

Annual meeting of the Swiss Physical Society 2018

Wednesday, 29 August 2018

Poster Session: Advanced Electronic-Structure Developments and Applications - Salle polyvalente (18:30 - 20:00)

[id] title	presenter	board
[5] 531 Hole diffusion across leaky amorphous TiO ₂ coating layers for catalytic water splitting at photoanodes	Mr GUO, Zhendong	
[48] 532 Revealing chemical patterns by combining sketch-map with the density overlap region indicator	Dr MEYER, Benjamin	
[49] 533 How Do London Dispersion Interactions Impact the Photochemical Processes of Molecular Switches?	Mr FABRIZIO, Alberto	
[150] 534 Operando Spectroscopies in Electrochemical Environments from First-Principles	Dr NATTINO, Francesco	
[152] 535 Ab-initio heat transport in ordered/disordered systems	Mr SIMONCELLI, Michele	
[158] 536 Homogeneous Electron Gas Beyond GW	CHIAROTTI, Tommaso	
[162] 537 Band structure of semiconductors and insulators from Koopmans-compliant functionals	DE GENNARO, Riccardo	

Poster Session: Advances in Topological Materials - Salle polyvalente (18:30 - 20:00)

[id] title	presenter	board
[33] 631 Ultrafast light-spin phenomena in topological insulators	BUGINI, Davide	
[141] 632 Deep insight into the electronic structure of ternary topological insulators: A comparative study of PbBi ₄ Te ₇ and PbBi ₆ Te ₁₀	Mrs GRIMALDI, Ilenia	
[143] 633 Substrate-induced topological mini-bands in Dirac materials	WOLF, Tobias	
[164] 634 From a 4D Dirac model to the boundary physics of 2D lattices	PETRIDES, Ioannis	
[236] 635 Measurement of the entanglement spectrum of a symmetry-protected topological state using the IBM quantum computer	CHOO, Kenny	

Poster Session: Applied Physics & Plasma Physics & Earth, Atmosphere and Environmental Physics - Salle polyvalente (18:30 - 20:00)

[id] title	presenter	board
[185] 231 Reentrant Cavity Resonator for low Intensities Proton Beam Measurements	SRINIVASAN, Sudharsan	
[209] 233 Segmented THz electron manipulator for relativistic electrons	LOMBOSI, Csaba	
[2] 234 Optical link through fog and clouds: clearing a path with laser filamentation	PRODUIT, Thomas	
[222] 235 Mechanical energy budget and mixing efficiency in an ice-covered and radiatively-forced freshwater basin	ULLOA, Hugo N.	

[208] 236	Numerical investigation of mid-latitude subgrid-lake effects using a coupled single-column model with an application to Lake Geneva, Switzerland	Dr GOYETTE, Stephane	
[159] 237	SOLPS-ITER simulations of the TCV divertor upgrade	Mr WENSING, Mirko	
[3] 238	Scrape-off layer simulations in X-point diverted geometry	GIACOMIN, Maurizio	
[130] 239	A synthetic tangential phase contrast imaging diagnostic based on nonlinear GENE simulations with TCV geometry	IANTCHENKO, Aylwin	
[270] 240	The Exposure Hackaton science short-film festival: "Sun in a Box" beautifully presenting nuclear fusion to the public.	MOLINA CABRERA, Pedro	

Poster Session: Atomic Physics and Quantum Optics - Salle polyvalente (18:30 - 20:00)

[id]	title	presenter	board
[50] 431	Towards non-destructive transport measurements of interacting fermions	KONISHI, Hideki	
[182] 432	Quantum-Logic Spectroscopy of Molecular Ions	Mr SINHAL, Mudit	

Poster Session: Biophysics and Medical Physics - Salle polyvalente (18:30 - 20:00)

[id]	title	presenter	board
[192] 931	Modelling the Relationship Between Cell Geometry and Traction Force Distribution	MESSI, Zeno	
[207] 932	Fast drug susceptibility testing with nanomechanical sensors	STUPAR, Petar	
[211] 933	Long-life plastic optical fiber probes for Scanning Near-field Optical Microscope	Ms HAIZMANN, Emilie L.	
[217] 934	Microfabricated nanomotion detectors for ultra-rapid bacterial sensitivity tests	Mr MALOVICHKO, Anton	
[233] 935	Ultrasensitive NMR and MRI with hyperpolarised radionuclei	CROESE, Jared	

Poster Session: KOND - Salle polyvalente (18:30 - 20:00)

[id]	title	presenter	board
[104] 131	Ultra-fast carriers and gap dynamics of Black Phosphorus	ROTH, Silvan	
[120] 132	Bottom-up fabrication of graphene nanoribbons: From molecules to devices	Dr BORIN BARIN, Gabriela	
[268] 133	InteractiveXRDFit: a new tool to simulate and fit X-ray diffractograms of oxide thin films and heterostructures	LICHTENSTEIGER, Celine	
[13] 134	Surface electronic structure of CsPbBr ₃ perovskite single crystals by Angle-Resolved-Photoelectron-Spectroscopy	Mr POLISHCHUK, Serhii	
[61] 136	Dimensional crossover during charge density wave formation in quasi-one-dimensional NbSe ₃	Dr NICHOLSON, Christopher W.	
[105] 137	Spin-Orbital Excitations in Ca ₂ RuO ₄ revealed by Resonant Inelastic X-Ray Scattering	DAS, Lakshmi	
[174] 138	Charge-carrier cooling in ZnO nanoparticle colloidal solution by femtosecond broadband UV spectroscopy	Mr JABLONKA, Kevin	

[184]	139	Comprehensive band structure study of single-layer hole-doped cuprate superconductors	Mr KRAMER, Kevin	
[189]	140	A Novel Kagomé-like Cu ₂ OSO ₄ Crystal	Mr FAVRE, Virgile	
[191]	141	Ultrafast demagnetization dynamics of Ge-doped CoCr ₂ O ₄	Mr DECKER, Martin	
[229]	142	Preliminary Analysis to Understand the Universal Aspects of Metamagnetic Phase Transitions in Ca ₃ Co ₂ O ₆	Mr GANESH HEGDE, Nagabhusan	
[114]	143	Electron Injection of Metal Oxide Solar Materials Probed by Ultrafast Deep-UV Transient Absorption Spectroscopy	Mr WANG, Lijie	
[118]	144	On-surface synthesis and transfer of aligned graphene nanoribbons	Ms DARAWISH, Rimah	
[269]	145	A neutron scattering journey towards a 2D square lattice quantum magnet	TESTA, Luc	

Poster Session: Magnetism and Spintronics at the Nanoscale - Salle polyvalente (18:30 - 20:00)

[id]	title	presenter	board
[26]	831 Magneto-mechanical material	TESTA, Paolo	
[51]	832 Anomalous Nernst effect in Ir ₂ Mn ₇₈ /Co ₂₀ Fe ₆₀ B ₂₀ /MgO layers with perpendicular magnetic anisotropy	Mr HU, Junfeng	
[76]	833 Broadband spin-wave spectroscopy on artificial ferromagnetic quasicrystals identifying characteristic mode motifs	Mr WATANABE, Sho	
[80]	834 All electrical method for detecting parametrically pumped spin waves in a magnetic insulator	AN, Kyongmo	
[111]	835 Direct observation of a tunable spin wave phase shift at a magnetic defect in a one-dimensional magnonic crystal	BAUMGAERTL, Korbinian	
[128]	836 Electroless Deposition of Magnetic Materials on Three-Dimensional Nanostructures	Mr PIP, Petai	
[136]	837 Direct correlation of atomic structure and magnetic properties of individual cobalt nanoparticles: experiment vs. simulation	SAVCHENKO, Tatiana	
[138]	838 Broadband spin wave spectroscopy of yttrium iron garnet decorated with ferrimagnetic nanoparticles	MUCCHIETTO, Andrea	
[147]	839 Confined spin waves in ferromagnetic nanotubes detected by Brillouin light-scattering spectroscopy	GIORDANO, Maria Carmen	
[166]	840 Presence of Neel Skyrmions in magnetic thin film with in-plane anisotropy	VIJAYAKUMAR, Jaianth	
[180]	841 Spatial correlations in artificial XY spin systems	HOFHUIS, Kevin	
[213]	842 Spin Wave Nonreciprocity in Bi-component Magnonic Crystals	ZHOU, Jingyuan	
[224]	843 Numerical Studies of Skyrmion Lattices	Mr SCHÖNENBERGER, Thomas	
[237]	844 EPR Study of Spin Dependent Charge Transfer Processes at Functionalized Electrodes	BLUMENSCHNEIN, Felix	
[281]	845 Zero-field switching of Pt/Co/AlOx nano-dots induced by inhomogeneous current density	SALA, Giacomo	

Poster Session: SwissFEL - Recent Advances and Future Opportunities - Salle polyvalente (18:30 - 20:00)

[id]	title	presenter	board
[97]	731 SwissFEL Event Timing System	ŠUŠTAR, Tomaž	

Poster Session: TASK - Salle polyvalente (18:30 - 20:00)

[id]	title	presenter	board
[9]	371 Johnson-Nyquist Noise Studies for the n2EDM Experiment	CHIU, Pin-Jung	
[16]	372 Measuring Silicon Nuclei in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station	Mr CHEN, Yao	
[22]	373 Measuring the Beryllium Isotopic Composition in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station	WEI, Jiahui	
[23]	374 Measuring the Al/Mg ratio in cosmic rays with the Alpha Magnetic Spectrometer on the International Space Station	Mr LIU, Zhen	
[34]	375 Characterisations of the MALTA Monolithic Active Pixel Sensor for the Phase II upgrade of the ATLAS Inner Tracker.	SHARMA, Abhishek	
[46]	376 Monte Carlo Simulations for the Mott Calibrations of the MEGII Spectrometer	SCHWENDIMANN, Patrick	
[57]	377 Development of a Caesium Magnetometer Array for the n2EDM experiment	PAIS, Duarte	
[123]	378 Angular analysis of $B^0 \rightarrow K^{*0} e^+ e^-$ decays at LHCb	Ms WANG, Zhenzi	
[124]	379 Time-of-flight Ramsey Experiment with a Chopped Neutron Beam	CHANEL, Estelle	
[125]	380 The principle and detection system for the measurement of the hyperfine splitting in muonic hydrogen	SINKUNAITE, Laura	
[126]	381 Status of the Pulsed Neutron Beam EDM Experiment	Mr SOLAR, Marc	
[145]	382 Time-dependent studies with IceCube	BRON, Stephanie	
[161]	383 Characterisation of a monolithic silicon sensor with 30 ps timing resolution	BANDI, Yves	
[175]	384 Analysis and implications of the magnetic environment for n2EDM	Ms EMMENEGGER, Solange	
[221]	385 A novel approach to Landau damping of transverse collective instabilities in hadron colliders	SCHENK, Michael	
[227]	387 Performance of the 3x1x1 m ³ dual phase Liquid Argon Time Projection Chamber prototype at CERN.	FUSSHOELLER, Kevin	
[235]	388 The Geant4 Simulation of HERD Fiber Tracker	Mr WANG, Junjing	
[135]	389 Towards establishing LFU-breaking in $\bar{B}^0 \rightarrow \bar{K}^{*0} \ell \ell$ decays	ATZENI, Michele	

Thursday, 30 August 2018

Poster Session: Poster Session and Lunchbuffet - Salle polyvalente (12:20 - 14:00)