

Low Temperature Physics Division Fachverband Tiefe Temperaturen (TT)

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Overview of Invited Talks and Sessions

(lecture rooms H 0104, H 2053, H 3005, H 3010, BH 243 and BH 334 ; Poster Area B)

Invited Talks

(except focused sessions, see below for the focused session program)

TT 14.1	Mon	16:45–17:15	H 3005	Multiferroicity in an organic charge-transfer salt: Electric-dipole-driven magnetism — ●PETER LUNKENHEIMER
TT 17.10	Tue	12:00–12:30	H 2053	Magnetism and Superconductivity: A new era of convergence in condensed matter physics — ●PIERS COLEMAN
TT 19.8	Tue	11:30–12:00	H 3010	Interactions and disorder in topological quantum matter — ●SIMON TREBST
TT 20.1	Tue	9:30–10:00	BH 243	Making and manipulating Majorana fermions for topological quantum computation — ●FELIX VON OPPEN
TT 30.1	Wed	15:00–15:30	H 3005	Bose-Einstein condensation of Photons — ●MARTIN WEITZ
TT 20.5	Tue	11:00–11:30	BH 243	Distinguishing quantum and classical transport through nanostructures — ●CLIVE EMARY
TT 29.7	Wed	16:45–17:15	H 2053	Novel Josephson effect in triplet Josephson junctions: the story begins — ●DIRK MANSKE
TT 30.8	Wed	17:15–17:45	H 3005	Topological superfluids confined in a regular nano-scale slab geometry — ●JOHN SAUNDERS
TT 38.8	Thu	11:30–12:00	H 3010	Emergent electrodynamics of skyrmions in chiral magnets — ●CHRISTIAN PFLEIDERER

Invited and Topical Talks in the Focused Session “Resonant Inelastic X-ray Scattering on Magnetic Excitations”

TT 7.1	Mon	15:00–15:40	H 0104	RIXS Studies of Strongly Correlated Electron Systems — ●JOHN HILL
TT 7.2	Mon	15:40–16:20	H 0104	RIXS in the soft X-ray range: applications and perspectives — ●LUCIO BRAICOVICH
TT 7.3	Mon	16:40–17:20	H 0104	The theory of resonant inelastic x-ray scattering on valence excitations — ●MICHEL VAN VEENENDAAL
TT 7.4	Mon	17:20–18:00	H 0104	Excitons as a probe for low-energy spin fluctuations in cuprate chains — ●JOCHEN GECK
TT 7.5	Mon	18:00–18:40	H 0104	Fractionalization of electronic degrees of freedom in low-dimensional cuprates — ●JUSTINE SCHLAPPA

Invited and Topical Talks in the Focused Session “Charge and Spin Transport through Junctions at the Nanometre Scale”

TT 35.1	Thu	9:30–10:10	H 0104	The information is the noise: shot noise a tool for investigating atomic and molecular nanowires — ●JAN VAN RUITENBEEK
TT 35.2	Thu	10:10–10:50	H 0104	Electronic transport and magnetism in one-atom contacts — ●CARLOS UNTIEDT

TT 35.3	Thu	10:50–11:30	H 0104	Metallic atomic-size contacts: The role of absorbed noble gas atoms and anisotropic magnetoresistance — ●JUAN CARLOS CUEVAS
TT 35.4	Thu	11:40–12:20	H 0104	Spin transport through organic molecules — ●WULF WULFHEKEL
TT 35.5	Thu	12:20–13:00	H 0104	Spin-current manipulation of atomic-scale magnets using SP-STM — ●STEFAN KRAUSE

Invited and Topical Talks in the Focused Session “Cryogenic Detectors”

TT 41.1	Thu	15:00–15:30	H 2053	Performance and Understanding of Transition-Edge Sensor Microcalorimeters — ●SIMON BANDLER
TT 41.2	Thu	15:30–16:00	H 2053	Kinetic Inductance Detectors — ●JOCHEM BASELMANS
TT 41.3	Thu	16:15–16:40	H 2053	Magnetic calorimeters for x-ray and particle detection — ●ANDREAS FLEISCHMANN
TT 41.4	Thu	16:40–17:05	H 2053	Readout of TESs and MCCs with SQUID current sensors — ●JÖRN BEYER
TT 41.5	Thu	17:05–17:30	H 2053	Direct Dark Matter Search with the CRESST II Detector — ●JEAN-CÔME LANFRANCHI

Invited talks of the joint symposium SYTI

See SYTI for the full program of the symposium.

SYTI 1.1	Tue	9:30–10:00	H 0105	Search for Majorana fermions in topological insulators — ●CARLO BEENAKKER
SYTI 1.2	Tue	10:00–10:30	H 0105	Cooper Pairs in Topological Insulator Bi_2Se_3 Thin Films Induced by Proximity Effect — ●JINFENG JIA
SYTI 1.3	Tue	10:30–11:00	H 0105	Gate tunable normal and superconducting transport through a 3D topological insulator — ●ALBERTO MORPURGO
SYTI 1.4	Tue	11:00–11:30	H 0105	Weyl Metal States and Surface Fermi Arcs in Iridates — ●SERGEY SAVRASOV
SYTI 1.5	Tue	11:30–12:00	H 0105	Engineering a Room-Temperature Quantum Spin Hall State in Graphene via Adatom Deposition — ●MARCEL FRANZ

Invited talks of the joint symposium SYNM

See SYNM for the full program of the symposium.

SYNM 1.1	Wed	15:00–15:30	H 0105	Mechanical resonators in the quantum regime — ●ANDREW N. CLELAND
SYNM 1.2	Wed	15:30–16:00	H 0105	Quantum optomechanics: exploring the interface between quantum physics and gravity — ●MARKUS ASPELMEYER
SYNM 1.3	Wed	16:00–16:30	H 0105	Integrated transduction and coherent control of high Q nanomechanical systems using dielectric gradient forces — ●EVA M. WEIG
SYNM 1.4	Wed	16:30–17:00	H 0105	Cavity optomechanics with microwave photons — ●JOHN TEUFEL
SYNM 1.5	Wed	17:00–17:30	H 0105	Optomechanical crystals — ●OSKAR PAINTER

Sessions

TT 1.1–1.14	Mon	9:30–13:15	H 0104	Correlated Electrons: Low-dimensional Systems - Models 1
TT 2.1–2.13	Mon	9:30–13:00	H 2053	Superconductivity: Fe-based Superconductors - 1111, LiFeAs & As-free Pnictides
TT 3.1–3.14	Mon	9:30–13:15	H 3005	Correlated Electrons: Heavy Fermions
TT 4.1–4.13	Mon	9:30–13:00	H 3010	Transport: Topological Insulators 1 (jointly with HL and MA)
TT 5.1–5.12	Mon	9:30–12:45	BH 243	Transport: Quantum Coherence and Quantum Information Systems 1 (jointly with MA and HL)
TT 6.1–6.13	Mon	9:30–13:00	BH 334	Transport: Nanoelectronics I - Quantum Dots, Wires, Point Contacts 1

TT 7.1–7.5	Mon	15:00–18:40	H 0104	Focused Session: Resonant Inelastic X-ray Scattering on Magnetic Excitations
TT 8.1–8.13	Mon	15:00–18:30	H 2053	Superconductivity: Fe-based Superconductors - 122 Part 1
TT 9.1–9.6	Mon	15:00–16:30	H 3005	Transport: Topological Insulators 2 (jointly with HL and MA)
TT 10.1–10.12	Mon	15:00–18:15	H 3010	Correlated Electrons: (General) Theory 1
TT 11.1–11.9	Mon	15:00–17:30	BH 243	Transport: Quantum Coherence and Quantum Information Systems 2 (jointly with MA and HL)
TT 12.1–12.6	Mon	15:00–16:30	BH 334	Transport: Nanoelectronics I - Quantum Dots, Wires, Point Contacts 2
TT 13.1–13.54	Mon	15:00–19:00	Poster B	Transport: Poster Session
TT 14.1–14.4	Mon	16:45–18:00	H 3005	Matter At Low Temperature: Multiferroics (jointly with MA, DF, DS, KR)
TT 15.1–15.5	Mon	16:45–18:00	BH 334	Correlated Electrons: Quantum Impurities, Kondo Physics 1
TT 16.1–16.14	Tue	9:30–13:15	H 0104	Correlated Electrons: Low-dimensional Systems - Models 2
TT 17.1–17.10	Tue	9:30–12:30	H 2053	Superconductivity: Fe-based Superconductors - 122 Part 2 & Theory
TT 18.1–18.12	Tue	9:30–12:45	H 3005	Correlated Electrons: Quantum Impurities, Kondo Physics 2
TT 19.1–19.12	Tue	9:30–13:00	H 3010	Correlated Electrons: (General) Theory 2
TT 20.1–20.8	Tue	9:30–12:15	BH 243	Transport: Quantum Coherence and Quantum Information Systems 3 (jointly with MA and HL)
TT 21.1–21.13	Tue	9:30–13:00	BH 334	Transport: Nanoelectronics I - Quantum Dots, Wires, Point Contacts 3
TT 22.1–22.13	Wed	9:30–13:00	H 0104	Correlated Electrons: Low-dimensional Systems - Materials 1
TT 23.1–23.7	Wed	9:30–11:15	H 2053	Superconductivity: Fe-based Superconductors - Fe(Se/Te)
TT 24.1–24.12	Wed	9:30–12:45	H 3005	Nanomechanics
TT 25.1–25.12	Wed	9:30–12:45	H 3010	Correlated Electrons: Quantum-Critical Phenomena 1
TT 26.1–26.13	Wed	9:30–13:00	BH 334	Transport: Topological Insulators 3 (jointly with HL and MA)
TT 27.1–27.7	Wed	11:30–13:15	H 2053	Superconductivity: Cuprate Superconductors
TT 28.1–28.13	Wed	15:00–18:30	H 0104	Correlated Electrons: Low-dimensional Systems - Materials 2
TT 29.1–29.12	Wed	15:00–18:30	H 2053	Superconductivity: Tunnelling, Josephson Junctions, SQUIDs 1
TT 30.1–30.12	Wed	15:00–18:45	H 3005	Matter At Low Temperature: Quantum Liquids, Bose-Einstein Condensates, Ultra-cold Atoms, ... 1
TT 31.1–31.5	Wed	15:00–16:15	H 3010	Correlated Electrons: Quantum-Critical Phenomena 2
TT 32.1–32.9	Wed	15:00–17:30	BH 334	Transport: Nanoelectronics III - Molecular Electronics 1
TT 33.1–33.74	Wed	15:00–19:00	Poster B	Superconductivity, Measuring Devices, Matter at Low Temperature: Poster Session
TT 34.1–34.6	Wed	16:30–18:00	H 3010	Correlated Electrons: Metal-Insulator Transition 1
TT 35.1–35.5	Thu	9:30–13:00	H 0104	Focused Session: Charge and Spin Transport through Junctions at the Nanometre Scale
TT 36.1–36.10	Thu	9:30–12:15	H 2053	Superconductivity: Cryodetectors
TT 37.1–37.13	Thu	9:30–13:00	H 3005	Matter At Low Temperature: Quantum Liquids, Bose-Einstein Condensates, Ultra-cold Atoms, ... 2
TT 38.1–38.12	Thu	9:30–13:00	H 3010	Correlated Electrons: Spin Systems and Itinerant Magnets 1
TT 39.1–39.13	Thu	9:30–13:00	BH 334	Transport: Graphene 1 (jointly with MA, HL, DY, DS, O)
TT 40.1–40.12	Thu	15:00–18:15	H 0104	Correlated Electrons: Low-dimensional Systems - Materials 3
TT 41.1–41.5	Thu	15:00–17:30	H 2053	Focused Session: Cryogenic Detectors
TT 42.1–42.11	Thu	15:00–18:00	H 3005	Superconductivity: Fabrication, Properties, Electronic Structure
TT 43.1–43.10	Thu	15:00–17:45	H 3010	Correlated Electrons: Metal-Insulator Transition 2
TT 44.1–44.8	Thu	15:00–17:15	BH 334	Transport: Nanoelectronics III - Molecular Electronics 2
TT 45.1–45.111	Thu	15:00–19:00	Poster B	Correlated Electrons: Poster Session
TT 46.1–46.8	Thu	17:45–20:00	H 2053	Superconductivity: Tunnelling, Josephson Junctions, SQUIDs 2
TT 47.1–47.12	Fri	9:30–12:45	H 0104	Correlated Electrons: Spin Systems and Itinerant Magnets 2

TT 48.1–48.13	Fri	9:30–13:00	H 2053	Superconductivity: Heterostructures, Andreev Scattering, Proximity Effect, Vortices
TT 49.1–49.9	Fri	9:30–12:00	H 3005	Correlated Electrons: Low-dimensional Systems - Materials 4
TT 50.1–50.10	Fri	9:30–12:15	H 3010	Superconductivity: (General) Theory
TT 51.1–51.9	Fri	9:30–12:00	BH 243	Transport: Nanoelectronics II - Spintronics and Magnetotransport (jointly with HL and MA)
TT 52.1–52.12	Fri	9:30–12:45	BH 334	Transport: Graphene 2 (jointly with MA, HL, DY, DS, O)

Annual General Meeting of the Low Temperature Physics Division

Thursday 20:15 H 3005