

Joint Annual Meeting of ÖPG and SPS 2021

Tuesday, August 31, 2021

Condensed Matter Physics: I: Spin Phenomena - Room A (1:30 PM - 4:00 PM)

time	[id] title	presenter
1:30 PM	[3] □101□Cherenkov radiation of spin waves by ultra-fast-moving magnetic flux quanta	DOBROVOLSKIY, Oleksandr
1:45 PM	[142] □102□Nano-scale magnonic directional coupler	Prof. CHUMAK, Andrii
2:00 PM	[152] □103□Inverse-design magnonic devices	Dr WANG, Qi
2:15 PM	[181] □104□Long-lived coherence in driven spin systems: from two to infinite spatial dimensions	HAHN, Walter
2:30 PM	[191] □105□Directly imaged non-standing spin-waves in rectangular microstrips under uniform excitation	PILE, Santa
2:45 PM	[332] □106□Magnetic correlations in the semimetallic hyperkagome iridate Na ₃ Ir ₃ O ₈	SIMUTIS, Gediminas
3:00 PM	[368] □107□Non-thermal generation of a new metastable skyrmion phase in Cu ₂ OSeO ₃	SAPOZHNIK, Alexey
3:15 PM	[373] □108□Controlled skyrmion lattice rotation in Cu ₂ OSeO ₃ driven by femtosecond mid-infrared laser pulses	TENG DIN, Phoebe
3:30 PM	[176] □109□Magnetic response and topology of a staggered-Rashba superconductor	FISCHER, Mark
3:45 PM	[155] □110□The effect of social balance on social fragmentation	Dr PHAM, Tuan

Condensed Matter Physics: II: Photonics - Room A (4:30 PM - 7:00 PM)

time	[id] title	presenter
4:30 PM	[192] □111□Giant Kerr nonlinearity of intersubband transitions – Origin of self-starting frequency combs	OPAČAK, Nikola
4:45 PM	[208] □112□Optical injection locking enables coherent dual-comb spectroscopy	HILLBRAND, Johannes
5:00 PM	[195] □113□Phase locking of two free running Quantum Cascade Laser frequency combs	DAL CIN, Sandro
5:15 PM	[234] □114□Measuring the Linewidth Enhancement Factor of a Laser Frequency Comb	PILAT, Florian
5:30 PM	[222] □115□Interband cascade lasers: beating intersubband transitions	KNÖTIG, Hedwig
5:45 PM	[292] □116□Frequency comb operation and phase locking of a Y-coupled THz quantum cascade laser	Mr SENICA, Urban
6:00 PM	[193] □117□Terahertz Intersubband Electroluminescence from Nonpolar m-Plane ZnO Quantum Cascade Structures	FRANCKIÉ, Martin
6:15 PM	[202] □118□Temporal solitons from a ring quantum cascade laser	MENG, Bo
6:30 PM	[213] □119□InAs/AlAsSb Quantum Cascade Detector Below 3 μm	GIPARAKIS, Miriam

6:45 PM	[223] □120□Multilayer mirrors for wavelengths beyond the extreme ultraviolet	MEISELS, Ronald
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Wednesday, September 1, 2021

Condensed Matter Physics: III: Superconductors - Room A (2:00 PM - 4:30 PM)

time	[id] title	presenter
2:00 PM	[111] □121□Fate of charge order in overdoped La-based cuprates	VON ARX, Karin
2:15 PM	[396] □122□Evidence for antiferromagnetism coexisting with charge order in the trilayer cuprate $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$	BENHABIB, Siham
2:30 PM	[387] □123□Charge correlations and charge fluctuations in cuprate superconductors	TABIS, Wojciech
2:45 PM	[312] □124□Acoustic plasmon excitation and its doping dependence in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$	ZHANG, Wenliang
3:00 PM	[359] □125□Engineering Ultradense Vortex Pinning Arrays by Focused He Ion Beam Irradiation In Copper-Oxide Superconductors	AICHNER, Bernd
3:15 PM	[377] □126□Anomalous Phonon Dispersion Relation in Cuprates	BIAŁO, Izabela
3:30 PM	[390] □127□Fermi liquid scaling of the scattering rate in cuprates	KLEBEL-KNOBLOCH, Benjamin
3:45 PM	[360] □128□Electronic correlations in novel superconductor $\text{Ba}_{2-y}\text{CuO}_{3+y}$	WORM, Paul
4:00 PM	[365] □129□Evidence for even parity unconventional superconductivity in Sr_2RuO_4	Prof. PUSTOGOW, Andrej
4:15 PM	[397] □130□Murunskite – a bridge between cuprates and pnictides	TOLJ, Davor

Condensed Matter Physics: IV: 2D Systems and Light-Matter Interaction - Room A (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[162] □131□Correlated many-body physics in moiré superlattices of graphene	Prof. SCHEURER, Mathias
5:15 PM	[189] □132□Energy dissipation on twisted bilayer graphene at magic angle twist	Mrs OLLIER, Alexina
5:30 PM	[228] □133□Does ARPES truly represent high-Tc superconductivity in cuprates?	STROCOV, Vladimir N.
5:45 PM	[225] □134□Colloidal Supercrystal Growth studied in-situ by X-ray Scattering	Dr LECHNER, Rainer
6:00 PM	[240] □135□Quantum Cascade Lab-on-a-Chip for Protein Sensing	PILAT, Florian
6:15 PM	[84] □136□Experimental Tuning of Transport Regimes in Hyperuniform Disordered Photonic Materials	AUBRY, Geoffroy
6:30 PM	[355] □137□Strong coupling of antiferromagnetic resonance with subterahertz cavity fields	BIALEK, Marcin
6:45 PM	[211] □138□Advancements in In-free III-nitride heterostructures emitting in the near infrared	SPINDLBERGER, Anna

Thursday, September 2, 2021

Condensed Matter Physics: V: Topological Systems - Room A (2:30 PM - 4:30 PM)

time	[id] title	presenter
2:30 PM	[409] □141□New fermions with large topological charges in chiral topological semimetals	Dr SCHRÖTER, Niels B. M.
3:00 PM	[28] □142□Quantized Floquet topology with temporal noise	SIEBERER, Lukas
3:15 PM	[184] □143□Classification and higher-order topology of triple nodal points	LENGGENHAGER, Patrick M.
3:30 PM	[295] □144□Multicellularity of delicate topological insulators	NELSON, Aleksandra
3:45 PM	[335] □145□Quantised topological invariants and topological pumping in a one-dimensional open quantum system	MOLIGNINI, Paolo
4:00 PM	[39] □146□Fragile topology and flat-band superconductivity	PERI, Valerio

Condensed Matter Physics: VI: Miscellanea and Devices - Room A (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[183] □151□Coherent Broadening and Tuning of QCL Frequency Combs via RF-Injection	SCHNEIDER, Barbara
5:15 PM	[186] □152□In-situ Small-Angle Neutron Scattering study of hydrogen physisorption in nanoporous carbons	STOCK, Sebastian
5:30 PM	[215] □153□Novel quantum cascade detectors (QCD) for telecommunication applications between 9 – 10 μm wavelength	Mr MARSCHICK, Georg
5:45 PM	[226] □154□Hybrid semiconductor-metal plasmonic waveguide for on-chip sensors in the longwave infrared	DAVID, Mauro
6:00 PM	[62] □155□Photon Correlations in Nanoparticle-on-Mirror Cavities	Dr SÁEZ-BLÁZQUEZ, Rocío
6:15 PM	[343] □156□Deep Learning Enhanced Optical Control of Quantum Cascade Random Lasers	LIMBACHER, Benedikt
6:30 PM	[198] □157□DigiTwin PV: Digital Twins in Photovoltaic for performance analysis and failure detection	HAKKA, Fatme
6:45 PM	[89] □158□Visible light backscatter: The illumination-sensor system-dualism of lighting	WENZL, Franz

Friday, September 3, 2021

Condensed Matter Physics: VII: Quantum Phenomena and Phases of Matter - Room C (11:15 AM - 1:45 PM)

time	[id] title	presenter
11:15 AM	[79] □161□Oscillatory dynamics in simple systems at elevated temperatures -- beyond a perturbational treatment of anharmonicity	LEITNER, Michael
11:30 AM	[290] □162□Capacitive Coupling between an on-chip resonator and a semiconductor nanowire	Mr UNGERER, Jann Hinnerk
11:45 AM	[90] □163□Ice XIX: The second hydrogen-ordered polymorph related to ice VI	Mr THOENY, Alexander
12:00 PM	[337] □164□Metastability and discrete spectrum of long-range systems	DEFENU, Nicolo
12:15 PM	[311] □165□Broken-Symmetry Ground States of the Heisenberg model on the Pyrochlore Lattice	ASTRAKHANTSEV, Nikita
12:30 PM	[364] □166□Negative Spin Current Correlation in a Cooper Pair Splitter	Dr BORDOLOI, Arunav
12:45 PM	[210] □167□Chiral Heisenberg Gross-Neveu-Yukawa criticality: honeycomb vs. single Dirac cone	LANG, Thomas C.
1:00 PM	[136] □168□Systematic study of magnetotransport with the Berry-Boltzmann equations	TSIRKIN, Stepan
1:15 PM	[53] □169□Signatures of non-Hermitian Dynamical Topology: From short-range to long-range couplings	STARCHL, Elias
1:30 PM	[231] □170□Evolution of Electron-Phonon Coupling across the Metal-Insulator Transition of Rare-Earth Nickelates	ASMARA, Teguh Citra