

Programme

Sunday 21 August

16:00	Conference Registration <i>Halls 1 & 2</i>
17:00	Welcome Reception and Exhibition Opens <i>Halls 1 & 2</i>
20:00	Close of day one

Monday 22 August

08:30	Welcome Address <i>Clyde Auditorium</i>		
08:45	(Plenary) Spintronics nano-devices for VLSI integration Hideo Ohno, Tohoku University, Japan <i>Clyde Auditorium</i> Chair: Eiji Saitoh, Tohoku University, Japan		
09:30	Interval (time for participants to change rooms)		
09:35	(Semi-plenary) Spin current generators Eiji Saitoh, Tohoku University, Japan <i>Clyde Auditorium</i> Chair: Burkard Hillebrands, TU Kaiserslautern, Germany	(Semi-plenary) All-optical switching: from details of magnetic structure to time scales Andrei Kirilyuk, Radboud University Nijmegen, the Netherlands <i>Forth Room</i> Chair: Ilie Radu (Max-Born Institute, Germany)	
10:20	Flash Poster Session Chair: Gonzalo Vallejo Fernandez, University of York, UK <ul style="list-style-type: none"> • Magnetic thin films, surface, interfaces and patterned thin films • Magnetism in alloys and intermetallics • Magneto-transport, spin electronics, topological insulators • Micromagnetics, magnetization processes 	Flash Poster Session Chair: Paul Keatley, University of Exeter, UK <ul style="list-style-type: none"> • Magnetic shape memory, magnetoelastic and multifunctional materials • Nanoparticles and interfaces, nanomaterials and molecular magnetism • Optically driven spin excitations, magneto-optics and magnetoplasmonics 	
10:50	Exhibition and morning refreshments <i>Halls 1 & 2</i>		

	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>
	Magneto-transport, spin electronics, topological insulators I Chair: Jun-ichiro Ohe, Toho University, Japan	Magnetism in alloys and intermetallics I Chair: Luana Caron, Max Planck Institute for Chemical Physics of Solids, Germany	Optically driven spin excitations, magneto-optics and magnetoplasmonics I Chair: Richard Evans, University of York, UK	Nanoparticles and interfaces, nanomaterials and molecular magnetism I Chair: Roberta Sessoli, Università degli Studi di Firenze, Italy	Electronic correlations, superconductivity, superconducting spintronics I Chair: Marco Aprilli, CNRS, France
11:20	(Invited) Quasi-1D topological insulators Gabriel Autès, École Polytechnique Fédérale de Lausanne, Switzerland	(Invited) Dynamics of the first order transition and hysteresis in magnetocaloric materials Julia Lyubina, Evonik Industries AG, Germany and Imperial College London, UK	(Invited) Ultrafast magnetism of ferrimagnetic oxides Ilie Radu, BESSY, Germany	(Invited) Endohedral metallofullerenes: an interior design for molecular magnetism Alexey Popov, Leibniz Institute for Solid State and Materials Research, Germany	(Invited) Control of superconductivity with magnetic insulators and vice-versa Mark Blamire, University of Cambridge, UK

11:50	Tuning the gap and spin texture of topological states at the interface of atom-thin Cr films and Bi₂Se₃ surfaces Carmen Muñoz, Instituto de Ciencia de Materiales de Madrid (ICMM), Spain	Reversible tuning of coercivity of bulk CeMn₂Ge₂ by lithium intercalation Mithun Palit, Karlsruhe Institute of Technology, Germany	Time-resolved imaging of permalloy films excited by tightly-focused optical pulses: magnonics, optics or magneto-elastics? Carl Davies, University of Exeter, UK	High uniaxial magnetic anisotropy in surface-supported single-ion lanthanide-complexes Matthias Bernien, Freie Universität Berlin, Germany	Spin supercurrents generated by spin-orbit coupling Niladri Banerjee, Loughborough University, UK
12:05	Layer-dependent quantum co-operation of electron and hole states in the anomalous semimetal WTe₂ Ivana Vobornik, CNR-IOM, Italy	Giant spontaneous magnetization jumps and relaxation effect in the antiferromagnetic itinerant-electron system LaFe₁₂B₆ Olivier Isnard, Neel Institut, France	Long-range and high-speed electronic spin-transport at a GaAs/AlGaAs semiconductor interface Lukas Nadvornik, Academy of Sciences of the Czech Republic, Czech Republic	Properties of thin and ultrathin films of sublimable spin crossover complexes Patrick Rosa, ICMCB, France	New results on induced magnetism in a normal metal using superconducting spin-valve structures Machiel Flokstra, University of St Andrews, UK
12:20	Circularly polarized light interaction in topological insulators investigated by time-resolved ARPES Davide Bugni, Politecnico di Milano, Italy	First principles investigation of the effects of structural defects on the magnetic damping parameter of Co₂MnSi Barthélémy Pradines, CEMES-CNRS, France	Non-thermal magnetization switching via the ultrafast photomagnetism in a garnet Krzysztof Szerenos, University of Bialystok, Poland	X-ray absorption and photoemission spectroscopy of organic chiral molecules on metal surfaces I A Kowalik, Polish Academy of Sciences, Poland	High-field point contact Andreev reflection spectroscopy using Nb-Ti and MgB₂ superconductors Plamen Stamenov, Trinity College Dublin, Ireland
12:35	Spin orbit torques in rare earth garnet films with perpendicular anisotropy Caroline Ross, Massachusetts Institute of Technology, USA	Complex magnetism of Gd intermetallics: ab-initio theory and experiment Leon Petit, Daresbury Laboratory, UK	Manipulating magnetism by ultrafast control of the exchange interaction Johan Mentink, Radboud University, the Netherlands	Modification of spin Hamiltonians by molecular deformation Jinjie Chen, Karlsruhe Institute of Technology, Germany	Superconductivity in the doped ferromagnetic semiconductor samarium nitride Ben Ruck, Victoria University of Wellington, New Zealand
12:50	Sputtering condition dependence of spin-orbit torque induced magnetization switching in W/CoFeB/MgO Chaoliang Zhang, Tohoku University, Japan	Chiral magnetic properties and magnetic phase diagram of trigonal DyNi₃Ga₉ Shigeo Ohara, Nagoya Institute of Technology, Japan	Microscopic theory of ultrafast spin dynamics driven by phonon magnetic fields in a ferrimagnetic insulator Pablo Maldonado, Uppsala University, Sweden	Spin-electric coupling in triangular single-molecule magnets and its stability under external contacts Md Islam, Linnaeus University, Sweden	Electron correlations and magnetism in uranium nitride Diana Iusan, Uppsala University, Sweden
13:05	Determining spin orbit torques by spin torque magnetometry and domain wall depinning Kyujoon Lee, Johannes Gutenberg-Universität Mainz, Germany	Systematization of magnetic domains in amorphous microwires Alexander Chizhik, University of the Basque Country, Spain		Pressure induced, reversible, fourfold enhancement of the magnetic ordering temperature in transition metal monomers Christopher Woodall, University of Edinburgh, UK	A novel hybridized crystal field – phonon excitation in the non-centrosymmetric heavy fermion compound CeAuAl₃ Petr Čermák, Forschungszentrum Jülich – JCNS Institut, Germany
13:20	Exhibition and refreshments (lunch break) Halls 1 & 2				

	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>
	Spin waves, magnonics and dynamics I Chair: Paul Keatley, University of Exeter, UK	Magnetic thin films, surface, interfaces and patterned thin films I Chair: Denys Makarov, Helmholtz-Zentrum Dresden-Rossendorf e.V., Germany	Micromagnetics, magnetization processes I Chair: Oksana Chubykalo-Fesenko, Instituto de Ciencia de Materiales de Madrid, CSIC, Spain	Magnetic shape memory, magnetoelastic and multifunctional materials I Chair: Volodymyr Chernenko, BCMaterials & University of Basque Country (UPV/EHU), Spain	Frustrated and disordered magnetism including spin ice I Chair: Cristiano Nisoli, Los Alamos National Laboratory, USA
14:45	(Invited) Steering and excitation of spin waves in ferromagnetic thin films by pattern, internal field or excitation source design Maciej Krawczyk, Adam Mickiewicz University, Poland	(Invited) Interface-structure dependent spin-mixing conductance Aidan Hindmarch, Durham University, UK	(Invited) Spintronics in micromagnetism Claas Abert, TU Wien, Austria	(Invited) Magnetic anisotropy and magnetocaloric effect in Ni-PtMnGa Luana Caron, Max Planck Institute for Chemical Physics of Solids, Germany	(Invited) Observation of magnetic fragmentation in spin ice Nd₂Zr₂O₇ Elsa Lhotel, Institut Néel CNRS, France
15:15	Directional spin wave emission from topological spin textures Sebastian Wintz, Paul Scherrer Institut, Switzerland	XRMR study of superdiffusive spin transport induced by ultrafast laser pulses Nicolas Jaouen, Synchrotron SOLEIL, France	Synchronization in double nanocontact vortex oscillators Artur Accioly, C2N Centre for Nanoscience and Nanotechnology, France	Magnetic shape memory Ni-Mn-Ga films: stress effect on microstructure and magnetisation process Francesca Casoli, IMEM – CNR, Italy	Vogel-Fulcher-Tammann type freezing of the magnetization dynamics in artificial spin ice probed by resonant magnetic XPCS Jose Maria Porro, STFC Rutherford Appleton Laboratory, UK
15:30	Domain configuration mediated spin dynamics in patterned thin films Rasmus B Holländer, University of Kiel, Germany	The structure of carbon doped Mn₂Ge₃C_x epitaxial thin films studied by XANES and EXAFS Roger Kalvig, Polish Academy of Sciences, Poland	Dynamical analysis of the magnetization reversal in ferromagnetic nanostructures subjected to asymmetric magnetostatic interactions Matteo Pancaldi, CIC nanoGUNE, Spain	Studying magnetoelastic coupling in magnetically ordered materials by means of magnetomechanic spectroscopy Sergey Kustov Dolgov, University of Balearic Islands, Spain	An orientable 2D spin-ice model exhibiting a Kasteleyn transition Christopher Andrew Hooley, University of St Andrews, UK
15:45	Probing the interaction of propagating spin waves with Neel domain walls in a Landau domain structure Philipp Pirro, TU Kaiserslautern, Germany	Growth of spinel bilayers for a high efficiency room temperature spin-filter device Salvatore Mesoraca, University of Cambridge, UK	Field operating window of magnetic domain wall sensors Benjamin Borie, Sensitec GmbH, Germany	Transformation and magnetic behaviour of magnetic shape memory Ni_{44-x}Cu_xCo₆Mn₃₉Sn₁₁ ribbons Anna Wójcik, Polish Academy of Sciences, Poland	Dipolar 4-state Potts model: presentation and experimental realization Thomas Hauet, Université de Lorraine, France
16:00	Reconfigurable patterning of magnetic metamaterials for magnonics Riccardo Bertacco, Politecnico di Milano, Italy	Magnetic and magnetotransport properties of ultrathin embedded La_{0.7}Ba_{0.3}MnO₃ films Francis Bern, Universität Leipzig, Germany	Field dependent spin-torque diode sensitivity in a magnetic tunnel junction Dhananjay Tiwari, Indian Institute of Technology Delhi, India	Long-range antiferromagnetic structure in Ni-Co-Mn-Ga Heusler alloy with inverse magnetocaloric property Fabio Orlandi, STFC Rutherford Appleton Laboratory, UK	Terahertz spectroscopic study of low-energy excitations in Tb₂Ti₂O₇ Sophie De brion, Institut Néel, France
16:15	Curvature-induced chiral effects on magnonic waveguides Jorge Augusto Otálora Arias, Universidad Técnica Federico Santa María, Chile	Spin-polarized surface bands of a single layer of Bi on Ge(111) Carlo Zucchetti, Politecnico di Milano, Italy	Modelling current-driven motion of magnetic domain walls and its control using in-plane fields in PMA materials Ali Nasserli, ISI Foundation, Italy	Neutron diffraction and imaging as probes to study magnetic shape memory alloys Saurabh Kabra, STFC Rutherford Appleton Laboratory, UK	Thermodynamic phase transitions in artificial kagome spin ice Stephen Lee, University of St Andrews, UK

16:30	<p>Collective spin excitations in bi-component magnonic crystals consisting of bi-layered Permalloy/Fe nanostripes Gianluca Gubbiotti, CNR-IOM, Italy</p>	<p>Impact of Mg doped cladding layers on ferromagnetism of (Ga, Mn)N thin films Katarzyna Gas, University of Wrocław, Poland</p>	<p>Spin transfer driven resonant expulsion of a magnetic vortex core in a magnetic tunnel junction Vincent Cros, Unite Mixte de Physique CNRS, France</p>	<p>Locally inducing and mapping structural transformations in Ni-Mn-Ga thin films by scanning thermal microscopy Maria Pereira, CICECO – University of Aveiro, Portugal</p>	<p>Spin-stripe formation in a frustrated spin-1/2 chain Matej Pregelj, Jozef Stefan Institute, Slovenia</p>
16:45–19:00	<p>Refreshments, Exhibition and Poster Session A <i>Halls 1 & 2</i></p>				
	<p>Close of day two</p>				
19:00	<p>Civic Reception <i>Glasgow Science Centre</i></p>				

Tuesday 23 August

08:45	(Plenary) Room temperature supercurrents in a magnonic system Burkard Hillebrands, Technische Universität Kaiserslautern, Germany <i>Clyde Auditorium</i> Chair: Mathias Kläui, Johannes Gutenberg University Mainz, Germany				
09:30	Interval (time for participants to change rooms)				
09:35	(Semi-plenary) Caloric and multicaloric materials Lluís Mañosa, Universitat de Barcelona, Spain <i>Clyde Auditorium</i> Chair: Nicola Spaldin, ETH Zurich, Switzerland	(Semi-plenary) Interface as key unit in organic spintronic devices Valentin Dediu, CNR-ISMM, Italy <i>Forth Room</i> Chair: Andrew Pratt, University of York, UK			
10:20	Flash Poster Session Chair: Laura Henderson Lewis, Northeastern University, USA <ul style="list-style-type: none">• Frustrated and disordered magnetism including spin ice• Materials for energy (permanent magnets, magnetocalorics, soft magnetic materials, Heusler alloys)• Perovskites, multiferroics, artificial/composite multiferroics	Flash Poster Session Chair: Alina Deac <ul style="list-style-type: none">• Spin waves, magnonics and dynamics• Spin orbitronics, spintronics in antiferromagnets and skyrmions• Magnetism and spin transport in graphene/h-BN, carbon based and organic materials			
10:50	Exhibition and morning refreshments <i>Halls 1 & 2</i>				
	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>
	Spin waves, magnonics and dynamics II Chair: Giovanni Carlotti, University of Perugia, Italy	Perovskites, multiferroics, artificial/composite multiferroics I Chair: Simone Finizio, Paul Scherrer Institut, Switzerland	Materials for energy (permanent magnets, magnetocalorics, soft magnetic materials, Heusler alloys) I Chair: Dimitrios Niarchos, INN, NCSR Demokritos, Greece	Magnetism and spin transport in graphene/h-BN, carbon based and organic materials I Chair: Ivan Vera Marun, University of Manchester, UK	Biomagnetism and medical applications I
11:20	(Invited) Excitation of propagating spin waves by non-local spin injection Vladislav Demidov, University of Münster, Germany	(Invited) Engineering the electronic and orbital properties of the rare-earth nickelates Charles Ahn, Yale University, USA	In situ analysis of magnetization reversal in sintered and hot deformed Nd-Fe-B magnets Tim Helbig, TU-Darmstadt, Germany	(Invited) Magnetic impurities and spin relaxation in graphene Jaroslav Fabian, Universität Regensburg, Germany	(Invited) Local neuronal activity recordings with GMR sensors
11:35			Solid-solution stability and site-preference occupancy in (R-R')₂Fe₁₄B compounds Dominique Givord, CNRS - Institut Neel, France		
11:50	Self- and field-localized spin wave modes in spin Hall nano-oscillators in oblique magnetic fields Ahmad Awad, University of Gothenburg, Sweden	Magnetoelctro-elastic coupling in Co/PMN-PT Cinthia Piamonteze, Paul Scherrer Institut, Switzerland	DFT Calculation of the influence of RE on MAE in RE₂Fe₁₄B (RE=Y, Pr, Nd, Dy) Josef Fidler, Vienna University of Technology, Austria	Spin relaxation 1/f noise in graphene Siddhartha Omar, University of Groningen, the Netherlands	Quantification of the fields and forces produced by micro-magnets developed for bio-medical applications Nora Dempsey, Institut NEEL/CNRS, France

12:05	Time-resolved measurements of incommensurate states in nanocontact vortex oscillators Thibaut Devolder, CNRS, France	Exchange bias effects and self-organisation in epitaxial ferromagnetic-ferroelectric LSMO/BTO thin films Jingfan Ye, Technische Universität München, Germany	Impact of Co, Cu and Nb diffusion on the NdFeB phase Gino Hrkac, University of Exeter, UK	Magneto-optical reflection spectroscopy on graphene/Co in the soft X-ray range Hans-Christoph Mertins, Münster University of Applied Sciences, Germany	Two-dimensional motion of ferromagnetic swimmers in a uniaxial magnetic field Matthew Bryan, University of Exeter, UK
12:20	Imaging dynamic processes in spin Hall nano-oscillators driven by AC and DC currents Tim Spicer, University of Exeter, UK	Magnetolectric super-nonlinearity in a ferromagnetic-piezoelectric layered structure Yuri Fetisov, MIREA, Russia	Submicron R₂Fe₁₄b particles (r = dy, nd, pr) George C Hadjipanayis, University of Delaware, USA	Extended antiferromagnetic coupling at organic semiconductor/ferromagnetic interfaces Andrew Pratt, University of York, UK	On-chip magnetic domain wall tweezers for cell investigation and mechanobiology studies Riccardo Bertacco, Politecnico di Milano, Italy
12:35	Control of the effective spin-wave damping in Heusler-Pt waveguides via the spin-transfer torque effect in the short pulse regime Thomas Meyer, TU Kaiserslautern, Germany	The effects of multiple anisotropy axes on magneto-electric coupling in multiferroic composites Steven Bourn, University of Central Lancashire, UK	Thermal stability of Sm₂Fe₁₇N₃ magnet powders Nobuyoshi Imaoka, National Institute of Advanced Industrial Science and Technology (AIST), Japan.	Hybrid organic-ferromagnetic interfaces as a new playground for surface magnetism Rico Friedrich, Forschungszentrum Jülich, Germany	Structural, magnetic and optical properties of MgFe₂O₄ nanoparticles crystallized from borate glass Samha El Shabrawy, Otto-Schott Institute of Material Research, Germany
12:50	Mutual synchronization of spin Hall nano-oscillators Ahmad Awad, University of Gothenburg, Sweden	Magnetic properties of multiferroic thin films and multiferroic heterostructures Giovanni Maria Vinai, CNR-IOM, Italy	Recycling of rare earth magnets by hydrogen processing and re-sintering Enrique Herraiz, University of Birmingham, UK	Magnetoresistance regimes in organic spintronic devices Alberto Riminucci, CNR, Italy	Nonlinear dynamics of the networks of spin-torque nano-oscillators for bio-inspired networking Ansar Safin, National Research University, Russia
13:05	Reservoir computing with spin-torque nano-oscillators Jacob Torrejon Diaz, CNRS/Thales, France	Dynamics of electric-field driven magnetic domain walls in perpendicularly magnetized Cu/Ni multilayers Diego López González, Aalto University, Finland	3D print of polymer bonded rare-earth magnets, and 3D magnetic field scanning with an end-user 3D printer Christian Huber, TU-Vienna, Austria		Vector measurements of magnetocardiogram Peter Vetoshko, Russian Quantum Center, Russia
13:20	Exhibition and refreshments (lunch break) <i>Halls 1 & 2</i>				
	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>
	Magnetic thin films, surface, interfaces and patterned thin films II Chair: Jeffrey McCord, Kiel University, Germany	Spin orbitronics, spintronics in antiferromagnets and skyrmions I Chair: Francisco Trínidade, University of Glasgow, UK	Nanoparticles and interfaces, nanomaterials and molecular magnetism II Chair: Gregory Chaboussant, LLB CNRS/CEA Saclay, France	Magnetic memories and magnetic recording, sensors I Chair: Aidan Hindmarch, Durham University, UK	Magnetic shape memory, magnetoelastic and multifunctional materials II Chair: Damien McGrouther, University of Glasgow, UK
14:45	(Invited) Magnetism in curved geometries Denys Makarov, Helmholtz-Zentrum Dresden-Rossendorf e.V., Germany	(Invited) Creating and manipulating magnetic skyrmions at room temperature Suzanne G E te Velthuis, Argonne National Laboratory, USA	(Invited) High aspect ratio nanoparticles: from chemical synthesis to consolidated permanent magnets Guillaume Viau, Institut National des Sciences Appliquées, France	(Invited) High resolution NMR micro-spectroscopy with spin electronics sensors Claude Fermon, CEA, France	(Invited) Martensitic phase transition of Heusler-based magnetic shape memory alloys accessed by photoemission Akio Kimura, Hiroshima University, Japan

15:15	Method for reproducible single bubble formation in patterned dot array Thomas Hauet, Université de Lorraine, France	Observation current driven dynamics of magnetic skyrmions in metallic ferromagnets at room temperature Mathias Kläui, Johannes Gutenberg-Universität Mainz, Germany	Magnetic behaviour of nanoparticles stemming from interfaces between transition metal oxides Veronica Salgueiriño, Universidade de Vigo, Spain	Low frequency thermal noise in magneto-resistive sensors Andrzej Stankiewicz, Seagate Technology, USA	Nature and origin of structural modulation in Ni₂MnGa magnetic shape memory alloy Luana Caron, Max-Planck Institute For Chemical Physics of Solids, Germany
15:30	Excitation and confinement of spin waves in a patterned Co/Py composite structure Carl Davies, University of Exeter, UK	From domain walls towards smart skyrmions devices Ales Hrabec, LPS/CNRS, France	Monte Carlo study of the exchange bias behaviour of MnFe₂O₄@γ-Fe₂O₃ core/disordered shell nanoparticles M Vasilakaki, NCSR Demokritos, Greece	Noise study of magnetic field sensors based on magnetic tunnel junctions Myckael Mouchel, Crocus Technology & CEA, France	Tunable microwave electric polarization in magnetostrictive microwires Larissa Panina, National University of Science and Technology, Russia
15:45	Non-trivially distorted vortex cores in asymmetric permalloy patterns observed by soft X-ray microscopy Mi-Young Im, CXRO/LBNL, USA	Sputtered multilayers supporting skyrmions viewed by MFM Miguel A Marioni, Empa, Materials Science and Technology, Switzerland	Longitudinal domain wall formation in elongated nanoparticle assemblies Cathrine Frandsen, Technical University of Denmark	Detection limit of the TMR fluxgate sensor: is pT-resolution feasible with a magnetoresistance based technology? Leoni Breth, Vienna University of Technology, Austria	Magnetoelastic effect in ferromagnetic/NiTi bilayer films attached to Si(100) substrate Diana Lizeth Torres Sánchez, University of São Paulo, Brazil
16:00	Magnetic vortex chirality investigation in patterned structures by means of local hysteresis loops measurements Marco Coisson, INRIM, Italy	Electric-field control of magnetic skyrmion bubbles nucleation at room temperature Marine Schott, Institut Neel, France	Magnetic properties of a porous silicon/iron oxide composite usable as biocompatible magnetically guidable nanovehicle for payloads Petra Granitzer, University of Graz, Austria	Magnetoelectric analog of the fluxgate magnetometer Yuri Fetisov, MIREA, Russia	Magnetoresistive effects in NiFeGaCu and NiMnGaCu Heusler compounds Felicia Tolea, National Institute of Materials Physics, Romania
16:15	Thermal characterization of permalloy nanostripes deposited on thick SiO₂ Cristina López, Universidad Politécnica de Madrid, Spain	Minimal radius of magnetic skyrmions: statics and dynamics Elena Vedmedenko, University of Hamburg, Germany	Properties and multifunctionality of Fe oxide @ gold magneto-plasmonic heterostructures César de Julian Fernandez, IMEM – CNR, Italy	Micromachined high-frequency magnetoimpedance device for strain and magnetic field sensing Gregor Büttel, Saarland University, Germany	Development of high temperature Ni-Mn-Ga ferromagnetic shape memory alloys A Pérez Checa, Fundacion BCMaterials, Spain
16:30	Magnetic transition from antidot to dot regime in large area Co/Pd nanopatterned arrays with perpendicular magnetic anisotropy Michal Krupinski, Institute of Nuclear Physics, Polish Academy of Sciences,	Skyrmion formation in multigrain systems Myoung-Woo Yoo, C2N Centre for Nanoscience and Nanotechnology, France	Macroscopic nanoparticle assemblies: exploring the structural and magnetic properties of huge supracrystals Genevieve Wilbs, Juelich Centre for Neutron Science JCNS/Peter Gruenberg Institute PGI, Germany	Advances in cantilever magnetometry based on novel co-resonantly coupled sensors Julia Körner, Leibniz Institute for Solid State and Materials Research (IFW), Germany	Magnetic shape memory alloys: magnetoelastic properties affected by volume effects Volodymyr Chernenko, BCMaterials & University of Basque Country (UPV/EHU), Spain
16:45–19:00	Refreshments, Exhibition and Poster Session B Halls 1 & 2				
	Close of day three				
19:00–20:30	Exhibitor Reception/Whisky Tasting Halls 1 & 2				

Wednesday 24 August

08:45	(Plenary) MRAM challenges and advances Jordan Katine, HGST, USA <i>Clyde Auditorium</i> Chair: Tom Thomson, The University of Manchester, UK					
09:30	Interval (time for participants to change rooms)					
09:35	(Semi-plenary) Magnetism in Mn₂-Heusler compounds Claudia Felser, Max Planck Institute for Chemical Physics of Solids, Germany <i>Clyde Auditorium</i> Chair: Stephen Lee, University of St Andrews, UK	(Semi-plenary) Experimental measurement of three-dimensional magnetization distributions in nanoscale materials and devices using electron holography Rafal E Dunin-Borkowski, Research Centre Jülich, Germany <i>Forth Room</i> Chair: Stephen McVitie, University of Glasgow, UK				
10:20	Morning refreshments <i>Halls 1 & 2</i>					
	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>	
	Spin waves, magnonics and dynamics III Chair: Sang-Koog Kim, Seoul National University, South Korea	Magnetic thin films, surface, interfaces and patterned thin films III Chair: Tom Hayward, University of Sheffield, UK	Materials for energy (permanent magnets, magnetocalorics, soft magnetic materials, Heusler alloys) II Chair: George Hadjipanayis, University of Delaware, USA	Magnetic memories and magnetic recording, sensors II Chair: Jim Miles, The University of Manchester, UK	Optically driven spin excitations, magneto-optics and magnetoplasmonics II Chair: Paolo Vavassori, CIC nanoGUNE, Spain	
11:00	(Invited) Collective oscillations of magnetic vortices Guido Meier, Max-Planck Institute for the Structure and Dynamics of Matter, Germany	(Invited) Origin of antiferromagnetism at the Fe/Fe₃O₄ interface Andrew Pratt, University of York, UK	(Invited) Tailoring the magnetic anisotropy in Fe- and Ni-based magnets: an ab initio study Heike Herper, Uppsala University, Sweden	(Invited) Towards multiterabits magnetic recording: materials issues and approaches Dimitris Niarchos, NCSR Demokritos, Greece	(Invited) Sensing performance of hybrid magnetoplasmonic nanohole arrays Antonio Garcia-Martin, Instituto de Microelectrónica de Madrid, Spain	
11:30	Nanoscope X-ray imaging of spin waves in magnonic nanostructures Joachim Gräfe, Max Planck Institute for Intelligent Systems, Germany	Blocking temperatures of antiferromagnetic MnN Kevin O'Grady, University of York, UK	Development of rare earth free hard magnet based on L10 FeNi Parmanand Sharma, Tohoku University, Japan	Nanosecond-scale switching in perpendicularly magnetized STT-MRAM cells Thibaut Devolder, CNRS, France	Light localization and magneto-optic enhancement in magneto-plasmonic meta-structures Evangelos Papaioannou, TU Kaiserslautern, Germany	
11:45	Giant frequency splitting of dipolar azimuthal modes caused by Berry phase in magnetic nanorings Andrei Slavin, Oakland University, USA	Vertical exchange bias-like effect of an uncompensated antiferromagnet Bastian Henne, Johannes Kepler University, Austria	Bulk combinatorial analysis for searching new rare-earth-free permanent magnet: reactive crucible melting approach Bahar Fayyazi, Technical University of Darmstadt, Germany	Extraordinary Hall effect based magnetic comparison applications Thomas Hauet, Université de Lorraine, France	Terahertz excited plasmon-magnon interaction and magnetoplasmon-enhanced energy transfer within the framework of generalized spin Hamiltonian Vyacheslav Gritzaenko, IRC "Smart Materials" SFedU, Israel	

12:00	Spin-transfer torque based damping control of parametrically excited spin waves in a magnetic insulator Viktor Lauer, University of Kaiserslautern, Germany	New contribution to anisotropy energy – an investigation via XMCD and XRMR on an exchange bias thin film sample Joachim Gräfe, MPI-IS, Germany	Effect of carbon on magnetic order in MnAlC alloys Muriel Tyrman, CNRS - Université Paris-Saclay, France	Coding schemes for a domain-wall-based 3D race-track memory Olivier Fruchart, CNRS Alps delegation, France	Optical polarization rotation induced by spin-orbit coupling in polarons Blai Casals, ICMA-B-CSIC, Spain
12:15	Time-resolved X-ray detected ferromagnetic resonance with spatial resolution using scanning X-ray microscopy Taddäus Schaffers, Johannes Kepler University, Austria	An insight of magnetic metal/insulator interfaces Santiago José Carreira, Comisión Nacional de Energía Atómica, Argentina	Magnetic properties of the sputtered Fe₁₆N₂ films Dong Won Han, Korea Institute of Industrial Technology, Republic of Korea	Systematic engineering of structured nanowire arrays for three-dimensional magnetic data storage Sebastian Bochmann, FAU Erlangen-Nürnberg, Germany	Probing lateral magneto-electric response by 2nd order magneto-optical imaging Jeffrey McCord, Kiel University, Germany
12:30	Vortex core reversal by resonant excitation of the first order gyromode studied by table top magneto-optic Kerr microscopy Georg Dieterle, Max Planck Institute for Intelligent Systems, Germany	A new insight into cation distribution in CoFe₂O₄ thin films using soft X-ray magnetic circular dichroism Hari Babu Vasili, ALBA Synchrotron Light Source, Spain	Anomalous hysteresis loops in bismuth substituted hexaferrite Tayssir Ben Ghzaiel, CNRS – Université Paris-Saclay, France	Basic noise mechanisms of heat-assisted magnetic recording Christoph Vogler, TU Wien, Austria	Enhancing the magneto-optical Kerr effect with a near field plasmonic antenna Thomas Loughran, University of Exeter, UK
12:45	Magnetic damping: local ferromagnetic resonance vs domain wall dynamics J-Y Chauleau, CEA, France	Highly textured FeCo thin films deposited by low temperature pulsed laser deposition Gaspere Varvaro, ISM – CNR, Italy	Study on the Henkel plots applied to novel ferrite-based magnets César de Julian Fernandez, IMEM – CNR, Italy	HAMR media based on exchange bias Kelvin Elphick, University of York, UK	Origin of magneto-optical anisotropy in crystalline and patterned magnetic thin-films Jon Ander Arregi, CIC nanoGUNE/CEITEC-Brno University of Technology, Spain
13:00	Refreshments (lunch break) <i>Halls 1 & 2</i>				
13:45	Women in Physics Meeting (invitation only) <i>Carron Room</i>				
	Plenary Tutorials I <i>Forth Room</i>				
14:30	From mine to magnet Oliver Gutfleisch, Technische Universität Darmstadt, Germany				
15:15	Spin orbit effects in spintronics Mathias Kläui, Johannes Gutenberg University, Germany				
16:00	Afternoon refreshments <i>Conference centre reception</i>				
	Plenary Tutorials II <i>Forth Room</i>				
16:30	Magnetoresistive sensors: from industrial to biomedical applications Paulo Freitas, International Iberian Nanotechnology Laboratory, Portugal				
17:15	Advanced magnonics Burkard Hillebrands, Technische Universität Kaiserslautern, Germany				
	Close of day four				
18:15	Evening Reception <i>Conference centre reception</i>				

Thursday 25 August

08:45	(Plenary) Hidden magnetoelectric multipoles in multiferroics and superconductors Nicola Spaldin, ETH Zurich, Switzerland <i>Clyde Auditorium</i> Chair: Stefania Pizzini, Institut Néel, CNRS, France				
09:30	Interval (time for participants to change rooms)				
09:35	(Semi-plenary) Spintronics in graphene: current status and future prospects Bart van Wees, University of Groningen Nijenborgh, the Netherlands <i>Clyde Auditorium</i> Chair: Jaroslav Fabian, University of Regensburg, Germany	(Semi-plenary) Magnetic nanoparticles for life-sciences applications Clara Marquina, Consejo Superior de Investigaciones Científicas (CSIC), Spain <i>Forth Room</i> Chair: Nora Dempsey, Institut Néel, CNRS, France			
10:20	Morning refreshments				
	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>
	Spin orbitronics, spintronics in antiferromagnets and skyrmions II Chair: Ales Hrabec, LPS / CNRS, France	Materials for energy (permanent magnets, magnetocalorics, soft magnetic materials, Heusler alloys) III Chair: Lesley Cohen, Imperial College London, UK	Frustrated and disordered magnetism including spin ice II Chair: Chris Hooley, University of St. Andrews, UK	Perovskites, multiferroics, artificial/composite multiferroics II Chair: Donald MacLaren, University of Glasgow, UK	Biomagnetism and medical applications II Chair: Myriam Pannetier-Lecoeur, CEA Saclay, France
11:00	(Invited) Stability and dynamics of antiferromagnetic skyrmions Oleg Tretiakov, Tohoku University, Japan	Volume dependence of magnetic properties in Co₂CrGa-based Heusler alloys for magnetocaloric applications: a first-principles study João Gonçalves, Universidade de Aveiro, Portugal	(Invited) Deliberate design of exotic phases in nano-magnets via unusual, dedicated geometries Cristiano Nisoli, Los Alamos National Laboratory, USA	(Invited) Strain and termination control of ferroic orders at perovskite interfaces Kathrin Dörr, The Martin Luther University of Halle-Wittenberg (MLU), Germany	(Invited) Magnetic hyperthermia for treatment of localised tumours Daniel Ortega, IMDEA Nanociencia, Spain
11:15		In-situ study of the martensitic transition in poly- and single crystals of Heusler alloys in high magnetic fields of up to 14 T Yuri Koshkid'ko, International Laboratory of High Magnetic Fields and Low Temperatures, Poland			
11:30	Tunable inertia of chiral magnetic domain walls Jacob Torrejon, CNRS/Thales, France	Kinetics of heat flux avalanches at the first order transition in La(Fe-Mn-Si)₁₃-H1.65 compounds Marco Piazza, Istituto Nazionale di Ricerca Metrologica – INRIM, Italy	Methods of dilatometric investigations in strong magnetic fields – the case of spin ice compounds Mathias Doerr, Technische Universität Dresden, Germany	Second harmonic generation imaging of magnetoelectric coupling in BiFeO₃ Jean-Yves Chauleau, CEA, France	Evaluation of La_{1-x}Sr_xMnO₃ (0 ≤ x < 0.4) synthesised via a modified sol-gel method as mediators for magnetic fluid hyperthermia Suzanne Bennington-Gray, Queen's University Belfast, UK

11:45	Very large domain wall velocities in Pt/Co/Gd trilayers with Dzyaloshinskii-Moriya interaction Stefania Pizzini, Institut Néel – CNRS, France	Tuning phase transitions and the magnetocaloric effect of La(Fe, Si)₁₃ alloys Nicola Morley, University of Sheffield, UK	Massively degenerated ground state manifold in artificial square ice Yann Perrin, CNRS/UGA, France	Magnetic and magnetoelectric excitations in hexagonal multiferroics RMnO₃ probed by neutron scattering and THz spectroscopy Sophie De brion, Institut Néel, France	Magnetic colloids based on mixed ferrites core/shell nanoparticles for heat-exchange applications Renata Aquino, Universidade de Brasília, Brazil
12:00	Interfacial Dzyaloshinskii-Moriya interaction in perpendicularly-magnetized Pt/Co/AIO_x ultrathin films measured by Brillouin light spectroscopy Jean-Paul Adam, Université Paris 13, France	Reduction of the thermal hysteresis in magnetocaloric materials by highly charged ion bombardment Max Marangolo, Institut des Nanosciences de Paris, France	Critical speeding-up in the magnetoelectric response of spin ice near its monopole liquid-gas transition Christoph Grams, University of Cologne, Germany	Manipulation of magnetic anisotropy through piezoelectromagnetism in a magnetic semiconductor (Ga, Mn)N Grzegorz Mazur, Polish Academy of Sciences	Ni₈₀Fe₂₀ nanodisks by nano sphere lithography for biomedical applications Marco Coisson, INRIM, Italy
12:15	Dzyaloshinskii-Moriya interaction probed by domain-wall tilting Fanny Ummelen, Eindhoven University of Technology, the Netherlands	Two families of Mn-alloys with giant magnetocaloric effect probed by X-ray magnetic circular dichroism Francois Guillou, ESRF, France	Dynamics of bound monopoles in artificial spin ice: how to store Elena Vedmedenko, University of Hamburg, Germany	Peculiar high temperature magnetoelectric coupling in BaTiO₃:Fe₁₁₃ ppm Carlos Amorim, University of Aveiro, Portugal	Effect of the shape of the distribution of anisotropy constants on hysteresis losses for magnetic hyperthermia applications Gonzalo Vallejo Fernandez, University of York, UK
12:30	Interfacial coupling induced symmetry-breaking of spin-orbit interaction in exchange biased systems Fernando Ajejas, Universidad Autónoma de Madrid/Imdea Nanociencia, Spain	Influence of rapidly quenching on order of phase transition in RCo₂ compounds Dmitriy Karpenkov, The National University of Science and Technology "MISIS", Russia	Gapless spin liquid ground state in a S = 1/2 vanadium kagome antiferromagnet: a 19F and 17O NMR study Jean-Christophe Orain, Paul Scherrer Institut, Switzerland	Electric field control of the magnetic properties of in multiferroic heterostructures Nicola Morley, University of Sheffield, UK	Lorentz force study on the interparticle dipolar interactions between nanoparticles for magnetic hyperthermia César de Julian Fernandez, IMEM – CNR, Italy
12:45	Anisotropic Dzyaloshinskii-Moriya interaction in ultra-thin epitaxial Au/Co/W(110) Lorenzo Camosi, Institut Neel, France	Engineering magnetic frustration in antiperovskite Mn nitrides David Boldrin, Imperial College London, UK	Local manipulation of the frustrated magnetic state of artificial spin ice arrays Will Branford, Imperial College London, UK	Memristive and magnetoresistive properties of SrTiO₃ based junctions Ilaria Bergenti, CNR-ISMN, Italy	Colloidal CoFe₂O₄-based nanoparticles for magnetic fluid hyperthermia Valentina Mameli, University of Cagliari, Italy
13:00	Refreshments (lunch break) Halls 1 & 2				
	Parallel Session 1 Clyde Auditorium	Parallel Session 2 Forth Room	Parallel Session 3 Carron Room	Parallel Session 4 Dochart Room 1	Parallel Session 5 Gala Room
	Spin waves, magnonics and dynamics IV Chair: Gianluca Gubbiotti, CNR-IOM, Italy	Magnetic thin films, surface, interfaces and patterned thin films IV Chair: Philippa Shepley, University of Leeds, UK	Micromagnetics, magnetization processes II Chair: Elana Vedmedenko, University of Hamburg, Germany	Magneto-transport, spin electronics, topological insulators II Chair: Andrew Rushforth, University of Nottingham, UK	Magnetism in alloys and intermetallics II Chair: Olivier Isnard, Neel Institut, France
14:45		(Invited) In-situ TEM experiments using microwave fields Francisco Gonçalves, Hiroshima University, Japan	(Invited) The past, present and future of atomistic spin models Richard Evans, University of York, UK	(Invited) MgAl₂O₄ spinel based magnetic tunnel junctions and related topics Hiroaki Sukegawa, National Institute for Materials Science, Japan	(Invited) Progress towards developing new FeNi-based permanent magnets of high energy density Laura H Lewis, Northeastern University, USA

15:15	<p>The evolution of spin-wave modes in transition from a thin film to a magnonic crystal</p> <p>Manuel Langer, Helmholtz-Zentrum Dresden-Rossendorf, Germany</p>	<p>A TEM nanoscale investigation of the structure of FeRh-based thin films</p> <p>Trevor Almeida, University of Glasgow, UK</p>	<p>Uncovering the mystery of pinned interfacial spins responsible for exchange bias</p> <p>Sarah Jenkins, University of York, UK</p>	<p>Magnetothermoelectric effects in Hanle measurements leading to apparent anisotropic spin relaxation</p> <p>Kumar Sourav Das, University of Groningen, the Netherlands</p>	<p>Ferrimagnetic Tb-Fe alloy thin films: composition and thickness dependence of all-optical switching</p> <p>Manfred Albrecht, University of Augsburg, Germany</p>
15:30	<p>Dynamical dipolar coupling in pairs of 25 nm thick YIG nano-disks</p> <p>Grégoire de Loubens, CEA Saclay, France</p>	<p>Controlling the magnetic phase transition in mesoscale FeRh stripes</p> <p>Vojtech Uhlik, Brno University of Technology, Czech Republic</p>	<p>Temperature-dependent exchange stiffness and domain wall width in Co: a multi-scale approach</p> <p>Oksana Chubykalo-Fesenko, Instituto de Ciencia de Materiales de Madrid – CSIC, Spain</p>	<p>Kirchhoff's first law and pure spin currents</p> <p>Joseph Batley, University of Leeds, UK</p>	<p>Amorphous magnetic semiconductor $\text{Ge}_{1-x}\text{Mn}_x$ in low carrier density regime</p> <p>Gianluca Conta, University of Turin, Italy</p>
15:45	<p>Hybridization of flexure gyromodes with spin waves: three-dimensional character of the magnetization dynamics in magnetic vortex structures</p> <p>Hermann Stoll, Max Planck Institute for Intelligent Systems, Germany</p>	<p>Magnetic characteristics of a high-layer-number NiFe/FeMn multilayer</p> <p>Gary Paterson, University of Glasgow, UK</p>	<p>Imaging orthoradial domains in electroless-deposited magnetic nanotubes</p> <p>Michal Stano, Institut Neel, France</p>	<p>Development of a spin-polarised transistor</p> <p>Atsufumi Hirohata, University of York, UK</p>	<p>Effect of He⁺ ion irradiation on the structural and magnetic properties of Co_2MnSi alloys</p> <p>Nicolas Biziere, CEMES, France</p>
16:00	<p>Delocalization of the nonlinear magnonic edge mode of the magnetic nano-constriction</p> <p>Mykola Dvornik, University of Gothenburg, Sweden</p>	<p>Voltage induced electrochemical control of ferromagnetic properties of $\text{Ni}_{80}\text{Fe}_{20}$ thin films</p> <p>Jonathan Wood, University of Sheffield, UK</p>	<p>Macroscopic simulation of isotropic permanent magnets</p> <p>Florian Bruckner, TU Wien, Austria</p>	<p>Spin injection in silicon and germanium: direct comparison between 4 and 3 terminal measurements</p> <p>Fabien Rortais, CEA/SPINTEC, France</p>	<p>Magnetic susceptibility oscillations and de Haas-van Alphen (dHvA) effect in cerium doped lead chalcogenides</p> <p>Samih Isber, American University of Beirut, Lebanon</p>
16:15	<p>The effect of confinement on low energy spin excitations in chiral magnetic materials</p> <p>Benjamin Zingsem, University Duisburg-Essen, Germany</p>	<p>X-PEEM imaging of global vortex states in ferromagnetic nanotubes</p> <p>Marcus Wyss, University of Basel, Switzerland</p>	<p>Metadynamics – local minima search algorithm</p> <p>Jaroslav Tobik, Slovak Academy of Sciences, Slovakia</p>	<p>Evidence for spin-to-charge conversion in the ferroelectric Rashba semiconductor GeTe</p> <p>Riccardo Bertacco, Politecnico di Milano, Italy</p>	<p>Magnetic and structural properties of neon-irradiated $\text{Fe}_{60}\text{Al}_{40}$ thin films</p> <p>Plamen Stamenov, Trinity College Dublin, Ireland</p>
16:30	<p>Direct imaging of the magnetoelastic effect on the subnanosecond timescale</p> <p>Michael Foerster, ALBA-CELLS, Spain</p>	<p>Temperature dependence of structural and magneto-optical properties of Ce:YIG thin films</p> <p>Lukas Beran, Charles University in Prague, Czech Republic</p>	<p>Design of control field pulses to efficiently induce magnetic transitions</p> <p>Pavel Bessarab, Royal Institute of Technology (KTH), Sweden</p>	<p>Observation of room-temperature spin transport and spin relaxation in highly doped n-type Germanium</p> <p>Sergey Dushenko, Kyoto University, Japan</p>	<p>Synthesis and magnetic properties of c-axis oriented MnBi thin films with high anisotropy grown from a stoichiometric $\text{Mn}_{55}\text{Bi}_{45}$ target</p> <p>Sareh Sabet, Technische Universität Darmstadt, Germany</p>
16:45–19:00	<p>Refreshments and Poster Session C Halls 1 & 2</p>				
	Close of day five				
19:15	Buses depart from outside the SECC for the Old Fruitmarket				
19:30–late	Conference Dinner at the Old Fruitmarket				

Friday 26 August

08:30	Poster Prizes and Remarks <i>Clyde Auditorium</i>				
08:45	(Plenary) The magnetic skyrmions: newcomers in spintronics Vincent Cros, Unité Mixte de Physique CNRS, France <i>Clyde Auditorium</i> Chair: Riccardo Bertacco, Politecnico di Milano, Italy				
09:30	Interval (time for participants to change rooms)				
09:35	(Semi-plenary) Magnetic molecules in hybrid structures: from magnetic bistability towards quantum coherence Roberta Sessoli, Università degli Studi di Firenze, Italy <i>Clyde Auditorium</i> Chair: Mark Murre, University of Glasgow, UK	(Semi-plenary) Ferromagnetic Josephson junctions for cryogenic memory Norman Birge, Michigan State University, USA <i>Forth Room</i> Chair: Tristan Cren, Institut des NanoSciences de Paris, CNRS & Sorbonne Universités, France			
10:20	Morning refreshments <i>Halls 1 & 2</i>				
	Special Session: Frontiers of Magnetism <i>Clyde Auditorium</i> Chair: Vincent Cros, Unité Mixte de Physique CNRS, France				
11:00	Spin Orbitronics for Electronic Technologies? Stuart Parkin, Max Planck Institute of Microstructure Physics, Germany				
11:45	The magnetism of oxides Josep Fontcuberta, Institut de Ciència de Materials de Barcelona, Spain				
12:30	Refreshments (lunch break) <i>Halls 1 & 2</i>				
	Parallel Session 1 <i>Clyde Auditorium</i>	Parallel Session 2 <i>Forth Room</i>	Parallel Session 3 <i>Carron Room</i>	Parallel Session 4 <i>Dochart Room 1</i>	Parallel Session 5 <i>Gala Room</i>
	Magnetic thin films, surface, interfaces and patterned thin films V Chair: Francesca Casoli, IMEM - CNR, Italy	Magneto-transport, spin electronics, topological insulators III Chair: Hiroaki Sukegawa, National Institute for Materials Science (NIMS), Japan	Spin orbitronics, spintronics in antiferromagnets and skyrmions III Chair: Gary Paterson, University of Glasgow, UK	Nanoparticles and interfaces, nanomaterials and molecular magnetism III Chair: Olivier Fruchart, CNRS / CEA / Univ. Grenoble Alpes, France	Electronic correlations, superconductivity, superconducting spintronics II Chair: Niladri Banerjee, Loughborough University, UK
13:15	(Invited) Temperature-dependent magnetic depth profiles of epitaxial films with graded and oscillatory exchange coupling structure Lorenzo Fallarino, CIC nanoGUNE, Spain	(Invited) Thermal spin currents in magnetic heterostructures Guenter Reiss, Bielefeld University, Germany	(Invited) Current induced switching of an antiferromagnet Peter Wadley, University of Nottingham, UK	(Invited) Directing the orientational alignment of anisotropic magnetic nanoparticles Sabrina Disch, Universität zu Köln, Germany	(Invited) Long range coherent magnetic bound states in superconductors Tristan Cren, UPMC Univ Paris, France
13:45	Domains and domain walls in perpendicularly magnetised thin films and nanostructures Benedikt Boehm, IBM Research – Zurich, Switzerland	Interface induced perpendicular magnetic anisotropy in the Heusler $\text{Co}_2\text{Fe}_{0.4}\text{Mn}_{0.6}\text{Si}$ Bartholomew Ludbrook, Victoria University of Wellington, New Zealand	Electric voltage generation by antiferromagnetic dynamics Yuta Yamane, University of Main, Germany	How the surface affects the electronic and magnetic properties of magnetite nanoparticles Carolin Schmitz-Antoniak, Jülich Research Centre, Germany	Physics beneath magnetic textures in superconductors Chris Carroll, University of St Andrews, UK

14:00	Investigation of Dzyaloshinskii-Moriya Interaction in Epitaxial Trilayers of Pt/Co/Pt_{1-x}(Ir,Au)_x Kowsar Shahbazi, University of Leeds, UK	Magnetotransport properties of Fe_{0.8}Ga_{0.2} films with stripe domains Julian Milano, CNEA-CONICET, Argentina	Towards ferromagnetic resonance in scanning tunnelling microscopy using homodyne detection: exciting skyrmions Wulf Wulfhekel, Karlsruhe Institute of Technology, Germany	Electron spins in colloidal quantum dots as surface sensors and qubits Fabrizio Moro, University of Nottingham, UK	Atomic-scale imaging of the magnetic order in a strongly correlated electron material by spin-polarized STM Ramakrishna Aluru, University of St Andrews, UK
14:15	Tuning the Dzyaloshinskii-Moriya interaction via interface engineering in epitaxial Co/Pt Adam Wells, University of Leeds, UK	Effect of sink layer thickness on damping in CoMnGe (5 nm)/Ag (6 nm)/NiFe (x nm) spin valves Rob Valkass, University of Exeter, UK	Ferromagnetic/nonmagnetic nanostructures for the electrical measurement of the spin Hall effect Van Tuong Pham, CEA-Grenoble, France	Universal distribution of magnetic anisotropy in ordered and disordered nano grains Attila Szilva, Uppsala University, Sweden	The standard model of the rare-earths in the Hubbard I approximation Igor Di Marco, Uppsala University, Sweden
14:30	Chiral domain walls in CO/IR/PT(111) ultrathin films from atomistic simulations Levente Rózsa, Hungarian Academy of Sciences	Mutual synchronization of spin torque nano-oscillators through a non-local and tunable electrical coupling Romain Lebrun, UMR CNRS/Thales, France	Hanle magnetoresistance: a novel spin Hall related magnetoresistance without the presence of a ferromagnet Saul Velez, CIC nanoGUNE, Spain	Dynamic cantilever magnetometry on individual magnetic nanoparticles Boris Gross, University of Basel, Switzerland	Hole-doping effects in BaFe₂As₂ studied by high resolution X-ray emission and absorption spectroscopies Sara Lafuerza Bielsa, ESRF – The European Synchrotron, France
14:45	Magnetic domain wall motion in He⁺ irradiated CoFeB/MgO with perpendicular anisotropy Liza Herrera Diez, CNRS – Université Paris Sud, France	Nonlinear dynamics of spin-torque nano-oscillators with delayed feedback Jerome Williams, Université Paris-Saclay, France	Spin Hall effect induced spin wave amplification in permalloy/platinum bilayers Olga Gladii, Institut de Physique et Chimie des Matériaux de Strasbourg, France	Direct imaging of superparamagnetic fluctuations in individual magnetite nanoparticles Vadim Migunov, Forschungszentrum Jülich, Germany	Optimal spin-fluctuations: a key to magnetic-mediated pairing in iron-based superconductors Toni Shiroka, ETH, Switzerland
15:00	Interface Hall effect Alexander Gerber, Tel Aviv University, Israel	Towards multi-scale spin dynamics simulations of current-induced switching in magnetic tunnel junctions Maria Stamenova, Trinity College Dublin, Ireland	Nanoscale imaging of spin Hall effect-driven magnetization reversal Ian Gilbert, National Institute of Standards and Technology, USA	Spiral magnetic ordering in nanosized cobalt chromite by polarized neutron scattering Dominika Zákutná, Institut Laue-Langevin, France	
15:15	End of parallel sessions				
15:30	Early Career Symposium <i>Carron Room</i>				
17:00	Close of day six and conference				

Poster Programme

Poster Session A

Magneto-transport, spin electronics, topological insulators

- PS.1.001 Spin polarization measurements in the topological insulator family $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$ by point contact Andreev reflection**
P Stamenov, Trinity College Dublin, Ireland
- PS.1.002 Magnetic ordering in Cr doped Sb_2Te_3 thin films**
N-J Steinke, ISIS – STFC Rutherford Appleton Laboratory, UK
- PS.1.003 Magneto-optical properties of topological crystalline insulator $\text{Pb}_{0.7}\text{Sn}_{0.25}\text{Se}$**
K K Tikuišis, Charles University, Czech Republic
- PS.1.004 Distinctive features of transport in topological insulators**
V Sacksteder, Royal Holloway University of London, UK
- PS.1.005 Spin motive force driven by spin wave in chiral magnets**
J-I Ohe, Toho University, Japan
- PS.1.006 Temperature study of spin Hall effect in Ta/CoFeB/MgO with perpendicular magnetic anisotropy**
M Cecot, AGH University of Science and Technology, Poland
- PS.1.007 Low temperature anomalies of galvanomagnetic effects in $\gamma\text{-Fe}_4\text{N}$ thin films**
M Tsunoda, Tohoku University, Japan
- PS.1.008 Quantum anomalous Hall phases in layered magnetic oxides predicted by first-principles density functional calculations**
G-Y Guo, National Taiwan University, Taiwan
- PS.1.009 Separating the interfacial contributions to magnetotransport in YIG/Pt bilayers**
A Westerman, University of Leeds, UK
- PS.1.010 Enhanced magnetoresistance and Hall sensitivity of Bi films**
Y Zabala, Polish Academy of Sciences
- PS.1.011 Spin current injection and detection controlled by magnetic domain walls**
A Marty, CEA, France
- PS.1.012 A spin resistor model for the calculation of spin accumulation and spin signal**
A Marty, CEA, France
- PS.1.013 Large spin signals in metallic lateral spin-valves made with $\text{Co}_{60}\text{Fe}_{40}$ electrodes**
VT Pham, CEA-Grenoble, France
- PS.1.014 DW dynamics in the presence of pure spin currents**
H Corte-León, Royal Holloway University of London, UK

- PS.1.015 Development of a nano-spin motor**
M Samiepour, University of York, UK
- PS.1.016 Spin and heat transport in lateral spin valves**
G Stefanou, University of Leeds, UK
- PS.1.017 Relation between spin signal and atomic, electronic structures of interfaces for $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}/\text{n-GaAs}$ junctions**
N Tezuka, Tohoku University, Japan
- PS.1.018 The Landauer method applied to the calculation of the oscillatory interlayer exchange coupling of closed systems**
V Fadeev, Open University, UK
- PS.1.019 Circular electric currents generated by pure spin current injection**
R Ramazashvili, University Paul Sabatier, France
- PS.1.020 Magnetization transport theory for the spin Seebeck effect in ferromagnetic insulators**
M Piazza, National Institute of Meteorological Research, Italy
- PS.1.021 Heat generation due to spin transport in magnetic multilayers**
X-X Zhang, Beijing Technology and Business University, China
- PS.1.022 Efficient domain wall manipulation via pure spin currents in non-local spin valve devices**
M Kläui, Johannes Gutenberg University, Germany

Magnetic shape memory, magnetoelastic and multifunctional materials

- PS.1.023 Magnetoelastic material structure investigated by means of polarized neutrons**
V Lebedev, Jhoria Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH), Russia
- PS.1.024 First principles investigation of magnetic states of the $\text{Ni}_{1.75}\text{Co}_{0.25}\text{Mn}_{1.25}\text{Cr}_{0.25}\text{Sn}_{0.5}$ Heusler alloy**
V Buchelnikov, Chelyabinsk State University, Russia
- PS.1.025 Investigation of structural, magnetic and mechanical properties of Fe-Ni-Co-Al-Ta-B rapidly quenched microwires**
F Borza, National Institute of Research & Development for Technical Physics, Romania
- PS.1.026 Study of magnetic field distribution in an anisotropic single twin boundary magnetic shape memory element in actuators**
N Gabdullin, City University London, UK
- PS.1.027 Magnetic and magneto-mechanical properties of $\text{Fe}_{55}\text{Co}_{17}\text{Ga}_{28}$ alloy**
S U Jen, Institute of Physics – Academia Sinica, Taiwan

PS.1.028 Correlation between magnetic domains structure, magnetic hysteresis and twinned microstructure, in Ni-Mn-Ga shape memory single crystal
V Kopecký, Institute of Physics of the Czech Republic, Czech Republic

PS.1.029 Magnetoelastic properties in melt-spun Ni-Fe-Ga(Cu) ribbons
M Sofronie, National Institute of Materials Physics, Romania

PS.1.030 First principles and Monte Carlo studies of $Ni_{2+x}Mn_{1-x}Ge$ and $Ni_2Mn_{1+x}Ge_{1-x}$ Heusler alloys
V Sokolovskiy, Chelyabinsk State University, Russia

PS.1.031 Wireless and passive monitoring of the magnetoelastic effect enhanced by radio-frequency identification (RFID) and giant magnetoresistance (GMR)
R Windl, Vienna University of Technology, Austria

Nanoparticles and interfaces, nanomaterials and molecular magnetism

PS.1.032 Modification of spin Hamiltonians by molecular deformation
J Chen, Karlsruhe Institute of Technology, Germany

PS.1.033 Single-chain magnet dynamics observed in a $S = 2$ antiferromagnetic chain system $Mn(C_{10}O_2NH_{12})_2(CH_3CO_2)$
E Cizmar, Pavol Jozef Šafárik University, Slovakia

PS.1.034 Magnetic properties of the thin films based on octacyanidometallates
M Fitta, Institute of Nuclear Physics Polish Academy of Sciences, Poland

PS.1.035 Magnetic percolation in 3D molecular based magnet
P Konieczny, Polish Academy of Sciences

PS.1.036 Approximate approach to magnetism of molecular chain with AB2 topology
R Pelka, The H Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences

PS.1.037 Molecular magnetism in metal organic frameworks
S Schwalbe, Freiberg University of Mining and Technology, Germany

PS.1.038 Evaluating exchange coupling constants: from solid state physics to quantum chemistry
T Steenbock, University of Hamburg, Germany

PS.1.039 Magnetism of 3D metal ions in polyoxopalladates
N Svechkina, Forschungszentrum Jülich, Germany

PS.1.040 Efficient treatment of magnetism in metal organic frameworks
K Trepte, Dresden University of Technology, Germany

PS.1.041 Study of micro-droplets from thin ferrofluid layer splitting in vertical magnetic field
L Lian, Sichuan University, China

PS.1.042 The quest for intrinsic ferromagnetism in Ge nanostructures
Y-C Chi, Atomic Energy Council, Taiwan

PS.1.043 Liquid-liquid phase separation and cluster formation at deposition of metals under an inhomogeneous magnetic field
O Gorobets, Kyir Polytechnic Institute, Ukraine

PS.1.044 Laser-based generation of magnetic 3D micro- and nanostructures
A Kanitz, Ruhr University Bochum, Germany

PS.1.045 Atomistic modeling of the exchange bias effect in magnetic nanowires
A Patsopoulos, National and Kapodistrian University of Athens, Greece

PS.1.046 Operando magnetic studies of Li_xCoO_2 and $Li_xNi_{1/3}Co_{1/3}Mn_{1/3}O_2$ battery cathodes during charging and discharging
G Klinser, Graz University of Technology, Austria

PS.1.047 Magnetic texture in nanocluster ensembles: influence on isothermal remanent magnetization
D Le Roy, CNRS/Claude Bernard University Lyon 1, France

PS.1.048 Nanomagnetism tunned by crystal facet engineering
W Li, Shanghai University, China

PS.1.049 Effects of finite-size effect and components on magnetic properties in iron sulfide nanowire arrays
X Luo, Xiamen University, China

PS.1.050 Designing new ferrite/manganite nanocomposites
G Varvaro, ISM – CNR, Italy

PS.1.051 Magnetically coupled Co/Ni nanostructures arranged within porous silicon
K Rumpf, University of Graz, Austria

Electronic correlations, superconductivity, superconducting spintronics

PS.1.052 Particularities of non-collinear antiferromagnetic orderings in Nd_2CuO_4
A Bazhan, P L Kapitza Institute for Physical Problems, Russia

PS.1.053 Interference effects in Andreev transport through Cooper pair splitters with ferromagnetic contacts
K Bocian, Adam Mickiewicz University, Poland

PS.1.054 Pseudogap and kinetic energy of unconventional superconductivity in the two dimensional Hubbard model
A Troper, Centro Brasileiro de Pesquisas Fisicas, Brazil

PS.1.055 $LaRuO_3$: a trivalent Ru oxide close to a magnetic instability
D G Franco, Max-Planck-Institute for Chemical Physics of Solids, Germany

- PS.1.056 Canted antiferromagnetism in CoAs_2O_4 single crystal**
Z Jaglicic, University of Ljubljana, Slovenia
- PS.1.057 Hedgehog-like spin fluctuation and the Boson peak in Zn-Mg-Tb quasicrystals**
I Kanazawa, Tokyo Gakugei University, Japan
- PS.1.058 Spin glass phase and quantized massive gauge fields in high- T_c cuprates**
I Kanazawa, Tokyo Gakugei University, Japan
- PS.1.059 Uniaxial strain effects on the Verwey transition of magnetite Fe_3O_4 studied in magnetization measurements**
S Katano, Saitama University, Japan
- PS.1.060 Magnetic, electronic and specific heat properties of solid solutions of cobalt doped low-dimensional RP3 nickelates**
S Kumar, University of Oslo, Norway
- PS.1.061 Doping effects of graphene on the superconducting properties of MgB_2**
W Li, Shanghai University, China
- PS.1.062 New type of substitution in superconducting 111 family: synthesis and physical properties of the $\text{Li}_{1-x}\text{TM}_x\text{FeAs}$, $\text{TM} = \text{Cu, Mn}$**
M Liu, Lomonosov Moscow State University, Russia
- PS.1.063 Vortices in hybrid superconductor-ferromagnet structures with different interfaces**
E Marchiori Pereira, University of Bath, UK
- PS.1.064 New route for the synthesis of beta-Ga superconducting nanowires**
K Moura, University of Campinas, Brazil
- PS.1.065 Synthesis and characterization of $\text{CeCoAl}_4\text{Si}_2$**
B Popescu, National Institute of Materials Physics, Romania
- PS.1.066 Optimising the performance of superconducting spintronic devices**
R Stewart, University of St Andrews, UK
- PS.1.067 Field induced magnetic behavior of $\text{DyAl}_3(\text{BO}_3)_4$**
T Zajarniuk, Polish Academy of Sciences
- PS.1.070 Domain wall chirality control in NiFe nanowire with triangular edge-modulation**
A T Hindmarch, Durham University, UK
- PS.1.071 Control of domain wall magnetization reversal using heavy metal (Pt) capping layers on NiFe nanowires**
AT Hindmarch, Durham University, UK
- PS.1.072 Magnetization in nanowires by polarized small angle neutron scattering**
G Chaboussant, LLB CNRS/CEA Saclay, France
- PS.1.073 Spin-torque oscillator behaviour in highly non-uniform magnetic fields**
J Chęciński, AGH University of Science and Technology, Poland
- PS.1.074 Modeling magnetization curves in magnetic thin films with striped patterns**
S Bustingorry, Instituto Balseiro, Argentina
- PS.1.075 Micromagnetic simulations of the remagnetization process in Fe-rich glass covered wires**
P Gawronski, AGH University of Science and Technology, Poland
- PS.1.076 The effect of injection methodology on stochastic domain wall pinning in magnetic nanowire devices**
T J Hayward, University of Sheffield, UK
- PS.1.077 Susceptibility of a carbonaceous particle determined from acceleration caused by field-gradient**
C Uyeda, Osaka University, Japan
- PS.1.078 Current-induced fingering instability in magnetic domain walls**
V Jeudy, University of Paris-Saclay, France
- PS.1.079 Universality of domain walls creep motion in thin ferromagnetic**
V Jeudy, University of Paris-Saclay, France
- PS.1.080 Micromagnetic simulation of nanomagnets with geometry-tuned domain wall nucleation**
S Breitzkreutz-von Gamm, Technical University of Munich, Germany
- PS.1.081 Study of magnetization reversal in cobalt nano-rings in contact with nano-wires**
M Lal, Indian Institute of Science, India
- PS.1.082 Effective field model of edge and surface roughness in ferromagnetic nanowires**
S Lepadatu, University of Central Lancashire, UK
- PS.1.083 Effect of anisotropy distribution on the hysteresis loops of amorphous glass-coated nanowires**
T A Ovari, National Institute of Research and Development for Technical Physics, Romania

Micromagnetics, magnetization processes

PS.1.084 Domain walls in cylindrical magnetic nanowires and their displacement observed via electron holography

M Stano, Institut Neel, France

PS.1.085 Enhancing injection locking range by mutually coupling spin torque oscillators

P Talatchian, CNRS/Thales, France

PS.1.086 Investigations of magnetization reversal mechanism in periodic Py nanostructures

M Zelent, Adam Mickiewicz University in Poznan, Poland

Spin waves, magnonics and dynamics

PS.1.087 All electrical propagating spin wave spectroscopy with broadband wavevector capability

T Devolder, imec, Belgium

PS.1.088 Nonreciprocal propagation of spin waves in a bilayer magnonic crystal

R Gallardo, Universidad Técnica Federico Santa María, Chile

PS.1.089 Spin wave propagation and spin polarized electron transport in single crystal iron films

O Gladii, CNRS, IPCMS, France

PS.1.090 Experimental characterization of spin wave propagation in ultrathin YIG based waveguides

V Cros, Unité Mixte de Physique/CNRS/Thales/University of Paris-Saclay, France

PS.1.091 Non-reciprocal spin-wave dispersion in bent thin-film stripes

A Kakay, Helmholtz-Zentrum Dresden-Rossendorf, Germany

PS.1.092 Spin waves in exchange-coupled NiFe/IrMn/NiFe trilayers

G Gubbiotti, CNR-IOM, Italy

PS.1.093 Propagation of collective spin wave in transversely magnetized bi-component nanowire array

R Silvani, Università di Perugia, Italy

PS.1.094 Micro-focused Brillouin light scattering study of short-wavelength spin waves excited by a tapered stripline

G Carlotti, Università di Perugia, Italy

PS.1.095 Short wavelength spin waves generated by patterned area in thin film of Py

M Zelent, Adam Mickiewicz University in Poznan, Poland

PS.1.096 Molding of spin wave refraction in antidots lattice

J Klos, Adam Mickiewicz University in Poznan, Poland

PS.1.097 Spin wave dynamics in antidot Py lattices of complex geometries

M Zelent, Adam Mickiewicz University in Poznan, Poland

PS.1.098 Frequency selective spin wave channeling in planar magnonic crystal array

S Sheshukova, Saratov State University, Russia

PS.1.099 Spin wave diffraction in side-coupled in-plane magnetized magnonic array

A Sadovnikov, Saratov State University, Russia

PS.1.100 Spin wave scattering at interfaces between commensurate and incommensurate magnetic materials

V Varyukhin, Donetsk Physical and Technical Institute, Ukraine

PS.1.101 Effect of finite interface anisotropy on the spin-wave spectrum of magnonic crystals

V Tkachenko, Donetsk Physical and Technical Institute, Ukraine

PS.1.102 Effect of lattice structure on spin-wave dynamics of honeycomb artificial spin ice

D Arroo, Imperial College London, UK

PS.1.103 Theory of plane spin wave emission from a rectangular anisotropy defect

N Whitehead, University of Exeter, UK

PS.1.104 Magnonic band structure of domain wall magnonic crystals

D Wang, Central South University, China

PS.1.105 Spin waves in self-similar aperiodic structures – Fibonacci sequence versus Thue-Morse sequence

J Klos, Adam Mickiewicz University in Poznan, Poland

PS.1.106 Mapping the graded magnonic index due to non-uniform magnetic configurations

C Davies, University of Exeter, UK

PS.1.107 Superdirected spin wave beam

E Lock, Kotelnikov Institute of Radio Engineering and Electronics of Russian Academy of Sciences

PS.1.108 Gapless polariton spectra in rare earth magnonic crystals

M Vasconcelos, Universidade Federal do Rio Grande do Norte, Brazil

Optically driven spin excitations, magneto-optics and magnetoplasmonics

PS.1.109 Polarization-dependent and polarization-independent effects under the laser-induced domain wall motion

M Logunov, Kotelnikov Institute of Radio Engineering and Electronics of RAS, Russia

PS.1.110 Resonant phonon driving of magnetization precession in a ferromagnetic phononic nanoresonator

A Salasyuk, Ioffe Institute, Russia

PS.1.111 Element-selective investigation of the femtosecond spin dynamics in Ni_xPd_{1-x} magnetic alloys in the extreme ultraviolet spectral range

S-G Gang, Forschungszentrum Jülich, Germany

PS.1.112 Small angle X-ray scattering of nanoscale transient magnetic gratings

D Weder, Max-Born-Institute Berlin, Germany

- PS.1.113 Laser control of competing Heisenberg and biquadratic exchange interactions**
M Barbeau, Radboud University, the Netherlands
- PS.1.114 Computer simulations on ultrafast magnetization dynamics in ferrimagnetic DyCo₅**
A Donges, Universität Konstanz, Germany
- PS.1.115 All optical switching in granular ferromagnets due to magnetic circular dichroism**
M Ellis, Trinity College Dublin, Ireland
- PS.1.116 Ultrafast magnetization dynamics and spin transfer torques: non-thermal effects**
K Carva, Charles University in Prague, Czech Republic
- PS.1.117 All-garnet heteroepitaxial magneto-optical photonic crystals**
A Grishin, KTH Royal Institute of Technology, Sweden
- PS.1.118 Magneto-optical enhancement, phase stability and magnetism of the Rh₂M_{n-2} and Ir₂M_{n-2} alloys**
D Legut, IT4Innovations, Technical University of Ostrava, Czech Republic
- PS.1.119 Magnetoelectric effect and influence of light on the magnetoelectric effect in diamagnetic sillenites**
K Filar, Polish Academy of Sciences
- PS.1.120 Magneto-optical properties of doped aluminophosphate glasses**
M Valeanu, National Institute of Materials Physics, Romania
- PS.1.121 Development of in situ magneto-ellipsometry for studying correlation between the optical, magnetic and magneto-optical properties of ferromagnetic thin films**
O Maximova, Kirensky Institute of Physics, Russia
- PS.1.122 Visualisation of electric dipole matrix elements in Brillouin zone**
R Silber, Technical University of Ostrava, Czech Republic
- PS.1.123 Magnetic response of surface plasmon polaritons in silver/Heusler alloy/silver films**
Y Ashizawa, Nihon University, Japan
- PS.1.127 Compositional dependence of interfacial order in exchange biased systems**
R Carpenter, Seagate, UK
- PS.1.128 An insight of magnetic metal/insulator interfaces**
S J Carreira, Comisión Nacional de Energía Atómica, Argentina
- PS.1.129 Domain wall chirality determination in thin films with interfacial DMI**
K Fallon, University of Glasgow, UK
- PS.1.130 A variable variance Preisach model for multilayers with perpendicular magnetic anisotropy**
A Felipe Franco, Universidad Técnica Federico Santa María, Chile
- PS.1.131 Electronic structure of the Co(0001)/MoS₂ interface from first principles investigations**
T Garandel, LPCNO/CEMES, France
- PS.1.132 Multi-layered materials for magnetic shielding in microwave applications**
J McClung, Queen's University Belfast, UK
- PS.1.133 Imaging defects in magnetic multilayers using scanning electron microscopy**
E Jackson, University of York, UK
- PS.1.134 Tuning the CoFeB/MgO interface magnetic anisotropy energy**
A Kaidatzis, NCSR Demokritos, Greece
- PS.1.135 Fabrication of orientation-controlled nanocomposite Nd₂Fe₁₄B/Mo/-Fe multilayer films**
K Kobayashi, Yamagata University, Japan
- PS.1.136 Magnetic anisotropy in Co/Pt multilayers: density functional theory and experiments**
G Varvaro, ISM – CNR, Italy
- PS.1.137 Effect of less-stable magnetic regions at the interface of exchange-bias bilayers on the blocking temperature distributions: a Monte Carlo investigation**
D Ledue, Groupe de Physique des Matériaux, France
- PS.1.138 Positron annihilation spectroscopy of ion and laser irradiation driven spin reorientation transitions in Pt/Co/Pt systems**
M O Liedke, Helmholtz-Zentrum Dresden-Rossendorf e.V., Germany
- PS.1.139 Preparation of epitaxial FePt/Co and FePd/Co bi-layer films on MgO single-crystal substrates with different orientations**
R Ochiai, Chuo University, Japan
- PS.1.140 Ga⁺ irradiation driven changes of magneto-optical spectra of Co ultrathin films with Pt and Au interfaces**
L Ohnoutek, Charles University, Czech Republic

Magnetic thin films, surface, interfaces and patterned thin films

- PS.1.124 Research one-dimensional resonance dynamics of the domain walls in multilayer ferromagnetic structure**
R Kudryavtsev, Bashkir State University, Russia
- PS.1.125 Exchange-bias in terms of the magnetization reversal fields**
VMTS Barthem, Universidade Federal do Rio de Janeiro, Brazil
- PS.1.126 Effect of substrate temperature in FePt/FeRh bilayers**
C Barton, University of Manchester, UK

- PS.1.141 Static and dynamic properties of [hkl] low-symmetry quasiperiodic magnetic multilayers**
C H Oliveira Costa, Universidade Federal do Ceará, Brazil
- PS.1.142 The influence of ferromagnetic clusters progressive blocking on exchange anisotropy in [CoO/Co/Pd] multilayers**
M Perzanowski, Institute of Nuclear Physics, Polish Academy of Sciences
- PS.1.143 Magnetic properties of multilayers based on anisotropic Heisenberg films with dipolar long-range interaction**
P Prudnikov, Omsk State University, Russian Federation
- PS.1.144 Ferromagnetic Mn-implanted GaP: microstructures vs magnetic properties**
M Sawicki, Institute of Physics, Poland
- PS.1.145 Exchange in perpendicular Pt/Co thin films: using domain wall creep motion to probe the Dzyaloshinskii-Moriya interaction and Heisenberg exchange stiffness**
P Shepley, University of Leeds, UK
- PS.1.146 Effect of segregation of sp-impurities on surface and grain boundary magnetism in nickel and cobalt**
M Sob, Masaryk University, Czech Republic
- PS.1.147 Metastable fcc/bcc Fe thin films for focused ion beam direct patterning of multicomponent magnetic metamaterials**
M Urbánek, Brno University of Technology, Czech Republic
- PS.1.148 Pinned magnetic moments in exchange bias: role of the antiferromagnetic bulk spin structure**
M Yaqoob Khan, Kohat University of Science & Technology (KUST), Pakistan
- PS.1.149 Thermally driven magnetic structures**
A Schäffer, Martin Luther University, Germany
- PS.1.150 CoPd antidots on nanoporous Al₂O₃ and TiO₂ templates: interrelation between microstructure, Co atom chemical environment and magnetic properties**
Y Zabala, Institute of Nuclear Physics, Polish Academy of Sciences
- PS.1.154 Magnetic interactions in structural modifications of functional Mn-Ga alloys**
S Khmelevskiy, Vienna University of Technology, Austria
- PS.1.155 Unique magnetic symmetry group of spin glass state, fibre bundle classification of fundamental magnetic structures including SGS: application to explain experiments**
J Warczewski, University of Silesia Institute of Physics, Poland
- PS.1.156 Investigation of the domain structure in magnetic alloys and bi-layers using resonant magnetic soft X-ray scattering**
R Adam, Research Centre Juelich, Germany
- PS.1.157 Systematization of magnetic domains in amorphous microwires**
A Chizhik, Universidad del Pais Vasco, Spain
- PS.1.158 Controlled domain wall dynamics in rapidly solidified amorphous nanowires**
T-A Ovari, National Institute of Research and Development for Technical Physics, Romania
- PS.1.159 μ SR and neutron diffraction investigations on itinerant ferromagnet CeCrGe₃**
D Das, Indian Institute of Technology Kanpur, India
- PS.1.160 Magnetic structures and crystal field excitations in CePd₂Al₂ and CePd₂Ga₂**
M Klicpera, Institut Laue-Langevin, France
- PS.1.161 Magnetic and Kondo behaviour in Ce₈Pd₂₄(Al_{1-x}Sn_x) alloys system**
M Tchoula Tchokonte, University of the Western Cape, South Africa
- PS.1.162 Spin density wave behaviour in the (Cr_{98.4}Al_{1.6})_{100-x}Mo_x and (Cr_{100-y}Al_y)₉₅Mo₅ alloy series**
C Sheppard, University of Johannesburg, South Africa
- PS.1.163 Structure and magnetic properties of Sm_{1-x}Zr_xFe₁₀Si₂ (x = 0.2–0.5) ribbons**
D Niarchos, NCSR Demokritos, Greece
- PS.1.165 Structural and magnetic studies of the series R_(1-x)T_xCo_(5-y)Fey (R = Y, Sm, T = Zr)**
D Niarchos, NCSR Demokritos, Greece
- PS.1.166 Antiferromagnetism in ordered and disordered full Heusler compounds**
B Nagyfalusi, Budapest University of Technology and Economics, Hungary
- PS.1.167 Rapidly quenched Co₂Mn_{0.75}Fe_{0.25}Sn Heusler alloy for spintronic applications**
L Galdun, Pavol Jozef Šatárik University, Slovakia
- PS.1.168 Magneto-optical spectroscopy of ferromagnetic Fe-Mn-Ga Heusler alloys**
L Beran, Charles University in Prague, Czech Republic

Magnetism in alloys and intermetallics

- PS.1.151 Singular point detection: an evergreen technique for hard magnetic materials**
R Cabassi, IMEM CNR, Italy
- PS.1.152 Influence of temperature, magnetic field and doping on ferromagnetic characteristics of narrow-band systems with correlated hopping**
Y Skorenkyy, Ternopil National Technical University, Ukraine
- PS.1.153 Ab initio theory of the Gilbert damping in random alloys**
I Turek, Institute of Physics of Materials, Academy of Sciences, Czech Republic

- PS.1.169 Defects and magnetic structure of CuMnSb**
F Maca, Institute of Physics ASCR, Czech Republic
- PS.1.170 Optical and magneto-optical spectroscopy of $\text{Co}_2\text{FeGa}_{0.5}\text{Ge}_{0.5}$ thin films**
D Kral, Charles University in Prague, Czech Republic
- PS.1.171 Bulk and local properties of intermetallic GdAgSn compound**
K Latka, Jagiellonian University, Poland
- PS.1.172 Magnetic and electronic properties of selected RT_xGe_2 compounds**
A Gil, Jan Dlugosz University, Poland
- PS.1.173 Magnetic properties and magnetocaloric effect on $\text{Tb}_{8-xy}\text{Co}_{16}$ compounds**
R Tetean, Babes-Bolyai University, Romania
- PS.1.174 Suppression of ferro-ferro transition in $\text{Sc}_{0.35}\text{Ti}_{0.65}\text{Fe}_2$ intermetallic compound under high pressure**
Z Arnold, Institute of Physics AS CR, Czech Republic
- PS.1.175 Uniaxial pressure effect on magnetization process of ferromagnetic domains in a tensile deformed Pt_3Fe antiferromagnet**
S Kobayashi, Iwate University, Japan
- PS.1.176 Computational high-throughput: a new, powerful experimental tool**
M Zic, Trinity College Dublin, Ireland
- PS.1.177 Study and characterization of soft magnetic materials for beam intensity monitors at CERN**
S Aguilera, CERN/EPFL, Switzerland

Poster Session B

Materials for energy (permanent magnets, magnetocalorics, soft magnetic materials)

- PS.2.001 Atomistic spin dynamics and temperature dependent properties of $\text{Nd}_2\text{Fe}_{14}\text{B}$**
R Evans, University of York, UK
- PS.2.002 TEM analysis and micromagnetic study of nano- and microcrystalline Nd-Fe-B magnets**
J Fidler, Vienna University of Technology, Austria
- PS.2.003 Calculation of the magnetic properties of rare earth mixed $\text{R}_{(2-x)}\text{R}'_x\text{Fe}_{14}\text{B}$ intermetallic compounds**
G Gomez, Neel Institute/CNRS, France
- PS.2.004 The influence of short time heat treatment on the microstructure and magnetic behaviour of the SmCo_5/α -Fe nanocomposite obtained by mechanical milling**
R Hirian, Babes-Bolyai University, Romania
- PS.2.005 Recycling of rare earth permanent magnet scrap material by hydrogen treatment routes: from waste selection to magnet recycling**
A Lixandru, Fraunhofer Institut für Silicatforschung (ISC), Germany
- PS.2.006 Relationship between degree of grain alignment and angular dependence of coercivity in Nd-Fe-B sintered magnets**
T Maki, Hitachi Metals, Japan
- PS.2.007 Mössbauer study of $\text{Zr}_{1-x}\text{Ce}_x\text{Fe}_{10}\text{Si}_2$ alloys with the ThMn_{12} structure**
A Martín-Cid, Fundación BC Materials, Spain
- PS.2.008 Tailoring soft magnetic properties of sputtered FineMET thin films for high frequency power applications**
A Masood, Tyndall National Institute, Ireland
- PS.2.009 Local structure of Cu in $\text{Fe}_{83.3}\text{Si}_4\text{B}_8\text{P}_4\text{Cu}_{0.7}$ nanocrystalline alloy studied by XAFS**
T Miyanaga, Hirosaki University, Japan
- PS.2.010 Theoretical analysis of Cu addition effects in Nd-Fe-B magnets**
Y Tatetsu, University of Tokyo, Japan
- PS.2.011 Investigations on microstructure and magnetic properties of low-cost hybrid magnets**
R-Q Wang, Sichuan University, China
- PS.2.012 Effect of long-term thermal aging on magnetic hysteresis for low-alloy pressure vessel steel**
S Kobayashi, Iwate University, Japan
- PS.2.013 Spin Seebeck effect in Fe_3O_4 thin films for energy harvesting**
K Morrison, Loughborough University, UK

- PS.2.014 Development of high-speed switched reluctance motor for electric power tools**
K Nakamura, Tohoku University, Japan
- PS.2.015 Modeling of heat transfer processes in Co-doped Ni-Mn-In magnetic wires**
O Pavlukhina, Chelyabinsk State University, Russia
- PS.2.016 Magnetic circuit model combined with play model obtained from LLG equation**
H Tanaka, Tohoku University, Japan
- PS.2.017 Accuracy improvement of magnetic hysteresis calculated by LLG equation**
H Tanaka, Tohoku University, Japan
- PS.2.018 Calculating the magneto-elastic anisotropy across grain boundary interfaces**
S Westmoreland, University of York, UK
- PS.2.019 Influence of La substitutions on the magnetic after-effect in hexaferrites and garnets**
P Hernandez-Gomez, University of Valladolid, Spain
- PS.2.020 $Mg_{1-x}Zn_xFe_2O_4$ nanoparticles: interplay between cation distribution and magnetic properties**
F Mazaleyrat, Université Paris Sarclay, France
- PS.2.021 Micromagnetic evaluation of the heat dissipation in magnetic nanowires**
O Chubykalo-Fesenko, Instituto de Ciencia de Materiales de Madrid, Spain
- PS.2.022 Enhancement of perpendicular magnetic anisotropy in $FeCoZr-CaF_2$ nanocomposite films by combined influence of nanoparticles oxidation and ion irradiation**
V Fedotova, Belarusian State University
- PS.2.023 Exchange bias and training effect in ultrasmall core-shell cobalt ferrite nanoparticles**
F Silva, Universidade de Brasília, Brazil
- PS.2.024 Core-shell mixed Zn-Co ferrite nanoparticles: synthesis, structural and magnetic properties**
G Gomide, Universidade de Brasília, Brazil
- PS.2.025 Influence of coating thickness on the magnetic properties of iron-oxide nanoparticles**
D González-Alonso, Universidad de Cantabria, Spain
- PS.2.026 Maximizing exchange-bias fields in isolated Co-CoO core-shell nanoparticles by lattice matching between shell and matrix**
J A Gonzalez, Universidad de Castilla La Mancha, Spain
- PS.2.027 Surface-induced modification of Tc in $(La,Sr)MnO_3$ nanocrystals**
C Hintze, Karlsruhe Institute of Technology, Germany
- PS.2.028 Magnetic dipolar structures of small nanoparticle clusters**
M Kure, Technical University of Denmark, Denmark
- PS.2.029 Magnetic properties of CoTb nanoparticles prepared by MS-LECBD**
D Le Roy, CNRS/University Lyon 1, France
- PS.2.030 Magnetic and plasmonic properties of CoAg nanoparticles embedded in a matrix**
D Le Roy, CNRS/University Lyon 1, France
- PS.2.031 High coercivity of strontium-hexaferrite nanoparticles prepared by thermal treatment method**
N Mohd-Saiden, University Putra Malaysia (withdrawn)
- PS.2.032 Structure and magnetic properties of Fe nanoparticles embedded in a Cr matrix**
T Qureshi, ISM – CNR, Italy
- PS.2.033 Effect of the oxygen content in the reaction environment on size and shape of $CoFe_2O_4$ nanoparticles: morphological analysis by aspect maps**
G Varvaro, ISM – CNR, Italy
- PS.2.034 Super spinglass state in a diluted nanoparticle system stabilized by interparticle interactions mediated by an antiferromagnetic matrix**
D Fiorani, ISM – CNR, Italy
- PS.2.035 Magnetic decoupling in $CoFe_2O_4@SiO_2@Fe_3O_4$ nanoparticles**
B Rivas-Murias, University of Vigo, Spain
- PS.2.036 Magnetic nanoparticles supracrystals as candidates for the superferromagnetic state**
V Russier, CNRS, France
- PS.2.037 Spin structures in iron oxide hollow nanoparticles**
F Sayed, Institut des Molecules et Matériaux Du Mans (IMMM), France
- PS.2.038 Synthesis, phase composition, Mössbauer and magnetic characterizations of iron oxide nanoparticles**
S Sharma, UFMA, Brazil
- PS.2.039 Liquid phase synthesis of ordered L_{10} FePt nanoparticles induced by the addition of Bi**
G Hadjipanayis, University of Delaware, USA
- PS.2.040 Size-dependent ferromagnetism in bare gold nanoclusters**
A Venäläinen, University of Helsinki, Finland

Nanoparticles and interfaces, nanomaterials and molecular magnetism

Biomagnetism and medical applications

- PS.2.041 Magnetic nanoparticles detection in hyperthermia application**
H Chiriac, National Institute of Research and Development for Technical Physics, Romania
- PS.2.042 Structural, magnetic and optical properties of $MgFe_2O_4$ nanoparticles crystallized from borate glass**
S El Shabrawy, Otto-Schott Institute of Material Research, Germany
- PS.2.043 Ferromagnetic resonance in the ethmoid bones of salmon and silver carp**
S Gorobets, National Technical University of Ukraine "KPI", Ukraine
- PS.2.044 Magnetic nanoparticles with shape anisotropy for in vitro mechanically-induced necrosis of human malignant cells**
H Chiriac, National Institute of Research and Development for Technical Physics, Romania
- PS.2.045 Anisotropic ferromagnetic polymer for use in microfluidic systems**
D Le Roy, CNRS/University of Lyon 1, France
- PS.2.046 Evaluation of $La_{1-x}Sr_xMnO_3$ ($0 \leq x < 0.4$) synthesised via a modified sol-gel method as mediators for magnetic fluid hyperthermia**
S Bennington-Gray, Queen's University Belfast, UK
- PS.2.047 The expression levels of genes encoding homologs of magnetosome island proteins of magnetotactic bacteria in various human tissues and organs**
O Gorobets, National Technical University of Ukraine
- PS.2.048 Hop-on and hop-off – dynamics of motion of superparamagnetic beads on magnetic surfaces**
R B Holländer, Kiel University, Germany
- PS.2.049 Ultrafast hyperthermia with Fe_3O_4 nanoparticle-clusters**
G Hadjipanayis, University of Delaware, USA
- PS.2.050 Effect of the shape of the distribution of anisotropy constants on hysteresis losses for magnetic hyperthermia applications**
G Vallejo Fernandez, University of York, UK
- PS.2.051 Hyperthermia performance of core/shell nanoparticles: a Monte Carlo study**
M Vasilakaki, NCSR Demokritos, Greece
- PS.2.052 Effects of magnetic stress on cell mechanics**
V Zablotskii, Institute of Physics, Czech Republic

Perovskites, multiferroics, artificial/composite multiferroics

- PS.2.053 Voltage control of magnetisation in magnetostrictive Galfenol bilayer thin films**
D Prasad Pattnaik, University of Nottingham, UK
- PS.2.054 Control of magnetoelectric properties in thin composite system**
J-W Kim, Korea Institute of Materials Science, Republic of South Korea
- PS.2.055 Mechanisms of anisotropy control by strain in $FePt/BaTiO_3$**
L Steren, Centro Atomico Constituyentes, Argentina
- PS.2.056 Field tunability and thickness dependence of domain pattern transfer in multiferroic heterostructures**
D López González, Aalto University, Finland
- PS.2.057 Magnetoelectric coupling between ultrathin Fe films and $[Pb(Mg_{1/3}Nb_{2/3})O_3]_{(1-x)}[PbTiO_3]_x$, $x = 0.32$ (001) (PMN-PT)**
S R Avula Venkata, Paul Scherrer Institut (PSI), Switzerland
- PS.2.058 The effects of multiple anisotropy axes on magneto-electric coupling in multiferroic composites**
S Bourn, Jeremiah Horrocks Institute for Mathematics, UK
- PS.2.059 Magnetic coupling at the interface between a multiferroic and a soft ferromagnet by X-ray resonant magnetic scattering**
N Jaouen, Synchrotron SOLEIL, France
- PS.2.060 Large magnetoelastic coupling in magnetic ferroelectric $(LaMn_3)Mn_4O_{12}$**
M Verseils, IMPMC-UPMC Paris 6, France
- PS.2.061 Investigation of the multiferroicity in Eu_2CoMnO_6 and Ce_2CoMnO_6**
C Miclea, National Institute of Materials Physics, Romania
- PS.2.062 Study of negative magnetization, exchange bias and magnetization switching of rare earth chromites**
P-Gupta, National Chemistry Laboratory, India (withdrawn)
- PS.2.063 An exploration of creating a mixed valence state of Cu in $(CuCl)LaNb_2O_7$**
K Ji, University of Edinburgh, UK
- PS.2.064 Control of the magnetic configurations in magnetostrictive nanostructures across the metal-insulator phase transition of VO_2 imaged with X-ray microscopy**
S Finizio, Paul Scherrer Institut, Switzerland
- PS.2.065 A polarised soft X-ray study of Co-Ti substituted M-type magnetoelectric hexaferrites**
J Beevers, University of York, UK

- PS.2.066 Force minimization and first-principle spin-lattice dynamics**
D Thonig, Uppsala University, Sweden
- PS.2.067 Manipulating the RKKY coupling strength by electric fields**
R Lavrijsen, Eindhoven University of Technology, the Netherlands
- PS.2.068 Spin dependant tunnelling in ultrathin Schottky junctions based on $\text{La}_{0.66}\text{Sr}_{0.33}\text{MnO}_3/\text{SrTiO}_3:\text{Nb}$ interfaces**
M Pannetier-Lecoecur, CEA Saclay, France
- PS.2.069 The calculation of output characteristics of the multiferroic spin-torque nanooscillators**
A Safin, National Research University, Russia
- PS.2.081 Efficient chiral domain wall motion with fields and currents**
K Lee, Johannes Gutenberg University, Germany
- PS.2.082 Dynamics of chiral walls under non-collinear currents: a micromagnetic analysis**
E Martinez, University of Salamanca, Spain
- PS.2.083 Skyrmion resonance in bilayer system**
Y Masaki, University of Tokyo, Japan
- PS.2.084 Investigation of the spin-pumping effect in epitaxially grown Fe/MgO/Pt systems**
L Mihalceanu, TU Kaiserslautern, Germany
- PS.2.085 Transverse thermomagnetic transport on a skyrmion lattice**
A Mook, Max Planck Institute of Microstructure Physics, Germany
- PS.2.086 Spin-orbit effects in bulk Ge and at metal/Ge interfaces**
A Marty, CEA, France
- PS.2.087 Skyrmions with different topological charges in ultrathin films**
L Rózsa, Wigner Research Centre for Physics of the Hungarian Academy of Sciences
- PS.2.088 Toward accurate calculation of diffusive spin transport starting from realistic Hamiltonians. Applications to electrons, polaritons, and holes**
V Sacksteder, Royal Holloway University of London, UK
- PS.2.089 Skyrmions and spin spirals in canted and in-plane magnetic fields investigated by scanning tunnelling microscopy**
L Schmidt, University of Hamburg, Germany
- PS.2.090 Numerical study on the collective motion of antiferromagnetic skyrmion**
Y Shimada, Toho University, Japan
- PS.2.091 Relativistic effects in antiferromagnets**
L Šmejkal, Institute of Physics, Czech Republic (withdrawn)
- PS.2.092 Probing the Dzyaloshinskii-Moriya interaction in CoFeB ultrathin films using domain wall creep and Brillouin light spectroscopy**
J-P Adam, Université Paris Sud, France
- PS.2.093 Minimal radius of magnetic skyrmions: statics and dynamics**
E Vedmedenko, University of Hamburg, Germany
- PS.2.094 Berezinskii-Kosterlitz-Thouless transition and duality transformation in chiral helimagnets**
I Proskurin, Hiroshima University, Japan
- PS.2.070 Room temperature study of magnetic skyrmions in nanostripes by magnetic force microscopy**
K Garcia, Unité Mixte de Physique CNRS/Thales and Université Paris Sud, France
- PS.2.071 Observation of inverse spin Hall effect in wurtzite n-GaN:Si**
R Adhikari, Johannes Kepler University, Austria
- PS.2.072 Asymmetric merons at room temperature: experiments and simulation**
L M Alvarez-Prado, University of Oviedo, Spain
- PS.2.073 Measuring surface moment density of an antiferromagnet using a single spin magnetometer**
P Appel, University of Basel, Switzerland
- PS.2.074 Theoretical screening for suitable skyrmion materials**
A Bergman, Uppsala University, Sweden
- PS.2.075 Magnetic bubbles in Au/Co/Pd trilayers**
C Bouard, CEA, France
- PS.2.076 Room temperature chiral magnetic skyrmions in ultrathin magnetic nanostructures**
S Pizzini, Institut Néel, CNRS, France
- PS.2.077 Imaging of current-induced switching of an antiferromagnet**
M Grzybowski, Polish Academy of Sciences
- PS.2.078 Assessing the Dzyaloshinskii-Moriya interaction by magnetic force microscopy in thin multilayers supporting magnetic skyrmions**
H J Hug, Swiss Federal Laboratories for Materials Testing and Research, Switzerland
- PS.2.079 Linear and circular Fe L-edge X-ray dichroism on (Ga, Fe)N: element specific magnetometry including the antiferromagnetic components**
D Arvanitis, Uppsala University, Sweden
- PS.2.080 Millisecond time resolved imaging of skyrmion dynamics**
R Lamb, Glasgow University, UK

Spin orbitronics, spintronics in antiferromagnets and skyrmions

Magnetism and spin transport in graphene/h-BN, carbon based and organic materials

- PS.2.095 Influence of a C_{60} ultrathin layer in LSMO/STO/Co tunnel junction**
I Bergenti, CNR-ISMN, Italy
- PS.2.096 Magnetic properties of functionalized molecules/cobalt hybrid thin films**
S M Cherif, Université Paris 13-Nod, France
- PS.2.097 Towards large area and high quality few-layer-thick transition metal diselenides with uniform magnetic doping**
A Marty, INAC-SPINTEC CEA Grenoble, France
- PS.2.098 Spinterface based on LSMO and T_6**
P Graziosi, CNR-ISMN, Italy
- PS.2.099 Room temperature magneto-transport properties in oxidized-graphenic nanoplatelets and thin films extracted from bamboo**
K Gross, CENM-Universidad del Valle, Colombia
- PS.2.100 Comparison of heavy metal adsorption properties using magnetite-graphene oxide and magnetite-reduced graphene oxide**
S Lee, Korea Electronics Technology Institute, Republic of South Korea
- PS.2.101 Room temperature manipulation of long lifetime spins in metallic-like carbon nanospheres**
B Nafradi, EPFL/IPMC, Switzerland
- PS.2.102 Frequency-dependent conductance of a single molecular magnet coupled to ferromagnetic leads**
A Plominska, Adam Mickiewicz University, Poland
- PS.2.103 Visualizing chemical states and defects induced magnetism of graphene oxide by spatially-resolved-X-ray microscopy and spectroscopy**
W-F Pong, Tamkang University, Taiwan
- PS.2.104 Ab-initio calculations of the magnetic properties of metal-doped boron-nitrogen nanoribbon**
J Rufinus, Widener University, USA
- PS.2.105 Magnetic property of fullerene C_{20} : a first-principles study**
I Setiyawati, National Central University, Taiwan
- PS.2.106 Characterization of a volatile particle using a field-induced translation**
C Uyeda, Osaka University, Japan
- PS.2.107 Novel spin injection into graphene**
J Warren, University of Manchester, UK
- PS.2.108 Electron structure and transport at the C_6O/Si and C_6O/Fe_3O_4 interface**
J Zhang, University of York, UK

Magnetic memories and magnetic recording, sensors

- PS.2.109 The impact of damping constant of the soft phase within ECC media for heat assisted magnetic recording**
R Ababei, University of York, UK
- PS.2.110 Micromachined high-frequency magnetoimpedance device for strain and magnetic field sensing**
G Büttel, Saarland University, Germany
- PS.2.111 Effect of high density plasma processes on microstructures and perpendicular magnetic properties of single-layered FePt films**
S U Jen, Ming Chi University of Technology, Taiwan
- PS.2.112 Pulsed laser ablation of exchange-biased metallic spin valves**
S Guddeti, Indian Institute of Science Bangalore, India
- PS.2.113 Structural and magnetic properties of L_{10} FePt/interlayer/ L_{10} FePt trilayers**
G Giannopoulos, NCSR Demokritos, Greece
- PS.2.114 GMR probes for magnetic micro-imaging and non-destructive evaluation**
C Fermon, CEA, France
- PS.2.115 Correlation between crystal planes and disordering of ordered L_{10} FePt structure caused by ion irradiation**
T Hasegawa, Akita University, Japan
- PS.2.116 Magnetostriction measurement system of magnetic thin films with Michelson interference**
N Inaba, Yamagata University, Japan
- PS.2.117 Magnetostrictive materials for aerospace applications**
N Morley, University of Sheffield, UK
- PS.2.118 CoFe-microwires with stress-dependent magnetostriction as embedded sensing elements**
M Salem, National University of Science and Technology, Russia
- PS.2.119 A micromagnetic study of spin wave eigenmodes in magnetic tunnel junction: influence of the edges shape and tilt of magnetic field**
M Pauselli, Università degli Studi di Perugia, Italy
- PS.2.120 Skyrmionic signal reshuffler**
D Pinna, Unité Mixte de Physique CNRS/Thales, France
- PS.2.121 Magnetic field induced broadband absorption in the mixed phase of metamagnets**
M Pregelj, Jozef Stefan Institute, Slovenia
- PS.2.122 A model of spin torque transfer (STT) in a non-zero temperature system described by path-integral formalism**
J Talbot, University of Manchester, UK
- PS.2.123 Switching field and resolution of MFM tips prepared by coating Fe/ Co_{50} Pt $_{50}$ magnetic thin films**
Y Tomita, Chuo University, Japan

PS.2.124 Anisotropy phase-graded L_{10}/A_1 FePt films on amorphous glass substrates

G Varvaro, ISM – CNR, Italy

PS.2.125 Magnetic memory-magnetic logic integrated device

X Zhang, Tsinghua University, China

Spin waves, magnonics and dynamics

PS.2.126 Brillouin light scattering study of Dzyaloshinskii-Moriya interaction in CoFeB films with perpendicular magnetic anisotropy

S M Cherif, Université Paris 13-Nod, France

PS.2.127 Tuning the mutual synchronization of electrically coupled spin-torque oscillators by selecting the vortex excitation mode

P Talatchian, UMR CNRS/Thales, France

PS.2.128 Manipulation of the dynamical state of dipolarly coupled spin-torque vortex oscillators by an external rf source

X de Milly, CEA, France

PS.2.129 Steering spin pumping with structurally engineered interfaces in Fe/NM (Pt, Au, Pd) bilayers

E Papaioannou, TU Kaiserslautern, Germany

PS.2.130 Microscopic theory of spin-wave spin torque

T Yamaguchi, Nagoya University, Japan (withdrawn)

PS.2.131 Interaction between propagating spin waves and a skyrmion in perpendicularly magnetized nanostripes

S-K Kim, Seoul National University, Republic of South Korea

PS.2.132 Spin-wave modes and domain-wall motions in soft magnetic nanotubes driven by circular-rotating magnetic fields

S-K Kim, Seoul National University, Republic of South Korea

PS.2.133 Planar Hall effect and anisotropic magnetoresistance of magnons in a magnetic insulator

J Liu, University of Groningen, the Netherlands

PS.2.134 Ultra-low-current spin Hall nano-oscillators based on NiFe/W bilayers

J Åkerman, Nanosc AB/Royal Institute of Technology KTH, Sweden

PS.2.135 Estimating the Oersted field in a spin Hall nano-oscillator

A Awad, University of Gothenburg, Sweden

PS.2.136 Controlling spin wave damping in YIG films using spin polarized current

M Haidar, University of Gothenburg, Sweden

PS.2.137 Magneto-dynamical modes in hybrid nano-contact magnetic tunnel junction spin torque oscillators

M Dvornik, University of Gothenburg, Sweden

PS.2.138 Time resolved imaging of coupled nano-contact spin transfer vortex oscillators

E Burgos Parra, University of Exeter, UK

PS.2.139 Measurement of the exchange stiffness in ultrathin perpendicularly magnetized CoFeB layers

T Devolder, CNRS, France

PS.2.140 Homodyne-detected ferromagnetic resonance of in-plane magnetized nano-contacts: composite spin wave resonances and their excitation mechanism

M Dvornik, University of Gothenburg, Sweden

PS.2.141 Nonlinear spin wave excitation at the interface between two ferromagnets with broken spatial inversion symmetry

O Gorobets, Institute of Magnetism, Ukraine

PS.2.142 Tunable magnetization dynamics in interfacially modified $Ni_{81}Fe_{19}/Pt$ bilayer thin film microstructures

A T Hindmarch, Durham University, UK

PS.2.143 Evolution of damping in ferromagnetic/nonmagnetic thin film bilayers as a function of nonmagnetic layer thickness

S Azzawi, Durham University, UK

PS.2.144 Anderson localization of spin waves in chiral magnets in momentum space: coherent back- and forward scattering

M Evers, University of Konstanz, Germany

PS.2.145 Spectrum of spin waves in an elliptical helix

V Tkachenko, Donetsk National University, Ukraine

PS.2.146 Propagation of surface acoustic waves in epitaxied and magnetostrictive $Fe_{1-x}Ga_x$ thin films

M Marangolo, Institut des Nanosciences de Paris, France

Magnetic thin films, surface, interfaces and patterned thin films

PS.2.147 Study the effect of growth parameters on magnetostrictive amorphous FeGaSiB thin films

Q Aldulaim, University of Sheffield, UK

PS.2.148 Reconfigurable exchange bias-like effect in hybrid hard/soft patterned magnetic composites

L M Alvarez-Prado, University of Oviedo, Spain

PS.2.149 Magnetic characterization of $Fe(FeO_x)/Ir(IrO_x)$ multilayers grown by magnetron sputtering

E Arias, ICMA, Spain

PS.2.150 Time-resolved holography with extended reference by autocorrelation linear differential operator (HERALDO) imaging of nano-scale magnetic vortex dynamics

N Bukin, University of Exeter, UK

PS.2.151 Untangling the contributions of cerium- and iron- to the magnetism of Ce-doped yttrium iron garnet

B Casals, ICMAB-CSIC, Spain

PS.2.152 Magnetic and transport properties of Co/Pd multilayers deposited in nanodomains

J Denardin, Universidad de Santiago, Chile

- PS.2.153 Exchange biased Py/Py-oxide antidot arrays: effect of morphology on magnetic properties**
A Fedotov, Belarusian State University, Belarus
- PS.2.154 Inducing anisotropy in rare earth free alternate layers [Fe-Co/Au-Cu]_n, coherently grown on MgO(100) substrates**
D Niarchos, NCSR Demokritos, Greece
- PS.2.155 Asymmetry in anomalous Hall effect measurements of bilayer magnetic islands**
R Griffiths, University of Manchester, UK
- PS.2.156 Ferromagnetic resonance modes in interlayer-exchange-coupled films and nano-dot arrays**
X Hu, Physikalisch-Technische Bundesanstalt, Germany
- PS.2.157 Modification of magnetization orientation in Pt/Co/Pt ultrathin films by single and multiple femtosecond laser pulses**
J Kisielewski, University of Bialystok, Poland
- PS.2.158 In-situ polarised neutron reflectometry during thin film growth**
W Kreuzpaintner, Technical University of Munich, Germany
- PS.2.159 Fe layer induced ferromagnetism in Pd: an in-situ polarised neutron reflectometry study**
S Mayr, Technical University of Munich, Germany
- PS.2.160 Variation of magnetic domain structure in Pt/Co/Pt film driven by ion irradiation**
P Mazalski, The Jerzy Haber Institute of Catalysis and Surface Chemistry of the Polish Academy of Sciences
- PS.2.161 FORC analysis of a FeRh thin film deposited on an ordered matrix of Ni nanowires**
G Pessotto, University of São Paulo, Brazil
- PS.2.162 Preparation of FePt alloy thin films on cubic (001) oxide single-crystal substrates**
M Nakamura, Chuo University, Japan
- PS.2.163 Imaging of patterned ferromagnetism in Ne⁺ irradiated FeAl thin films by advanced Lorentz TEM microscopy**
M Nord, University of Glasgow, UK
- PS.2.164 Microstructure analysis of Co thin film grown on Au underlayer with island-like surface**
M Ohtake, Kogakuin University, Japan
- PS.2.165 Behavior of the antiferro-ferromagnetic transition in a FeRh thin film layer coupled to Ni nanowires**
G Pessotto, University of São Paulo, Brazil
- PS.2.166 Domain wall spin structures in mesoscopic Fe rings**
Benjamin Borie, Johannes Gutenberg University, Germany
- PS.2.167 Effect of deposition conditions on the magnetic anisotropy of La_{0.7}Sr_{0.3}MnO₃ thin films**
J Milano, CIQUS, Spain
- PS.2.168 The role of anti-site disorder and oxygen vacancies in post-annealed Sr₂FeMoO₆ thin films**
M Saloaro, University of Turku, Finland
- PS.2.169 Modification of Pt/Co/Pt ultrathin trilayers with UV laser pulse irradiation**
W Szuszkiewicz, Institute of Physics Polish Academy of Sciences, Poland
- PS.2.170 Magnetic behaviour of FePt films in CD and Si patterned substrates**
M Vasilakaki, NCSR Demokritos, Greece
- PS.2.171 Direct observation of magnetic domain propagations in TbFeCo dots thin films**
Y Wang, University of York, UK
- PS.2.172 Magnetic properties of artificially designed magnetic landscapes in laterally confined exchange-biased layers**
D Mitin, University of Augsburg, Germany

Poster Session C

Magneto-transport, spin electronics, topological insulators

PS.3.001 Domain wall propagation by spin transfer torque in ferrimagnetic alloys

J Sampaio, CNRS, France

PS.3.002 Three-dimensional Dirac semimetal and magnetic quantum oscillation in Cd_3As_2

F Orbanic, University of Zagreb, Croatia

PS.3.003 Direct evidence for minority spin gap in the Co_2MnSi Heusler compound

T Hauet, Université de Lorraine/Institut Jean Lamour, France

PS.3.004 Magnetic and electrical transport properties of CE/CA substituted perovskite oxides

M P Sharma, Guru Ghasidas Vishwavidyalaya, India

PS.3.005 Direct views on the origin of anisotropic magnetoresistance in thin films and multilayered structures

F Ajejas, IMDEA Nanoscience Institute, Spain

PS.3.006 Magnetotransport properties of nanogranular $\text{Co}(c = 0.2) \text{Bi}_{(1-c)}$ thin films

T Speliotis, NCSR Demokritos, Greece

PS.3.007 Calculation of CPP-magnetoresistance for magnetic multilayered structures

V Prudnikov, Omsk State University, Russian Federation

PS.3.008 Transport properties and spintronics devices made from rare earth nitrides

B Ruck, Victoria University of Wellington, New Zealand

PS.3.009 Tunneling magnetoresistance of the half-metallic compensated ferrimagnet $\text{Mn}_2\text{Ru}_x\text{Ga}$

P Stamenov, Trinity College Dublin, Ireland

PS.3.010 Dynamic and magnetotransport properties of perpendicularly magnetized CoFeB magnetic tunnel junctions

S M Cherif, Université Paris 13-Nord, France

PS.3.011 Super-harmonic injection locking of a nano-contact spin-torque vortex oscillator

P Keatley, University of Exeter, UK

PS.3.012 The HSPICE model of magnetoresistive cell based on different magnetic heterostructures current-driven by spin-torque phenomena

N Djuzhev, National Research University of Electronic Technology (MIET), Russia

PS.3.013 First-principles finite-bias spin-transfer torque in magnetic tunnel junctions

M Galante, Trinity College Dublin, Ireland

Materials for energy (permanent magnets, magnetocalorics, soft magnetic materials, Heusler alloys)

PS.3.014 Transition width and magnetocaloric properties in $(\text{Ni}, \text{Co})_2\text{MnGa}(\text{In})$ metamagnetic Heusler alloys

F Albertini, IMEM-CNR, Italy

PS.3.015 Characteristic temperatures metamagnetic phase transition in Heusler alloy $\text{Ni}_{43}\text{Mn}_{38}\text{In}_{12}\text{Co}_7$

M Alexey, Kotelnikov Institute of Radio-Engineering and Electronics of RAS, Russia

PS.3.016 Magnetovolume contribution to the magnetocaloric effect in compressible Heisenberg lattices: application to Gadolinium

J Amaral, Universidade de Aveiro, Portugal

PS.3.017 Magnetocaloric effect in rare-earth nanostructures

D Anselmo, Universidade Federal do Rio Grande do Norte, Brazil

PS.3.018 Effect of replacing Pr with La on structural, magnetic and magnetocaloric properties in $(\text{La}_{1-x}\text{Pr}_x)_{0.85}\text{Ag}_{0.15}\text{MnO}_3$ ($0.0 \leq x \leq 0.5$) manganites

A Osman Ayaş, Adiyaman University, Turkey

PS.3.019 The magnetocaloric effect of (Gd, Ca) manganites based on magnetic transition entropies

A Beiranvand, Turku University, Finland

PS.3.020 Challenges and opportunities for magnetic refrigeration and thermal management: thermal conductivity of magnetocaloric materials

A Davarpanah, University of Aveiro, Portugal

PS.3.021 Structural, magnetic and magnetocaloric properties of the $\text{NiMn}_{1-x}\text{Cr}_x\text{Ge}$ compounds

K Dyakonov, Ioffe Institute, Russia

PS.3.022 On the coercivity of the novel BCT Fe-Co-Si phase: a density functional theory study

J N Gonçalves, Universidade de Aveiro, Portugal

PS.3.023 Monoborides – potential candidates for the use in thermomagnetic generators

O Gutfleish, TU Darmstat, Germany

PS.3.024 Tuning phase transitions and the magnetocaloric effect of $\text{La}(\text{Fe}, \text{Si})_{13}$ alloys

P Shamba, University of Sheffield, UK

PS.3.025 Estimates of the magnetocaloric effect in $(\text{Nd}, \text{Ca})\text{MnO}_3$ based on magnetic transition entropies

J Tikkanen, University of Turku, Finland

- PS.3.026 Magnetic properties and microstructure of FINEMET powder prepared by ball milling in the presence of oleic acid or stearic acid as controlling milling agents**
G Ababei, National Institute of Research and Development for Technical Physics (NIRDTP), Romania
- PS.3.027 Pseudo core-shell powders like permalloy/rhometal type**
I Chicinas, Technical University of Cluj-Napoca, Romania
- PS.3.028 AC magnetic properties of composite materials based on the mixture of two different ferromagnets**
L Hegedus, P J Šafárik University, Slovakia
- PS.3.029 Ni-Mn-Sn Heusler: milling and annealing effect on structural and magnetic properties**
F Popa, Technical University of Cluj-Napoca, Romania
- PS.3.030 A semi-empirical approximation of static hysteresis for high flux densities in highly grain-oriented silicon iron**
C Carrander, KTH Royal Institute of Technology, Sweden
- PS.3.031 Nanoscale structural investigations, cations distribution and oxidation states in bi-magnetic core-shell ferrite nanoparticles**
J Depeyrot, Universidade de Brasilia
- PS.3.032 Comparison of soft magnetic materials for DC chokes applications**
A Van den Bossche, Ghent University, Belgium
- PS.3.033 Influence of operating frequency on design of power electronics transformers**
A Van den Bossche, Ghent University, Belgium
- Frustrated and disordered magnetism including spin ice**
- PS.3.034 Nature of the spin-glass phase in dense packings of Ising dipoles with random anisotropy axes**
J J Alonso, Universidad de Malaga, Spain
- PS.3.035 Controlled size broadening in a dense ensemble of maghemite nanoparticles and its impact on magnetic properties**
M Andersson, Uppsala University, Sweden
- PS.3.036 Control over magnetisation states of nanostructures via injection of 360 degree domain walls**
J Carter Gartside, Imperial College London, UK
- PS.3.037 Field induced magnetic phase transitions on β -CoV₂O₆ polycrystals**
A J A de Oliveira, Universidade Federal de São Carlos, Brazil
- PS.3.038 Broken vertex symmetry and finite zero-point entropy in the artificial square ice ground state**
S Gliga, ETH Zurich, Switzerland
- PS.3.039 Instabilities of spin-liquid states in a quantum kagome antiferromagnet**
M Pregelj, Jožef Stefan Institute, Slovenia
- PS.3.040 Magnetic anisotropy of unconventional magnetic phases in the frustrated zigzag spin-1/2 chain system β -TeVO₄**
M Herak, Institute of Physics, Croatia
- PS.3.041 Composition and ordering dependent antiferromagnetic properties of IrMn alloys**
S Jenkins, University of York, UK
- PS.3.042 Magnetostatic interaction effect on the magnetization switching in one-dimensional magnonic quasicrystals**
M Krawczyk, Adam Mickiewicz University, Poland
- PS.3.043 Energy surface and rates of the thermal transitions in hexagonal elements of spin ice**
S Liashko, ITMO University, Russia
- PS.3.044 Micromagnetic studies of frustrated arrays of gadolinium islands**
S Felton, Queen's University Belfast, UK
- PS.3.045 Effect of A/B site substitution on magnetic properties of nickel chromite**
C J Sheppard, University of Johannesburg, South Africa
- PS.3.046 Thermal relaxation of sub-100 nm island Py artificial spin ice using magnetometry**
S Morley, University of Leeds, UK
- PS.3.047 The existence of long-range order in n-component vector models with defects of "random local field" type**
A Sigov, Moscow Institute of Physics and Technology, Russia
- PS.3.048 Magnetic relaxation in $S = 1/2$ XY frustrated antiferromagnet Er₂Ti₂O₇**
M Orendac, P J Safarik University, Slovakia
- PS.3.049 Magnetic phase diagram of Cu(en)(H₂O)₂SO₄ – a quasi-two-dimensional quantum magnet with XYh2 symmetry**
A Orendacova, P J Safarik University, Slovakia
- PS.3.050 Spin anisotropy in CutnCl₂: a quasi-two-dimensional S = 1/2 spatially anisotropic triangular-lattice antiferromagnet**
R Tarasenko, P J Safarik University, Slovakia
- PS.3.051 Frustration and topological defects in hexagonal networks with weak perpendicular magnetic anisotropy**
L M Alvarez-Prado, University of Oviedo, Spain
- Perovskites, multiferroics, artificial/composite multiferroics**
- PS.3.052 Exceptional role of Ge₄₊ in combined substitution for manganese in manganites**
D Merkulov, Astrakhan State University, Russia
- PS.3.053 Suppression of charge and antiferromagnetic ordering in Ga-doped La_{0.4}Ca_{0.6}MnO₃**
I-G Deac, Babes-Bolyai University, Romania
- PS.3.054 Unconventional exchange-bias effect in electron doped polycrystalline Sm_{0.1}Ca_{0.6}Sr_{0.3}MnO₃ and ErFeO₃ single crystal**
A Wisniewski, Institute of Physics, Poland

- PS.3.055 Influence of structural disorder on charge and orbital order in overdoped single-layered manganites**
J Engelmayer, University of Cologne, Germany
- PS.3.056 Transport properties of Ru doped YMnO₃ Compound**
R K Thakur, Barkatullah University, India
- PS.3.057 Thermodynamic properties of solid oxide fuel cell (SOFC) cathode material—La_{1-x}Sr_xCoO_{3-d}**
R Thakur, Barkatullah University, India (withdrawn)
- PS.3.058 Doping dependent magnetism and exchange bias in CaMn_{1-x}Re_xO₃**
V Markovich, Ben-Gurion University of the Negev, Israel
- PS.3.059 Exchange bias driven by the structural/magnetic transition in Mn-doped SrRuO₃**
I Fita, Polish Academy of Sciences, Poland
- PS.3.060 Crystallization of bismuth iron perovskite films for ferroelectric and magneto-optical composite prepared by metal oxide deposition technique**
N Adachi, Nagoya Institute of Technology, Japan
- PS.3.061 Thermodynamic and raman evidence of strong magnetoelastic coupling in the mixed valence quadruple perovskite NaMn₃Mn₄O₁₂**
V Pascotto Gastaldo, IMPMC – UPMC, France
- PS.3.062 Magnetic behavior of multiferroic Bi_{0.9}OYb_{0.10}FeO₃ and Bi_{0.9}OLa_{0.1}OFeO₃**
J Dragović, University of Zagreb, Croatia
- PS.3.063 Magnetic induced anisotropy in BiFeO₃ thin films deposited over Si substrates**
G Gomez, Centro Brasileiro de Pesquisas Físicas (CBPF) – Brazilian Center for Physics Research
- PS.3.064 Angular-dependent magnetic properties of interfacial exchange-coupled ferromagnetic and multiferroic BiFeO₃ thin films**
F Ajejas, IMDEA Nanoscience Institute, Spain
- PS.3.065 Pr_{1-x}Ca_xMnO₃ thin films deposited on lithium niobate**
J Oliveira, Universidade do Minho, Portugal
- PS.3.066 Cation distribution in perovskite-like ScCo_{1-x}Fe_xO₃ cobaltites-ferrites studied by ⁵⁷Fe Mössbauer spectroscopy**
A Sobolev, Lomonosov Moscow State University, Russia
- PS.3.067 Magnetic anisotropy enhancement of La_{0.7}Sr_{0.3}MnO₃ thinfilms grown on BaTiO₃**
F Bern, Leipzig University, Germany
- PS.3.068 Structural, optic and magneto-optic properties of PrMn_{1-x}Fe_xO₃ perovskites**
R Ješko, VSB - Technical University of Ostrava, Czech Republic
- PS.3.069 Magneto-optical investigation of strain induced magnetization changes in nanostructures of La_{2/3}Sr_{1/3}MnO₃**
M Zahradnik, Charles University of Prague, Czech Republic
- PS.3.070 Linear and quadratic magneto-optical effects observed in La-Sr and Pr-Sr hole doped manganites in transmitted light**
O Maximova, Kirensky Institute of Physics SB RAS, Russia
- Micromagnetics, magnetization processes**
- PS.3.071 Magnetic behavior of SiO₂ opals with embedded Fe and Ni nanoparticles**
C E Avila-Crisóstomo, Meritorious Autonomous University of Puebla, Mexico
- PS.3.072 Avalanche size statistics during ultra-slow creep motion in magnetic thin films with perpendicular magnetic anisotropy**
S Bustingorry, Centro Atómico Bariloche – CONICET, Argentina
- PS.3.073 Models of relaxation and thermal activation in low dimensional magnetic spin systems**
L Desplat, University of Glasgow, UK
- PS.3.074 Gas impurity-related excess magnetization of europium metal**
V Dikovskiy, Ben Gurion University of the Negev, Israel
- PS.3.075 Quantitative scaling of magnetic avalanches in soft materials**
G Durin, Ist. Nazionale di Ricerca Metrologica (INRIM), Italy
- PS.3.076 High-resolution component-resolved vectorial Kerr magnetometry**
L Flajsman, Brno University of Technology, Czech Republic
- PS.3.077 Thermodynamics of Ising and Heisenberg lattices from the Monte Carlo random path sampling method**
N Fortunato, CICECO University of Aveiro, Portugal
- PS.3.078 Control of magnetic vortex core position in a nano-scale permalloy disc patterned with antidots**
A Laurensen, University of Exeter, UK
- PS.3.079 Deterministic chaos and symmetry breaking in a nucleation of magnetic vortex structure**
K-S Lee, Ulsan National Institute of Science and Technology (UNIST), Republic of South Korea
- PS.3.080 Analytical modelling of magnetic domain wall pinning due to local variation in anisotropy in PMA materials**
S A Nasser, ISI Foundation, Italy
- PS.3.081 Studies on variations in the industrial magnetization process**
M Ortner, Carinthian Technical Research, Austria
- PS.3.082 Micromagnetic and domain structures in the region of a second order phase transition in iron garnet crystals**
S Pamyatnykh, Ural Federal University, Russia
- PS.3.083 Manipulating the chirality of vortex domain walls with mechanical strain**
A Rushforth, University of Nottingham, UK

- PS.3.084 Evolution of bubble domain wall in the presence of Dzyaloshinskii-Moriya interaction**
B Sarma, ISI Foundation, Italy
- PS.3.085 Micromagnetic dynamics of vortex spin-torque diode**
P Skirdkov, Moscow Institute of Physics and Technology (State University), Russia (withdrawn)
- PS.3.086 Effect of microstructural properties on magnetization dynamics and iron loss utilizing an energy-based lamination model of non-oriented electrical steel**
S Steentjes, RWTH Aachen University, Germany
- PS.3.087 Influence of Co and spacer (Au or Mo) layers thicknesses on magnetic domain structures and magnetization reversal processes**
Z Kurant, University of Białystok, Poland
- PS.3.088 Monitoring Bloch points using winding number in micromagnetic simulations**
C Thirion, CNRS, France (withdrawn)
- PS.3.089 New calculations of Gilbert damping in ferromagnetic transition metals**
D Edwards, Open University, UK
- PS.3.090 Magnetic anisotropy in the surface region of amorphous silicates**
C Uyeda, Osaka University, Japan
- PS.3.091 Vortex nucleation modes in permalloy nanodisks studied by anisotropic magnetoresistance and by magnetic imaging**
M Vaňatka, Brno University of Technology, Czech Republic
- PS.3.092 An averaging collective coordinate approach to interpret field-driven domain wall dynamics in magnetic nanostrips with DMI**
J Vandermeulen, Ghent University, Belgium
- PS.3.093 The study of the magnetic interaction in nanosized $Ni_{1-x}Zn_xFe_2O_4$ ferrites**
S Aliyeva, ANAS institute of Physics, Azerbaijan
- PS.3.094 An accessible ferromagnetic resonance model for heterogeneous multilayer structures with interlayer exchange interaction**
A Felipe Franco, Universidad Técnica Federico Santa María, Chile
- PS.3.095 FMR studies of (Co/Pd) multilayer films**
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Spin waves, magnonics and dynamics

Magnetic thin films, surface, interfaces and patterned thin films

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