# Poster Presentations: Poster Session 1 Tuesday

| Poster Board No. | First Name | Last Name | Organisation | Paper Title |
|---|---|---|---|---|
| **Applications: Biomimetic, neuromorphic, reservoir and probabilistic computing, Sensors, Recording and memories, Energy, Qubits** | | | | |
| 1 | Sachin | Gupta | University of Leeds | Electrically Switchable Ferromagnetic Josephson Junctions for Cyrogenic Memory |
| 3 | Volodymyr | Kruglyak | University of Exeter | Machine Learning using Chiral Magnonic Neurons |
| 5 | Yuto | Takatsu | University of Tsukuba | Theoretical Study of Application of Bi-2212 Cuprate Thin Film to Quantum Devices |
| **Novel Characterisation Techniques: Photon, Neutron, Electron, Magnetometry, Imaging, Spectroscopies and Time-resolved studies** | | | | |
| 7 | Christy | Kinane | ISIS | Structrual and Magnetic Depth Profiling of Magnetic Thin Films with the POLREF Reflectometer |
| 9 | Jan | Rhensius | QZabre | High Resolution Tabletop NV Magnetometry |
| 11 | Rui | Yu | University College London | Tailoring unusual Ferrimagnetism of Rare-Earth Iron Garnet via Graphene Interlayers |
| **Phenomena: Novel surface-interface behaviour, Emergent behaviour, Electric and voltage control, Anisotropy, Exchange bias and springs, DMI, skyrmions** | | | | |
| 13 | Jaehun | Cho | DGIST | The effects of magnetic field annealing on the magnetic properties of Co thin films |
| 15 | Robert | Frömter | Johannes Gutenberg University Mainz | Homochiral antiferromagnetic merons, antimerons and bimerons realized in synthetic antiferromagnets |
| 17 | Soumyarup | Hait | University of Leeds | Impact of the spin-orbit torque source and buffer layer on driving skyrmion dynamics in ultrathin magnetic multilayers |
| 19 | Dian Putri | Hastuti | National Institute of Advanced Industrial Science And Technology | The first and second-order magnetic anisotropy in multilayer Co/h-BN heterostructure |
| 21 | Ankit | Kadian | University of Delhi | Effect of Interfacial Exchange on Anisotropy and Magnetization Dynamics of Permalloy/L10-FePt Bilayers |
| 23 | Dominik | Legut | VSB - Technical University of Ostrava | Antiferromagnetic exchange coupling across transition metal films alloyed with magnetic elements |
| 25 | Naëmi | Leo | Loughborough University | Interfacial spin canting in a ferromagnetic metal-semiconductor bilayer |
| 27 | Byoung-Chul | Min | Korea Institute of Science and Technology | Electric-field control of magnetism using hafnia-based ferroelectrics |
| 29 | Lukas | Nowak | Charles University | Tailoring magnetic properties of Pt/Co/Pt via in-situ Ar+ ion irradiation |
| 31 | John Christopher | Osborne | University of Leeds | Optimisation of magnetic multilayers for surface acoustic wave-driven skyrmion motion |
| 33 | Servet | Ozdemir | University of Leeds | Observation of frustration and anomalous Nernst effect in metallo-molecular Kondo spin lattices |
| 35 | Debi | Rianto | Durham University | Enhanced Proximity-Induced Magnetization via interactions between two Pt/FM interfaces and the impact on Interlayer Coupling in FM/Pt/FM Systems |
| 37 | Ivan | Tarasov | University of Duisburg-Essen | Epitaxial Mn3−xGaC Antiperovskite / Fe bilayers: Control of magnetocaloric properties by exchange coupling |
| **Quantum Materials: Topological systems, Dirac, Weyl, Superconductor, Low dimensional, van der Waals materials** | | | | |
| 39 | Callum | Brennan-rich | University of Leeds | Phase mapping of Magnetic FexSn1-x Thin Films |
| 41 | Daniel | Burrow | University of Manchester | Enhancement of spin signal via spin-dependent electron optics in graphene |
| 43 | Mairbek | Chshiev | Spintec, University Grenoble Alpes, Cea, Cnrs | Field-Free Spin-Orbit Torque Switching in Janus Chromium Dichalcogenides |
| 45 | Ismet | Gelen | University of Leeds | MBE growth of high-quality Bi2Se3 topological insulators on [0001] oriented sapphire substrate and with (Bi, In)2Se3 buffer layer |
| 47 | Ryo | Iijima | Institute of Chemical Research, Kyoto University | Device Width Dependence of Critical Current Density and Superconducting Diode Effect in Nb/V/Ta Artificial Superlattice |
| 49 | Fridrik | Magnus | University of Iceland | Magnetic ordering in Mn2GaC-based nanolaminated MAX and i-MAX phases |
| 51 | Ben | Muggleton | University of Leeds | Phase and Orientation Mapping of Topological Thin Film Heterostructure using 4D-STEM |
| 53 | Zac | Parkin | University of Leeds | Strange metal states and optical tuning in Bi2Se3 with molecular diodes |
| 55 | Xianggang | Qiu | Institute of Physics, Chinese Academy of Sciences | Visualization of skyrmion-superconducting vortex pairs in a chiral magnet-superconductor heterostructure |
| 57 | Kungwon | Rhie | Korea University | Quantum resonance effect in ultrathin Pt films |
| 59 | Abhirami | Saminathan | University of Leeds | Gate-driven studies in InAs/GaSb quantum well devices for the detection of spin-polarised edge states |
| 61 | Nathan | Satchell | Texas State University | Ferromagnetic Materials for Josephson π Junctions |
| 63 | Kanglin | Yu | Beihang University | Coherent magnon transport in a van der Waals antiferromagnet |
| **Simulation and Theory: Micromagnetics, First principles, Quantum compute, Machine learning** | | | | |
| 65 | Bomin | Kim | University of Ulsan | Why Fe3GaTe2 has higher Curie temperature than Fe3GeTe2? |
| 67 | Thomas | Nussle | University of Leeds | Quantum thermal expectation values of spin systems from classical atomistic spin dynamics simulations |

# Poster Presentations: Poster Session 2 Wednesday

| Poster Board No. | First Name | Last Name | Organisation | Paper Title |
|---|---|---|---|---|
| **Functional Materials: Multiferroics, Magneto-optics, Magneto-ionics, Semiconductors and Molecular magnets, Hard magnets, Soft magnets** | | | | |
| 2 | Markus | Goessler | Chemnitz University of Technology | Magneto-ionic control of coupled spin-valve heterostructures |
| 4 | Mi-Jin | Jin | Institute for Basic Science | Strong spin-to-charge conversion driven by interfacial spin orbit coupling at full oxide ferromagnetic / quasi-2-dimensional structures |
| 6 | Nicola | Morley | University of Sheffield | Materials Informatics for Magnetic Thin Film Discovery |
| 8 | Frank | Tsui | Physics and Astronomy, Unc-chapel Hill | Novel molecular beam epitaxy synthesis of Heusler alloy-based short period superlattices |
| **Nanostructures: Patterned, hybrid, self assembly, 3 - Dimensional** | | | | |
| 10 | William | Griggs | University of Manchester | Magnetic imaging of thermally switchable antiferromagnetic/ferromagnetic modulated thin films |
| **Spintronics and Dynamics: Antiferromagnets, Altermagnets, Ultrafast dynamics, Domain wall motion, Magnonics, Spin-orbit torques, Spin transport, Caloritronics, Spin-charge conversion and other conversion phenomena** | | | | |
| 12 | Unnar | Arnalds | University of Iceland | Spin Polarization Profile and Terahertz Emission in Pt/(Amorphous CoAlZr) Bilayers and Multilayers Deposited via Magnetron Sputtering |
| 14 | Dirk | Backes | Diamond Light Source | Magnon-Magnon Coupling in a Pinned Synthetic Antiferromagnet |
| 16 | Christopher Elliot Alexander | Barker | National Physical Laboratory | Skyrmion motion in a synthetic antiferromagnet by asymmetric spin wave emission |
| 18 | Ben | Brereton | University of Leeds | Growth of chiral magnetic multilayers on topological insulator Bi2Se3 epilayers and observation of hosted spin textures |
| 20 | Jaeha | Choi | Pusan National University | Exploring the Magnetic and Topological Properties of $Mn_3Ga$ Films |
| 22 | Guang-yu | Guo | National Taiwan University | Nonlinear electric generation of magnetization in time-reversal-even centrosymmetric metals |
| 24 | | | | |
| 26 | Julia | Herrero-Albillos | Universidad de Zaragoza. INMA (CSIC-UZ) | Morphology and dynamics of domains and domain walls through asymmetric hole density-graduated 2D-arrays |
| 28 | Sohei | Horibe | University of Tokyo | Nonlinearly excited magnetization fluctuation in a nanoscale magnetic tunnel junction |
| 30 | Alexandra | Howzen | Texas State University | Development and Characterization of RuO2 and Mn5Si3 Altermagnetic Heterointerfaces for Applications in Josephson Junctions |
| 32 | Mae | Jankowski | University of Leeds | Bismuth ferrite-lead titanate thin films for an investigation of the effects of the morphotropic phase transition on magnetic properties |
| 34 | Keyu | Jing | Zhejiang University | Current-driven domain wall motion in ferrimagnetic nanowires |
| 36 | June-seo | Kim | DGIST | Magnetic domain wall-based spin torque majority gates: from domain wall input to full logic operations |
| 38 | Kitae | Kim | Seoul National University | Structure engineering of spin-sink for huge self-spin swapping effect |
| 40 | Minhwan | Kim | Seoul National University | Median Mishaps between Domain-Wall Chirality and Spin-Orbit Torque via Hysteresis Loop Shifts |
| 42 | Sanghoon | Kim | University of Ulsan | Neuromorphic behavior of Mn3Sn–based spin orbit torque device |
| 44 | Colin | Kirkbride | University Of Glasgow | Observation of a hybrid skyrmion domain texture in a Ga+ irradiated SAF system |
| 46 | Malena | Martinez Cameros | University of Leeds | Enhancing spin signals in pure spin currents |
| 48 | Shuto | Sahara | Kyushu University | Observation of Spin Seebeck Effect in YIG/Pt-Rh |
| 50 | Jiho | Shin | Seoul National University | Direct Observation of Plateau Formation in Ultrafast Spin-Orbit-Torque Driven Magnetization switching |
| 52 | Masamune | Taguchi | Kyushu University | Flexible magnetic sensor fabricated by drop casting method using multilayered film ink |
| 54 | Laura | Van Schie | Eth Zurich | Investigating Variation in Domain Wall Properties of RE-TM Ferrimagnets at the Compensation Point via Scanning NV Magnetometry |
| 56 | Garima | Vashisht | University of Leeds | Weak anti-localization in Bi implanted Cu devices |
| 58 | Maria | Velez | Universidad de Oviedo | Current induced thermally activated propagation of domain walls in NdCo5/Ni8Fe2 reconfigurable racetracks: exchange-bias and statistics |
| 60 | Yizheng | Wu | Fudan University | Real-time optically imaging the antiferromagnetic domain switching in CoO(001) films |
| 62 | Naoto | Yamashita | Kyushu University | Magnon Transport in Thulium Iron Garnet Fabricated by Radio-Frequency Magnetron Sputtering |
| 64 | Takumi | Yamazaki | Tohoku University | Quantitative measurement of figure of merit for transverse thermoelectric conversion in Fe/Pt metallic multilayers |
| 66 | Zhe | Yuan | Fudan University | Orbital-excitation-dominated magnetization dissipation and quantum oscillation of Gilbert damping in Fe films |