

		Monday 24 November	Tuesday 25 November	Wednesday 26 November	Thursday 27 November	Friday 28 November
		ALL TALKS TO TAKE PLACE AT THE SCHOOL OF PHYSICS - PHYSICS THEATRE				SCHOOL OF PHYSICS G31
8:00	8:45	Gordon Godfrey Workshop Registration				Quantum and Industry Session Registration
8:45	9:00	Workshop Opening Sven Rogge, Dean of Science				Opening Bronwyn Fox, DVC R&I
Session Chair		Susan Coppersmith Stefan Maier	Alex Hamilton Michael Fuhrer	Jesper Levinson David Neilson	Oleg Sushkov Kirrily Rule	Alex Hamilton
						8.45am to 1.30pm Detailed Program will be available shortly
9:00	9:30	Engineering of critical and strong coupling with hybrid metasurfaces	Reconfigurable Quantum Materials for Low-energy Electronics	A new Gross-Pitaevskil approach for exciton superfluids and incompressible supersolids.	Unveiling the hidden secrets of spintronics materials with neutron scattering.	
9:30	9:40	Discussion/Questions	Discussion/Questions	Discussion/Questions	Discussion/Questions	
		Nancy Sandler	Dohun Kim	Bent Weber	Nagarajan Valanoor	
9:40	10:10	Structured light control of two-dimensional Dirac materials.	Versatile tuning and control strategies for spin qubit arrays in silicon	A 2D correlated state in graphene.	Bubble domains in ferroelectrics- What are they even good for?	
10:10	10:20	Discussion/Questions	Discussion/Questions	Discussion/Questions	Discussion/Questions	
10:20	11:00	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	
Session Chair		Tatiana Rappoport	Scott Liles	David Neilson	Oleh Klochan	
		Daisy Wang	Rajib Rahman	Baruch Horovitz	Karina Hudson	
11:00	11:30	Observation of a correlated insulator in the kagome flat band of a tunable 2D electrostatic crystal.	Atomic engineering of spin-orbit coupling in silicon qubits	Randomly twisted bilayer graphene – the cascade transitions.	Germanium quantum wires.	
11:30	11:40	Discussion/Questions	Discussion/Questions	Discussion/Questions	Discussion/Questions	
		Meera Parish	Julie Karel	Ben Powell	Scott Liles	
11:40	12:10	Observation of a correlated insulator in the kagome flat band of a tunable 2D electrostatic crystal.	Probing topology in disordered quantum materials with magnetotransport studies.	Quantum simulation of thermodynamics: Maxwell relations for pair correlations	From Mobility to Fidelity: Demonstrating High-Quality Hole Spin Qubits in a Natural Silicon Foundry Platform	
12:10	12:20	Discussion/Questions	Discussion/Questions	Discussion/Questions	Discussion/Questions	
12:20	14:20	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	
Session Chair		Dimi Culcer	Dohun Kim	Ulrich Zuelicke	Oleg Tretiakov	
		Stephan Rachel	Andrew Wildes	Tatiana Rappoport	Jacques Van Damme	
14:20	14:50	Chiral topological superconductivity in boron-doped Sn/Si(111)	Magnetic interplanar coupling in layered van der Waals Transition Metal-PS3	Disorder-Driven Orbital Transport in Two-Dimensional Materials	Industrially fabricated superconducting quantum circuits - a study of loss and decoherence	
14:50	15:00	Discussion/Questions	Discussion/Questions	Discussion/Questions	Discussion/Questions	
		Jack Engdahl	Zhenxiang Cheng	Kirill Belashchenko	Maja Cassidy	
15:00	15:15	Electron hydrodynamics without boundaries	Design of ferroelectric altermagnets for magnetoelectric coupling	Unconventional spin torques and magnetic spin current sources	Strong coupling of levitating electrons on solid neon.	
15:15	15:20	Discussion/Questions				
		Marcus Goffage				
15:20	15:35	Decoherence of Majorana Qubits from 1/f Noise	Discussion/Questions	Discussion/Questions	Discussion/Questions	
15:35	15:40	Discussion/Questions				
		COFFEE BREAK	Harley Scammell	COFFEE BREAK	COFFEE BREAK	
15:40	16:10		Group theory of STM: classifying symmetry breaking via Bragg peak decomposition			
16:10	16:20		Discussion/Questions			
Session Chair		Kirill Belashchenko	Poster Session in G59/G60 16.20pm	Discussions	Discussions	
		Jimmy Cullen				
16:20	16:35	Quantum correction to the orbital Hall effect and its implications for topological materials.				
16:35	16:40	Discussion/Questions				
		Marco Polini				
16:40	17:10	Investigations of polariton-mediated superconductivity in 2D materials		18:00 - Networking Event Glenmore Hotel		
17:10	17:20	Discussion/Questions				