

Magnetism 2024 Poster Presentations

Poster Board No.	Name	Paper Title
1	Sahar Alimohammadi	Exploring magnetic domain wall movement and pinning in Permalloy nanowires by magnetic force microscopy
2	Mohammad Alneari	Current-induced resonance in finite length magnetic nanowires
4	Mustafa Aziz	Electromagnetic wave induced resonance in cylindrical magnetic nanotubes
5	Ashna Babu	Flux jumps, cluster distribution model and vortex phase diagram of oxygenated Al-YBCO single crystal
6	Maha Badahdah	Coherent Phonon Stimulated Fast Inverse Spin Hall Effect in Pt:YIG
7	Callum Brennan-rich	Growth and Structure of Fe ₃ Sn ₂ Intermetallic Alloy Thin Films
8	Ben Brereton	Topological insulator/magnetic multilayer heterostructures for skyrmion dynamics
9	Daniel Burrow	Ballistic spin injection via 1D nanomagnet/graphene interfaces
10	Andrew Caruana	Refl1d: Advanced Neutron and X-ray reflectivity modelling with Bayesian Uncertainty analysis
12	Zhengfei Chen	Reproducible reservoir computing with thermally driven superparamagnets: controlling temperature sensitivity
13	Henry De Libero	Exploring spin-orbit torques on 50nm WS ₂ /ferromagnet heterostructures
14	Manuel Dos Santos Dias	Complex magnetism and spin dynamics of Mn ₅ Si ₃ and Mn ₅ Ge ₃
15	Marios Georgiou	Multi-Q magnetic phases from frustration and chiral interactions
16	Amitava Ghosh	Anisotropy in magnetism and magnetocaloric effect in Gd ₂ NiMnO ₆ double perovskite thin films
18	Emma Gilroy	Enhanced Non-Reciprocity of SAW-FMR in Magnetic Multilayer Films
19	Will Griggs	Analogue and digital circuit design for computing with skyrmionic artificial synapses
20	Will Griggs	Towards experimental realization of zero-field skyrmionic artificial synapses
22	Dirk Honecker	Nanomagnetism seen with neutrons: Small-angle Neutron Scattering
23	Fumiyuki Ishii	First-Principles Calculation of Surface Anomalous Nernst Effect in Antiferromagnet
24	Mae Jankowski	Bismuth ferrite-lead titanate films for an investigation of the effects of the morphotropic phase transition on magnetic properties
25	Paul Keatley	Magneto-optical Kerr effect characterisation of static and dynamic processes in a Thulium Iron Garnet film
26	Megan Kelly	Magnetic contacts to probe helical edge states in InAs/GaSb coupled quantum wells
27	Christy Kinane	Structural and Magnetic depth profiling of Magnetic Thin Films with the POLREF reflectometer
29	Volodymyr Kruglyak	Magneto-acoustic metamaterials: From bulk to surface acoustic waves
30	Anna Kusmartseva	Pressure-induced, strain-tuned Kondo response in Pd ₂ MnIn Heusler alloy
31	Anna Kusmartseva	Triple coil setup for studies of magnetic properties at high pressure
32	Naëmi Leo	Perspectives for Light-Controlled Nanomagnetic Computing via Magneto-Thermoplasmonics
33	Malena Martínez Cameros	Enhancing spin signals in pure spin currents
35	Noora Naushad	Developing novel magnetic L10 alloys for spintronics
36	Thomas Nussle	Quantum thermal expectation values from an effective atomistic spin dynamics model using path integrals.
37	John C. Osborne	Optimisation of magnetic multilayers for surface acoustic wave-driven skyrmion motion
40	Dan Porter	Recent Developments on Materials & Magnetism Beamline, I16 at Diamond Light Source Ltd
41	Connor Sait	Testing the capacity of microcoil devices for pulsed magnetisation reset in pump-probe measurements
42	Abhirami Saminathan	Tuning into the Quantum Spin Hall Insulator state of InAs/GaSb quantum well
43	Alessandro Sola	Transverse thermoelectric materials obtained by powder metallurgy
45	Charles Swindells	Multi-Output Heterogeneous Magnetic Nanoring Arrays for High-dimensional Reservoir Computing
46	Guru Venkat	Exploring physical and digital architectures in magnetic nanoring array reservoir computers
47	Zhengming Wu	Thermal scanning probe lithography for nanoscale magnetic domain switching