

Lecture rooms			
	Room name		Room Code
Plenary	NADIR+ZENIT		N+Z
Parallels	NADIR		N
	ZENIT		Z
	TYCHO & KEPLER		TK
	LEO & VIRGO		LV
Posters	MERIDIAN		ME

SCES 2017 - Program

Sunday 16 July

16:00 - 20:00 Registration - Clarion Congress Hotel

18:00 - 20:00 Welcome party - Clarion Congress Hotel - Sponsored by Cryogenics

Monday 17 July

08:00 - Registration - Clarion Congress Hotel

Opening *Chair: V. Sechovský* room: ZN

08:30 - 08:45 Opening/SCES Prizes

Talk of Coqblin Prize Winner *Chair: J.C. Gomez Sal* room: ZN

08:45 - 09:15 2017 - 80th anniversary of the first observation of Ce volume collapse in CeN J.G. Sereni
CNEA Bariloche, AR

Plenary Session P1 *Chair: J.C. Gomez Sal* room: ZN

09:15 - 10:00 Low energy electrodynamics of correlated spin systems N. Peter Armitage
JHU Baltimore, USA

10:00 - 10:30 Coffee Break

10:30 - 12:30 **Parallel sessions**

SYMPOSIUM 1

S01: Magnetic Fragmentation in Frustrated Magnetic Systems		<i>Chair: P. Coleman</i>	room: TK
10:30 - 11:00	<u>Emergent electrostatics and magnetic moment fragmentation in spin ice materials</u>	Peter Holdsworth	Lyon, FR
11:00 - 11:30	<u>Observation of magnetic fragmentation in spin ice</u>	Sylvain Petit	Saclay, FR
11:30 - 11:45	<u>Kagome Ising physics realized in bulk magnets: the RE3Mg2Sb3O14 family</u>	Martin Mourigal	Atlanta, USA
11:45 - 12:00	<u>Fragmentation from magnetic charge injection in spin ice</u>	Elsa Lhotel	CNRS Grenoble, FR
12:00 - 12:15	<u>Fragmentation of magnetism in artificial kagome spin ice</u>	Nicolas Rougemaille	CNRS Grenoble, FR
12:15 - 12:30	<u>The quantum origins of moment fragmentation in Nd2Zr2O7</u>	Owen Benton	Okinawa, JP
S02: Unconventional Superconductivity – experimental		<i>Chair: T. Klimczuk</i>	room: N
10:30 - 11:00	<u>Directly Imaging Cooper-Pair Density Waves</u>	Mohammad Hamidian	UC Davis, USA
11:00 - 11:30	<u>Possible Nodeless Superconducting Gaps in Bi2Sr2CaCu2O8+δ and YBa2Cu3O7-x Revealed by Cross-Sectional STM</u>	Ya Jun Yan	Fudan, CHN
11:30 - 11:45	<u>Charge density wave and superconducting orders in CuxTiSe2</u>	Peter Samuely	Košice, SVK
11:45 - 12:00	<u>Evolution of superconductivity in (TMTSF)2ClO4 with increasing anion disorder</u>	Shingo Yonezawa	Kyoto, JPN
12:00 - 12:15	<u>Pressure induced superconductivity in quasi-one-dimensional NbTe4</u>	Zhu-An Xu	Zhejiang, CHN
12:15 - 12:30	<u>Low temperature transport and Fermi surface reconstruction in the electron-doped cuprate La2-xCexCuO4</u>	Richard L. Greene	Maryland, USA
S03: Kondo Insulators and Semi-metals		<i>Chair: S.I. Kimura</i>	room: LV
10:30 - 11:00	<u>Surface properties of SmB6 investigated by low-temperature STM</u>	Steffen Wirth	MPI-CPfS Dresden, DE
11:00 - 11:30	<u>Möbius Kondo Insulator</u>	Po-Yao Chang	Rutgers, USA
11:30 - 12:00	<u>CeSb: Evidence for Weyl fermions in a magnetic Kondo system</u>	Chunyu Guo	Zhejiang, CHN
12:00 - 12:15	<u>Roles of hybridization in the unusual antiferromagnetic order in Kondo semiconductors CeT2Al10 (T = Ru and Os)</u>	Toshiro Takabatake	Hiroshima, JPN
12:15 - 12:30	<u>Electrodynamic response of YbMnBi2: a type II Weyl semimetal candidate</u>	Anirban Pal	ETH Zurich, CH
S04: Critical Phenomena in Itinerant Electron Systems		<i>Chair: M.A. Continentino</i>	room: Z
10:30 - 11:00	<u>Phase transition in the helical itinerant magnet MnSi and Vollhardt “invariant”</u>	Alla Petrova	Troitsk, RU
11:00 - 11:30	<u>Quantum Critical Scaling in a Chemically Disordered Itinerant Ferromagnet: NiCoCr_x</u>	Brian C. Sales	ORNL, USA
11:30 - 11:45	<u>Unconventional Superconductivity of CrAs in the Vicinity of Masked Quantum Critical Point</u>	Hisashi Kotegawa	Kobe, JPN
11:45 - 12:00	<u>Evolution of low-energy excitations on the approach of a masked ferromagnetic quantum critical point in Nb1-yFe2+y</u>	Marijn Lucas	London, UK

12:00 - 12:15	<u>Hidden fluctuations close to a quantum bicritical point</u>	Corentin Morice	Cambridge, UK
12:15 - 12:30	<u>Quantum Monte Carlo study of magnetoresistance in a chiral soliton lattice</u>	Shun Okumura	Tokyo, JPN
12:30 - 14:00	LUNCH		
14:00 - 16:00	Parallel sessions		
<u>SYMPOSIUM 2</u>			
S05: Topological states, the case of SmB₆		<i>Chair: P. Riseborough & S. Wirth</i>	room: LV
14:00 - 14:30	<u>Chiral edge transport in topological Kondo insulator SmB₆</u>	Yasuyuki Nakajima	Florida U, USA
14:30 - 14:45	<u>Unconventional physics of conventional Kondo insulator</u>	Maxim Dzero	Kent, USA
14:45 - 15:00	<u>Breakdown of the Kondo Insulating State in SmB₆ by the Introduction of Sm vacancies</u>	Natalia Drichko	JHU, USA
15:00 - 15:30	<u>Anomalous 3D bulk AC conduction within the Kondo gap of SmB₆ single crystals</u>	Nicholas Laurita	JHU, USA
15:30 - 15:45	<u>Topological nature of the Kondo Insulator SmB₆ unraveled via planar tunneling spectroscopy studies</u>	Wan-Kyu Park	NHMFL Tallahassee, USA
15:45 - 16:00	<u>Imaging the Topological Surface States of SmB₆</u>	Harris Pirie	Harvard U, USA
S06: Heavy Fermion 115- and related compounds		<i>Chair: F. Ronning</i>	room: Z
14:00 - 14:30	<u>Intertwined Orders in CeCoIn₅</u>	Roman Movshovich	LANL, USA
14:30 - 15:00	<u>ARPES measurements of the electronic structure of the CeI-115 compounds</u>	Quiyun Chen	Mianyang, CHN
15:00 - 15:30	<u>Quantum criticality in Ir- and Nd-doped CeRhIn₅ as a function of pressure</u>	Priscila Rosa	LANL, USA
15:30 - 15:45	<u>Hidden Fermi liquid in CeCoIn₅: role of the effective mass</u>	Marc Scheffler	Stuttgart, GER
15:45 - 16:00	<u>dHvA measurements of CeCoIn₅ at ultra-low temperatures</u>	Minoru Yamashita	Osaka, JPN
<u>SYMPOSIUM 3</u>			
S07: ThALES - pushing the limits of cold neutron spectroscopy		<i>Chair: J. Kulda & P. Javorsky</i>	room: TK
14:00 - 14:30	<u>Spinon excitations in a triangular lattice quantum spin liquid YbMgGaO₄</u>	Jun Zhao	Fudan, CHN
14:30 - 14:45	<u>Field-induced quasiparticles driving the quantum phase transition in Ising-like antiferromagnetic spin chain</u>	Quentin Faure	Grenoble, FR
14:45 - 15:00	<u>Novel aspects of Kondo insulator physics in 1-2-10 Ce compounds: evidence from neutron scattering</u>	Jean-Michel Mignot	Saclay, FR
15:00 - 15:15	<u>Frustration and anisotropy in a ferromagnetic buckled kagome compound</u>	Evan Constable	Grenoble, FR
15:15 - 15:30	<u>Low-energy magnetic excitations in the layered ruthenates Sr₂RuO₄ and Ca₂RuO₄ studied by inelastic neutron scattering</u>	Markus Braden	Köln, DE
15:30 - 15:45	<u>Controlling electronic phase separation in hole-doped high-temperature superconductors</u>	Linda Udby	Copenhagen, DK

15:45 - 16:00	<u>On the nature of static and dynamic magnetic stripes in cuprate high-temperature superconductors</u>	Henrik Jacobsen	Copenhagen, DK
S08: Valence Fluctuations and Multipolar Ordering		<i>Chair: H.C. Walker</i>	room: N
14:00 - 14:30	<u>Dramatic change of photoexcited quasiparticle relaxation dynamics across Yb valence state transition in YbInCu4</u>	Nan-lin Wang	Peking, CHN
14:30 - 15:00	<u>Pressure-induced valence change and moderate heavy fermion state in Eu-compounds</u>	Fuminori Honda	Tohoku, JP
15:00 - 15:15	<u>Lattice dynamics and low temperature phonon anomalies in NpO2 and UO2: inelastic x-ray scattering results.</u>	Luigi Paolasini	ESRF Grenoble, FR
15:15 - 15:30	<u>Multipole ordering and collective excitations in the excitonic phase of Pr0.5Ca0.5CoO3</u>	Tomoki Yamaguchi	Chiba, JPN
15:30 - 15:45	<u>Incommensurate short-range multipolar order and spin fluctuations in Ce3Pd20Si6</u>	Dmytro Inosov	Dresden, GER
15:45 - 16:00	<u>Magnetoelastic hybrid excitations in non-centrosymmetric tetragonal CeTA13</u>	Petr Čermák	JCNS Jülich, GER
16:00 - 18:00	Posters (Mo) + Refreshment		room: ME
18:00 - 20:00	Ad-hoc discussions		

Tuesday 18 July

Plenary Session	P2 + P3	<i>Chair: D. van der Marel</i>	room: N+Z
08:30 - 9:15	<u>Topology and the Pseudo-Gap phase of Cuprates</u>	Catherine Pépin	Saclay, FR
09:15 - 09:17	Best Poster (Monday) Ceremony		
	Winner: Carsten Putzke: Small to Large Fermi Surface Transition in overdoped Ti2Ba2CuO6+δ		
9:15 - 10:00	<u>New generation RIXS: from cuprates to Kondo lattices</u>	Giacomo Ghiringhelli	U Milano, IT
10:00 - 10:30	Coffee Break		
10:30 - 12:30	Parallel sessions		
S09: New spectroscopies, theory and experiment on SCES		<i>Chair: A. Shick</i>	room: Z
10:30 - 11:00	<u>Electronic structures of uranium compounds studied by angle-resolved photoelectron spectroscopy</u>	Shin-ichi Fujimori	JAEA -Sayo, Japan
11:00 - 11:30	<u>High energy resolution X-ray spectroscopy studies of U intermetallics at the U M4,5 edges</u>	Kristina Kvashnina	ESRF, France

11:30 - 12:00	<u>Theory of resonant x-ray emission spectra in compounds with localized f electrons</u>	Jindrich Kolorenc	IoP ASCR Prague, CZ
12:00 - 12:15	<u>Signatures of inelastic tunnelling in a uranium-based heavy fermion unconventional superconductor</u>	Matthew Neat	Edinburgh, UK
12:15 - 12:30	<u>Magnetically driven Lifshitz transition in Sr₃(Ir_{1-x}Ru_x)₂O₇</u>	Soonjae Moon	Seoul, KOR
S10: Fe-based SC (nematic)		<i>Chair: X.-H. Chen</i>	room: N
10:30 - 11:00	<u>Identifying mechanisms of in-plane resistivity anisotropy in detwinned iron-based superconductors</u>	Makariy Tanatar	Ames NL, USA
11:00 - 11:30	<u>Nematic order and fluctuations in iron superconductors</u>	Jörg Schmalian	KIT Karlsruhe, DE
11:30 - 11:45	<u>Evidence for Slow Nematic Fluctuations in BaFe₂As₂ from Dynamic Elastoresistivity</u>	Gil Drachuck	Ames, USA
11:45 - 12:00	<u>Anisotropic Spin Fluctuations in the Nematic Phase of Uniaxially-Strained BaFe₂As₂</u>	Rajib Sarkar	Dresden, GER
12:00 - 12:15	<u>Lattice Effects on Nematic Quantum Criticality in Metals</u>	Indranil Paul	Paris, FR
12:15 - 12:30	<u>Orbital selective spin-nematic action for FeSe</u>	Belen Valenzuela	SISSA Trieste, ITA
S11: Superconductors – theory		<i>Chair: K. Miyake</i>	room: LV
10:30 - 11:00	<u>An organizing principle for two-dimensional strongly correlated superconductivity</u>	Giovanni Sordi	London, UK
11:00 - 11:30	<u>Bad metals, density waves and black holes</u>	Blaise Goutéraux	NORDITA, SE
11:30 - 11:45	<u>Hidden Fermionic Excitation Boosting High-Temperature Superconductivity in Cuprates</u>	Marcello Civelli	RIKEN, JPN
11:45 - 12:00	<u>Magnetic manipulation of topological states in p-wave superconductors</u>	Maria Teresa Mercaldo	Salerno, IT
12:00 - 12:15	<u>Pairing of renormalized eigenstates of disordered superconductors with strong correlations</u>	Amit Ghosal	Kolkata, IND
12:15 - 12:30	<u>Intrinsic Fermi surfaces in superconductors with broken time-reversal symmetry</u>	Philip Brydon	U Otago, NZ
S12: Quantum magnetism, Frustration, Spin liquid - theory		<i>Chair: S. Magalhães</i>	room: TK
10:30 - 11:00	<u>Disorder-induced quantum spin liquid in spin ice pyrochlores</u>	Lucile Savary	MIT, USA
11:00 - 11:30	<u>CORE results for the Kagome Antiferromagnet: Spin liquid with p₆ Chirality</u>	Assa Auerbach	Technion, IL
11:30 - 11:45	<u>Damped Topological Magnons in the Kagome-Lattice Ferromagnets</u>	Sasha Chernyshev	UC Irvine, USA
11:45 - 12:00	<u>Numerical study of the Kitaev-Heisenberg chain</u>	Cliò Efthimia Agrapdis	IFW Dresden, GER
12:00 - 12:15	<u>Spin liquid versus spin glass in the Heisenberg kagome antiferromagnet with weak bond disorder</u>	Mike Zhitomirsky	PHELIQS, Grenoble FRA
12:15 - 12:30	<u>Importance of virtual singlets in RVB theory of quantum spin liquids</u>	Arnaud Ralko	Néel Inst. Grenoble, FRA
12:30 - 14:00	LUNCH		
14:00 - 16:00	Parallel sessions		
SYMPOSIUM 4			

S13: Mysterious Hidden Order in URu₂Si₂ into its 4th Decade		<i>Chair: P. Oppeneer & J. Mydosh</i>	room: TK
14:00 - 14:30	<u>Raman spectroscopy of the Hidden Order and Kondo physics in URu₂Si₂</u>	Marie-Aude Méasson	Paris U, FR
14:30 - 15:00	<u>Chiral density wave with local hexadecapole order parameter as the hidden order in URu₂Si₂.</u>	Kristjan Haule	Rutgers, USA
15:00 - 15:30	<u>Electronic structure and collective modes of URu₂Si₂ as revealed by optical probes</u>	Dirk van der Marel	Geneve, CH
15:30 - 15:45	<u>Magnetic-field-induced spin-density wave in URu₂Si₂</u>	William Knafo	Toulouse, FR
15:45 - 16:00	<u>Experimental tests of broken tetragonal symmetry in Hidden Order of URu₂Si₂</u>	Hiroshi Amitsuka	Hokkaido, JP
S14: High-T_c Superconductors - experimental		<i>Chair: A. Avella</i>	room: Z
14:00 - 14:30	<u>Magnetic properties of the pseudo-gap state in cuprate superconductors</u>	Yvan Sidis	LLB, FR
14:30 - 15:00	<u>Change of carrier density at the pseudogap critical point of a cuprate superconductor</u>	Sven Badoux	Sherbrooke U, CAN
15:00 - 15:15	<u>Discovery of slow magnetic fluctuations and critical slowing down in the pseudogap phase of YBa₂Cu₃O_y</u>	Lei Shu	Fudan U, CHN
15:15 - 15:30	<u>Field-dependent superconducting anisotropy and Pauli paramagnetism in YBa₂Cu₃O₇ studied by time-of-flight small-angle neutron scattering from vortices in fields up to 25 T</u>	Ted Forgan	Birmingham U., UK
15:30 - 15:45	<u>Resilient superconductivity under strong magnetic fields in the underdoped cuprates</u>	Neil Harrison	Los Alamos NL, USA
15:45 - 16:00	<u>Tuning superconductivity in the high temperature cuprate superconductors</u>	Suchitra Sebastian	Cambridge U., UK
S15: New techniques		<i>Chair: L. Paolasini</i>	room: N
14:00 - 14:30	<u>Direct observation of crystal field excitations and symmetries in Ce Kondo lattices by resonant inelastic soft x-ray scattering</u>	Kurt Kummer	ESRF, FR
14:30 - 15:00	<u>Exciton condensation in 1T-TiSe₂ observed with momentum-resolved electron energy-loss spectroscopy</u>	Anshul Kogar	Illinois, USA
15:00 - 15:15	<u>Exploring correlated electron systems on the cold triple-axis spectrometer ThALES @ ILL</u>	Matin Boehm	ILL Grenoble, FR
15:15 - 15:30	<u>Neutrons Scattering in Extreme Conditions: Unique High Magnetic Field Facility for Neutron Scattering at Helmholtz-Zentrum Berlin</u>	Karel Prokes	Helmholtz, Berlin, GER
15:30 - 15:45	<u>Laser-induced topological superconductivity in cuprate thin films</u>	Kazuaki Takasan	Kyoto U., JPN
15:45 - 16:00	<u>Detection of a magnetic circular dichroic spectrum of an antiferromagnetic LaMnAsO with a transmission electron microscope</u>	Jan Ruzs	Uppsala U., SWE
SYMPOSIUM 5			
S16: Non-equilibrium manipulation of correlated artificial solids		<i>Chair: C. Giannetti & M. Capone</i>	room: LV
14:00 - 14:30	<u>Mott gap collapse in correlated insulators</u>	Michele Fabrizio	SISSA Trieste, IT
14:30 - 15:00	<u>Ultrafast dynamics and control in transition metal oxides</u>	Jingdi Zhang	UC San Diego, USA

15:00 - 15:30	<u>Resistive switching in Mott insulators</u>	Laurent Cario	Nantes, FR
15:30 - 16:00	Correlations in ultrathin films and heterostructures	Andrew Millis	Columbia U, USA
16:00 - 18:00	Posters (Tu) + Refreshment		room: ME
18:00 - 20:00	Ad-hoc discussions		

Wednesday 19 July

Plenary Session	P4 + P5	Chair: F. Zhang	room: N+Z
08:30 - 09:15	<u>Topological Superconductivity in doped topological insulators</u>	Yoichi Ando	Cologne, DE
09:15 - 09:17	Best Poster (Tuesday) Ceremony		
Winner: Fabio Boschini - <i>Collapse of hiht-Tc superconuctivity via ultrafast quenching of the phase coherence</i>			
9:17 - 10:02	<u>SCES in the Quantum Information era: new challenges, new paradigms.</u>	Piers Coleman	Rutgers U, USA
10:02 - 10:30	Coffee Break		
10:30 - 12:30	Parallel sessions		
<u>SYMPOSIUM 6</u>			
S17: Nematicity in bismuth and bismuth-based superconductors		<i>Chair: A. de Visser & K. Behnia</i>	room: TK
10:30 - 11:00	<u>Visualizing Landau Orbits and a Nematic Quantum Hall Liquid with the Scanning Tunneling Microscope</u>	Mallika Randeria	Princeton, USA
11:00 - 11:30	<u>Valleys and their nematicity in bulk bismuth</u>	Yuki Fuseya	Tokyo, JP
11:30 - 12:00	Theory of nematic superconductivity	Vladyslav Kozii	MIT, USA
12:00 - 12:15	<u>Rotational Symmetry Breaking in a Trigonal Superconductor Nb-doped Bi₃Se₃</u>	Lu Li	U. Michigan, USA
12:15 - 12:30	<u>Field-angular dependence of the specific heat of CuxBi₂Se₃</u>	Shingo Yonezawa	Kyoto, JP
S18: Quantum Phase Transitions and Related Phenomena		<i>Chair: Q. Si</i>	room: Z
10:30 - 11:00	<u>Incommensurate magnetism in heavy fermion systems</u>	Collin Broholm	JHU Baltimore, USA
11:00 - 11:30	<u>A study of topology and quantum phase transitions from Monte Carlo simulations</u>	Fakher Assaad	Würzburg, DE
11:30 - 12:00	<u>Candidate elastic quantum critical point in LaCu_{6-x}Aux</u>	Lekhanath Poudel	ORNL, USA
12:00 - 12:15	<u>Topological quantum phase transitions</u>	Mucio Continentino	CBPF Rio de Janeiro, BRZ
12:15 - 12:30	<u>Quantum oscillation study of the magnetically polarized Fermi surface of YbRh₂Si₂</u>	Stephen Julian	Toronto U., CAN

S19: Quantum magnetism, Frustration, Spin liquid - experimental		<i>Chair: M. Braden</i>	room: N
10:30 - 11:00	<u>Singnatures of Magnetic Frustration in CePdAl</u>	Veronika Fritsch	Augsburg, DE
11:00 - 11:30	<u>YbMgGaO4 : A perfect quantum spin liquid candidate</u>	Yuesheng Li	Renmin, CHN
11:30 - 11:45	<u>Quadrupole order and quantum spin liquid states in Tb_{2+x}Ti_{2-x}O_{7+y}</u>	Hiroshi Takatsu	Kyoto U., JPN
11:45 - 12:00	<u>Observation of a Field-induced Quantum Spin Liquid in α-RuCl₃</u>	Seung-Ho Baek	IFW Dresden, GER
12:00 - 12:15	<u>Majorana fermions in Kitaev quantum spin honeycomb lattice α-RuCl₃</u>	Sungdae Ji	MP-POSTECH, KOR
12:15 - 12:30	<u>Quantum spin liquid and quantum criticality in honeycomb iridates H₃LiIr₂O₆ : low temperature specific heat studies</u>	Yosuke Matsumoto	MPI Stuttgart, GER
S20: Multiferroics and Materials for Application		<i>Chair: R.S. Fishman</i>	room: LV
10:30 - 11:00	<u>Ferroelectricity, Multiferroism and Superconductivity</u>	Nicola Spaldin	ETH, CH
11:00 - 11:30	<u>Atomic Engineering of Ferroic Layers to Create a Room-Temperature Magnetoelectric Multiferroic</u>	Darrell Schlom	Cornell U, USA
11:30 - 12:00	<u>Simplicity vs. complexity in thermoelectric quantum materials: the cases of FeGa₃ and RT₂Zn₂₀</u>	Marcos Ávila	UFABC, BR
12:00 - 12:15	<u>Magnetic structure and spin wave excitations in the multiferroic magnetic metal organic framework (CD₃)₂N₂[Mn(DCO₂)₃]</u>	Helen Walker	ISIS, UK
12:15 - 12:30	<u>Giant spin-orbit torque and spin current generation in carriers at oxide interfaces</u>	Chenglong Jia	Lanzhou U. CHN
12:30 - 14:00	LUNCH		
14:00 - 16:00	Parallel sessions		
S21: Quantum Phase Transition and related Phenomena - Ferromagnetic		<i>Chair: M. Brando</i>	room: Z
14:00 - 14:30	<u>Enhancing and uniting low and high field superconductivity in URhGe with uniaxial stress</u>	Daniel Braithwaite	CEA Genoble, FR
14:30 - 15:00	<u>Ferromagnetic quantum criticality: new aspects from the phase diagram of LaCrGe₃</u>	Valentin Taufour	UC Davis, USA
15:00 - 15:30	<u>Quantum order-by-disorder in strongly-correlated metals</u>	Andrew G. Green	London, UK
15:30 - 15:45	<u>Field-induced reentrant superconductivity driven by quantum tricritical fluctuations in URhGe</u>	Yo Tokunaga	ASRC-JAEA, Tokai, JPN
15:45 - 16:00	<u>Missing magnetism in Sr₄Ru₃O₁₀: Indication for antisymmetric exchange interaction</u>	D. Franziska Weickert	NHMFL Florida, USA
S22: Topological insulators		<i>Chair: J. Honolka</i>	room: N
14:00 - 14:30	<u>Topological quantum chemistry</u>	Jennifer Cano	Princeton, USA
14:30 - 15:00	<u>Fermi surface topology and chirality in Weyl semimetals</u>	Elena Hassinger	MPI-CPFS Dresden, DE
15:00 - 15:15	<u>Extraordinary spin correlations and incipient excitonic instability of 2D Weyl fermions</u>	Michihiro Hirata	Tohoku U. Sendai, JPN

15:15 - 15:30	<u>Universal Faraday rotation in topological insulators</u>	Andrei Pimenov	TU Vienna, AUT
15:30 - 15:45	<u>Transport properties of Cu-doped bismuth selenide single crystals in high magnetic fields up to 60 Tesla: SdH oscillations, π-Berry phase</u>	Taisiia Romanova	Lebedev Inst. RAS Moscow, RUS
15:45 - 16:00	<u>Topological phase tuning by post-processing in gadolinium substituted topological insulator Bi₂Te₃</u>	Jinsu Kim	Sogang U., KOR
SYMPOSIUM 7			
S23: Kondo physics and 0-π transition in superconducting nano-devices		<i>Chair: V. Janis & T. Domanski</i>	room: LV
14:00 - 14:30	<u>Subgap states in hybrid single and double quantum dots based on nanowires</u>	Jesper Nygård	Copenhagen, DK
14:30 - 15:00	<u>The Anderson-Josephson quantum dot</u>	Volker Meden	RWTH Aachen, DE
15:00 - 15:15	<u>0-π quantum transition in a carbon nanotube Josephson junction: Universal phase dependence and orbital degeneracy</u>	Richard Deblock	Orsay, FR
15:15 - 15:30	<u>Quantum impurity models for magnetic adsorbates on superconductor surfaces</u>	Rok Žitko	Ljubljana, SL
15:30 - 15:45	<u>Orbital Picture of Yu-Shiba-Rusinov Multiplets</u>	Benjamin Heinrich	Berlin, DE
15:45 - 16:00	<u>Perturbation theory for a correlated quantum dot attached to superconducting leads</u>	Tomáš Novotný	Prague, CZ
SYMPOSIUM 8			
S24: Ultrafast dynamics of f-electron systems		<i>Chair: T. Durakiewicz</i>	room: TK
14:00 - 14:30	<u>Light controlled topological phase transitions in multi-orbital and frustrated magnetic systems</u>	Thomas Devereaux	Stanford, USA
14:30 - 14:45	<u>Ultrafast dynamics in rare earth based materials</u>	Uwe Bovensiepen	Duisburg, DE
14:45 - 15:00	<u>Elusive electronic and magnetic phases in correlated oxides: insights from infrared nano-optics</u>	Dmitri Basov	Columbia U, USA
15:00 - 15:15	<u>Kondo and exchange magnetic interactions in RERh₂Si₂ systems: Perspectives for the time-resolved studies. First results.</u>	Denis Vyalikh	DIPC Donostia, Spain
15:15 - 15:45	<u>Using ultrashort optical pulses to unravel the interplay between electronic and magnetic phenomena in heavy fermion and multiferroic materials</u>	Rohit Prasankumar	LANL, USA
15:45 - 16:00	<u>Quasi-particle dynamics in UNiGa₅ and PuCoGa₅</u>	Diyar Talbayev	Tulane U, USA
16:00 - 18:00	Posters (We) + Refreshment		room: ME
18:00 - 20:00	Ad-hoc discussions		
Thursday 20 July			
Plenary Session	P6 + P7	<i>Chair: D. Morr</i>	room: N+Z

08:30 - 9:15	<u>Finding New Electronic Materials</u>	Robert Cava	Princeton, USA
09:15 - 09:17	Best Poster (Wednesday) Ceremony		
	Winner: Yusuke Sugita - <i>Multiple Dirac cones and topological magnetism in honeycomb-monolayer transition metal trichalcogenides</i>		
09:17 - 10:02	<u>Charge-vortex duality for fermions: a new window into strong correlation problems</u>	Todadri Senthil	MIT, USA
10:02 - 10:30	Coffee Break		
10:30 - 12:30	Parallel sessions		
<u>SYMPOSIUM 9</u>			
S25: Quantum phase transitions in multipolar heavy fermion systems		<i>Chair: S. Paschen & S. Julian</i>	room: TK
10:30 - 11:00	<u>Composite nuclear and electronic order in antiferroquadrupolar PrOs₄Sb₁₂</u>	Alix McCollam	Nijmegen, NL
11:00 - 11:30	<u>Quadrupolar quantum criticality and heavy fermion superconductivity in PrT₂Al₂₀</u>	Satoru Nakatsuji	Tokyo, JP
11:30 - 12:00	<u>Global Phase diagram in antiferromagnetic and multipolar heavy fermion systems</u>	Qimiao Si	Rice U, USA
12:00 - 12:30	<u>Emergent symmetries and quantum phase transitions in quantum-dot-based many-body systems</u>	David Goldhaber-Gordon	Stanford, USA
S26: Actinide-based Superconductors		<i>Chair: D. Kaczorowski</i>	room: Z
10:30 - 11:00	<u>Superconducting gap symmetries and magnetic responses in the uranium heavy-fermion systems UBe₁₃ and UPd₂Al₃</u>	Yusei Shimizu	Tohoku, JP
11:00 - 11:30	<u>Unconventional superconductivity from local electronic correlations</u>	Shintaro Hoshino	RIKEN-CEMS, JP
11:30 - 12:00	<u>Multigap superconductivity in PuCoGa₅?</u>	Jean-Christophe Griveau	JRC Karlsruhe, DE
12:00 - 12:15	<u>Superconducting and ferromagnetic phase diagram of UCoGe probed by thermal expansion</u>	Anne de Visser	UvA Amsterdam, NL
12:15 - 12:30	<u>Interrelation between the "hidden order" and the antiferromagnetic phase in URu₂Si₂</u>	Girsh Blumberg	Rutgers U., USA
S27: Theory on Strongly Correlated Matter (bandstructure)		<i>Chair: J. Kolerenc</i>	room: LV
10:30 - 11:00	<u>Electron correlations in ab-initio calculations</u>	Yaroslav Kvashnin	Uppsala, SE
11:00 - 11:30	<u>Dzyaloshinskii-Moriya interaction and magnetic anisotropies in Uranium compounds</u>	Leonid Sandratskii	MPI Halle, DE
11:30 - 12:00	<u>Electronic Structure and Phase Stability of Correlated Materials under Extreme Conditions</u>	Ivan Leonov	Augsburg, DE
12:00 - 12:15	<u>LDA+DMFT approach to core-level spectroscopy; application to 3d transition-metal compounds</u>	Hariki Atsushi	TU Vienna, AUT
12:15 - 12:30	<u>Magnetic spectral response in alpha- and delta-plutonium</u>	Evgeny Clementyev	Kant Baltic U., RUS
S28: New materials, Thin films		<i>Chair: J. Ruz</i>	room: N
10:30 - 11:00	<u>Many-body effects in graphene</u>	Mikhail. I. Katsnelson	Nijmegen, NL
11:00 - 11:30	<u>Heterostructured Oxides</u>	Ivan Schuller	UC San Diego, USA

11:30 - 11:45	<u>Selective band shift and renormalization in correlated BaNiS₂ revealed by a combination of quantum oscillations and DMFT calculations</u>	Yannick Klein	Pierre&Marie Curie U. Paris, FRA
11:45 - 12:00	<u>Correlation effects on Majorana modes in CeCoIn₅/YbCoIn₅ superlattices</u>	Tsuneya Yoshida	Kyoto U. JPN
12:00 - 12:15	<u>CaBi₂ – a new type-I superconductor with the ZrSiS crystal structure</u>	Tomasz Klimczuk	Gdansk U., POL
12:15 - 12:30	<u>Interplay of magnetic order with short range electronic reconstruction at the NdMnO₃/SrMnO₃ interface</u>	Artur Glavic	PSI, CHE
12:30 - 14:00	LUNCH		
14:00 - 16:00	Parallel sessions		
S29: Mott Insulator Transition		<i>Chair: M. Abd-Elmeguid</i>	room: N
14:00 - 14:30	<u>Universality of pseudogap and emergent order in lightly doped Mott insulators</u>	Milan Allan	RU Leiden, NL
14:30 - 15:00	<u>Detection and manipulation of odd-parity hidden order in the pseudogap region</u>	Alberto de la Torre	CalTech, USA
15:00 - 15:15	<u>Novel magnetism and local symmetry breaking in a Mott insulator with strong spin orbit interactions</u>	Vesna Mitrovic	Brown U. Providence, USA
15:15 - 15:30	<u>Probing the metal-insulator transition of BaCo_{1-x}Ni_xS₂ by optical conductivity</u>	Santos-Cottin David	Pierre&Maire Curie U.Paris, FRA
15:30 - 15:45	<u>Structural investigations of epitaxial NdNiO₃ films on [001]pc and [111]pc-oriented NdGaO₃ across their metal-to-insulator transition</u>	Alexander Schober	LIST Luxembourg, LUX
15:45 - 16:00	<u>Hallmarks of Hund's coupling in the Mott insulator Ca₂RuO₄</u>	Denys Sutter	Zurich U., CHE
S30: Exotic phases of Matter		<i>Chair: P. Samuely</i>	room: Z
14:00 - 14:15	<u>Design of Majorana States in Correlated Topological Superconductors</u>	Dirk Morr	U. Illinois, Chicago, USA
14:15 - 14:30	<u>Exotic spin phases in the one-dimensional spin-1/2 quantum magnet LiCuSbO₄ as seen by high-field NMR spectroscopy</u>	Margarita Iakovleva	IFW Dresden, GER
14:30 - 15:00	<u>Spontaneous cluster multipoles by local parity mixing</u>	Satoru Hayami	Hokkaido, JP
15:00 - 15:30	<u>Hunting Weyl Fermions in microstructured topological semi-metals</u>	Philip J.W. Moll	MPI-CPFS Dresden, DE
15:30 - 15:45	<u>Exotic spin-liquid-like magnetic ground state in the novel kagomé antiferromagnet Li₂Cr₃SbO₈</u>	Hiroataka Okabe	KEK Tsukuba, JPN
15:45 - 16:00	<u>Unconventional superfluid helium-3 in confined-geometries</u>	Lev Levitin	London U., UK
SYMPOSIUM 10			
S31: Heading for new shores with YbRh₂Si₂: superconductivity, multicriticality, and new spectroscopy		<i>Chair: C. Geibel & J. Custers</i>	room: TK
14:00 - 14:30	<u>The resistive transition to superconductivity in YbRh₂Si₂</u>	John Saunders	RHU London, UK
14:30 - 15:00	<u>Electrical transport properties of YbRh₂Si₂ at ultralow temperatures</u>	Silke Paschen	TU Vienna, AT
15:00 - 15:30	<u>Transport spectroscopy of the field induced cascade of Lifshitz transitions in YbRh₂Si₂</u>	Alexandre Pourret	Grenoble, FR

15:30 - 16:00	<u>The Quantum Multicritical Point of YbRh₂Si₂</u>	Manuel Brando	MPI-CPfS Dresden, DE
<u>SYMPOSIUM 11</u>			
S32: Modern trends in multiferroics		<i>Chair: S. Kamba & F. Kadlec</i>	room: LV
14:00 - 14:30	<u>Magnon-phonon coupling in multiferroic systems</u>	Je-Geun Park	Seoul, KR
14:30 - 15:00	<u>The Microscopic Model for the Room Temperature Multiferroic BiFeO₃</u>	Randy Scott Fishman	Oak Ridge National Lab, USA
15:00 - 15:30	<u>Domain dynamics in multiferroics</u>	Manfred Fiebig	ETH Zürich, CH
15:30 - 15:45	<u>Magnetoelectric response from magnetic quadrupole order in square cupola antiferromagnets</u>	Kenta Kimura	Osaka U., JPN
15:45 - 16:00	<u>Electromagnon dispersion probed by inelastic x-ray scattering in LiCrO₂</u>	Sándor Tóth	PSI Villingen, CHE
16:00 - 18:00	Posters (Th) + Refreshment		room: ME
19:00 - 22:00	<u>Conference Dinner in Club Lavka</u>		

Friday 21 July

Plenary Session	P8	<i>Chair: U. Bovensiepen</i>	room: N+Z
09:15 - 10:00	<u>Current situation and future prospects of ultra-high-resolution laser-photoemission spectroscopy on materials science</u>	Shik Shin	Tokyo, JP
10:00 - 10:02	Best Poster (Thursday) Ceremony		
Winner: Koen Bastiaans - Universality of pseudogap and emergent order in lightly doped Mott insulators			
10:02 - 10:30	Coffee Break		
10:30 - 12:30	Parallel sessions		
S33: Lanthanide-based Superconductors		<i>Chair: J. Gómez-Sal</i>	room: Z
10:30 - 10:50	Review on CeCu ₂ Si ₂	Gertrud Zwicknagl	Braunschweig, DE
10:50 - 11:10	<u>Evidence for fully gapped d-wave superconductivity in CeCu₂Si₂</u>	Huiqiu Yuan	Zhejiang, CHN
11:10 - 11:30	<u>Recent results on CeCu₂Si₂</u>	Yoshifumi Tokiwa	Augsburg, DE
11:30 - 12:00	<u>Two-gap superconductivity in LaNiGa₂ and LaNiC₂ with non-unitary triplet pairing and even parity gap symmetry</u>	Michael Smidman	Zhejiang, CHN
12:00 - 12:30	<u>Heavy-Fermion Superconductivity in CeM₂Si₂ (M = Cu, Au, Ag) - Leading Role of Valence Fluctuations</u>	Gernot Werner Scheerer	Geneva, CH

S34: Fe-based pnictides		<i>Chair: M. Tanatar</i>	room: N
10:30 - 11:00	<u>Superconductivity in the 112-type iron-based arsenides</u>	Kazutaka Kudo	Okayama, JP
11:00 - 11:30	<u>Gating tuning of FeSe superconductors</u>	Xian-Hui Chen	Hefei NL, CHN
11:30 - 12:00	<u>Anomalous scaling in the field and temperature dependence of the resistance of unconventional superconductors</u>	Toni Helm	MPI-CPFS, DE
12:00 - 12:15	<u>Orbital selectivity and Hund's physics in Iron-based superconductors</u>	Laura Fanfarillo	SISSA Trieste, ITA
12:15 - 12:30	<u>To explore the unified picture for pairing mechanism in iron based superconductors</u>	Hai-Hu Wen	Nanjing U., CHN
S35: Actinide-based strongly correlated materials		<i>Chair: D. Braithwaite</i>	room: LV
10:30 - 10:45	<u>Uranium ferromagnet with negligible magnetocrystalline anisotropy – U₄Ru₇Ge₆</u>	Michal Vališka	Prague, CZ
10:45 - 11:00	<u>Magnetic phase diagram and electronic structure of UPt₂Si₂ at high magnetic fields: a possible field-induced Lifshitz transition</u>	Nico Steinki	TU Braunschweig, GER
11:00 - 11:30	<u>Pu- and Rcah-metals</u>	Alexander Lichtenstein	Hamburg U, DE
11:30 - 12:00	<u>Quantum criticality in uranium intermetallics</u>	Jan Prokleška	Prague, CZ
12:00 - 12:15	<u>Search for novel topological phases in actinide compounds</u>	Eric Bauer	Los Alamos NL, USA
12:15 - 12:30	<u>Determination of Magnetic Structure of Uncompensated Antiferromagnet UAu₂Si₂</u>	Chihiro Tabata	KEK Tsukuba, JPN
SYMPOSIUM 12			
S36: Novel electronic and magnetic phases in correlated relativistic oxides		<i>Chair: S. Khmelevski & C. Franchini</i>	room: TK
10:30 - 11:00	<u>Unconventional magnetic excitations in pyrochlore and honeycomb lattice iridates</u>	Bumjoon Kim	MPI-SSP Stuttgart, DE
11:00 - 11:30	<u>Spin-orbit coupling induced renormalization of electronic correlation in 5d-oxides</u>	Bongjae Kim	Vienna U, AT
11:30 - 12:00	<u>Exotic ground states of a multi-orbital Hubbard model with a strong spin-orbit coupling</u>	Seiji Yunoki	RIKEN, JP
12:00 - 12:30	<u>Kitaev model in iridates</u>	Philipp Gegenwart	Augsburg U, DE
12:30 - 14:00	LUNCH		
Closing		Chair: E. Bauer	room: N+Z
14:00 - 14:30	Resume: Experimental	Jacques Flouquet	Grenoble, FR
14:30 - 15:00	Resume: Theory	Jozef Spalek	JU Cracow, PL
15:00 - 15:15	ICM / SCES 2019 Announcement		
15:15	Closing words		