Programme: Tuesday 24 June 2025

8:00 AM - 8:45 AM	Registration and Arrival Refreshments
8:45 AM - 9:00 AM	Welcome by Sven Friedemann, University of Bristol, UK (Room: G.H05. Sponsored by Kiutra)
9:00 AM - 10:00 AM	Plenary Speaker: Christopher Marrows, University of Leeds, UK (Room: G.H05. Sponsored by Kiutra) Skyrmions in chiral magnetic multilayers
10:00 AM - 10:30 AM	Morning Break
10:30 AM - 12:50 PM	Superconductivity I (IOP SC Group) (Room: G.H05. Sponsored by Kiutra) 10:30 AM - 11:00 AM Sun-Woo Kim (Invited Speaker): Predictive Modeling of Superconductors: From High-Pressure Hydrides to Nickelates 11:00 AM - 11:20 AM Harry Morgan: Understanding quantum materials through chemical bonding models 11:20 AM - 11:40 PM Andreas Rost: Superconducting phases of CeRh2As2 in clean microcrystals 11:40 AM - 12:00 PM Thomas Sheerin: Higher-harmonic superconductivity driven by van Hove singularities in the third-nearest-neighbour square-lattice Hubbard model 12:00 PM - 12:05 PM Andreas Rost: IOP Superconductivity Thesis Prize Introduction 12:20 PM - 12:50 PM Sam Cross (IOP Superconductivity Thesis Prize Talk): High-temperature superconductivity in thin-film metal hydrides at megabar pressures
	10:30 AM - 11:00 AM Peter Wadley (Invited Speaker): Altermagnetism imaged and controlled down to the nanoscale 11:00 AM - 11:20 AM Habib Rostami: Collective Excitations in Altermagnets: A Fermi Liquid Approach 11:20 AM - 11:40 AM Clifford Hicks: Triangular antiferromagnetism under uniaxial stress: a study of PdCrO2 11:40 AM - 12:00 PM George Wood: A Magnon Band Analysis of GdRu2Si2 in the Field-Polarised State 12:00 PM - 12:20 PM Leonie Woodland: From continuum excitations to sharp magnons via transverse magnetic field in the spin-1/2 Ising-like triangular lattice antiferromagnet Na2BaCo(PO4)2 12:20 PM - 12:50 PM Andreas Kreisel (Invited Speaker): Minimal Models for Altermagnetism: Mechanisms and experimental consequences

	Nanoscale and 2D (Room: G.HO1)
	10:30 AM - 11:00 AM Graham Baker (Invited Speaker): Size-restricted magneto-transport in PdCoO ₂ 11:00 AM - 11:20 AM Joshua Coop: Manipulating quantum states in multi-gated 1D systems 11:20 AM - 11:40 AM Vivek Kumar: Investigation of correlation effects mediated by impurity in a one-dimensional quantum wire via dc source-drain bias spectroscopy 11:40 AM - 12:00 PM Yingshi Duo: Quantised conductance in one-dimensional quantum wires 12:00 PM - 12:20 PM Elisabeth Bancroft: On-surface bottom-up growth of graphene nanoribbons on SiO2 12:20 PM - 12:50 PM Henry Legg (Invited Speaker): Can we build a topological qubit in 2025?
12:50 PM - 2:15 PM	Lunch
2:15 PM - 4:05 PM	Spin-Orbit (Room: G.H05. Sponsored by Kiutra) 2:15 PM - 2:45 PM Aleksandra Krajewska (Invited Speaker): Spin-orbital phases in 4d pyrochlore oxides 2:45 PM - 3:05 PM Daniel Prestwood: Spintronic Kapitza pendulum: dynamical stability by spin transfer 3:05 PM - 3:25 PM Thomas Saunderson: Orbital Rashba induced triplet superconductivity in elemental superconductors 3:25 PM - 3:45 PM Thomas Robinson: A Low Energy uSR study of proximity superconductivity in a high spin orbit coupling semiconductor 2DEG 3:45 PM - 4:05 PM Charlie Freeman: Tunable Ultra-Strong Magnon-Magnon Coupling Approaching the Deep-Strong Regime in a van der Waals Antiferromagnet 2D Materials and Toplogical Devices (Room: LT2) 2:15 PM - 2:45 PM Roman Gorbachev (Invited Speaker): Ultraclean van der Waals Heterostructures 2:45 PM - 3:05 PM Benjamin Dewes: Scalable two-dimensional semiconductors: From photo-gating to deep UV optoelectronics 3:05 PM - 3:25 PM Joshua Thompson: Enhancing optoelectronic devices with exciton topology 3:25 PM - 3:45 PM Amalia Patane: Fast Ultraviolet-C Photonics: Sensing Laser Pulses on Femtosecond Timescales 3:45 PM - 4:05 PM Soumya Sarkar: Ultraclean contacts for two-dimensional spintronic and ferroelectric memory devices

	Strongly Correlated (Room: G.H01)
	2:15 PM - 2:45 PM Igor Markovic (Invited Speaker): Electronic response to a current-induced insulator-to-metal transition in Ca2RuO4 2:45 PM - 3:05 PM Alexandre Chaduteau: Momentum-space modulated symmetries in the Chiral Luttinger liquid 3:05 PM - 3:25 PM Seohyun Kong: Extracting Topological Information from the Interface Green's Function 3:25 PM - 3:45 PM Mingee Chung: Magnetised Haldane Chain 3:45 PM - 4:05 PM Chris Bell: Physics and materials science of elemental uranium thin films and alloys
4:05 PM - 4:30 PM	Afternoon Break
4:30 PM - 5:30 PM	Plenary Speaker: Lilia Boeri, Sapienza Università di Roma, Italy (Room: G.H05. Sponsored by Kiutra) Pressure-quenching as a practical strategy to design new high-Tc conventional superconductors
5:30 PM - 7:30 PM	Poster Session, Exhibition, Drinks Reception and Buffet