



SSM 2018

SOL-SKYMAG 2018

June 18 – June 22, 2018

San Sebastian (Gipuzkoa), Spain

PROGRAM

PROGRAM AT A GLANCE 2018

| <u>18.06.2018</u> | <u>19.06.2018</u> | <u>20.06.2018</u> | <u>21.06.2018</u> | <u>22.06.2018</u> |
|--|--|--|---|---|
| Registration 10.00 – 11.00 | Late registration 8.30 – 9.00 | Invited and oral talks 9.00 – 11.00 | Invited and oral talks 9.00 – 11.00 | Invited and oral talks 9.00 – 11.15 |
| Morning coffee 10.30 – 11.00 | Invited talks 9.00 – 11.00 | | | |
| Opening 11.00 – 11.10 | Coffee break 11.00 – 11.30 | Coffee break 11.00 – 11.30 | Coffee break 11.00 – 11.30 | Coffee break 11.15 – 11.45 |
| Invited and oral talks 11.10 – 13.40 | Invited and oral talks 11.30 – 13.30 | Invited and oral talks 11.30 – 13.45 | Invited and oral talks 11.30 – 14.45 | Oral talks 11.45 – 13.30 |
| Lunch 13.40 – 15.30 | Lunch 13.30 – 15.30 | Lunch 13.45 – 15.30 | Lunch 14.45 – 17.00 | Lunch 13.30 – 15.15 |
| Invited and oral talks 15.30 – 17.45 | Invited oral talks 15.30 – 17.30 | Invited and oral talks 15.30 – 17.15 | Meeting at the Catamaran dock 17.15 – 17.45 | Invited and oral talks 15.15 – 17.45 |
| Registration 17.45 – 18.15 | Refreshment 17.30 – 18.00 | | | |
| Welcome party 17.45 – 19.30 | Poster Session 17.30 – 19.30 | Refreshment 17.15 – 17.35 | Catamaran trip 17.45 – 19.15 | Conference closing / Last refreshment 17.45 – 18.15 |
| | | Invited and Oral talks 17.35 – 19.20 | | |
| | | Conference dinner 20.30 – 23.00 | | |

Program of the Sol-SkyMag 2018 conference

June 18 - 22, 2018, San Sebastian, Gipuzkoa, Spain

Carlos Santamaría Library Conference Hall (1st floor)



The Sol-SkyMag 2018 will be held in Carlos Santamaría Library Conference Hall (1st floor).

The exact address of Carlos Santamaría Library Conference Hall is:

Centro Carlos Santamaría
Plaza Elhuyar 2
20018 Donostia / San Sebastian
Gipuzkoa province,
Spain

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| | <u>Monday, June 18, 2018</u> |
| 10:00 - 11:00 | Registration, Library Conference Hall (only cash payment is accepted) |
| 10:30 - 11:00 | Morning coffee |
| 11:00 - 11:10 | Conference opening: <i>Representative of the UPV / EHU, Kostyantyn Gusliyenko, Julian Maria Gonzalez Estevez</i> |
| 11:10 - 13:40 | Session 1. Magnetic skyrmions I Chairs: Andrei Slavin / Kostyantyn Gusliyenko |
| 11:10 - 11:40 | Invited talk: Shinichiro Seki , RIKEN Center for Emergent Matter Science (CEMS), Tokyo, Japan: "Coherent signal transfer through skyrmion strings" |
| 11:40 - 12:10 | Invited talk: Geoffrey Beach , Massachusetts Institute of Technology, USA: "Dynamics, nucleation, and stability of room temperature magnetic skyrmions" |
| 12:10 - 12:40 | Invited talk: Andrey Leonov , Chirality Research Center (CResCent) / Hiroshima University / IFW Dresden, Japan / Germany: "Non-axisymmetric chiral Skyrmions" |
| 12:40 - 12:55 | Oral talk: Peter Milde , Institute of Applied Physics, Technische Universität Dresden, Germany: "Exploring the magnetic phases of Cu_2OSeO_3 with Scanning Force Microscopy" |
| 12:55 - 13:10 | Oral talk: Joseph Poon , University of Virginia, Charlottesville, VA, USA: "Ultra-small skyrmions in ferrimagnets" |
| 13:10 - 13:25 | Oral talk: Carles Navau , Autonomous University of Barcelona, Spain: "Effective fields and forces over skyrmions due to extended defects" |
| 13:25 - 13:40 | Oral talk: Imara Fernandes , Peter Grünberg Institut & Institute for Advanced Simulation, Forschungszentrum Jülich & JARA, Germany: "Universality of defect-skyrmion interaction profiles" |
| 13:40 - 15:30 | <u>Lunch break</u> |
| 15:30 - 17:45 | Session 2. Magnetic vortices and domain walls Chair: Oleg Tretiakov |
| 15:30 - 16:00 | Invited talk: Guido Meier , Max-Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany: "Tunable geometrical frustration in magnonic vortex crystals" |

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| 16:00 - 16:15 | Oral talk: Alejandro Riveros , University of Santiago of Chile, Chile: “Core displacement in a magnetic vortex texture in response to a magnetic field” |
| 16:15 - 16:30 | Oral talk: Petr Skirdkov , Moscow Institute of Physics and Technology Russia: “Spin pumping from ferromagnetic nanodot with magnetic vortex to material with large SOC” |
| 16:30 - 16:45 | Oral talk: Ikuzo Kanazawa , Tokyo Gakugei University, Japan: “Witten effect on the domain wall between topological insulators and spin ice compounds” |
| 16:45 - 17:00 | Oral talk: Mohamed Ali Nsibi , SPINTEC, CEA-INAC / CNRS / Université Grenoble Alpes, France: “Asymmetric domain wall motion induced by electric current” |
| 17:00 - 17:15 | Oral talk: Sebastian Meyer , Christian-Albrechts University of Kiel, Germany: “Domain walls and Dzyaloshinskii-Moriya interaction in epitaxial Co/Ir(111) and Pt/Co/Ir(111)” |
| 17:15 - 17:30 | Oral talk: Paolo Perna , IMDEA-Nanoscience, Madrid, Spain: “Tuning domain wall velocity with Dzyaloshinskii-Moriya interaction in epitaxial asymmetric trilayers” |
| 17.30 - 17:45 | Oral talk: Dieter Lott , Institute for Materials Research, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany: “Observation of a chirality created exchange bias effect” |
| 17.45 - 18.15 | Registration, Library Conference Hall (only cash payment is accepted) |
| 17:45 - 19:30 | <u>Welcome party, Library Conference Hall</u> |

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| | <u>Tuesday, June 19, 2018</u> |
| 8:30 - 9:00 | Late registration, Library Conference Hall (only cash payment is accepted) |
| 9:00 - 13:30 | Session 3. Magnetic skyrmions II Chairs: Marcus Garst / Maxim Mostovoy |
| 9:00 - 9:30 | Invited talk: Christopher Marrows , University of Leeds, United Kingdom: “Size-dependent and -independent Hall resistivity contributions from Néel skyrmions in multilayer nanodiscs” |
| 9:30 - 10:00 | Invited talk: Oksana Chubykalo-Fesenko , Institute of Materials Science of Madrid / CSIC, Spain: “Skyrmions in magnetic cylindrical nanowires” |
| 10:00 - 10:30 | Invited talk: Giovanni Finocchio , University of Messina, Italy: “Control of the skyrmion Hall angle by combining spin-Hall effect, breathing mode and in-plane field” |
| 10:30 - 10:45 | Oral talk: Simon Philipp , University of Basel, Switzerland: “Skyrmion phase stability in FeGe nanowire” |
| 10:45 - 11:00 | Oral talk: Gleb Kakazei , University of Porto, Portugal: “Artificial magnetic skyrmions in soft magnetic films coupled to an antidot matrix” |
| 11:00 - 11:30 | <u>Coffee / tea break</u> |
| 11:30 - 12:00 | Invited talk: Robert Camley , University of Colorado at Colorado Springs, USA: “Nonreciprocal magnetic dynamics in DMI systems” |
| 12:00 - 12:30 | Invited talk: Christoforos Moutafis , Univ. of Manchester, United Kingdom: “Magnetic skyrmions: statics and dynamics” |
| 12:30 - 12:45 | Oral talk: Hans Hug , Empa – Swiss Federal Labs for Materials Science and Technology / University of Basel, Switzerland: “Skyrmion formation in SrRuO ₃ -SrIrO ₃ epitaxial bilayer” |
| 12:45 - 13:00 | Oral talk: Jonathan Chico , Peter Grünberg Institut & Institute for Advanced Simulation, Forschungszentrum Jülich & JARA, Germany: “Skyrmion dynamics on Pd/Fe/Ir(111) under the influence of atomic defects” |
| 13:00 - 13:15 | Oral talk: Jan Müller , University of Cologne, Germany: “Speed limits for Skyrmions” |
| 13:15 - 13:30 | Oral talk: Matteo Stifano , Radboud University, The Netherlands: “Ultrafast toggle switching of magnetic skyrmions” |
| 13:30 - 15:30 | <u>Lunch break</u> |

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| 15:30 - 17:30 | Session 4. Magnetic skyrmions III Chair: Christoforos Moutafis |
| 15:30 - 16:00 | Invited talk: Maxim Mostovoy , University of Groningen, The Netherlands: “Electric excitation of topological states” |
| 16:00 - 16:30 | Invited talk: Alexander Pyatakov , Moscow State University, Russia: “The mechanisms of electric field-induced magnetic bubble domains blowing” |
| 16:30 - 16:45 | Oral talk: Soumyajyoti Haldar , University of Kiel, Germany: “First-principles study of skyrmion formation at 3d/4d transition-metal interfaces” |
| 16:45 - 17:00 | Oral talk: Alexander Samardak , Far Eastern Federal University, Russia: “Experimental observation of skyrmions in “heavy metal”/ferromagnet multilayers” |
| 17:00 - 17:15 | Oral talk: Alberto Anadon Barcelona , IMDEA-Nanoscience, Spain: “Low current modifications in anomalous Hall effect signals in perpendicularly magnetized system” |
| 17:15 - 17:30 | Oral talk: Paolo Perna , IMDEA-Nanoscience, Spain: “Sizeable Dzyaloshinskii-Moriya interaction at Graphene/Co interface” |
| 17:30 - 18:00 | <u>Refreshments</u> |
| 17:30 - 19:30 | <u>Poster session</u> (nanoscale magnetism, magnetization dynamics, magnetic skyrmions, vortices and domain walls, spintronics and spin orbit effects, theory and simulations) |

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| | <u>Wednesday, June 20, 2018</u> |
| 9:00 - 13:45 | Session 5. Magnetic skyrmions IV Chairs: Axel Hoffmann / Andrei Leonov |
| 9:00 - 9:30 | Invited talk: Vincent Cros , Unité Mixte de Physique CNRS / Thales France: "Resolving thickness-dependent reorientation of chiral hybrid textures in magnetic multilayers for spin-torque engineering" |
| 9:30 - 10:00 | Invited talk: Christos Panagopoulos , Nanyang Technological University, Singapore: "Tunable functional magnetic skyrmions at room temperature" |
| 10:00 - 10:15 | Oral talk: Valery Uzdin , Saint Petersburg University, Russia: "Stability of skyrmions at various spatial scales" |
| 10:15 - 10:30 | Oral talk: Gideon Müller , Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich & JARA / University of Iceland, Germany: "Skyrmion nucleation/annihilation mechanics revealed by minimum mode following method" |
| 10:30 - 10:45 | Oral talk: Stephan von Malottki , Christian-Albrechts University of Kiel, Germany: "Skyrmion lifetimes in exchange frustrated ultrathin films" |
| 10:45 - 11:00 | Oral talk: Adam Butykai , Budapest University of Technology and Economics, Hungary: "Reciprocal-space structure of the magnetic modulations in lacunar spinel GaMo ₄ S ₈ studied by SANS" |
| 11:00 - 11:30 | <u>Coffee break</u> |
| 11:30 - 12:00 | Invited talk: Olivier Boulle , Université / CNRS, Grenoble, France: "Room temperature magnetic skyrmions in ultrathin magnetic nano-structures and their current induced manipulation" |
| 12:00 - 12:30 | Invited talk: Peter Fischer , Lawrence Berkeley National Lab., USA: "Imprinting Topological Spin Textures into Thin DMI Multilayers" |
| 12:30 - 12:45 | Oral talk: Agustina Asenjo , Instituto de Ciencia de Materiales de Madrid / CSIC, Madrid, Spain: "Observation of hedgehog skyrmions in sub-100 nm soft magnetic nanodots" |
| 12:45 - 13:00 | Oral talk: Laura Köhler , Inst. of Theoretical Physics, Dresden, Germany: "Dislocations in helimagnets" |

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| 13:00 - 13:15 | Oral talk: Filipp Rybakov , KTH Royal Institute of Technology, Sweden: “Stable three-dimensional magnetic textures in helimagnets” |
| 13:15 - 13:30 | Oral talk: Nikolai Kiselev , Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich & JARA, Germany: “Experimental observation of magnetic bobbers: a new concept of magnetic solid-state memory” |
| 13:30 - 13:45 | Oral talk: Avik Ghosh , University of Virginia, USA: “Computing with topologically protected states” |
| 13:45 - 15:30 | <u>Lunch break</u> |
| 15:30 - 19:15 | Session 6. Antiferromagnets Chairs: Robert Stamps / Gleb Kakazei |
| 15:30 - 16:00 | Invited talk: Andrew Kent , New York University, USA: “Spin Transport in Thin Insulating Antiferromagnets” |
| 16:00 - 16:30 | Invited talk: Borys Ivanov , Institute of Magnetism, Ukraine: “Antiferromagnets and TeraHertz spintronics” |
| 16:30 - 16:45 | Oral talk: Olena Gomonay , Johannes Gutenberg Univ. Mainz, Germany: “Excitations of an isolated antiferromagnetic skyrmion” |
| 16:45 - 17:00 | Oral talk: Ricardo Zarzuela , University of California, USA: “Novel perspectives for the control of antiferromagnetic skyrmions” |
| 17:00 - 17:15 | Oral talk: Ruben Otxoa , Hitachi Cambridge Laboratory, United Kingdom: “Supermagnonic dynamics of domain walls in an antiferromagnet” |
| 17:15 - 17:35 | <u>Refreshments</u> |
| 17:35 - 18:05 | Invited talk: Robert Stamps , University of Manitoba, Canada: “Naturally Hyperbolic and Chirality Too: the Optics of Antiferromagnets” |
| 18:05 - 18:35 | Invited talk: Oleg Tretiakov , Tohoku University, Japan: “Stability and transport properties of antiferromagnetic (anti) skyrmions” |
| 18:35 - 18:50 | Oral talk: Maria Potkina , Saint Petersburg Univ./ Univ. of Iceland, Russia: “Skyrmions in ferro- and antiferromagnetic materials” |
| 18:50 - 19:05 | Oral talk: Julie Karel , Monash University, Australia: “Uncovering Berry: The Role of Topology in the Anomalous Hall Effect of Amorphous Ferromagnetic Fe-Si and Antiferromagnetic Mn ₃ Ge” |
| 19:05 - 19:20 | Oral talk: Roman Khymyn , University of Gothenburg, Sweden: “Spin-torque nano-oscillator based on magnetic textures in antiferromagnets” |
| 20:30 - 23:00 | <u>Conference dinner</u> |

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| | <u>Thursday, June 21, 2018</u> |
| 9:00 - 14:45 | Session 7. Magnetization dynamics, spin waves and magnonics (special session of the Horizon2020 MagIC project) Chair: Maciej Krawczyk Co-chairs: Igor Lyubchanskii / Oleksandr Serga |
| 9:00 - 9:30 | Invited talk: Marcus Garst , Technische Universität Dresden, Germany: "Spinwave dynamics of skyrmion crystals in chiral magnets" |
| 9:30 - 10:00 | Invited talk: Andrei Slavin , Oakland University, Michigan, USA: "Magnonic second sound" |
| 10:00 - 10:30 | Invited talk: Alexander Serga , University of Kaiserslautern, Germany: "Long distance supercurrent transport in a room-temperature Bose-Einstein magnon condensate" |
| 10:30 - 10:45 | Oral talk: Pedro Landeros , Federico Santa Maria Technical University, Valparaíso, Chile: "Chiral magnonics: Unique spin-wave phenomena induced by a periodic Dzyaloshinskii-Moriya interaction" |
| 10:45 - 11:00 | Oral talk: Mykola Dvornik , University of Gothenburg, Sweden: "Anomalous nonlinearity of the magnonic edge mode" |
| 11:00 - 11:30 | <u>Coffee break</u> |
| 11:30 - 12:00 | Invited talk: Theo Rasing , Radboud University, The Netherlands: "The emergence of magnetic order out of a strongly non-equilibrium state" |
| 12:00 - 12:30 | Invited talk: Maciej Krawczyk , Adam Mickiewicz University in Poznan, Poland: "Periodicity to control spin wave propagation in nanoscale" |
| 12:30 - 13:00 | Invited talk: Dirk Grundler , Ecole Polytechnique Fédérale de Lausanne, Switzerland: "Magnonic crystals with and without tailored magnetic defects: Phase control and grating coupler effect" |
| 13:00 - 13:30 | Invited talk: Volodymyr Kruglyak , University of Exeter, United Kingdom: "Spin wave control in patterned magnets: from magnetic textures to Fano resonances" |
| 13:30 - 13:45 | Oral talk: Filip Lisiecki , Institute of Molecular Physics, Poznan, Poland: "Propagating spin waves and reprogrammable properties of 1D magnonic quasi-crystals" |

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| 13:45 - 14:00 | Oral talk: Igor Lyubchanskii , Donetsk Physical and Technical Institute of the NAS of Ukraine / Karazin Kharkiv National University, Ukraine: “Magnetic polaritons in biperiodic one-dimensional structures” |
| 14:00 - 14:15 | Oral talk: Pawel Gruszecki , Adam Mickiewicz University in Poznan, Poland: “Spin wave dynamics in the stripe domain structure” |
| 14:15 - 14:30 | Oral talk: Sergey Osokin , Kotelnikov Institute of Radio-engineering and Electronics of RAS, Moscow, Russia: “Edge and defect modes of spin waves in finite chain of dipolarly coupled ferromagnetic pillars” |
| 14:30 - 14:45 | Oral talk: Bivas Rana , Center for Emergent Matter Science / RIKEN, Saitama, Japan: “Electric field controlled reconfigurable spin wave nanochannels and logic gates” |
| 14:45 - 17:00 | <u>Lunch break</u> |
| 17:15 - 17:45 | <u>Meeting at the Catamaran dock, downtown, Paseo Kaiko</u> |
| 17:45 - 19:15 | <u>Ferry trip to the Vizcaya gulf</u> |

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| | <u>Friday, June 22, 2018</u> |
| 9:00 - 11:15 | Session 8. Fundamentals of magnetism Chairs: Boris Ivanov |
| 9:00 - 9:30 | Invited talk: Anthony Arrott , Simon Fraser University, Burnaby, Canada: “Challenges in soft magnetic materials” |
| 9:30 - 10:00 | Invited talk: Axel Hoffmann , Argonne National Laboratory, Chicago, USA: “High Frequency Dynamics of Artificial Spin Ice” |
| 10:00 - 10:30 | Invited talk: Gen Tatara , RIKEN Center for Emergent Matter Science (CEMS), Saitama, Japan: “Effective gauge field theory of spintronics” |
| 10:30 - 10:45 | Oral talk: Olga Dyachenko , Far Eastern Federal University, Russia: “Investigation of the magnetic properties of ferromagnets in the framework of the random interaction fields method” |
| 10:45 - 11:00 | Oral talk: Chirag Garg , Max Planck Institute of Microstructure Physics, Halle, Germany: “Spin-orbit torque switching scheme based on micromagnetic states” |
| 11:00 - 11:15 | Oral talk: Christina Psaroudaki , University of Basel, Switzerland: “Quantum Dynamics of Skyrmions in Chiral Magnets ” |
| 11:15 - 11:45 | <u>Coffee break</u> |
| 11:45 - 13:30 | Session 9. Magnetism of nanoscale systems Chairs: Oksana Chubykalo-Fesenko |
| 11:45 - 12:00 | Oral talk: Levente Rózsa , University of Hamburg, Germany: “Influence of hydrogen on noncollinear magnetic order in ultrathin Fe films on Ir(111)” |
| 12:00 - 12:15 | Oral talk: Igor Golosovsky , B.P. Konstantinov Petersburg Nuclear Physics Institute, Russia: “Magnetic order in core/shell oxide nanoparticles revealed by neutron diffraction” |
| 12:15 - 12:30 | Oral talk: Manuel Valvidares , ALBA Synchrotron Light Source, Barcelona, Spain: “Graphene-ferromagnet thin-film structures with field-cool controllable perpendicular magnetization and coercive field asymmetries” |
| 12:30 - 12:45 | Oral talk: Victor Pavlov , Ioffe Physical-Technical Institute RAS, Russia: “Magneto-optics at the nanoscale in Europium chalcogenides” |

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| 12:45 - 13:00 | Oral talk: Robert Islinger , Regensburg University, Germany: “Dynamic detection of spin orbit fields” |
| 13:00 - 13:15 | Oral talk: Nikolai Sokolov , Ioffe Physical-Technical Institute RAS, Russia: “Magnetic properties of the heterostructures with YIG nanolayers: proximity & strain effects” |
| 13:15 - 13:30 | Oral talk: José Luis F. Cuñado , IMDEA-Nanociencia / Universidad Autónoma de Madrid y Instituto "Nicolás Cabrera", Spain: “Disentangling and quantifying temperature-driven symmetry-breaking effects in magnetic nanostructures with competing magnetic anisotropy” |
| 13:30 - 15:15 | Lunch break |
| 15:15 - 17:45 | Session 10. Charge and spin transport Chair: Kostyantyn Gusliyenko |
| 15:15 - 15:45 | Invited talk: Ilya Krivorotov , University of California, USA: “Spin caloritronic nano-oscillator” |
| 15:45 - 16:15 | Invited talk: Sergiu Ruta , University of York, United Kingdom: “Magnon transport driven by ultrafast laser pulses” |
| 16:15 - 16:30 | Oral talk: Gregory Kopnov , Tel Aviv University, Israel: “MegaOhm extraordinary Hall Effect in oxidized CoFeB” |
| 16:30 - 16:45 | Oral talk: Adel Abbout , King Abdullah University of Science and Technology, Kingdom of Saudi Arabia: “Skyrmion drag effect and electron pumping” |
| 16:45 - 17:00 | Oral talk: Lyudmila Uspenskaya , Institute of Solid State Physics, Russian Academy of Science, Russia: “Colossal magnetoresistance of ferrimagnet dielectric/superconductor hybrid structures caused by spin-orbit interactions” |
| 17:00 - 17:15 | Oral talk: Himanshu Fulara , University of Gothenburg, Sweden: “CMOS compatible W/CoFeB/MgO spin Hall nano-oscillators with wide frequency tunability” |
| 17:15 - 17:30 | Oral talk: Temirlan Arslanov , Amirkhanov Institute of Physics/ Daghestan Scientific Center, Russia: “Strong magnetotransport modification in a ferromagnetic hybrid material under pressure” |
| 17:30 - 17:45 | Oral talk: Afshin Houshang , University of Gothenburg, Sweden: “Spin torque driven spin wave bullets and propagating spin waves in extended magnetic tunnel junctions” |
| 17:45 - 18:15 | Conference closing / Last refreshment |

POSTER PRESENTATIONS

Poster Session (17:30-19:30, June 19, 2018): all topics

| # | Name and surname | Title |
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| 1 | Denys Slobodianiuk | "DYNAMICS OF TWO CURRENT-COUPLED ANTIFERROMAGNETIC JOSEPHSON-LIKE OSCILLATORS" |
| 2 | Tatyana Gaydamak | "MAGNETOPIEZOELECTRIC EFFECTS IN EASY-PLANE FERROBORATES" |
| 3 | Lyudmila Omelchenko | "INTERPLAY BETWEEN SUPERCONDUCTIVITY AND MAGNETISM IN HIGH-TEMPERATURE SUPERCONDUCTORS $YBa_2Cu_3O_{7-\delta}$ - $PrBa_2Cu_3O_{7-\delta}$ " |
| 4 | Frantisek Maca | "AB INITIO CALCULATIONS OF BASIC PROPERTIES OF TETRAGONAL CUMNAS" |
| 5 | Michal Mruczkiewicz | "HIGH ORDER AZIMUTHAL SPIN WAVE EXCITATIONS OVER THE VORTEX AND SKYRMION STATES" |
| 6 | Kamalika Nath | "TEMPERATURE CONTROLLED ANISOTROPY IN COBALT CONFINED IN AAO MATRIX" |
| 7 | Adler Gamzatov | "AC FREQUENCY AND TEMPERATURE DEPENDENT DIELECTRIC RESPONSE IN THE $LuFe_2O_4$ MULTIFERROIC" |
| 8 | Josep Castell-Queralt | "MICROMAGNETIC SIMULATIONS OF SKYRMION'S DYNAMICS IN PRESENCE OF LINEAR DEFECTS" |
| 9 | Leonardo González-Gómez | "GUIDING OF SKYRMIONS ALONG DESIRED LINES: A THIELE'S APPROACH" |
| 10 | Kamalika Nath | "INTENSE LASER PULSE INDUCED MAGNETIC FIELD AND THEIR EFFECT ON MAGNETIC DOMAIN FORMATION AND REORIENTATION" |
| 11 | Natalie Whitehead | "A LUNEBURG LENS FOR SPIN WAVES" |
| 12 | Shahzad Hussain | "STRUCTURE PROPERTY CORRELATIONS IN $(0.5)Bi_{0.70}A_{0.3}FeO_3$ - $(0.5)PbTi_{0.5}Fe_{0.5}O_3$ (A=Sr, Pb, Ba) SYSTEM" |
| 13 | Saif Ullah Awan | "COEXISTENCE OF MAGNETO-FERROELECTRIC PROPERTIES IN MULTIFERROIC BTO-CFO NANOCOMPOSITE FOR SPINTRONICS DEVICE APPLICATIONS" |
| 14 | Rodolfo Gallardo | "SYMMETRY AND LOCALIZATION PROPERTIES OF DEFECT MODES IN MAGNONIC SUPERLATTICES" |
| 15 | Johannes Stigloher | "OBSERVATION OF A SPIN WAVE PHASE SHIFT UPON REFLECTION" |

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| 16 | Claudio Gonzalez-Fuentes | “FERROMAGNETIC RESONANCE DRIVEN BY THE COMBINED ACTION OF SPIN-TRANSFER TORQUE AND VOLTAGE- CONTROLLED MAGNETIC ANISOTROPY” |
| 17 | George Litsardakis | “STRUCTURAL AND MAGNETOTRANSPORT PROPERTIES OF Bi ₂ Te ₃ THIN FILMS” |
| 18 | Dimitris Kechrakos | “MAGNETIC PROPERTIES OF NANOWIRES WITH FERROMAGNETIC CORE AND POLYCRYSTALLINE ANTIFERROMAGNETIC SHELL” |
| 19 | Oksana Gorobets | “SPIN WAVES IN MAGNONIC CRYSTALS WITH BROKEN SPATIAL INVERSION SYMMETRY INSIDE INTERFACIAL BOUNDARIES” |
| 20 | Adrian Gudin | “GRAPHENE/FERROMAGNETIC EPITAXIAL STACKS GROWN ON OXIDES WITH TUNED SPIN ORBIT COUPLING” |
| 21 | Grzegorz Centala | “FMR FREQUENCY TUNING BY SPIN WAVE PINNING IN PATTERNED FILMS” |
| 22 | Anastasiya Varentsova | “OPTIMIZING THE STABILITY OF NANOSCALE MAGNETIC SKYRMIONS” |
| 23 | Maryna Mailian | “SPIN WAVE PROPAGATION THROUGH THE ANTIFERROMAGNETICALLY COUPLED FERROMAGNETS” |
| 24 | Shahzad Hussain | “INVESTIGATION OF MAGNETIC, FERROELECTRIC AND LOCAL ELECTRICAL CONDUCTION BEHAVIOR OF RF SPUTTERED BiFeO ₃ THIN FILMS” |
| 25 | Saif Ullah Awan | “DEFECTS BASED ROOM TEMPERATURE FERROMAGNETISM IN LI DOPED ZnO THIN FILMS SYNTHESIZED BY PLD FOR SPINTRONICS APPLICATIONS” |
| 26 | Saif Ullah Awan | “INVESTIGATION OF ROOM TEMPERATURE FERROMAGNETIC PROPERTIES IN CARBON DOPED ZnO NANORODS” |
| 27 | Igor Lyapilin | “SPIN HALL EFFECT AND EXCITATION OF SPIN-WAVE CURRENT IN A MAGNETIC INSULATOR/Pt/MAGNETIC INSULATOR SYSTEM” |
| 28 | Subhasis Ghosh | “PHASE TRANSITION IN SKYRMIONIC Cu ₂ OSeO ₃ CRYSTAL” |
| 29 | Flaviano Santos | “SPIN-RESOLVED INELASTIC ELECTRON SCATTERING BY SPIN WAVES IN NONCOLLINEAR MAGNETS” |
| 30 | Rana Saha | “VARIATION AND STABILITY OF MAGNETIC ANTI-SKYRMIONS IN TETRAGONAL HEUSLER MATERIALS” |
| 31 | Ki-Suk Lee | “ROLE OF ATOMIC-SCALE DEFECTS IN THE BREATHING MODES OF MAGNETIC SKYRMIONS” |

Organizers:

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2018