SCES 2022 Amsterdam

Monday 25 July

FORUM	**Welcome and opening**
08:30 - 08.45	Chair: Anne de Visser

FORUM	**Plenary session**
08:45 - 10.15	Chair: Alannah Hallas
MonPL:01 - 08:45	**Hae-Young Kee**
Plenary	*University of Toronto*
link to abstract.	Kitaev Materials
MonPL:02 - 09:30	**Nicola Spaldin**
Plenary	*ETH Zurich*
link to abstract.	Hidden magnetoelectric multipoles

COFFEE BREAK

FORUM	**Focus session: AdS/CFT correspondence for correlated electron systems**
10.45 - 12.30	Chair: Erik van Heumen
MonPA1:1.01 - 10:45	**Johanna Erdmegner**
Invited	*University of Würzburg*
link to abstract.	Turbulent hydrodynamics in strongly correlated Kagome metals
MonPA1:1.02 - 11:15	**Mark Golden**
Invited	*University of Amsterdam*
link to abstract.	Momentum dependent scaling exponents of cuprate strange-metal self energies: ARPES meets semi-holography
MonPA1:1.03 - 11:45	**Arata Tanaka**
Contributed	*Hiroshima University*
link to abstract.	Planckian metallic state in the two-dimensional Hubbard model
MonPA1:1.04 - 12:00	**Jan Zaanen**
Invited	*Leiden University*
link to abstract.	Quantum supreme matter: the strange metals according to holography.

ROOM: E107-108	Parallel session: Quantum magnetism (1): Kitaev spin liquid physics
10.45 - 12.30	Chair: Kwang-Yong Choi
MonPA1:2.01 - 10:45	**Natalia Perkins**
Invited	*University of Minnesota*
link to abstract.	Non-Loudon-Fleury Raman scattering in spin-orbit coupled Mott insulators
MonPA1:2.02 - 11:15	**Fazel Tafti**
Invited	*Boston College*
link to abstract.	Tuning competing interactions in Kitaev magnets via topochemical reactions
MonPA1:2.03 - 11:45	**Aprem Joy**
Contributed	*University of Cologne*
link to abstract.	Dynamics of Visons and Thermal Hall effect in Perturbed Kitaev Models
MonPA1:2.04 - 12:00	**Etienne Lefrancois**
Contributed	*University of Sherbrooke*
link to abstract.	Evidence of a Phonon Hall Effect in the Kitaev Spin Liquid Candidate a-RuCl3
MonPA1:2.05 - 12:15	**Kyusung Hwang**
Contributed	*Korea Institute for Advanced Study*
link to abstract.	Identification of a Kitaev Quantum Spin Liquid by Magnetic Field Angle Dependence

ROOM: E104-105	Parallel session: Strong correlations in Dirac and Weyl systems
10.45 - 12.30	Chair: Frank Kruger
MonPA1:3.01 - 10.45	**Young-Woo Son**
Invited	*Korea Institute for Advanced Study*
link to abstract.	Effects of Coulomb interactions in Dirac and Weyl semimetallic two-dimensional crystals
MonPA1:3.02 - 11.15	**Qimiao Si**
Invited	*Rice University*
link to abstract.	Weyl-Kondo semimetals and their symmetry-based design
MonPA1:3.03 - 11.45	**Mario Moda Piva**
Contributed	*Max Planck Institute for Chemical Physics of Solids, Dresden*
link to abstract.	Pressure-tuning the magnetic noncentrosymmetric Weyl semimetals CeAlSi and CeAlGe
MonPA1:3.04 - 12.00	**Siobhan Tobin**
Contributed	*University of Oxford*
link to abstract.	Spin dynamics and topological nature of the semimetal YbMnSb2
MonPA1:3.05 - 12.15	**Maarten van Delft**
Contributed	*Radboud University*
link to abstract.	Sondheimer oscillations as a probe of non-ohmic flow in WP2 crystals

ROOM: E103	Parallel session: Multiferroics and related materials
10.45 - 12.30	Chair: Kee Hoon Kim

MonPA1:4.01 - 10.45 **Sándor Bordács**
Invited *Budapest University of Technology and Economics*
link to abstract. Detection and manipulation of antiferromagnetic orders via the magnetoelectric effect

MonPA1:4.02 - 11.15 **Sergey Artyukhin**
Invited *Italian Institute of Technology*
link to abstract. Topologically protected unidirectional magntoelectric switching in a multiferroic

MonPA1:4.03 - 11.45 **Marine Verseils**
Contributed *Synchrotron SOLEIL*
link to abstract. Strength and temperature range enhancement of electromagnon in CuO under pressure

MonPA1:4.04 - 12.00 **Sanne Kristensen**
Contributed *High Field Magnet Laboratory, Radboud University*
link to abstract. Exploration of multiferroic quantum phase transition in TbMnO3

MonPA1:4.05 - 12.15 **Ryunosuke Takahashi**
Contributed *University of Hyogo, Graduate school of material science*
link to abstract. Optically-induced magnetization switching in NiCo2O4 thin films

12.30 - 13.30	LUNCH BREAK
13.30 - 15.15	POSTER SESSION
15.15 - 15.45	COFFEE BREAK

FORUM	Parallel session: Heavy Fermions (1)
15.45 - 17.45	Chair: William Knafo

MonPA2:1.01 - 15.45 **Jonathan Denlinger**
Invited *Lawrence Berkeley National Laboratory*
link to abstract. Temperature evolution of electronic structures of paradigm Ce 4f and U 5f materials

MonPA2:1.02 - 16.15 **Cristian Batista**
Invited *Oak Ridge National Laboratory*
link to abstract. A microscopic Kondo lattice model for the heavy fermion antiferromagnet CeIn3

MonPA2:1.03 - 16.45 **Marcin Raczkowski**
Contributed *University of Würzburg*
link to abstract. Zooming in on heavy fermions in Kondo lattice models

MonPA2:1.04 - 17.00 **Georg Poelchen**
Contributed *ESRF, Grenoble*
link to abstract. Surface interlayer coupling with a 2D Kondo lattice and bulk underdamped spin excitations in CeCo2P2

MonPA2:1.05 - 17.15 **Ernst Bauer**
Contributed *Vienna University of Techology*
link to abstract. Low temperature magnetic instabilites in the ternary Kondo lattice YbPt5B2

MonPA2:1.06 - 17.30 **Jeroen Custers**
Contributed *Charles University Prague*
link to abstract. Studying the Interplay of Magnetism and Superconductivity in the Heavy Fermion Compound Ce3PtIn11

ROOM: E107-108 15.45 - 17.45	**Parallel session: Quantum Magnetism (2): 2-D frustrated magnets** Chair: Toru Sakai
MonPA2:2.01 - 15.45 *Invited* link to abstract.	**Quentin Barthélemy** *University of Paris, University of Sherbrooke* Specific heat of the kagome antiferromagnet herbertsmithite in high magnetic fields
MonPA2:2.02 - 16.15 *Invited* link to abstract.	**Julio Larrea Jimenez** *University of São Paulo* Exotic critical points in a pure spin system SrCu2(BO3)2
MonPA2:2.03 - 16.45 *Contributed* link to abstract.	**Kamil Kolincio** *Gdansk University of Technology* Spin chirality induced by thermal fluctuations
MonPA2:2.04 - 17.00 *Contributed* link to abstract.	**Kirill Povarov** *ETH Zurich* Directly Probing S=1/2 Chain Spinon Backscattering with Electron Spin Resonance
MonPA2:2.05 - 17.15 *Contributed* link to abstract.	**Michel Kenzelmann** *Paul Scherrer Institute* Quantum fluctuations and tunable magnetic excitations in the two-dimensional honeycomb materials YbBr3 and ErBr3
MonPA2:2.06 - 17.30 *Contributed* link to abstract.	**Kotaro Shimizu** *The University of Tokyo* Phase degree of freedom and topological properties in multiple-Q spin textures

ROOM: E104-105 15.45 - 17.45	**Parallel session: Low dimensional materials and devices with strong correlations** Chair: Corentin Morice
MonPA2:3.01 - 15.45 *Invited* link to abstract.	**Chuan Li** *University of Twente* Axion electrodynamics induced e/4 fractional charge of a superconducting vortex spectroscopy
MonPA2:3.02 - 16.15 *Contributed* link to abstract.	**Mucio Amado Continentino** *Centro Brasileiro de Pesquisas Fisicas* Thermoelectric properties of topological chains coupled to a quantum dot
MonPA2:3.03 - 16.30 *Contributed* link to abstract.	**Hikaru Watanabe** *RIKEN Center for Emergent Matter Science* Magnetic photocurrent response assisted by quantum geometry in solid
MonPA2:3.04 - 16.45 *Invited* link to abstract.	**Marta Gibert** *Vienna University of Technology* Critical length scales at metal-insulator and magnetic oxide interfaces
MonPA2:3.05 - 17.15 *Contributed* link to abstract.	**Jasper van Wezel** *University of Amsterdam* Coexisting charge-ordered states with distinct driving mechanisms in monolayer VSe2
MonPA2:3.06 - 17.30 *Contributed* link to abstract.	**Steffen Wirth** *Max-Planck Institute for Chemical Physics of Solids Dresden* Scanning tunneling microscopy and spectroscopy on rare-earth hexaborides

E103	**Sponsored session: Technical Innovation**
18:00 – 19:30	Chair: Mark Golden
MonSP:00 – 18:00	Welcome and Introduction
MonSP:01 – 18:10	**Laura Folkers**
Invited	*STOE & Cie GmbH*
link to abstract.	X-ray diffraction as a useful tool to research strongly correlated electron systems
MonSP:02 – 18:30	**Hannes Kuehne**
Invited	*Helmholtz-Zentrum Dresden-Rossendorf*
link to abstract.	Two-axis rotator “Rotax”: Out of the lab – for the lab
MonSP:03 – 18:50	**Stefan Böttcher**
Invited	*SPECS Surface Nano Analysis GmbH*
link to abstract.	New Developments in Deflector Analyzer Technology for ARPES
MonSP:04 – 19:10	**Rik Groenen**
Invited	*DEMCON TSST BV*
link to abstract.	Customised system solutions for thin film research

Tuesday 26 July

FORUM	**Plenary session**
08:45 - 10.15	Chair: Priscila Rosa
TuesPL:01 - 08.45	**Vidya Madhavan**
Plenary	*University of Illinois Urbana Champaign*
link to abstract.	Edge states and Charge density wave orders in UTe2
TuesPL:02 - 09.30	**Youichi Yanase**
Plenary	*Kyoto University*
link to abstract.	Parity transition, parity violation, and topological superconductivity in UTe2 and CeRh2As2

COFFEE BREAK

FORUM	**Parallel session: Theoretical models for strong correlations (1)**
10.45 - 12.30	Chair: Nicola Spaldin
TuesPA1:1.01 – 10.45	**Yukitoshi Motome**
Invited	*University of Tokyo*
link to abstract.	Kitaev spin liquid materials as a Majorana platform
TuesPA1:1.02 - 11.15	**Roser Valenti**
Invited	*University of Frankfurt*
link to abstract.	Topological phases in kagome-based materials
TuesPA1:1.03 - 11.45	**Ryota Ono**
Contributed	*Italian Institute of Technology*
link to abstract.	Computing exchange anisotropy in a half-filled eg system from Wannier tight-binding model
TuesPA1:1.04 - 12.00	**Purevdorj Munkhbaatar**
Contributed	*Jeonbuk National University*
link to abstract.	Theory of infrared absorption and Raman spectroscopy for orbital wave
TuesPA1:1.05 - 12.15	**Ryuta Iwazaki**
Contributed	*Saitama University*
link to abstract.	Spin-orbital dynamics of localized electrons

ROOM: E107-108	**Parallel session: Unconventional superconductvity (1)**
10.45 - 12.30	Chair: André Strydom
TuesPA1:2.01 - 10.45	**Seunghyun Khim**
Contributed	*Max-Planck Institute for Chemical Physics of Solids*
link to abstract.	Muon spin relaxation (μSR) studies on the heavy-fermion superconductor CeRh2As2
TuesPA1:2.02 - 11.00	**Lev Levitin**
Contributed	*Royal Holloway University of London*
link to abstract.	Interplay of superconductivity and magnetism in YbRh2Si2
TuesPA1:2.03 - 11.15	**Dai Aoki**
Invited	*Tohoku University*
link to abstract.	Electronic states and superconductivity in UTe2
TuesPA1:2.04 - 11.45	**Jean-Pascal Brison**
Contributed	*Univ. Grenoble Alpes, CEA, IRIG-Pheliqs*
link to abstract.	Field-induced superconducting phases in UTe2

TuesPA1:2.05 – 12.00	**Atsushi Miyake**
Contributed	*University of Tokyo*
link to abstract.	First-order metamagnetic transition in UTe2 studied by magnetostriction measurements
TuesPA1:2.06 - 12.15	**Kenji Ishida**
Contributed	*Kyoto University*
link to abstract.	Spin-susceptibility behavior in Uranium-based Superconductor UTe2 investigated with Knight-shift measurements

ROOM: E104-105	**Parallel session: Quantum phase transitions and quantum critical points (1)**
10.45 - 12.30	Chair: Mucio Continentino
TuesPA1:3.01 - 10.45	**Matthew Coak**
Invited	*London Centre for Nanotechnology, University College London*
link to abstract.	Magnetotransport of pyrochlore spin ice Sm2Ir2O7 across the pressure-induced quantum-critical phase boundary
TuesPA1:3.02 - 11.15	**Kee Hoon Kim**
Contributed	*Seoul National University*
link to abstract.	Pressure-induced quantum critical point of a strong coupling charge density wave order in a 2H-Pd0.05TaSe2 superconductor
TuesPA1:3.03 - 11.30	**Cornelius Krellner**
Contributed	*Goethe University Frankfurt/Main*
link to abstract.	Isotopically pure YbRh2Si2 single crystals with 171Yb, 173Yb and 174Yb
TuesPA1:3.04 - 11.45	**Devashibhai Adroja**
Contributed	*Rutherford Appleton Laboratory*
link to abstract.	Quantum Critical Spin-Liquid in Geometrically Frustrated Kagome Lattice Investigated by Muon Spin Relaxation and Neutron Scattering
TuesPA1:3.05 - 12.00	**Stephen Julian**
Contributed	*University of Toronto*
link to abstract.	Peering past spin density wave order at quantum criticality in Sr3Ru2O7
TuesPA1:3.06 - 12.15	**Natalia Chepiga**
Contributed	*Delft University of Technology*
link to abstract.	From SU(2)_5 to SU(2)_3 Wess-Zumino-Witten transitions in a frustrated spin-5/2 chain

ROOM: E103	**Parallel session: Non-equilibrium phenomena in strongly correlated systems (1)**
10.45 - 12.30	Chair: Lea Santos
TuesPA1:4.01 - 10.45	**Maria Carolina de Oliveira Aguiar**
Invited	*Federal University of Minas Gerais*
link to abstract.	Quench dynamics and relaxation of a spin coupled to interacting leads
TuesPA1:4.02 - 11.15	**Jingwen Li**
Contributed	*ETH Zurich*
link to abstract.	Light-induced magnetization dynamics in a ferromagnetic semiconductor
TuesPA1:4.03 - 11.30	**Satoshi Ejima**
Contributed	*University of Greifswald*
link to abstract.	Photoinduced phase transitions in one-dimensional Mott insulators

TuesPA1:4.04 – 11.45	**Houda Koussir**
Contributed	*University of Lille*
link to abstract.	Volatile and non-volatile insulator-to-metal transition in narrow gap Mott insulator GaMo4S8
TuesPA1:4.05 - 12.00	**Kacper Wrześniewski**
Contributed	*Adam Mickiewicz University*
link to abstract.	Dynamical quantum phase transition in a mesoscopic superconducting system
TuesPA1:4.06 - 12.15	**Chia-Jung Yang**
Contributed	*ETH Zurich*
link to abstract.	Critical slowing down of fermionic quasiparticles in YbRh2Si2 by terahertz time-domain spectroscopy

12.30 - 13.30	**LUNCH BREAK**
13.30 - 15.15	**POSTER SESSION**
15.15 - 15.45	**COFFEE BREAK**

FORUM	**Parallel session: Metal-Insulator transitions in strongly correlated systems**
15.45 - 17.45	Chair: Malte Grosche
TuesPA2:1.01 - 15.45	**Kazushi Kanoda**
Invited	*University of Tokyo*
link to abstract.	Pressure-induced BEC-BCS crossover in a doped spin liquid candidate
TuesPA2:1.02 - 16.15	**Martin Dressel**
Contributed	*Universität Stuttgart*
link to abstract.	Electrodynamics at the Mott transition: the disappearance of Landau’s quasiparticles
TuesPA2:1.03 - 16.30	**Claude Ederer**
Contributed	*ETH Zurich*
link to abstract.	Charge disproportionation and “Hund's insulating” behavior in different transition metal oxides by DFT+DMFT
TuesPA2:1.04 - 16.45	**Tanusri Saha-Dasgupta**
Invited	*S. N. Bose National Centre*
link to abstract.	Nickelates: A Tale of Two Stories
TuesPA2:1.05 - 17.15	**Henrik Jacobsen**
Contributed	*University of Copenhagen*
link to abstract.	Magnetically induced metal-insulator transition in Pb2CaOsO6
TuesPA2:1.06 – 17.30	**Liu Hao Tjeng**
Contributed	*Max Planck Institute for Chemical Physics of Solids*
link to abstract.	Orbital imaging of the spin state transition in LaCoO3

ROOM: E107-108	**Focus Session: UTe_2**
15.45 - 17.45	Chair: Kenji Ishida

TuesPA2:2.01 - 15.45 **Priscila Rosa**
Invited *Los Alamos National Laboratory*
link to abstract. Single thermodynamic transition at 2 K in superconducting UTe2 single crystals

TuesPA2:2.02 - 16.15 **Katsuki Kinjo**
Contributed Kyoto University
link to abstract. NMR study of magnetic and superconducting properties on UTe2 under pressure

TuesPA2:2.03 – 16.30 **Georg Knebel**
Contributed CEA Grenoble
link to abstract. High pressure properties of UTe2

TuesPA2:2.04 - 16.45 **Stéphane Raymond**
Invited *CEA-Grenoble*
link to abstract. Magnetic excitation spectrum of the unconventional superconductor UTe2

TuesPA2:2.05 - 17.15 **Shanta Saha**
Contributed *University of Maryland*
link to abstract. Recent development in the spin-triplet superconductor UTe2

TuesPA2:2.06 - 17.30 **Riku Yamamoto**
Contributed *Los Alamos National Laboratory*
link to abstract. NMR studies of local magnetism in UTe2 under pressure

ROOM: E104-105	**Parallel session: Unconventional superconductivity (2)**
15.45 - 17.45	Chair: Sven Badoux

TuesPA2:2.01 - 15.45 **Jake Ayres**
Invited *University of Bristol*
link to abstract. Incoherent Transport and the Evolution of Power-Law Scaling of the Magnetoresistance in Cuprate Superconductors

TuesPA2:2.02 - 16.15 **Catherine Pepin**
Invited *IphT, CEA- Paris-Saclay*
link to abstract. Charge orders and strange metal in cuprate superconductors

TuesPA2:2.03 - 16.45 **Dalila Bounoua**
Contributed *Université Paris-Saclay, CNRS-CEA*
link to abstract. Hidden magnetic texture in the pseudogap phase of high-Tc YBa2Cu3O6.6

TuesPA2:2.04 - 17.00 **José Lorenzana**
Contributed *Istituto dei Sistemi Complessi, CNR*
link to abstract. Mimicking cuprates with silver and fluorine

TuesPA2:2.05 - 17.15 **Haoyu Hu**
Contributed *Rice University*
link to abstract. Unconventional and high-Tc superconductivity from Fermi surface fluctuations in strongly correlated metals

TuesPA2:2.06 - 17.30 **Caitlin Duffy**
Contributed *High Field Magnet Laboratory, Radboud University*
link to abstract. Current pulses, critical currents, and cuprates: a novel means of exploring the ground state

Wednesday 27 July

FORUM	**SCES 2022 Prize Ceremony**
08:45 – 09:00	Chair: Hisatomo Harima

FORUM	**Plenary session**
09:00 – 10:15	Chair: Qimiao Si
WedPL:01 - 09.00	**Bernard Coqblin Prize winner: Pascoal Pagliuso**
Prize winner	*IFGW-Unicamp*
link to abstract.	Electron Spin Resonance in SCES materials and the SCES 2020/21 conference: Two hard tasks in my career
WedPL:02 – 09.30	**Je-Geun Park**
Plenary	*Seoul National University*
link to abstract.	New materials platform for two-dimensional magnetism and strong correlation studies: van der Waals magnets

COFFEE BREAK

FORUM	**Parallel session: Materials design and advanced Materials**
10:45 - 12.30	Chair: Tanusri Saha-Dasgupta
WedPA1:1.01 - 10.45	**Bryan R. Coles prize winner: Alannah Hallas**
Prize winner	*University of British Columbia*
link to abstract.	Entropy engineering and tunable magnetic order in the spinel high entropy oxide
WedPA1:1.02 – 11.15	**Silke Buehler-Paschen**
Invited	*Technical University of Vienna*
link to abstract.	Weyl-Kondo semimetals: Ce3Bi4Pd3 and beyond
WedPA1:1.03 - 11.45	**Sarah Krebber**
Contributed	*Goethe University, Frankfurt*
link to abstract.	Search for new europium-based intermetallic 122 materials with non-trivial topological properties
WedPA1:1.04 - 12.00	**Matthew Cook**
Contributed	*Los Alamos National Laboratory*
link to abstract.	Single crystal optimization and electrical transport in antiferromagnetic semiconductor Eu5In2Sb6
WedPA1:1.05 - 12.15	**Samikshya Sahu**
Contributed	*University of British Columbia*
link to abstract.	Chemical tuning effects on the extreme magnetoresistance of Dirac nodal arc semimetals

ROOM: E107-108	Parallel session: Quantum phase transitions and quantum critical points (2)
10.45 - 12.30	Chair: Sven Friedemann

WedPA1:2.01 – 10.45 **Soohyeon Shin**
Contributed *Paul Scherrer Institute*
link to abstract. Field-induced quantum critical behavior in topological antiferromagnet CePtAl4Ge2

WedPA1:2.02 - 11.00 **Bryan Vlaar**
Contributed *Technical University of Vienna*
link to abstract. Pressure tuned quantum phase transition in Fe(Ga1−xGex)3

WedPA1:2.03 - 11.15 **Andreas Wendl**
Contributed *Technical University of Munich*
link to abstract. Mesoscale Quantum Phase Transitions in LiHoF4

WedPA1:2.04 - 11.30 **Shiyu Deng**
Contributed *University of Cambridge*
link to abstract. Dynamics of the critical phonon modes in quantum paraelectric SrTiO3

WedPA1:2.05 - 11.45 **Rebecca Flint**
Invited *Iowa State University*
link to abstract. Two channel Kondo physics in one dimension: algebraic hastatic order and remnants of quantum criticality

WedPA1:2.06 - 12.15 **Saheli Sarkar**
Contributed *Karlsruhe Institute of Technology*
link to abstract. Quantum criticality on a compressible lattice

ROOM: E104-105	Parallel session: Low dimensional materials with strong correlations
10.45 - 12.30	Chair: Jasper van Wezel

WedPA1:3:01 - 10.45 **Siddarth Saxena**
Invited *University of Cambridge*
link to abstract. Emergent Magnetic and Electronic Phases in Pressure-Tuned van der Waals Antiferromagnets

WedPA1:3:02 - 11.15 **Rüdiger Klingeler**
Contributed *Heidelberg University*
link to abstract. Uniaxial pressure effects, magnon excitations and the emerging anisotropic nature of short-range order in CrI3

WedPA1:3:03 - 11.30 **Björn Salzmann**
Contributed *University of Fribourg*
link to abstract. Spontaneous and strain induced metallic phase due to modified interlayer stacking in 1T-TaS2

WedPA1:3:04 - 11.45 **Jian Liu**
Invited *University of Tennessee*
link to abstract. Emergent phenomena in structurally engineered square-lattice iridates

WedPA1:3:05 - 12.15 **Rebecca Cervasio**
Contributed *Paris-Saclay University, Synchrotron SOLEIL*
link to abstract. Optical Properties of Superconducting Nd0.8Sr0.2NiO2 Nickelate

ROOM: E103	**Parallel session: Strong correlations in actinides**
10.45 - 12.30	Chair: Jeroen Custers
WedPA1:4:01 - 10.45	**Marie-aude Measson**
Invited	*Institut Néel, Grenoble*
link to abstract.	Kondo anisotropy in URu2Si2
WedPA1:4:02 - 11.15	**Peter Riseborough**
Contributed	*Temple University*
link to abstract.	Orbitally Selective Enhanced Spin-Orbit Coupling in Itinerant Actinides
WedPA1:4:03 - 11.30	**Edwin Herrera Vasco**
Contributed	*Universidad Autónoma de Madrid*
link to abstract.	Quantum-well states at the surface of the heavy fermion URu2Si2.
WedPA1:4:04 - 11.45	**Hisatomo Harima**
Contributed	*Kobe University*
link to abstract.	Hidden-orders of uranium compounds
WedPA1:4:05 - 12.00	**Andrea Marino**
Contributed	*Max Planck Institute for Chemical Physics of Solids*
link to abstract.	Crystal-field ground state wave function of UGa2 probed with Resonant & Non-resonant Inelastic X-ray Scattering
WedPA1:4:06 - 12.15	**Dávid Hovančík**
Contributed	*Charles University Prague*
link to abstract.	Alloying-driven transition between ferromagnetism and antiferromagnetism in UTGe compounds: UCo1−xIrxGe

12.30 - 13.30	LUNCH BREAK

FORUM	**Parallel session: Unconventional superconductivity (3)**
13.45 - 15.15	Chair: Hermann Suderow
WedPA2:1.01 - 13.45	**Nevill F. Mott prize winner: Aline Ramires**
Prize winner	*Paul Scherrer Institute*
link to abstract.	Unconventional properties of unconventional superconductors: the concept of superconducting fitness
WedPA2:1.02 - 14.15	**Yuan Cao**
Invited	*Harvard University*
link to abstract.	Superconductivity in Magic-angle Graphene Family
WedPA2:1.03 - 14.45	**Anushree Datta**
Contributed	*Instituto de Ciencia de Materiales de Madrid*
link to abstract.	Accuracy of moiré Wannier function models for twist bilayer graphene
WedPA2:1.04 - 15.00	**Koen Bastiaans**
Contributed	*Delft University of Technology*
link to abstract.	Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above Tc

ROOM: E107-108	Focus session: Orbital Kondo effect
13.45 - 15.15	Chair: Marie-aude Measson

WedPA2:2.01 - 13.45 **Yong-Baek Kim**
Invited *University of Toronto*
link to abstract. Non-Fermi liquids and quantum criticality in multipolar Kondo Systems

WedPA2:2.02 - 14.15 **Andriy Nevidomskyy**
Contributed *Rice University*
link to abstract. Quadrupolar Kondo Effect and Generalized Doniach Phase Diagram for Non-Kramers Ions: Praseodymium Heavy Fermion Materials

WedPA2:2.03 - 14.30 **Takahiro Onimaru**
Invited *Hiroshima University*
link to abstract. Two-channel Kondo problem in non-Kramers doublet systems

WedPA2:2.04 - 15.00 **Philipp Gegenwart**
Contributed *University of Augsburg*
link to abstract. Symmetrized quadrupolar expansivity as sensitive probe of the quadrupolar Kondo effect: diluted PrIr2Zn20

ROOM: E104-105	Non-equilibrium phenomena in strongly correlated systems (2)
13.45 - 15.15	Chair: Maria Carolina de Oliveira Aguiar

WedPA2:3.01 - 13.45 **Lea Santos**
Invited *Yeshiva University*
link to abstract. Equilibration time in many-body quantum systems

WedPA2:3.02 - 14.15 **Dirk Manske**
Contributed *Max Planck Institute for Solid State Research, Stuttgart*
link to abstract. Higgs spectroscopy of superconductors

WedPA2:3.03 - 14.30 **Hector Pablo Ojeda Collado**
Contributed *Sapienza University of Rome*
link to abstract. Emergent dynamical phases in periodically driven BCS systems

WedPA2:3.04 - 14.45 **Kristin Kliemt**
Contributed *Goethe University Frankfurt*
link to abstract. Exchange scaling of ultrafast angular momentum transfer in 4f antiferromagnets

WedPA2:3.05 - 15.00 **Girish Setlur**
Contributed *Indian Institute of Technology, Guwahati*
link to abstract. Non-chiral bosonization of strongly inhomogenous Luttinger liquids driven out of equilibrium

15.15 - 15.45 **COFFEE BREAK**

FORUM	**Parallel sessions: Theoretical models for strong correlations (2)**
15.45 - 17.45	Chair: Philippe Corboz
WedPA3:1.01 - 15.45	**Olivier Parcollet**
Invited	*Flatiron Institute, Université Paris-Saclay*
link to abstract.	Planckian Metal at a Doping-Induced Quantum Critical Point
WedPA3:1.02 - 16.15	**Vikram Tripathi**
Invited	*TIFR Mumbai*
link to abstract.	Quasiparticle metamorphosis in a doped random t-J model: a many-body localization perspective
WedPA3:1.03 - 16.45	**Piotr Wrzosek**
Contributed	*University of Warsaw*
link to abstract.	The fate of the spin polaron in the 1D t-J model
WedPA3:1.04 - 17.00	**Blaise Goutéraux**
Contributed	*Ecole Polytechnique*
link to abstract.	Charge transport in pinned, gapless charge density waves
WedPA3:1.05 - 17.15	**Caitlin Walsh**
Contributed	*Royal Holloway University of London*
link to abstract.	Information-theoretic measures of superconductivity in a two-dimensional doped Mott insulator
WedPA3:1.06 - 17.30	**Boris Ponsioen**
Contributed	*University of Amsterdam*
link to abstract.	Automatic differentiation applied to excitations with projected entangled-pair states

ROOM: E107-108	**Parallel session: CEF effects and multipolar ordering in SCES**
15.45 - 17.45	Chair: Stephen Julian
WedPA3:2:01 - 15.45	**Tatsuya Yanagisawa**
Invited	*Hokkaido University*
link to abstract.	Electric Quadrupolar Response in the Magnetic Phases of UNi4B
WedPA3:2:02 - 16.15	**Femke Bangma**
Invited	*High Field Magnet Laboratory, Radboud University*
link to abstract.	Hyperfine interactions and antiferroquadrupolar order: their role in PrOs4Sb12
WedPA3:2:03 - 16.45	**Dmytro Inosov**
Contributed	*Technical University of Dresden*
link to abstract.	Field-space anisotropy of magnetic phases and excitations in cubic Ce3+ compounds
WedPA3:2:04 - 17.00	**Yosuke Arai**
Contributed	*University of Tokyo*
link to abstract.	Multipole polaron in the devil's staircase of CeSb
WedPA3:2:05 - 17.15	**Leonid Pourovskii**
Contributed	*CNRS, Ecole Polytechnique*
link to abstract.	Hidden order, magnetic excitations and multipolar exchange striction in neptunium dioxide
WedPA3:2:06 - 17.30	**Sophie de Brion**
Contributed	*Institut Néel, Grenoble*
link to abstract.	From spin ices to quadrupolar ices: the enigmatic case of the magnetic pyrochlore Tb2Ti2O7

ROOM: E104-105	**Parallel session: Quantum Magnetism (3): Emergent magnetic quasiparticles**
15.45 - 17.45	Chair: Katia Pappas

WedPA3:3.01 - 15.45 **Hyeonsik Cheong**
Invited *Sogang University*
link to abstract. Optical Spectroscopy of 2-Dimensional van der Waals Antiferromagnets

WedPA3:3.02 - 16.15 **Haijing Zhang**
Contributed *Max Planck Institute for Chemical Physics of Solids*
link to abstract. Observation of the Rashba-driven anomalous Hall effect in an antiferromagnetic metal

WedPA3:3.03 - 16.30 **Johanna Jochum**
Contributed *Technical University of Munich*
link to abstract. Large topological Hall effect from fluctuating Skyrmion textures

WedPA3:3.04 - 16.45 **Paul Goddard**
Invited *University of Warwick*
link to abstract. Scattering from magnetic monopoles and antiferromagnetic domain manipulation in a frustrated pyrochlore iridate

WedPA3:3.05 - 17.15 **Flavien Museur**
Contributed *Université Grenoble Alpes - Institut Néel*
link to abstract. New fragmented state in pyrochlore ruthenate Ho2Ru2O7

WedPA3:3.06 - 17.30 **Evgenii Barts**
Contributed *University of Groningen*
link to abstract. Magnetic particles and strings in iron langasites

18.00 - 22.00 **CANAL CRUISE AND CONFERENCE DINNER**

Thursday 28 July

FORUM	**Plenary session**
08:45 - 10.15	Chair: Roser Valenti
ThuPL:01 - 08.45	**Amalia Coldea**
Plenary	*University of Oxford*
link to abstract.	Electronic, superconducting and quantum critical signatures of iron-chalcogenides tuned by chemical and hydrostatic pressures
ThuPL:02 - 09.30	**Harold Hwang**
Plenary	*Stanford University*
link to abstract.	Superconductivity in infinite-layer nickelates

COFFEE BREAK

FORUM	**Parallel session: Unconventional superconductivity (4)**
10.45 - 12.30	Chair: Antony Carrington
ThuPA1:1.01 - 10.45	**Audrey Grockowiak**
Invited	*Centro Nacional de Pesquisa em Energia e Materiais*
link to abstract.	Hot Hydride Superconductivity above 550 K
ThuPA1:1.02 – 11.15	**Victor Balédent**
Contributed	*Paris Saclay University*
link to abstract.	Pressure phase diagram of unidimensional iron based superconductor BaFeSe3
ThuPA1:1.03 – 11.30	**Konstantin Semeniuk**
Contributed	*Max Planck Institute for Chemical Physics of Solids, Dresden*
link to abstract.	Pressure tuning of the low-temperature states of CeRh2As2
ThuPA1:1.04 - 11.45	**Sven Badoux**
Contributed	*Radboud University*
link to abstract.	Interplay between CDW and superconductivity of underdoped YBa2Cu3O7-x
ThuPA1:1.05 - 12.00	**Kristine Krighaar**
Contributed	*University of Copenhagen*
link to abstract.	University of Evolution of magnetic stripes under uniaxial stress in La1.885Ba0.11CuO4 studied by neutron scattering
ThuPA1:1.06 - 12.15	**Suguru Nakata**
Contributed	*University of Hyogo*
link to abstract.	Normal-state charge transport of YBa2Cu3O6.67 under uniaxial stress

ROOM: E107-108	**Parallel session: Fermi surfaces and electronic structure (1)**
10.45 - 12.30	Chair: Ilya Sheikin
ThuPA1:2.01 - 10.45	**Bin Shen**
Invited	*Augsburg University*
link to abstract.	Fermi surface of heavy fermion ferromagnet CeRh6Ge4
ThuPA1:2.02 - 11.15	**Jiasheng Chen**
Invited	*University of Cambridge*
link to abstract.	Fermi surface and mass renormalization in the iron-based superconductor YFe2Ge2

ThuPA1:2.03 – 11.45	**Roos Leenen**
Contributed	*High Field Magnet Laboratory, Radboud University*
link to abstract.	The Fermi surface of the ferromagnetic superconductor UCoGe under external magnetic fields.
ThuPA1:2.04 - 12.00	**William Broad**
Contributed	*University of Bristol*
link to abstract.	Quantum oscillations in heavy-fermion ferromagnet YbNi4P2 over many Zeeman induced Lifshitz transitions
ThuPA1:2.05 - 12.15	**Gertrud Zwicknagl**
Contributed	*Technical University of Braunschweig*
link to abstract.	Heavy quasiparticles in CeRh2As2: Renormalized bands, Fermi surfaces, and electronic instabilities

ROOM: E104-105	**Parallel session: Non-Fermi liquids and novel metallic phases**
10.45 - 12.30	Chair: Catherine Pepin
ThuPA1:3:01 - 10.45	**Andrew Huxley**
Invited	*University of Edinburgh*
link to abstract.	Extended Non-Fermi-Liquid Phases
ThuPA1:3:02 - 11.15	**Frank Kruger**
Contributed	*University College London*
link to abstract.	Field control of fluctuation-driven modulated magnetism in the metallic ferromagnet PrPtAl
ThuPA1:3:03 - 11.30	**Gaël Grissonanche**
Invited	*Cornell University*
link to abstract.	T-linear resistivity from an isotropic Planckian scattering rate
ThuPA1:3:04 - 12.00	**Indranil Paul**
Contributed	*Université Paris Cité*
link to abstract.	Pseudogap Induced Electronic Anisotropy in Underdoped Cuprates
ThuPA1:3:05 - 12.15	**Yannick Klein**
Contributed	*Sorbonne University*
link to abstract.	Fermi to non-Fermi liquid crossover in intercalated VxVS2 with the NiAs-defect structure

ROOM: E103	**Parallel session: Correlated topological phases (1)**
10.45 - 12.30	Chair: Sarah Grefe
ThuPA1:4.01 - 10.45	**John Saunders**
Invited	*Royal Holloway University of London*
link to abstract.	Topological superfluid 3He under mesoscopic confinement: from quasi-2D chiral superfluid to pair density wave.
ThuPA1:4.02 - 11.15	**Jean Carlo Souza**
Contributed	*University of Campinas*
link to abstract.	Surface states evolution in half-Heusler systems Y(Pd,Pt)Bi
ThuPA1:4.03 - 11.30	**Gloria Platero**
Invited	*Materials Science Institute of Madrid*
link to abstract.	Simulation of chiral topological phases in driven quantum dot arrays

ThuPA1:4.04 - 12.00	**Hiroki Tsuchiura**
Contributed	*Tohoku University*
link to abstract.	Josephson effects between the Kitaev ladder superconductors
ThuPA1:4.05 - 12.15	**Paula Mellado**
Contributed	*Universidad Adolfo Ibáñez*
link to abstract.	Intrinsic topological magnons in arrays of magnetic dipoles

12.30 - 13.30	**LUNCH BREAK**
13.30 - 15.15	**POSTER SESSION**
15.15 - 15.45	**COFFEE BREAK**

FORUM	**Focus session: Novel phases in Fe-based systems**
15.45 - 17.45	Chair: Santiago Grigera
ThuPA2:1.01 - 15.45	**Pascal Reiss**
Invited	*Max Planck Institute for Solid State Research, Stuttgart*
link to abstract.	Unconventional transport properties in the high-pressure phase of $FeSe_{0.89}S_{0.11}$
ThuPA2:1.02 - 16.15	**Johanna Palmstrom**
Invited	*Los Alamos National Laboratory*
link to abstract.	Investigating a putative nematic quantum critical point using high magnetic field elastoresistivity measurements
ThuPA2:1.03 - 16.45	**Heike Pfau**
Invited	*Penn State University*
link to abstract.	Quasiparticle coherence in the nematic state of iron-based superconductors
ThuPA2:1.04 - 17.15	**Mads Fonager Hansen**
Contributed	*Université Grenoble-Alpes, Institut Néel*
link to abstract.	LaFeSiO1-δ: a novel superconducting member of the Fe silicide family
ThuPA2:1.05 - 17.30	**Jose P. Rodriguez**
Contributed	*California State University at Los Angeles*
link to abstract.	Quantum Monte Carlo Simulations of Iron-Selenide Superconductors with No Sign Problem

ROOM: E107-108	**Parallel session: Kondo effect and valence fluctuations**
15.45 - 17.45	Chair: Gertrud Zwicknagl
ThuPA2:2.01 - 15.45	**Andrea Severing**
Invited	*University of Cologne*
link to abstract.	RIXS characterization of the giant crystal field in CeRh3B2
ThuPA2:2.02 - 16.15	**Nikola Maksimovic**
Invited	*UC Berkeley*
link to abstract.	Evidence for a delocalization transition without symmetry breaking in CeCoIn5
ThuPA2:2.03 - 16.45	**David Tam**
Contributed	*Paul Scherrer Institute*
link to abstract.	Study of multi-f electron Kondo effect and magnetic ordering in SmCoIn5
ThuPA2:2.04 - 17.00	**Monika Güttler**
Contributed	*Technical University of Dresden*
link to abstract.	Visualization of the Kondo lattice crossover with temperature in YbRh2Si2 with high-resolution Compton scattering

ThuPA2:2.05 - 17.15	**Atsushi Hariki**
Contributed	*Osaka Prefecture University*
link to abstract.	CaCu3Ru4O12: A High Kondo-Temperature Transition Metal Oxide
ThuPA2:2.06 - 17.30	**Tamaghna Hazra**
Contributed	*Rutgers University*
link to abstract.	Triplet pairing mechanisms from Hund's-Kondo models: applications to heavy fermion superconductors

ROOM: E104-105	**Parallel session: Unconventional Superconductivity (5)**
15.45 - 17.45	Chair: Kim Lefmann
ThuPA2:3:01 - 15.45	**Eduardo Marino**
Invited	*Federal University of Rio de Janeiro*
link to abstract.	A Testable Theory for High-Tc Superconductivity in Cuprates
ThuPA2:3:02 - 16.15	**Cliò Efthimia Agrapidis**
Contributed	*University of Warsaw*
link to abstract.	Unravelling the Nature of Spin Excitations Disentangled from Charge Contributions in a Doped Cuprate Superconductor
ThuPA2:3:03 - 16.30	**Hannes Kuehne**
Contributed	*Hochfeld-Magnetlabor Dresden, Helmholtz-Zentrum Dresden-Rossendorf*
link to abstract.	Order-parameter evolution in the Fulde-Ferrell-Larkin-Ovchinnikov phase probed by 13C NMR spectroscopy
ThuPA2:3:04 - 16.45	**Puhua Wan**
Contributed	*University of Groningen*
link to abstract.	Orbital FFLO State in a Layer-Coupled Ising Superconductor
ThuPA2:3:05 - 17.00	**Javier Landaeta**
Contributed	*Max Planck Institute for Chemical Physics of Solids, Dresden*
link to abstract	Field-angle dependence reveals odd-parity superconductivity in CeRh2As2
ThuPA2:3:06 - 17.15	**Maria Teresa Mercaldo**
Contributed	*Università di Salerno*
link to abstract.	Orbital effects in spin-singlet superconductors: pi-pairing, Edelstein effect, and orbital vortex phase
ThuPA2:3:07 - 17.30	**Akito Daido**
Contributed	*Kyoto University*
link to abstract.	Theory of intrinsic superconducting diode effect

Friday 29 July

FORUM	**Plenary session**
08.45 - 10.15	Chair: Silke Buehler-Paschen
FriPL:01 – 08:45	**Cristiane de Morais Smith**
Plenary	*Utrecht University*
link to abstract	Topological properties at fractal dimensions
FriPL:02 - 09.30	**Peter Liljeroth**
Plenary	*Aalto University*
link to abstract.	Designer quantum states in van der Waals heterostructures

COFFEE BREAK

FORUM	**Parallel session: Heavy fermions (2)**
10.45 - 12.30	Chair: Ernst Bauer
FriPA1:1.01 - 10.45	**Jonathan Denlinger**
Invited	*Lawrence Berkeley National Laboratory*
link to abstract.	Anisotropic c-f hybridization in CeRh6Ge4 and CeCu2S 2
FriPA1:1.02 - 11.15	**Oliver Squire**
Contributed	*University of Cambridge*
link to abstract.	Quantum critical point in the high-pressure structure of CeSb2
FriPA1:1.03 - 11.30	**Jan Knapp**
Contributed	*Royal Holloway University of London*
link to abstract.	Electro-nuclear transition in YbRh2Si2; evidence for a spin density wave
FriPA1:1.04 - 11.45	**Manuel Brando**
Invited	*Max Planck Institute for Chemical Physics of Solids, Dresden*
link to abstract.	The multi-phase heavy-fermion superconductor CeRh2As2
FriPA1:1.05 - 12.15	**Kosuke Nogaki**
Contributed	*Kyoto University*
link to abstract.	Novel parity transition in strongly correlated superconductor: relation to CeRh2As2

ROOM: E107-108	**Parallel session: Fermi surfaces and electronic structure (2)**
10.45 - 12.30	Chair: Andreas Rost
FriPA1:2.01 - 10.45	**Antony Carrington**
Invited	*University of Bristol*
link to abstract.	Hall effect in overdoped cuprates and its link to Fermi surface reconstruction
FriPA1:2.02 - 11.15	**Roemer Hinlopen**
Contributed	*University of Bristol*
link to abstract.	Cascade of Fermi surface reconstructions linked to superconductivity inside the CDW phase of TiSe2
FriPA1:2.03 - 11.30	**Andrew Hunter**
Contributed	*University of Geneva*
link to abstract.	Laser ARPES measurements of Sr2RuO4 under uniaxial strain
FriPA1:2.04 - 11.45	**Mario Cuoco**
Contributed	*CNR-SPIN Salerno*
link to abstract.	Orbital loop current phase at the surface of Sr2RuO4

FriPA1:2.05 - 12.00	**Mingu Kang**
Contributed	*Massachusetts Institute of Technology*
link to abstract.	Twofold van Hove singularity and origin of charge order in topological kagome superconductors CsV3Sb5
FriPA1:2.06 - 12.15	**Andre Deyerling**
Contributed	*Technical University Munich*
link to abstract.	Electronic structure of CeTAl3 (T=Ag, Au, Cu, Pd, Pt) studied with density functional theory

ROOM: E104-105	**Parallel session: Correlated topological phases (2)**
10.45 - 12.30	Chair: Maarten van Delft
FriPA1:3:01 - 10.45	**Debmalya Chakraborty**
Contributed	*Uppsala University*
link to abstract.	Disorder-robust phase crystal in high-temperature superconductors from topology and strong correlations
FriPA1:3:02 - 11.00	**Marein Rahn**
Contributed	*Technical University of Dresden*
link to abstract.	Topology, colossal magnetoresistance, and complex magnetic domains in Eu5In2Sb6
FriPA1:3:03 - 11.15	**Sarah Grefe**
Invited	*Los Alamos National Laboratory*
link to abstract.	The Weyl-Kondo semimetal: high-harmonic generation and extreme topological tunability
FriPA1:3:04 - 11.45	**Diana Kirschbaum**
Contributed	*Vienna University of Technology*
link to abstract.	Physical properties of Ce3Bi4X3 beyond the X = Pt, Pd case: First study of Ce3Bi4Ni3
FriPA1:3:05 - 12.00	**Diego Zocco**
Contributed	*Vienna University of Technology*
link to abstract.	Effects of hydrostatic pressure on the Weyl-Kondo semimetal candidate CeRu4Sn6
FriPA1:3:06 - 12.15	**Elena Gati**
Contributed	*Max-Planck-Institute for Chemical Physics of Solids, Dresden*
link to abstract.	Pressure-induced ferromagnetism in the topological semimetal EuCd2As2

ROOM: E103	**Parallel session: Novel techniques for SCES investigations**
10.45 - 12.30	Chair: Doohee Cho
FriPA1:4.01 - 10.45	**Petr Čermák**
Invited	*Charles Universty Prague*
link to abstract.	ALSA – Automatic Laue Sample Aligner
FriPA1:4.02 - 11.15	**Santiago Grigera**
Invited	*Universidad Nacional de La Plata*
link to abstract.	Integrating Machine Learning with Neutron Scattering
FriPA1:4.03 - 11.45	**Isabel Guillamon**
Invited	*Universidad Autónoma de Madrid*
link to abstract.	STM at magnetic fields of 20 T: quasiparticle interference and vortex lattices of pnictide superconductors
FriPA1:4.04 - 12.15	**Maximilian Pelly**
Contributed	*University of St Andrews*
link to abstract.	Quantum oscillations and magnetostriction in Sr3Ru2O7 studied by a novel capacitive dilatometer

12.30 - 13.30	LUNCH BREAK

FORUM	Conference highlights
13.30 - 14.00	Chair: Alix McCollam
13:30	**Rebecca Flint** *Iowa State University* Theory Highlights
13:45	**Stephen Julian** *University of Toronto* Experiment Highlights

FORUM	Closing and announcements
14.00 - 14.30	Chair: Anne de Visser