1st week

Tuesday August 12, 2014

8.00 - 9:00	**Registration**
9:00 - 9.15	**Opening**
9.15 - 10:20	**Section I Ions : from traps to colloids.**
9:15 - 10:05	*M. Drewsen* Ion Coulomb Crystals
10:05 - 10:35	*T. Mehlstaeubler* Symmetry Breaking and Topological Defect Formation in Ion Coulomb Crystals.
10.35 - 11.05	Coffee
11:05 - 12:05	*C. Bechinger* Tribology of colloidal systems
12.30 - 14.30	Lunch
14:30 - 15:50	**Section II CDW and stripes**
14:30 – 15:20	*E. Blackburn* Charge Density Waves in High Temperature Superconductors
15:20 - 15:50	*D. Reznik* Direct observation of dynamic charge stripes in $La_{2-x}Sr_xNiO_4$
15:50 - 16:10	Coffee
16:10 - 17:20	**Section III Charge – and spin density waves I**
16:10 - 16:30	*Y.-A. Soh* Phase information of the strain wave in chromium thin films
16:30 - 16:55	*D. Dominko* Fingerprints of hopping conductivity in disordered charge density wave systems
16:55 - 17:20	*M. Hayashi* Time-dependent Ginzburg-Landau equation for charge density waves and its application to sliding phenomena
17:30	**Welcome reception**

Wednesday, August 13, 2014

9.00 - 11:55	**Section IV Transformations of cooperative electronic states by optical impacts I.**
9.00 - 10:20	*M. Wolf* Time-resolved spectroscopy and ultrafast dynamics of the electronic structure of photoexcited solids
10.20 - 10.50	Coffee
10:50 - 11:30	*H. Okamoto* New aspects of photoinduced phase transitions in correletaed electron materials
11:30 - 11:55	*T. Mertelj* Spectrally-resolved femtosecond reflectivity relaxation dynamics in undoped SDW 122-structure iron based pnictides
12:30 - 14.30	Lunch
14:30 - 15:40	**Section V Electronic states and spectra**
14:30 - 15:00	*G. Aeppli* Controlled quantum states of isolated and interacting defects in silicon
15:00 - 15:20	*Z. Bonasic-Losic* Spectral properties of Dirac electron system
15:20 - 15:40	*A. Arakcheeva* 1D host-guest composite structure of BaVS3 1D correlate electron system at the 70-295 K temperature range
15:40 - 16:10	Coffee
16:10 - 17:10	**Section VI Other correlated states**
16:10 - 16:30	*S. Mukhin* Euclidean action of superconductor with “hidden order”
16:30 - 16:50	*P. Aseev* Spin injection from topological insulator tunnel-coupled to metallic leads
16:50 - 17:10	*R. Ramazashvili* Diagnosting a strong topological insulator by quantum oscillations

Thursday, August 14, 2014

9.00 - 10:20	**Section VII Charge – and Spin density waves II**
	P. Monceau Charge modulation in two-dimensional compounds
10.20 - 10.50	Coffee
10:50 - 12:30	**Section VIII Competing superconductivity**
10:50 - 11:15	*S. Brown* Superconductivity beyond the paramagnetic limit in organic conductors
11:15 - 11:40	*C. Pasquier* Competition charge density wave/superconductivity in the TTF[M(DMIT)2] (M=NI,PD) organic conductors
11:40 - 12:00	*Ya. Gerasimenko* What spin-density wave is like in the vicinity of superconductor in $(TMTSF)_2CLO_4$?
12.30 - 14.30	**Lunch**
14:30 - 17:30	**Section IX Magnetic fields and spin effects I.**
14:30 - 15:00	*Y.-W. Park* The zero magneto resistance of MoS2 at high electric field
15:00-15:25	*A. Lebed* Quantum limit in a magnetic field for triplet superconductivity in a quasi-one-dimensional conductor
15:25 - 15:55	*S. Brazovskii* CDW in the Hall bar at hihh magnetic fields **30**
15:55 - 16:20	Coffee
16:20 - 17:10	**Section X Magnetic fields and spin effects II.**
16:20 - 16:45	*K. Murata* Possible quantum Hall effect in magnetic-field-induced phase transition in the quasi-one-Dimensional CDW Organic Conductor HMTSF-TCNQ
16:45 - 17:10	*L. Radzikhovskii* Fluctuations, stability, and phase transitions of Larkin-Ovchinnikov states: quantum liquid crystals

Friday, August 15, 2014

9.00 –10:20	**Section XI Field effect and electrostatic doping** =
9:00 - 9:40	*I. Inoue* Feasible Mott FET: concept, obstacles, and future.
9:40 - 10:30	*J.Ye* Two-dimenional electronics based on ion-gated nanosheets
10.30 - 11.00	Coffee
11:00 –12:00	**Section XII Optics and spectra of correlated electrons.**
11:00 - 11:30	*M. Dressel* Pressure dependent optical properties of correlated pi-electron systems
11:30 - 11:50	*V. Nasretdinova* Polarization dependence of the photoconduction spectra of o-TAS_3
11:50 - 12:10	*O. Barisic* High-energy anomalies in covalent high-Tc cuprates with large Hubbard Ud on copper
12.30 –14.30	Lunch
14:30 - 14:55	**Section XIII Electronic ferroelectricity**
14:30 - 15:00	*S. Ishihara* Electronic ferroelectricity in dimer-type organic crystals
15:00 - 15:25	*N. Kirova* Local phase transformations induced by optical pumping : applications to neutral-ionic transitions.
15:25 – 15:50	Coffee
15:50 – 18:30	**Posters I**

Saturday, August 16

9.00 –10:25	**Section XIV Chirality and high-Tc**
9:00-9:40	*A. Kapitulnik* Time reversal symmetry breaking in unconventional superconductors
9:40-10:05	*D. Popovic* Magnetic-field-driven superconductor-insulator transition in underdoped $La_{2-x}Sr_xCuO_4$
10:05-10:25	*H. Nobukane* Topological electromagnetic response in the chiral superconductors Sr_2RuO_4
10.25 –10.55	Coffee
10:55 –12:00	**Section XV Spins ordering and dynamics**
10:55-11:15	*B. Nafradi* Interplay of spin charge and rotor dynamics of $(EDT\text{-}TTF\text{-}CONH_2)_2BABCO$
11:15-11:35	*A. Ralko* Charge and spin competition of interacting electrons on the 1/3-filled Kagome
11:35 – 11:50	**Closing 1st week**
12.30 – 14.30	Lunch

Sunday, August 17

Excursion

2nd week

Monday, August 18, 2014

8:30 – 9:00	Registration
9.00 – 10:20	**Section XVI Cold atoms**
	T. Giamarchi Can cold atoms solve all problems of condensed matter?
10.20 – 10.50	Coffee
10:50 – 12:20	**Section XVII Superconductivity versus an electronic crystal II**
10:50 - 11:30	*M.Nunez-Regueiro* Quantum fluctuations and superconductivity in density waves systems
11.30 – 11.55	*I. Mukhametshin* Na order and Co charge disproportionation in Na_xCoO_2
11:55 - 12:20	*A. Buzdin* Revealing the FFLO phase by the in-plane critical field anisotropy in layered superconductors
12.30 - 14.30	Lunch
14:30 - 17:10	**Section XVIII Electronic solids at surfaces and interfaces**
14:30 - 15:20	*R. Claessen* Metal adatom structures on semiconductor surfaces: model systems for low-dimensional quantum matter
15:20 - 15:50	Coffee
15:50 - 16:30	*H.W.Yeom* Direct observation of solitons and chiral solitons
16:30 - 17:10	*C. Brun* Charge-density waves studied at the surface and at the local scale

Tuesday August 19, 2014

9.00 – 10:30	**Section XIX Orderings of electrons and ions**
9:00-9:40	*J.-P. Pouget* Interplay between structural and electronic properties in quarter-filled low dimensional organic conductors
9:40-10:10	*K. Nomura* Coexistance of charge order and antiferromagnetism in (TMTSF)2SbF6: NMR study
10.10 –10.30	Coffee
10:30 – 12:05	**Section XX Transformations of cooperative electronic states by optical impacts**
10:30-11:10	*D. Mikhailovic* Coherent trajectories through phase transitions in electronically ordered systems: topological defect dynamics and hidden states
11:10-11:35	*C. Laulhé* Study of femtosecond structural dynamics in the 2D charge density wave compound 1T-TaS_2
11:35-12:05	*S. Kaiser* Transient superconductivity in optically modulated $YBa_2Cu_3O_{6+X}$
12.30 – 14.30	Lunch
14:30-16:05	**Section XXI Charge ordering and CDWs**
14:30-15:00	*F. Kagawa* Charge-cluster glass in organic conductors with triangular lattice
15:00-15:20	*W. Kaddour* Coexistence of metallicity and charge density wave in the quasi-1D ORGANIC conductors TTF$[Ni(dmit)_2]_2$ and TTF$[Pd(dmit)_2]_2$
15:20–15:45	*D. Le Bolloch* The role of dimensionality in quasi 2D sliding charge density waves probed by coherent X-ray diffraction
15:45-16:05	*S. Chattopadhyay* Thermodynamic and neutron diffraction studies on multiferroic $NdMn_2O_5$.
16:05-16:25	Coffee
16:25-18:30	**Posters II**

Wednesday, August 20, 2014

9.00 – 10:20	**Section XXII Surface charges**
	P. Littlewood Screening of charge and structural motifs
10.20 – 10.50	Coffee
10:50 – 12:15	**Section XXIII Chirality in density waves**
10:40-11:50	*S. Tanda*
11:50-12:15	*V. Yakovenko* Possible spiral structure in the pseudogap phase of cuprates
12.30 – 14.30	Lunch
14:30-15:25	**Section XXIV Interplays of charges and spins**
14:30-15:00	*K. Kanoda* Charge-lattice-coupled quantum criticality and the decoupling in neutral-ionic transition
15:00-15:25	*S. Tomic* What is the origin of anomalous dielectric response in the spin liquid organic system kappa-(BEDT-TTF)$_2$Cu$_2$(CN)$_3$: an in-depth study of anisotropic charge dynamics
15:25-15:45	*K. Katono* Charge disproportionation in α–(BEDT-TTF)$_2$X
15:25– 15:50	Coffee
16:30	**Excursion**

Thursday, August 21, 2014

9.00 – 10:20	**Section XXV Competing local states in high-Tc**
	J. Tranquada Intertwined orders in high temperature superconductors
10.20 – 10:45	Coffee
10:45 - 12:25	**Section XXVI Optics and spectra.**
10:45-11:15	*S. Zaitsev-Zotov* Charge density waves physics revealed by photoconduction
11:15-11:45	*L. Degiorgi* Hysteretic behavior in the optical response of the underdoped Fe-arsenide $Ba(Fe_{1-x}Co_x)_2As_2$ in the electronic nematic phase
11:45-12:05	*C. Velebit* Imprints of nanostructured and Mott phase in optical phonons and continua of 1T-TaS2
12:05-12:25	*V. Ilakovac* Role of sulfur in BaVS3 probed by S K edge X-ray absorption spectroscopy
12.30 – 14.30	Lunch
14:30-17:05	**Section XXVII Charge density waves I**
14:30-14:50	*I. Gorlova* Magnetotransport and power-law i-v curves of the layered quasi one-dimensional compound TiS_3.
14:50-15:10	*T. Matsuura* Melted discommensuration of charge density waves
15:10-15:30	*P. Grigoriev* New scattering mechanism of electrons in the partial density wave state in magnetic field
15:30-15:50	*A. Rojo-Bravo* Transverse current reconstruction by dislocations of a junction for a mixed system of an incommensurate charge density wave and normal carriers
15:50-16:10	Coffee
16:10 - 17:15	**Section XXVIII Charge density waves II**
16:10-16:35	*A. Sinchenko* Anisotropy of conductivity in rare-earth tritellurides in the static and sliding states of the CDW
16:35-16:55	*V. Jacques* Charge and spin density wave observed through their spatial fluctuations by simultaneous and coherent X-ray diffraction
16:55-17:15	*V. Pokrovskii* Self-detection of mechanical oscillations of charge-density wave conductors
19:30	**Conference dinner**

Friday, August 22, 2014

9.00 –10:25	**Section XXIX Ions ordering in soft and bio matter.**
9:00-10:00	*J. Miller* Normal and impaired charge transport in the mitochondrial electron transport chain
10:00-10:25	*V. Shikin* Instability and periodic reconstruction of the charged vapor-liquid interface
10.25 –10.45	Coffee
10:45-12:20	**Section XXX Graphene and the family**
10:45-11:05	*D. Radic* Charge stripes due to pseudomagnetic fields in graphene sheets of CaC_6 intercalated compound
11:05-11:30	*S. Fratini* Wigner-Mott transition, frustration and glassyness in layered triangular lattices
11:30-12:20	*F. Carbone* Direct-space dynamical observation of charge and spin patterns with electron scattering techniques
12:20-12:30	**Closing**
12.30 – 14.30	Lunch

Posters I

V. Bisti	Edge states and edge magnetoplasmons in 2D systems with periodic boundary conditions
S. Brazovskii	Extracting criticality at the phase transition to the electronic ferroelectric from experiments in $TMTTF_2X$.
I. Chikina	On stability of the liquid dielectric-vapor interface in electric field
M. Denis-Brazovskaia	Diabolical points in the resonance spectra of vibrating smectic films
A. Edelman	A Functional Approach to Polariton Quantum Crystals
C. Février	Charge ordered state of $AgNiO_2$: an experimental realization of an orbital pinball liquid.
S. Kostenko	Temperature dependence of conductivity anisotropy can reveal the microscopic structure of density wave at imperfect nesting and distinguish soliton scenario from metallic Fermi-surface pockets
M. Hepting	Tuning of charge and spin order in $PrNiO_3$ thin films and superlattices
E. Huseynov	Infleunce of neutron flux, temperature and frequency to impedance of nano SiO_2
L. Kadyrov	Terahertz-infrarted spectroscopy of overdoped manganites $La_{1-x}Ca_xMnO_3$
T. Kanno	Chiral unitarity in 2H-$Fe_xTa_{1-x}Se_2$
N. Lebed	Possible nodeless triplet superconducting phase in the quasi-one-dimensional conductor $Li_{0.9}Mo_6O_{17}$
A. Löhle	Experimental setup for hall effect measurements under pressure on low-dimensional organic conductors
G. Matsuno	Excitonic mass generation in Dirac electron system in α-$(BEDT\text{-}TTF)_2I_3$
A. Pustogow	Bad metal to superconductor: optical studies on charge fluctuations in theta-$(BEDT\text{-}TTF)_2I_3$
L. Radzihovsky	A p-wave resonant superfluid: a spinor super-smectic
S. Radzihovsky	Island Emulsions in Freely Suspended Smectic Liquid Crystal Films
T. Terashige	Terahertz-field-induced optical switching in Mott insulators
F. Wrobel	MBE growth of nickelate-based heterostructures: from empirical growth to designing new materials

Posters II

T. Chameeva	Commensurability between FFLO modulation and Josephson vortex lattice
N. Charles	Rational Design of Electronic Function in Complex Metal Oxyfluorides Through Ligand Engineering.
Ch. Dietl	Delta-doped (La,Sr,Ba)2CuO4 grown by oxide molecular beam epitaxy
M. Denis-Brazovskaia	Diabolical points in the resonance spectra of vibrating smectic films
P. Foury-Leylekian	Recent X-ray Study of the Two-Chain Compound $Per_2[M(mnt)_2]$ (M=Ni, Pd, Pt)
T. Hosokawa	Hysteretic current switching phenomena in TaS3 ring crystals
V. Jacques	Coexistence of SDW and CDW in chromium
F. Kagawa	Polarization switching ability dependent on multidomain topology in a uniaxial organic ferroelectric
T. Minamidate	Negative hall state in the FISDW phase of (TMTSF)2REO4
V. Minakova	Photoconduction in Peierls conductor monoclinic TaS3
V. Nasretdinova	Indium doping induced change in the photoconduction spectra of o-TAS_3
Y. Oka	STM spectroscopy on deuterated kappa-(ET-d[3,3])2Cu[N(CN)2]Br
A. Pogrebna	The nonthermal destruction of SDW ordering in pnictides by ultrashort laser pulses
D. Radić	Spin-controlled mechanics in nanoelectromechanical systems
P. Sensier	Evidence for the coexistence of Dirac and massive carriers in α-$(BEDT\text{-}TTF)_2I_3$ under hydrostatic pressure.
E. Tafra	Temperature dependence of anisotropic resistivity and Hall coefficient of the spin-liquid candidate κ-$(BEDT\text{-}TTF)_2Cu_2(CN)_3$
S. Zybtsev	Strain-induced formation of ultra-coherent CDW in quasi one-dimensional conductors