - a synthetic route towards processable and chemically tailored nanographenes <i>Matthias Treier</i>
17:30	717	Atomically precise bottom-up fabrication of graphene nanoribbon <i>Jinming Cai</i>
17:45	718	Sumanene: Intermolecular interaction-driven bowl inversion <i>Rached Jaafar</i>
18:00	719	Controlled Manipulation of Arbitrarily Shaped Nanoparticles <i>Enrico Gnecco</i>
18:15		
18:30		<b>Postersession, Apéro, Barbecue</b>

Tuesday, 22.06.2010, Room 118

Time	ID	<b>NANO III: EXPERIMENTS ON QUANTUM SYSTEMS</b> <i>Chair: T. Clark, Uni Basel</i>
13:15	721	Cooper pair splitter realized in a two-quantum-dot Y-junction <i>Szabolcs Csonka</i>
13:30	722	Nuclear Spin Relaxation in an All-Electrical Lateral Spin Transport Device <i>Dominikus Koelbl</i>
13:45	723	Oxide-/Schottky-gate Hybrid Quantum Dots <i>Clemens Rössler</i>
14:00	724	Ferromagnetic proximity effect in InAs nanowire hybrid structures <i>Lukas Hofstetter</i>
14:15	725	Method for Cooling Nanostructures to Microkelvin Temperatures <i>Kai K. Schwarzwälder</i>
		<b>NANO IV: NANOSTRUCTURES AND MOLECULAR NANOSYSTEMS</b> <i>Chair: J. Trbovic, Uni Basel</i>
14:30	731	Multiple Roles of Carbon Chains in Quinacridone Monolayers <i>Huanyao Cun</i>
14:45	732	The Nernst limit in dual-gated FET sensors <i>Alexey Tarasov</i>
15:00	733	Molecular assembly and exchange coupling of paramagnetic porphyrins on ferromagnetic thin film <i>Christian Wäckerlin</i>
15:15	734	Guided-Patterning of Gold Nanoparticles using Block Copolymer Templating Methods <i>Li Wang</i>
15:30		<b>Coffee Break</b>

<b>NANO V: NANOBIOLOGY</b> <i>Chair: C.-A. Schönberger, Uni Basel</i>		
<b>16:00</b>	<b>741</b>	Imaging, sensing and manipulating single biomolecular transporters at work <i>Daniel Müller (I)</i>
<b>16:30</b>	<b>742</b>	The role of ATP and DNA in opening and closing of the N-gate in B.subtilis gyrase <i>Airat Gubaev</i>
<b>16:45</b>	<b>743</b>	Melting of short DNA Hairpin Structures using Micro-mechanical Cantilevers <i>François Huber</i>
<b>17:00</b>	<b>744</b>	Mechanical markers of tumor progression in breast cancer <i>Marija Plodinec</i>
<b>17:15</b>	<b>745</b>	Synthetic Protein Targeting <i>Janne Hyötylä</i>
<b>17:30</b>		<b>END</b>

<b>ID</b>		<b>NANO POSTER</b>
<b>751</b>		Brownian Motion in Viscoelastic Fluids <i>Matthias Grimm</i>
<b>752</b>		Microfabricated cantilever array sensors for electronic nose measurements <i>Hans Peter Lang</i>
<b>753</b>		Scale-dependent dynamic stiffness analysis of articular cartilage by atomic force microscopy (AFM) <i>Marko Loparic</i>
<b>754</b>		Characterization of pulmonary surfactant lipids and blood plasma proteins binding to different functionalized multi-walled carbon nanotubes <i>Michael Gasser</i>
<b>755</b>		Uptake kinetics of aerosolized cerium oxide nanoparticles into lung cell cultures exposed at the air-liquid interface <i>David O. Raemy</i>
<b>756</b>		The mesoscopic capacitor as a single electron source <i>Mathias Albert</i>
<b>757</b>		Spin-selective Peierls transition <i>Bernd Braunecker</i>
<b>758</b>		Resistance Anisotropy in Natural Graphite and HOPG <i>Lucas Casparis</i>
<b>759</b>		RKKY interaction in a disordered two-dimensional electron gas with Rashba and Dresselhaus spin-orbit couplings <i>Stefano Chesi</i>
<b>760</b>		EDSR effects in a carbon nanotube <i>Jelena Klinovaja</i>
<b>761</b>		A Self-Correcting Quantum Memory in a Thermal Environment <i>Beat Röthlisberger</i>
<b>762</b>		Spin-Electric Coupling in Molecular Magnets <i>Dimitrije Stepanenko</i>
<b>763</b>		Relaxation of Hole Spins in Quantum Dots via Two-Phonon Processes <i>Mircea Trif</i>
<b>764</b>		Signatures of the $5/2$ wave functions on the cotunneling current between fractional quantum Hall edge states <i>Robert Zielke</i>
<b>765</b>		Spin-1 Bosons in Optical Superlattices <i>Andreas Wagner</i>
<b>766</b>		Ferromagnetic Permalloy contacts to carbon nanotube spin transport devices <i>Hagen Aurich</i>
<b>767</b>		Inverted GaAs 2D Electron Gas in Close Proximity to InAs Quantum Dots <i>Florian Dettwiler</i>

<b>768</b>	Superconductivity enhanced conductance fluctuations in few-layer graphene ribbons <i>Frank Freitag</i>
<b>769</b>	Miniature Cryogenic Microwave Filters for Low Electron Temperatures <i>Christian Scheller</i>
<b>770</b>	Quantum dots in p-GaAs tuned by combined in-plane and top-gates <i>Yashar Komijani</i>
<b>771</b>	Spin-orbit interaction in semiconductor quantum wells with varying symmetry of the doping profile <i>Matthias Walser</i>
<b>772</b>	Friction Anisotropy on Layer Compound Crystals <i>Gregor Fessler</i>
<b>773</b>	Optomechanical coupling of ultracold atoms and a membrane <i>Andreas Jöckel</i>
<b>774</b>	Contrast Inversion of h-BN Nanomesh on Rh(111) analyzed by KPFM and bimodal nc-AFM <i>Sascha Koch</i>
<b>775</b>	2D force spectroscopy on the h-BN nanomesh with bimodal dynamic force microscopy <i>Markus Langer</i>
<b>776</b>	Novel aspects of atomic-scale friction force microscopy <i>Alexis Baratoff</i>
<b>777</b>	Dynamics of the Polarization Charges on Plasmonic Nanostructures <i>Banafsheh Abasahl</i>
<b>778</b>	Towards an Experiment to Simultaneously Measure Electrical and Optical Transport in Plasmonic Nano Junctions <i>Banafsheh Abasahl</i>
<b>779</b>	Preparation and transport measurements on patterned networks of gold nanoparticles bridged by a single or a few molecules <i>Jon S. Agustsson</i>
<b>780</b>	Conductance Fluctuations in Molecular Junctions <i>Jan Brunner</i>
<b>781</b>	Towards an Optoelectronic Characterization of Molecules <i>Toni Fröhlich</i>
<b>782</b>	Force spectroscopy and charge transport in molecular junctions <i>Cornelia Nef</i>
<b>783</b>	Towards Fully Tunable Carbon Nanotube Quantum Dots <i>Markus Weiss</i>
<b>784</b>	Linked Nanorods as Bottom-Up Molecular Electronics Devices <i>Antje Rey</i>
<b>785</b>	Effect of Annealing Temperature and Dwelling Time on the Photoelectrochemical Behavior of Nanostructured Hematite Thin Film <i>Debajeet Bora</i>
<b>786</b>	Controlled Release From PVA Hydrogels Via Polymeric Vesicles <i>Sindhu Menon</i>
<b>787</b>	Protein Coupled Copper-Catalysts for Atom Transfer Radical Polymerization in Pure Water <i>Kasper Renggli</i>
<b>788</b>	Reversible Self-Assembly of an Amphiphilic Oligopeptide into Microspheres <i>Thomas Schuster</i>
<b>789</b>	Collagen Model Peptides with Sites for Functionalization <i>Roman Erdmann</i>
<b>790</b>	A new apparatus for the study of ultracold ion molecule chemical reactions. <i>Felix Hall</i>
<b>791</b>	A novel surface-electrode trap for the sympathetic cooling of molecular ions <i>Iulia Georgescu</i>
<b>792</b>	Generation and Charge-Transfer Spectroscopy of State-Selected and Translationally Cold $N_2^+$ Molecular Ions <i>Xin Tong</i>

793	Peptides involved in the antimicrobial interaction with silver ions <i>Sonja Eckhardt</i>
794	Synthesis and "migration" of silver nanoparticles in polyelectrolyte matrix <i>Jérôme Girard</i>
795	Benzylthioether stabilized gold nanoparticles: tuning size and interlinking properties <i>Jens Hermes</i>
796	Loops vs. Stems: Benzylic Sulfide Oligomeres Forming Carpet Type Monolayers <i>Fabian Sander</i>

### 8 NCCR Quantum Photonics

Tuesday, 22.06.2010, Room 120

Time	ID	QUANTUM PHOTONICS <i>Chair: A. Weis, Uni Fribourg</i>
13:15	801	Towards single-spin quantum jumps in a self-assembled InAs/GaAs quantum dot <i>Parisa Fallahi</i>
13:30	802	Optically driven electron pump using InAs quantum dots <i>Laurent Nevou</i>
13:45	803	Multicolor-magnetically assisted quantum cascade laser emitting from 730GHz to 1.4THz and 3.2THz <i>Dana Turcinkov</i>
14:00	804	Mapping multiple photonic qubits into and out of one solid-state atomic ensemble <i>Imam Usmani</i>
14:15	805	Coupling single electron spins <i>Kathrina Weiss</i>
14:30	21	<i>Winner of the SPS Award for General Physics, sponsored by ABB</i>
14:45	23	<i>Winner of the SPS Award for Applied Physics, sponsored by OC Oerlikon</i>
15:00		<b>END</b>
15:30		<b>Coffee Break</b>

ID	QUANTUM PHOTONICS POSTER
811	Charge controlled self-assembled Quantum Dots coupled to photonic crystal cavities <i>Dorothea Pinotsi</i>
812	Optical control of nuclear spin flips <i>Priska Studer</i>

### 9 POLYCOLL (Polymers and Colloids)

Monday, 21.06.2010, Room 120

Time	ID	POLYCOLL <i>Chair: W. Meier, Uni Basel</i>
13:50		<i>Welcome Note</i>
14:00	901	Nitroxides containing polymers as novel redoxactive electrode materials for Li-ion batteries <i>Peter Nesvadba (i)</i>
14:30	902	Nanostructured layers with selected chemical and optical properties <i>Rita Hofmann (i)</i>
15:00	903	Advanced eco friendly waterborne coatings due to a novel nanoscaled additive <i>Detlef Burgard (i)</i>
15:30		<b>Coffee Break</b>
		<i>Chair: B. Steinmann, 3D Systems SA</i>
16:00	904	Polymers in the textile process chain <i>Jochen Stock (i)</i>
16:30	905	Nanosized Polymeric Structures in Dental Tissue Regeneration <i>Aart Molenberg (i)</i>
17:00	906	Polymer mobilisation and drug substance dynamics in dissolving pharmaceutical solid dispersions <i>Michael Schuleit (i)</i>
17:30		<i>Closing Remarks</i>
17:45		<b>END</b>

ID	POLYCOLL POSTER
911	Drying-mediated assembly of colloidal particles <i>Cyrrill Kümin</i>
912	AFM Study of Polyacrylic Acid Adsorption on Calcite <i>Laura Muresan</i>
913	Ag-Nanoparticle Formation in Different Sizes Controlled by Peptides <i>Conelious Pfumbidzai</i>
914	Creating hematite pillar structures using electrohydrodynamic instability <i>Rita Toth</i>
915	Automated Synthesis of Methacrylate (MA) Polymers using RAFT <i>Amira Abou-Hamdan</i>

## Aussteller - Exposants

attocube systems AG, DE-80539 München  
[www.attocube.com](http://www.attocube.com)

Chemspeed Technologies AG, CH-4302 Augst  
[www.chemspeed.com](http://www.chemspeed.com)

Dyneos AG, CH-8307 Effretikon  
[www.dyneos.ch](http://www.dyneos.ch)

GMP SA, CH-1020 Renens  
[www.gmp.ch](http://www.gmp.ch)

Hide Analytical Ltd., UK-Warrington, WA5 7UN  
[www.hideanalytical.com](http://www.hideanalytical.com)

HORIBA Jobin Yvon GmbH, DE-64625 Bensheim  
[www.horiba.com](http://www.horiba.com)

JCM - Dr. Jürgen Christian Müller, DE-60439 Frankfurt am Main  
[www.jcmueller.de](http://www.jcmueller.de)

LOT-Oriel AG, CH-1122 Romanel-sur-Morges  
[www.lot-oriel.ch](http://www.lot-oriel.ch)

Meili-Kryotech, CH-7433 Donat  
[www.kryotech.ch](http://www.kryotech.ch)

MICOS GmbH, DE79427 Eschbach  
[www.micos.ws](http://www.micos.ws)

NanoAndMore GmbH, DE-35578 Wetzlar  
[www.nanoandmore.com](http://www.nanoandmore.com)

Nanosurf AG, CH-4410 Liestal  
[www.nanosurf.com](http://www.nanosurf.com)

Presses polytechniques et universitaires romandes EPFL,  
CH-1015 Lausanne  
[www.ppur.org](http://www.ppur.org)

Schäfer-Tec AG, CH-3422 Kirchberg BE  
[www.schaefer-tec.com](http://www.schaefer-tec.com)

Swiss Vacuum Technologies S.A, CH-2022 Bevaix  
[www.swissvacuum.com](http://www.swissvacuum.com)

TECO René Koch, CH-1807 Blonay  
[www.teco-rene-koch.com](http://www.teco-rene-koch.com)

VG Scienta, UK-Hastings, East Sussex, TN38 9NN  
[www.vgscienta.com](http://www.vgscienta.com)

Zurich Instruments, CH-8005 Zürich  
[www.zhinst.com](http://www.zhinst.com)