## Quantum Materials Symposium 2019 POSTER PRESENTATIONS

MONDAY 23 SEPTEMBER 2019				
1.	Alessandro Lodi	Devices		
	University of Oxford	Chemical Tuning of Graphene Nanoribbon FETs		
2.	Marein Rahn	Dynamics		
	TU Dresden	Resonant inelastic x-ray scattering as a probe of coherent valence dynamics		
3.	Anuradha Vibhakar	Magnetism		
	University of Oxford	The magnetic structure and spin-flop transition in the A-site columnar- ordered quadruple perovskite TmMn3O6		
4	Sam Garratt	Magnetism		
	University of Oxford	Goldstone Modes in the Emergent Gauge Fields of a Frustrated Magnet		
5.	Shivani Sharma	Magnetism.		
	STFC-RAL	Quadrupole ordering, structural phase transition, and crystal field excitations of YbRu2Ge2		
6.	Hwanbeom Cho	Magnetism		
	University of Oxford	Emergence of Spin-Orbital Entangled Jeff=1/2 State in CuAl2O4		
7.	Simon Clarke	Magnetism		
	University of Oxford	Structures, magnetism and Chemistry of Layered oxide chalcogenides		
8.	Sven Friedemann	Magnetism		
	University of Bristol	Quantum Tricriticality in Ferromagnets		
9.	Pascal Manuel	Magnetism		
	ISIS Pulsed Neutron Source	Gapless spin-liquid state in the structurally disorder-free triangular antiferromagnet NaYbO2		
10.	Simen Sopp	Magnetism.		
	University of Oxford	Millikelvin Torque Magnetometry of Molecular Magnets		
11.	Miska Elliot	Magnetism		
	University of Oxford	Experimental exploration of Dirac magnons in honeycomb magnets		
12.	Jhuma Sannigrahi	Magnetism		
	Loughborough University	Commensurate to incommensurate magnetic phase transition in Honeycomb-lattice pyrovanadate Mn2V2O7		

13.	Hangwen Guo	Magnetism
	Fudan University	Designing emergent functionalities in complex oxides
14.	Aleksandra Krajewska	Magnetism
	Max Planck Institute for Solid State Research	Multiple spin and orbital transitions in new pyrochlore ruthenate In2Ru2O7
15.	Amir Haghighirad	Magnetism
	Karlsruhe Institute of Technology	Lattice and spin dynamics in CrAs
16.	Timothy Ziman	Magnetism
	Institut Laue Langevin and CNRS	Enhanced thermopower and critical fluctuations in antiferromagnetic films
17.	Michael Slota	Magnetism
	Oxford University	Coherence transfer in magnetic graphene nanoribbons
18.	Elliot Christou	Model Systems
	University College London	Lattice symmetry breaking and Dirac fermion quantum criticality
19.	Mikolaj Uryszek	Model Systems
	UCL	Fermionic quantum criticality in two dimensional topological phase transitions
20.	Matthew Trott	Model Systems
	University of St Andrews	Topological superconductivity near Lifshitz transitions in strongly spin- orbit-coupled metals.
21.	Attila Szabó	Model Systems
	University of Cambridge	Seeing beyond the light: Semiclassical simulation of visons and photons in quantum spin ice
22.	Kathryn Boast	Other
	University of Oxford	Outreach and Public Engagement with Quantum Materials Research
23.	Matthias Gutmann	Model Systems
	Rutherford Appleton Laboratory	Crystal structure of CaBaFe4O7
24.	Xiaodong Zhou	Other
	Fudan University	Imaging the nanoscale phase separation in V2O3 with scanning Microwave Impedance Microscope (sMIM)
25.	Rocco Vitalone	Dynamics
	Columbia University	Near-Field Pump Probe Spectroscopy of Mott Insulating Ca2RuO4

## **TUESDAY 24 SEPTEMBER 2019**

1.	Mark Senn	Superconductivity.
	University of Warwick	Improper Ferroelectric Polarisation in a Perovskite driven by Inter-site Charge Transfer and Ordering
2.	Pascal Reiss	Superconductivity.
	University of Oxford	Finite electronic correlations and two-dome superconductivity across a clean nematic quantum phase transition
3.	Zachary Zajicek	Superconductivity.
	University of Oxford	Evolution of the Fermi surfaces and electronic correlations in the high pressure phase of
		FeSe1-xSx
4.	Machteld Kamminga	Superconductivity
	University of Oxford	Tailoring superconducting properties in intercalated layered chalcogenides
5.	Shiv J Singh	Superconductivity. Superconductivity dependence on the growth
	University of Oxford	conditions in the stoichiometric CaKFe4As4
6.	Deepark Singh	Superconductivity
	STFC RAL	Probing the superconducting ground state of noncentrosymmetric superconductors using muon spectroscopy
7.	Ke Zou	Superconductivity.
	University of British Columbia	Superconducting FeSe monolayer on different oxide substrates
8.	Matthew Bristow	Superconductivity
	University of Oxford	Upper critical fields in the nematic superconductor FeSe1-xSx
9.	Miguel Antonio Sulangi	Superconductivity
	University of Florida	Phase Fluctuations and Disorder in the Superconducting Cuprates
10.	Liam Farrar	Superconductivity
	University of Bath	Suppression of superconductivity and enhancement of anisotropy in ultra-thin flakes of FeSe
11.	Kai Liu	Superconductivity
	Renmin University of China	Electronic structures of quasi-one-dimensional cuprate superconductors Ba2CuO3+ $\delta$
12.	Dimitrios	Synthesis
	Alexandropoulos University of Oxford	Integrating multiple spintronic functionalities into single molecules
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13.	Andrew Boothroyd	Тороlоду
	University of Oxford	Evidence for a magnetically-induced Weyl semimetal with a single pair of Weyl nodes
14.	Lapo Bogani	Topology
	University of Oxford	Quantum effects in molecularly-tailored graphene
15.	Cephise Cacho	Topology
	Diamond Light Source	ARPES on microscopic structures at Diamond beamline I05
16.	Kylie MacFarquharson	Superconductivity
	University of Oxford	The effect of K dosing on the electronic structure of superconducting FeSe1-xSx
17.	Peayush Kumar	Superconductivity
		Coexisting pair density wave and superconducting order in underdoped
	Ruhr-University Bochum	cuprates
18.	Roemer Hinlopen	Superconductivity
	University of Oxford	Fermi surface topography of a nematic superconductor FeSe
19.	Y. H. Kwan	Тороlogy
	University Of Oxford	Quantum oscillations probe the Fermi surface topology of the nodal-line semimetal CaAgAs
20.	Oliver Squire	Superconductivity
	University of Oxford	The effects of Co-doping on superconductivity and nematicity in FeSe
21.	Hechang Lei	Topology
	Renmin University of China	Magnetic Topological Semimetals with Kagome Lattices
22.	Glenn Wagner	Other
	University of Oxford	Quantum transport in bilayer graphene near charge neutrality beyond hydrodynamics
23.	Lucian Pascut	Other
	Stefan Cel Mare University, Suceava	Predictive powers of the DFT + eDMFT method for electronic and structural properties