

Programme: Friday 27 June 2025

9:00 AM - 10:00 AM	<p>Plenary Speaker: Radu Coldea, University of Oxford, UK Session Chair: Stephen Hayden Room: Priory Road Lecture Theatre (Sponsored by Kiutra) Quantum magnetism in the strong spin orbit regime: experimental challenges and opportunities</p>
10:00 AM - 10:30 AM	<p>Morning Break Room: Priory Road Lecture Theatre Foyer</p>
10:30 AM - 12:00 PM	<p>Frustrated Magnetism and Spin Ice Session Chair: George Wood (Room: Priory Road Lecture Theatre. Sponsored by Kiutra)</p> <p>10:30 AM - 11:00 AM J.C. Séamus Davis: Spinon Mediation of Witness-Spin Dynamics and Ground State in Herbertsmithite 11:00 AM - 11:20 AM Chris Hooley: A generalised Haldane map from the matrix product state path integral to the critical theory of the J1-J2 chain 11:20 AM - 11:40 AM Henry Legg: Determination of spin-orbit interaction via nonlinear transport 11:40 AM - 12:00 PM Graham Van Goffrier: Quantum Spectral Sampling for Quantum Link Models</p>
	<p>2D and Topological Physics Session Chair: Enrico Da Como (Room: LT2)</p> <p>10:30 AM - 11:00 AM Jieyi Liu: Probe valency and magnetism of magnetic topological materials using XMCD 11:00 AM - 11:20 AM Marcin Mucha-Kruczynski: Rhombohedral graphite junctions as physical realisations of topological defects in the Su-Schrieffer-Heeger model 11:20 AM - 11:40 AM Miguel Luque Canete: Phonon-Limited Conductivity of Topological Surface States in Bi₂Se₃ 11:40 AM - 12:00 PM Priya Sharma: Towards a micromechanical qubit based on quantized oscillations in superfluid helium</p>
	<p>Materials for Energy and Chemical physics and Self-Assembly (Room: G.H01)</p> <p>10:30 AM - 11:00 AM Ziwei Wang: Quantifying hydrogen bonding using electrically tunable nanoconfined water 11:00 AM - 11:20 AM Adyant Agrawal: Molecular Insights into Irregular Growth of Salt Crystals: The Role of Charge and Water Structure 11:20 AM - 11:40 AM Mario Antonio Ongkiko: Simulating ²³Na NMR of sodium-ion-modified ZIF-62 glass</p>

12:00 PM - 1:00 PM	Lunch (grab and go) Room: Student Common Room
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