

Joint Annual Meeting of ÖPG and SPS 2021

Tuesday 31 August 2021

Poster Session: Applied Physics and Plasma Physics - Hall (19:00 - 20:30)

[id] title	presenter	board
[12] 631 Hyperfine effects in the vibrational spectroscopy of Cl^{H_2} and Cl^{D_2} complexes	DAHLMANN, Franziska	
[29] 632 Planar probe measurements of the low temperature plasmas sheath under a magnetic field of 0.5 T	HIRET, Paul	
[64] 633 Hysteresis in the drift wave turbulence to zonal flow bifurcation in magnetised plasma	Mr LOCKER, Franz Ferdinand	
[65] 634 Approximate non-Boussinesq polarisation models for plasma turbulence	Mr BALASUBRAMANIAN, Pradeep Somu	
[66] 635 Propagation of thermal plasma blobs in inhomogeneous magnetic fields	Mr ZARATE SEGURA, Guillermo Wenceslao	
[146] 636 ASACUSA's low energy proton source for matter studies	LANZ, Andreas	
[172] 637 Ion molecule reaction dynamics of the radical anion O^- with CH_3I .	AYASLI, Atilay	
[269] 638 Towards detection of FeH^+ in the interstellar medium: infrared photodissociation spectroscopy of Ar_2FeH^+	JIN, Shan	
[283] 639 Proton Transfer Reactions of $\text{N}^+ \text{H}^-$ and ArH^+	MÜNST, Maximilian	
[323] 640 Single Molecule Force Spectroscopy of Polyethylene Glycol Using Acid Chloride Anchors	RAINER, Manuel	
[374] 641 Interaction between three fireballs in low temperature plasma	Prof. SCHRITTWIESER, Roman	
[430] 642 Gas-phase photodetachment and photodissociation rates of dAMP^- in cryogenic 16-pole wire trap	MOHANDAS, Salvi	

Poster Session: Atomic Physics and Quantum Optics - Hall (19:00 - 20:30)

[id] title	presenter	board
[130] 451 Ternary reactions and cluster formation of Cl^{H_2} with H_2	LOCHMANN, Christine M.	
[145] 452 A setup for coincidence measurements of ion-molecule reactive scattering	Dr KHAN, Arnab	
[169] 453 Towards the Threshold Photodetachment Spectroscopic studies of C_2^- and C_2H^-	Ms PURUSHU MELATH, Sruthi	
[174] 454 Quantum dynamics of nano-rings of dipole-coupled emitters	SCHEIL, Verena	
[227] 455 Dissipative phase transition of optomechanical systems	Ms BIBAK, Fatemeh	
[247] 456 The NewLanD experiment: a novel approach to dipolar physics with ultracold dysprosium atoms	ANICH, Gregor	
[251] 457 Engineering ultracold molecules under a microscope	BEULENKAMP, Charly	

[254] 458 Precision spectroscopy and coherent manipulation of single trapped N ₂ ⁺ molecules	Mr ROGUSKI, Mikolaj Franciszek	
[262] 459 Quantum-Assisted Molecule Metrology	RIESER, Philipp	
[266] 460 Optimal quantum control of mechanical motion at room temperature: ground-state cooling	Mrs BACH, Constanze	
[274] 461 Stationary optomechanical entanglement between a mechanical oscillator and its measurement apparatus	WINKLER, Klemens	
[282] 462 Polarization rotation in an electromagnetically induced transparent atomic medium	Dr DAS, Arpita	
[286] 463 Positron Production and Cooling for Antihydrogen Production	Dr MAECKEL, Volkhard	
[309] 464 Stable High Power deep-UV Enhancement Cavity for Muonium Precision Spectroscopy	DE SOUSA BORGES, Lucas	
[347] 465 Novel Single-Side-Band Stabilization based on Dual Frequency Modulation	WALD, Sebastian	
[348] 466 Towards the next generation of spatial mode interference laser locking	DIORICO, Fritz	
[354] 467 Investigation of Near-Infrared Induced Spatial THz Modulation in High Resistivity Silicon	WINTER, Dominik	
[358] 468 Milligram-scale mechanical pendulums: towards the quantum regime	ROSSELLÓ, Pere	
[362] 469 Mott transition in a cavity-boson system: A quantitative comparison between theory and experiment	LIN, Rui	
[363] 470 Controlling ion motion by manipulating its own fluorescence	WEISER, Yannick	
[366] 471 Exotic matter production with anions	Dr CERCHIARI, Giovanni	
[403] 472 High precision laser frequency offset stabilization using a hybrid frequency discriminator	LI, Vyacheslav	
[407] 473 Magneto-mechanical coupling between a macroscopic cantilever and a superconducting cavity	DEEG, Lukas	
[71] 474 Electronic transitions in Rb ₂ ⁺ dimers solvated in helium	Ms GHAVIDEL, Elham	

Poster Session: Biophysics, Medical Physics and Soft Matter - Hall (19:00 - 20:30)

[id] title	presenter	board
[54] 721 Studying Pharmaceutical Nanoparticles by Atomic Force Microscopy	Mr SIBONI, Henrik	
[93] 722 Direct holographic measurement of torque and individual forces with optical tweezers	STRASSER, Franziska	
[148] 723 Embedding biomolecules in helium nanodroplets – Development of an experimental setup	GRUBER, Elisabeth	
[173] 724 Model based pixel crosstalk compensation in LCoS SLMs	MOSER, Simon	
[261] 725 4D printing – Moisture induced shape changing behavior of FDM (Fused Deposition Modeling) 3D printed objects using wood filaments	Dr MUSSO, Maurizio	
[270] 726 Single Molecule Force Spectroscopy of Disulfide Bonds	SCHIRRA, Simone	
[400] 727 Recent advances in MicroScint beam profiler technology	Mrs LECCESE, Veronica	

Poster Session: FAKT - TASK - Hall (19:00 - 20:30)

[id]	title	presenter	board
[350]	3001 Nuclear Excitation by Electron Capture in Excited Ions	Mr GARGIULO, Simone	
[126]	3002 Analysis of Window-function Modulated Radio Frequency Pulses for the n2EDM experiment	DOORENBOS, Cornelis	
[128]	3003 Progress towards a positron trap at SMI	WEISER, Alina	
[135]	3004 Engaging Physics Tutoring: Easy to prepare, fun to teach.	ZEYEN, Manuel	
[389]	3005 A Wien filter for the ILIAMS facility at VERA	GRUBER, Johannes	
[391]	3006 CRIRES high-resolution near-infrared spectroscopy of diffuse interstellar bands	EBENBICHLER, Alexander	
[385]	3007 Novel Optical Time Projection Chamber for Neutrino Experiments	Mr AMARINEI, Robert	
[416]	3008 SL(2,R) charges on the light cone	Dr WIELAND, Wolfgang	

Poster Session: KONND - Hall (19:00 - 20:30)

[id]	title	presenter	board
[43]	171 Topologically fragile flat bands through adatom superlattice engineering on graphene	SKURATIVSKA, Anastasiia	
[349]	172 Deposition and imaging of Ar layers on graphite with electron diffraction	USAI, Paolo	
[356]	173 Quench dynamics of nodal loops	SIM, Ka Rin	
[410]	174 Breakdown of induced $p \pm i p$ pairing in a superconductor-semiconductor hybrid	PHAN, Duc	
[19]	175 Multi-wavelength Raman spectroscopy of poly(furfuryl alcohol)	Dr MUSSO, Maurizio E.	
[376]	176 Photo-induced structural dynamics in Magnetite	TRUC, Benoit	
[201]	177 Material Analysis for Mid-IR Dielectric Loaded Plasmonic Waveguides and Their Application in Chemical Sensing	DOGANLAR, Ismail Cem	
[351]	178 Epi-down Bonded Quantum Cascade Patch Antenna Array Laser	ERTL, Marie	
[197]	179 Modelling, fabrication and characterization of low-density polyethylene based plasmonic waveguides for mid-IR photonic networks	Dr HOANG, Hanh	
[214]	180 Continuous-Wave Ring Interband Cascade Lasers for Spectroscopic Sensing	SZEDLAK, Rolf	
[252]	181 Engineering the spectral bandwidth of quantum cascade laser frequency combs	BEISER, Maximilian	
[320]	182 Femtosecond pulses from a mid-infrared quantum cascade laser	TÄSCHLER, Philipp	
[398]	183 Shaping terahertz frequency combs at room temperature: photomixing reloaded	THEINER, Dominik	
[294]	184 Resonantly Amplified Terahertz Quantum Cascade Detector	MICHELETTI, Paolo	
[341]	185 Comb Operation In Terahertz Quantum Cascade Ring Lasers	JAIDL, Michael	
[94]	186 Electronic instabilities of the kagome metals AV₃Sb₅	DENNER, Michael	
[411]	187 Cross-dimensional universality classes in static and periodically driven Kitaev models	GASULL, Albert	
[375]	188 Ultrafast Light-Induced Lifshitz Transition in High T_c superconductor Cuprates.	HELLBRÜCK, Lukas	

[76] 189	Electrochemical radiofrequency STM study of transition metal corroles	KUMAR, Abhishek	
[78] 190	Beating speed limits for Abrikosov vortices in superconducting thin films via edge-barrier engineering	BUDINSKÁ, Barbora	
[248] 191	Spin waves in direct-write 3D nano-architectures	LAMB-CAMARENA, Sebastian	
[256] 192	Local-probe based electrical characterization of a multiphase intermetallic gamma-TiAl based alloy	KRATZER, Markus	
[288] 193	Stability and meta-stability of CZTS solar cells under illumination and thermal treatment	ANANDA, Wisnu	
[77] 194	High-throughput GW Calculations	ELLINGER, Florian	

Poster Session: Quantum Information and Quantum Computing - Hall (19:00 - 20:30)

[id]	title	presenter	board
[81] 561	Quantum cryptography with highly entangled photons from GaAs quantum dots	SCHIMPF, Christian	
[82] 562	Integrating cold atomic quantum simulators into Qiskit	FISCHER, Laurin	
[102] 563	Tensor and polynomial decompositions: making invariance and positivity explicit	KLINGLER, Andreas	
[205] 566	Cause and effect relations in interventional models	TSELENTIS, Eleftherios-Ermis	
[206] 567	Compact On-chip Vacuum Gap Transmon Qubits on Suspended SOI Membrane	ZEMLICKA, Martin	
[233] 568	Local Transformations of Multiple Multipartite States	GUNN, David	
[244] 569	Entanglement transformations in permutation symmetric classes	SPEE, Cornelia	
[255] 570	State transformations within entanglement classes containing permutation-symmetric states: 3- & 4-Qutrit Cases	LI, Nicky	
[268] 571	Party-local Clifford transformations of graph states	KRAFT, Tristan	
[280] 572	Reassessing the computational advantage of quantum-controlled ordering of gates	RENNER, Martin Johannes	
[352] 573	Global vs local bath in superconducting waveguide QED experiments	SHARAFIEV, Aleksei	
[428] 574	Fluorescence detection of the position and variance operators.	CERCHIARI, Giovanni	
[429] 575	Towards quantum simulations with two-dimensional ion crystals	Dr BOCK, Matthias	

Poster Session: Surfaces, Interfaces and Thin Films - Hall (19:00 - 20:30)

[id]	title	presenter	board
[18] 251	EFFIE - Effizientere, biobasierte und recyclebare Stretchfolie	VASILJEVIC, Maja	
[35] 252	Mechanisms for direct wafer bonding of CVD dielectrics	RAUCH, Nikolaus	
[109] 253	Controlled Manipulation of Single Molecules on an Ag(111) Surface	LANZ, Julia	
[112] 254	The role of an AlN stopping barrier on the structure and properties of Ga δ FeN / Al $_{0.1}$ Ga $_{0.9}$ N heterostructures	Mr BROZYNIAK, Aleksander	
[297] 255	A cellulose based dual-tone photoresist patterned via deep X-ray lithography	Mr ANDREEV, Miltscho	

[170] 256	Surface structures of La _{0.8} Sr _{0.2} MnO ₃ (110) and La _{0.8} Sr _{0.2} MnO ₃ (001)	BRUNTHALER, Michael	
[246] 257	Surface tension measurement of pure water in vacuum	RYAN, Paul	
[249] 258	Vienna Package for TensErLEED II: A Versatile Setup for Acquisition of LEED I(V) Data	DÖRR, Florian	
[278] 259	Interaction of cobalt with the KTaO ₃ (001) surface	ALEXANDER, Aji	
[289] 260	In Situ Spectroscopy beamline at the Swiss Light Source	NOVOTNY, Zbynek	
[313] 261	Perovskite surfaces measured by diffraction: Does a (1x1) diffraction pattern correspond to (1x1) arrangement?	DOLÁK, Tomáš	
[284] 262	Gate-dependent polarity switching in high-quality 2D material single-crystal nanoribbon networks	Mr ASLAM, Muhammad Awais	
[141] 263	On the further development of Nb ₃ Sn SRF cavities: The investigation of Ta thin films as a diffusion barrier	STECHAUNER, Bernd Michael	
[113] 264	In-situ TEM annealing experiments on epitaxial GeSn thin films.	Ms MARTINEZ, Kari	

Thursday 2 September 2021

Poster Session: Poster Session and Lunchbuffet - Hall (13:00 - 14:30)