## FLEET2023 ANNUAL WORKSHOP PROGRAM @FLEETcentre | #FLEET2023

MONDAY 3 JULY Chair: Tích-Lam Nguyễn	
12:30	Lunch & Registration
13:30	Wominjeka! Michael Fuhrer
14:00	Tutorial - Twisty 2D materials: history, current status and open questions: <b>Shaffique Adam</b>
15:00	Invited - Atomistic self-assembly of nanostructure in liquid metals: Nicola Gaston
15:30	Tea break
	Chair: Jan Seidel
16:00	Legacy and impact: Tích-Lam Nguyễn
16:30	Publishing trends & the peer-review process: Esther Levy
17:15	Invited - Berry curvature and strong light-matter coupling in liquid crystal microcavities with perovskites: Mateusz Król
17:45	Collaborative meetings   Free time
18:15	Dinner - Heritage Ballroom
TUES	SDAY 4 JULY Chair: Michael Fuhrer
9:00	Invited - The concept of the brain: Michael Ibbotson
10:00	Research themes 1AB overview: Alex Hamilton
10:30	Tea break
	Chair: Baoyue Zhang
11:15	RT3 - The emergence of superfluidity in ultracold Fermi gases : Emma Laird (virtual)
11:30	RT2 - Polaritons in an excitonic reservoir: Kenneth Choo
11:45	RT1AB - Engineering order-disorder transitions at the surface of topological insulators: <b>Abdulhakim Bake</b>
12:00	RTIAB - Strong electron correlations in a two-dimensional kagome metal organic framework: <b>Ben Lowe</b>
12:15	RTIAB - Proton intercalation induced phase transitions in van der Waals materials: <b>Cheng Tan</b>
12:30	RTIAB - Imaging the breakdown and restoration of topological protection in magnetic TI $\text{MnBi}_2\text{Te}_4$ ; Mark Edmonds
12:45	Lunch - The Larder   Executive Committee Meeting - Observatory
14:15	Lawn Bowling   Collaborative meetings   Free time
16:00 17:45	Poster Session - Convention Foyer
17:45	Collaborative meetings   Free time Dinner - Heritage Ballroom
	DNESDAY 5 JULY Chair: Alex Hamilton
9:00	Tutorial - Exciton polaritons: Eliezer Estrecho
10:00	Invited - Spatially indirect exciton condensates: Francois Peeters
10:30	Tea break
	Chair: Meera Parish
11:15	Research theme 2 overview: Jeff Davis
11:45	RT2 - Bose-Einstein condensation effects in semiconductor lasers: Maciej Pieczarka
12:00	RT3 - Fermi polaron approach to doped atomically thin semicon- ductors: Jesper Levinsen
12:15	RTIAB - Electrochemical deposition of metal tellurides using liquid metal autogenous surface potential for effective electrochemical sensing - Mechanism, characterisation & performance: Maedeh- sadat Mousavi
12:30	RT1AB - Fingerprint oscillations in a bulk-insulting 3D topological insulator: <b>Weiyao Zhao</b>
12:45	Lunch - The Larder
	ONESDAY 5 JULY Chair: Jeff Davis
14:15	What can I do to create an inclusive culture: Winitha Bonney
15:45	Tea break
16:15	Poster Session - Convention Foyer

WED	NESDAY 5 JULY	
17:45	Collaborative meetings   Free time	
18:15	Group Photo	
18:45	Conference Dinner - Convention Centre   Quiz: Mitko Oldfield	
THURSDAY 6 JULY		
9:00	Collaborative meetings   Free time	
10:30	Tea break	
	Chair: Dimi Culcer	
	Invited - Apparent strange metal behaviour in small angle twisted	
11:00	bilayer graphene: Shaffique Adam	
11:30	Research theme 3 overview: Kris Helmerson	
12:00	RT3 - Higgs oscillations in a strongly interacting Fermi gas : <b>Paul Dyke</b>	
12:15	RT2 - Wave packet dynamics and emergent topological defects in non-Hermitian exciton polaritons: <b>Yow-Ming (Robin) Hu</b>	
12:30	Lunch	
	Chair: Agustin Schiffrin	
14:00	Tutorial - Magnetic topological insulators: Kirrily Rule	
15:00	RTIAB - Layer-dependent electron-phonon interactions at the surface of MnBi <sub>2</sub> Te <sub>4</sub> : <b>Enamul Haque</b>	
15:15	RTIAB - Bandgap and exciton energy renormalisation in doped TMD: Jack Engdahl	
15:30	Tea break	
	Chair: Gol Akhgar	
16:15	RTIAB - Growing and architecting liquid metal-derived crystals as electrocatalysts: <b>Jianbo Tang</b>	
16:30	RTIAB - Modelling charge carrier dynamics in gold cluster assemblies: Emma Vincent	
16:45	RT2 - Effective dissipative light-matter coupling in nonideal cavi- ties: <b>Olivier Bleu</b>	
17:00	RT2 - Polariton-electron scattering and trion resonance: Sangeet Kumar	
17:15	RT3 - Effects of Floquet engineering on the coherent exciton dynamics in monolayer WS,: <b>Mitch Conway</b>	
17:30	RT3 - Electric-field control of broadband THz conductivity in graphene - from Drude to non-Drude regime: <b>Phát Nguyễn</b>	
17:45	Collaborative meetings   Free time	
18:15	Dinner in Heritage Ballroom	
FRID	DAY 7 JULY Chair: Matthew Davis	
prior	Accommodation checkout before 10:00 AM	
9:00	Responsible innovation and the future of FLEET: Chris Browne	
10:30	Tea break	
	Chair: Jared Cole	
11:00	Invited - Rapid exciton diffusion in non-fullerene acceptors and its implications for OPV device architectures and computational materials screening: <b>Justin Hodgkiss</b>	
11:30	RT1AB - Enhanced itinerant ferromagnetism in hole-doped transition metal oxides - beyond the canonical double exchange mechanism: <b>Zhao Liu</b>	
	RT1AB - Modelling charge transport in Al/AlO_/Al tunnel junctions:	
11:45	Karen Bayros	
11:45 12:00		
	Karen Bayros A A A A A A A A A A A A A A A A A A A	
12:00	Karen Bayros       A         RT2 - Towards BEC-BKT crossover in a trapped polariton condensate:       Eliezer Estrecho         RT3 - Room temperature polariton condensates in spin-coated	

14:30 Buses depart for Melbourne Airport & Southern Cross station