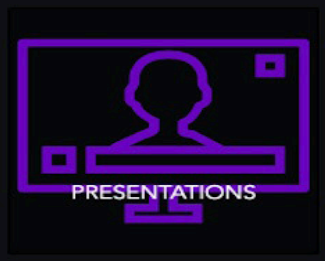

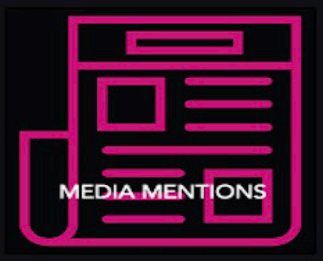

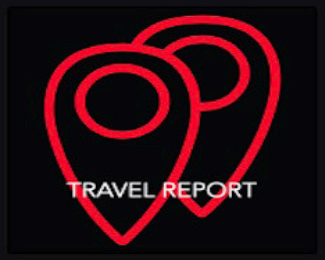

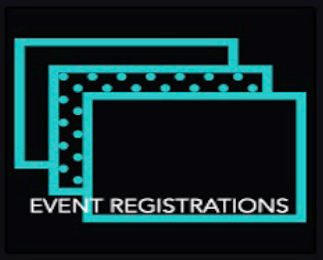

APPENDICES

PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Understanding and improving robustness of topological phases in nanodevices	Susan Coppersmith	Workshop on Quantum Geometric Advantage	Singapore	6/1/2023	Conference presentation	*
Artificial quantum matter	Alex Hamilton	2023 Winter Conference on Quantum Simulation with Quantum Hardware	USA	7/2/2023	Poster	*
Surface-grown crystalline patterns and structures from liquid metal solvents	Jianbo Tang	10th International Conference on Advanced Materials & Nanotechnology	New Zealand	7/2/2023	Conference presentation	*
Liquid metal-based synthesis of functional 2D materials for electronic applications	Torben Daeneke	10th International Conference on Advanced Materials & Nanotechnology	New Zealand	7/2/2023	Conference presentation	
Electronic properties of 1T-$TiSe_2$, numerical models of the formation and melting of the charge density wave state	Joshua Gray	10th International Conference on Advanced Materials & Nanotechnology	New Zealand	8/2/2023	Poster	
Direct conversion of CO_2 to solid carbon by Ga-based liquid metals	Torben Daeneke	10th International Conference on Advanced Materials & Nanotechnology	New Zealand	8/2/2023	Poster	
Theoretical modelling of new level crossings and electron-hole asymmetry in Landau octet of bilayer graphene	Abhay Gupta	45th Annual Condensed Matter Meeting, Wagga 2023	Australia	9/2/2023	Poster	
Observation of new level crossings and strong electron-hole asymmetry in Landau level spectra of bilayer graphene	Feixiang Xiang	45th Annual Condensed Matter Meeting, Wagga 2023	Australia	9/2/2023	Conference presentation	
Using nano-electronics as a tool in materials science: unravelling the mystery of two-level defects in amorphous solids	Jared Cole	10th International Conference on Advanced Materials and Nanotechnology	New Zealand	9/2/2023	Conference presentation	
Observation of artificial bandstructure in a patterned semiconductor two-dimension electron gas	Oleh Klochan	45th Annual Condensed Matter Meeting, Wagga 2023	Australia	9/2/2023	Conference presentation	*

** indicates invited presentations to international research community*

PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Interactions between exciton-polarons in monolayer WS_2 revealed by multi-dimensional coherent spectroscopy	Jeff Davis	Australia - New Zealand Ultrafast Spectroscopy conference	New Zealand	13/2/2023	Conference presentation	*
Realising topological phase transitions in a spin-½ quantum kicked rotor	Andrew Groszek	VULCAN 2023	Australia	14/2/2023	Research workshop / symposium	*
Optical control of coherence phase in monolayer tungsten disulphide	Mitchell Conway	Australia - New Zealand Ultrafast Spectroscopy conference	New Zealand	14/2/2023	Conference presentation	
Enhanced interatctions of interlayer exciton in free-standing hetero-bilayers	Yuerui (Larry) Lu	Enhanced interatctions of interlayer exciton in free-standing hetero-bilayers	Online - domestic audience	15/2/2023	Research seminar	
Panel: Quantum technologies and sustainability	Alex Hamilton	Quantum Australia 2023	Australia	21/2/2023	Conference presentation	*
Panel: Will quantum chemistry be the first to achieve useful quantum computational advantage?	Jared Cole	Quantum Australia 2023	Australia	22/2/2023	Conference presentation	*
Engineering ferroelectric heterostructures for low-energy electronic device applications	Peggy Qi Zhang	Research Seminar at University of Sydney	Australia	22/2/2023	Research seminar	*
Topology and disordered materials	Julie Karel	Disordered Topological Semimetals Workshop	France	23/2/2023	Research workshop / symposium	*
Dynamical stability and electron-phonon interactions in topologically protected conducting channel of atomically thin Bi (111)	Enamul Haque	APS March meeting 2023	USA	6/3/2023	Conference presentation	
Engineering ferroelectric heterostructures for low-energy electronic device applications	Peggy Qi Zhang	CSIRO seminar	Australia	7/3/2023	Research seminar	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Careers in STEM, equity and diversity at FLEET	Tich-Lam Nguyen	Phillips Ormonde Fitzpatrick International Women's Day	Australia	8/3/2023	Presentation to NGOs / professional organisations	*
Artificial quantum matter	Alex Hamilton	Aspen Center for Physics - Winter Conference 2023	USA	15/3/2023	Poster	*
Topological spintronics for low energy computing	Julie Karel	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	22/3/2023	Research workshop / symposium	*
New topologies and ferroelectric phases in epitaxial multiferroic bismuth ferrite thin films	Nagy Valanoor	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	22/3/2023	Research workshop / symposium	*
Designing, simulating and fabricating materials for quantum technology	Jared Cole	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	23/3/2023	Research workshop / symposium	*
Exciton polaritons in artificial superlattices	Elena Ostrovskaya	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	23/3/2023	Research workshop / symposium	*
Complexes of dipolar excitons in Moiré superlattices	Larry Lu	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	23/3/2023	Research workshop / symposium	*
Creating designer artificial quantum matter in 2D materials	Alex Hamilton	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	23/3/2023	Research workshop / symposium	*
Engineering diamond surfaces for quantum diamondtronics	Dongchen Qi	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	23/3/2023	Research workshop / symposium	*
Light-controlled quantum phases in materials - Topic overview	Jeff Davis	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	24/3/2023	Research workshop / symposium	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Engineering higher-temperature superconductivity	Victor Galitski	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	24/3/2023	Research workshop / symposium	*
Nanoantennas for light harvesting in low-dimensional materials	Stefan Maier	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	24/3/2023	Research workshop / symposium	*
The dark side of light-matter systems: harnessing optically dark states to control quantum phases	Meera Parish	Future Electronic Materials Research in Australia (FEMRA2023) Workshop	Australia	24/3/2023	Research workshop / symposium	*
Enabling high-efficiency spintronics in disordered Co_2MnGa	Weiyao Zhao	ANSTO Clip Day	Australia	24/3/2023	Conference presentation	
Centre of Excellence mid-term review process	Tich-Lam Nguyen	CoE for Synthetic Biology staff workshop	Australia	18/4/2023	Presentation to NGOs / professional organisations	*
Two-dimensional kondo lattice in a TaS_2 van der Waals heterostructure	Benjamin Lowe	FLEET Monash Journal Club	Australia	27/4/2023	Journal Club	
Engineering order-disorder transition at the surface of topological insulators to manipulate electronic properties	Abdulhakim Bake	Engineering order-disorder transition at the surface of topological insulators to manipulate electronic properties	Australia	2/5/2023	Research seminar	
Exploring the quantum limit of meta-materials	Jared Cole	Polariton Science Workshop	Australia	12/5/2023	Research workshop / symposium	*
Optical control of coherence phase in monolayer tungsten disulphide	Mitchell Conway	2023 CLEO Conference and Exhibition	USA	12/5/2023	Conference presentation	
Liquid metal-based synthesis of high mobility 2D semiconductors	Torben Daeneke	Meeting of the European Materials Research Society (EMRS)	France	29/5/2023	Conference presentation	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Synthesis of functional metal in metal colloids for applications in catalysis and energy storage	Torben Daeneke	Meeting of the European Materials Research Society (EMRS)	France	30/5/2023	Conference presentation	
Liquid metal catalysts for the production of ammonia	Torben Daeneke	Meeting of the European Materials Research Society (EMRS)	France	2/6/2023	Conference presentation	
Liquid metal chemistry - from 2D electronics to catalysis	Torben Daeneke	Invited lecture, School of Physics, Humboldt University, Berlin	Germany	5/6/2023	Public lecture	*
Effects of Floquet engineering on the coherent exciton dynamics in monolayer WS_2	Jeff Davis	Ultrafast Dynamics and Ultrafast Bandgap Photonics Crete Symposium	Greece	7/6/2023	Conference presentation	*
Synthesis of functional metal-in-metal colloids for fundamental studies and applications in catalysis	Torben Daeneke	12th International Colloids Conference	Spain	12/6/2023	Conference presentation	
Coherent exciton dynamics in monolayer WS_2 reveal limitations and opportunities of Floquet engineering	Jeff Davis	Optics of Excitons in Confined Systems conference	Italy	14/6/2023	Conference presentation	
Hole spins in silicon quantum dots	Alex Hamilton	International Conference on Materials for Advanced Technologies (ICMAT)	Singapore	27/6/2023	Conference presentation	*
The topological transistor as a low-voltage switch	Michael Fuhrer	International Conference on Materials for Advanced Technologies (ICMAT)	Singapore	27/6/2023	Conference presentation	*
Superfluid exciton condensation in biased bilayer graphene	Oleg Sushkov	SuperStripes2023: Quantum in Complex Matter	Italy	27/6/2023	Conference presentation	*
Nanomagnets	Karen Livesey	Technical seminar: Curtin University	Australia	28/6/2023	Research seminar	*
The topological transistor as a low-voltage switch	Michael Fuhrer	ICMAT-ASPM satellite	Singapore	30/6/2023	Conference presentation	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Berry curvature and strong light-matter coupling in liquid crystal microcavities with perovskites	Mateusz Krol	FLEET Annual Workshop 2023	Australia	3/7/2023	Conference presentation	
Atomistic self-assembly of nanostructure in liquid metals	Nicola Gaston	FLEET Annual Workshop 2023	Australia	3/7/2023	Conference presentation	
Tutorial: Twisty 2D materials tutorial: history, current status, and open questions	Shaffique Adam	FLEET Annual Workshop 2023	Australia	3/7/2023	Conference presentation	
Engineering order-disorder transitions at the surface of topological insulators	Abdulhakim Bake	FLEET Annual Workshop 2023	Australia	4/7/2023	Conference presentation	
Theoretical modelling on new level crossings and electron-hole asymmetry in Landau octet of bilayer graphene	Abhay Gupta	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Realising topological phase transitions in a spin ½ quantum kicked rotor	Anushka Thenuwara	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Strong electron correlations in a 2D Kagome metal-organic framework	Benjamin Lowe	FLEET Annual Workshop 2023	Australia	4/7/2023	Conference presentation	
Time evolution of spatial coherence in exciton-polariton condensates	Bianca Fabricante	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Proton intercalation induced phase transitions in van der Waals materials	Cheng Tan	FLEET Annual Workshop 2023	Australia	4/7/2023	Conference presentation	
Quantum spin hall edge state transport in monolayer WTe_2	Daniel McEwen	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Cold neutrons as a probe of quantum matter	David Cortie	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Inhomogeneous friction behaviour of nanoscale phase separated layered $CuInP_2S_6$	Dawei Zhang	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Weyl excitations and arc surface states via helicon-phonon mixing in conducting materials	Dmitry Efimkin	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
The emergence of superfluidity in ultracold Fermi gases	Emma Laird	FLEET Annual Workshop 2023	Australia	4/7/2023	Conference presentation	
Electron-phonon interactions in topologically protected conducting channel of atomically thin Bi (111)	Enamul Haque	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Strong signature of Landau level fan from high order Moiré pattern in double aligned graphene heterostructures	Feixiang Xiang	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Electronic and magnetic properties of chromium doped tin telluride thin films	Golrokh Akhgar	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Numerical modelling of the charge density wave state in $TiSe_2$	Joshua Gray	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Polaritons in an excitonic reservoir	Kenneth Choo	FLEET Annual Workshop 2023	Australia	4/7/2023	Conference presentation	
Finding an exciton condensate in a topological insulator	Liam Watson	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Modelling topological excitations in atomic spinor Bose-Einstein condensates	Matthew Edmonds	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
The growth of ultra-thin Kagome metal $Mn_{3-x}Sn$ films on Si(111)	Mengting Zhao	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Effects of Floquet engineering on the coherent exciton dynamics in monolayer WS_2	Mitchell Conway	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Nonlinear anomalous Hall effect in 2D topological anti ferromagnets	Rhonald Burgos Atencia	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Correlated electronic structure of the kagome metal MnSn	Sajid Ali	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Nonlinear Hall effect of magnetized two-dimensional spin-$^3/_2$ heavy holes	Sina Gholi Zadeh	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Efficient exciton-exciton annihilation of dark excitons in atomically-thin TMDs	Yi-Hsun Chen	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
In-situ epitaxial aluminium gates in ultra-shallow GaAs heterostructures for low noise quantum point contacts	Yonatan Ashlea-Alava	FLEET Annual Workshop 2023	Australia	4/7/2023	Poster	
Extracting complex refractive indices of ultrathin molybdenum oxides using a micro-photonic integrated circuit chip	Baoyue Zhang	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Liquid metal planet-like nanodroplets	Caiden Parker	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Neutron reflectometry using polarised cold neutrons to probe quantum heterostructures	David Cortie	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Topological hybrid electron-hole Cooper pairing	Dmitry Efimkin	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Equatorial waves in rotating bubble-trapped superfluids	Dmitry Efimkin	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Tutorial: Exciton polaritons	Eliezer Estrecho	FLEET Annual Workshop 2023	Australia	5/7/2023	Conference presentation	
Spatially indirect exciton condensates	Francois Peeters	FLEET Annual Workshop 2023	Australia	5/7/2023	Conference presentation	
Ultrafast dynamics of materials using optical pump terahertz probe (OPTP) spectroscopy	Gary Beane	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Field-controlled cascade of soliton layers in epitaxial MnSi	Grace Causer	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Coherent backscattering in the topological Hall effect	Hong Liu, Rhonald Burgos Atencia	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Dramatic increase of viscous effects in magnetohydrodynamics in graphene	Jack Engdahl	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Functional and topological properties study by SPM	Jan Seidel, Dawei Zhang	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Electron and hole transfer, and interlayer coherence in WS_2/MoS_2 heterostructures	Jeff Davis	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Fermi polaron approach to doped atomically thin semiconductors	Jesper Levinsen	FLEET Annual Workshop 2023	Australia	5/7/2023	Conference presentation	
Controlling electron-electron correlations in gateable 2D metal-organic nanonstructures	Julian Ceddia	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Magnetism in thin films of the high entropy oxide $La(Cr_{0.2}Mn_{0.2}Fe_{0.2}Co_{0.2}Ni_{0.2})O_3$	Kayla Lord	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Polaritons in an excitonic reservoir	Kenneth Choo	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Lengthening low disorder electrostatically defined quantum wires	Krittika Kumar	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Trion splitting dynamics in gated WS_2 monolyer	Linnan (Leo) Jia	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Bose-Einstein condensation effects in semiconductor lasers	Maciej Pieczarka	FLEET Annual Workshop 2023	Australia	5/7/2023	Conference presentation	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Electrochemical deposition of metal tellurides using liquid-metal autogenous surface potential for effective electrochemical sensing: mechanism, characterisation, and performance	Maedehsadat Mousavi	FLEET Annual Workshop 2023	Australia	5/7/2023	Conference presentation	
Signatures of Majorana zero modes in hybrid semiconducting-superconducting nanowires	Marcus Goffage	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Superfluid flow in channels	Matthew Davis	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
New room-temperature 2D van der Waals ferromagnet	Mengyun (Molly) You	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Microscopy theory of excitons bound by light	Sangeet Kumar	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Efficient brightening of dark excitons in InSe atomic layers	Shao-Yu Chen	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Fingerprint oscillations in a bulk-insulating 3D topological insulator	Weiyao Zhao	FLEET Annual Workshop 2023	Australia	5/7/2023	Conference presentation	
Variational approach to the 2D Bose polaron	Yasufumi Nakano	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
P-type ohmic contact to monolayer WSe_2 field-effect transistors using high electron affinity amorphous MOO_3	Yi-Hsun Chen	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
New kind of magnetic oscillation in artificial crystals	Zeb Krix	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Non-collinear antiferromagnetism induced flat band in two-dimentional $COBi_2Te_4$	Ziyuan Zhao	FLEET Annual Workshop 2023	Australia	5/7/2023	Poster	
Layer-dependent electron-phonon interactions at the surface of $MnBi_2Te_4$	Enamul Haque	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Bandgap and exciton energy renormalisation in doped TMD	Jack Engdahl	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Growing and architecting liquid metal-derived crystals as electrocatalysts	Jianbo Tang	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Tutorial: Magnetic topological insulators	Kirrily Rule	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Ultra-low temperature scanning probe imaging of WTe_2	Michael Fuhrer, Iolanda Di Bernardo, Liam Watson	Fuerzas y Túnel Conference (FyT2023)	Spain	6/7/2023	Conference presentation	
Effects of Floquet engineering on the coherent exciton dynamics in monolayer WS_2	Mitchell Conway	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Effective dissipative light-matter coupling in nonideal cavities	Olivier Bleu	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Higgs oscillations in a strongly interacting Fermi gas	Paul Dyke	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Electric-field-control of broadband THz conductivity in graphene: from Drude to non-Drude regime	Phat Nguyen	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Polariton-electron scattering and trion resonance	Sangeet Kumar	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Apparent strange metal behavior in small angle twisted bilayer graphene	Shaffique Adam	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Engineering Majorana zero modes in lithographically-defined nanowires	Susan Coppersmith	International Conference on Strongly Correlated Electron Systems (SCES 2023)	South Korea	6/7/2023	Conference presentation	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Wave packet dynamics and emergent topological defects in non-Hermitian exciton polaritons	Yow-Ming (Robin) Hu	FLEET Annual Workshop 2023	Australia	6/7/2023	Conference presentation	
Towards BEC-BKT crossover in a trapped polariton condensate	Eliezer Estrecho	FLEET Annual Workshop 2023	Australia	7/7/2023	Conference presentation	
Rapid exciton diffusion in non-fullerene acceptors and its implications for OPV device architectures and computational materials screening	Justin Hodgkiss	FLEET Annual Workshop 2023	Australia	7/7/2023	Conference presentation	
Modelling charge transport in Al/AlO_x/Al tunnel junctions	Karen Bayros	FLEET Annual Workshop 2023	Australia	7/7/2023	Conference presentation	
Room temperature polariton condensates in spin-coated perovskite microcavities	Mitko Oldfield	FLEET Annual Workshop 2023	Australia	7/7/2023	Conference presentation	
Enhanced itinerant ferromagnetism in hole-doped transition metal oxides: beyond the canonical double exchange mechanism	Zhao Liu	FLEET Annual Workshop 2023	Australia	7/7/2023	Conference presentation	
Theoretical modelling of new level crossings and strong electron-hole asymmetry in Landau octet of bilayer graphene	Abhay Gupta	Summer School on 2D Quantum Matter	Italy	10/7/2023	Poster	
Artificial electrostatic crystals: a new platform for electronic quantum matter	Alex Hamilton	International Workshop on Phenomena in 2D Matter	Spain	21/7/2023	Conference presentation	*
Skyrmions	Karen Livesey	FLEET seminar	Australia	21/7/2023	Research seminar	
Analytic theories for magnetic skyrmions	Karen Livesey	FLEET seminar	Australia	21/7/2023	Research seminar	
Functional topological defects: materials at the edge of order	Jan Seidel	ISAF-PFM-ISIF 2023 Joint Conference	USA	24/7/2023	Conference presentation	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Multi-scale computational modelling of nano- and quantum-technology simulating future technology .... today!	Jared Cole	School of Physics Colloquium: University of Auckland	New Zealand	26/7/2023	Research workshop / symposium	*
Liquid metals: an ideal platform for the synthesis of two-dimensional materials	Patjaree Aukarasereenont	FLEET seminar	Australia	2/8/2023	Research seminar	
Quantum stochastic resonance of individual iron atoms	Susan Coppersmith	Grete Hermann Network Workshop	Germany	2/8/2023	Conference presentation	*
Self-acceleration and emergent topological defects in non-Hermitian exciton polaritons	Yow-Ming (Robin) Hu	Non-Hermitian Topology: from Classical Optics to Quantum Matter	Germany	14/8/2023	Conference presentation	
Making artificial electronic crystals	Oleh Klochan	Research seminar at the Australian National University	Australia	15/8/2023	Research seminar	*
Phase transition studies in van der Waals nanoflakes via electrically controlled proton intercalation	Cheng Tan	International Conference on Energy, Materials, and Photonics 2023 (EMP23)	Singapore	17/8/2023	Conference presentation	*
Crystalline orientation dependent photoresponse and electrically tunable photocurrent in van der Waals $CuCrP_2S_6$ nanoflakes	Majid Panahendeh Fard	International Conference on Energy, Materials, and Photonics 2023 (EMP23)	Singapore	19/8/2023	Conference presentation	
Making artificial electronic crystals	Oleh Klochan	Research Seminar at University of Western Australia	Australia	25/8/2023	Research seminar	*
Towards efficient spin current generation using amorphous materials	Julie Karel	Joint European Magnetic Symposia	Spain	28/8/2023	Conference presentation	
Imperfect qubits novel experiments which probe the limits of the standard models of defects	Jared Cole	Superconducting Qubits and Algorithms Conference	Germany	30/8/2023	Conference presentation	
High-quality atomically thin superconductors	Zhi Li	Invited Seminar and CSIRO site visit	Australia	31/8/2023	Research seminar	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Hole spins in silicon quantum dots and artificial quantum matter	Alex Hamilton	Lab visits and talk given, Delft University of Technology	Netherlands	4/9/2023	Colloquium	*
Using open-quantum systems in new and interesting areas ... well, chemistry at least	Jared Cole	Invited seminar: HQS Quantum Simulations	Germany	4/9/2023	Technical briefing - to government / industry	*
Origin of spatial modulations of the local density of states in WTe_2	Michael Fuhrer	Condensed Matter Division of the European Physical Society (CMD30)	Italy	5/9/2023	Conference presentation	
Computational modelling of quantum technology designing the future .... today!	Jared Cole	Research Seminar	Germany	6/9/2023	Research seminar	*
Coherent dynamics and interactions in monolayer WS_2	Jeff Davis	Asian Spectroscopy Conference	Japan	6/9/2023	Conference presentation	*
Nonequilibrium transport in a superfluid Josephson junction chain	Matthew Davis	QACTUS2023	Spain	6/9/2023	Conference presentation	*
Nanomagnets	Karen Livesey	Technical seminar: Flinders University	Australia	7/9/2023	Research seminar	*
Engineering ferroelectric heterostructures for low-energy electronic device applications	Peggy Qi Zhang	Nanomaterials and Nanodevices for Sustainable Environment (NNSE) Workshop	Australia	7/9/2023	Conference presentation	*
Metasable polymorphic phases of monolayer $TaTe_2$	Iolanda Di Bernardo	Condensed Matter Division of the European Physical Society (CMD30)	Italy	8/9/2023	Conference presentation	
P-type Ohmic contact to a monolayer TMD semiconductor, towards indirect exciton devices	Michael Fuhrer	MultiSuper/FLEET workshop	Italy	10/9/2023	Conference presentation	*
The hunt for the exciton superfluid	Alex Hamilton	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*
Transport in exciton condensates and exciton insulators	Andrea Perali	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*

** indicates invited presentations to international research community*

PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Chester supersolid of spatially indirect excitons in double-layer semiconductor heterostructures	David Neilson	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*
The fluctuational internal Josephson and the Coulomb drag-like effects in electron-hole bilayers	Dmitry Efimkin	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*
Mechanical properties of topological defects studied by scanning probe microscopy	Jan Seidel	20th International Microscopy Congress	South Korea	11/9/2023	Conference presentation	*
Skyrmions	Karen Livesey	Technical seminar: ANU	Australia	11/9/2023	Research seminar	*
P-type ohmic contact to a monolayer TMD semiconductor - towards indirect exciton devices	Michael Fuhrer	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*
Making artificial electronic crystals	Oleh Klochan	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*
Artificial crystals using bilayer graphene: A new platform for engineering strongly correlated effects	Zeb Krix	FLEET-EU 2023: Transport in Exciton Condensates and Exciton Insulators	Italy	11/9/2023	Conference presentation	*
Nonequilibrium transport in a Josephson junction chain: Is there negative differential conductivity?	Matthew Davis	Bose Einstein Condensation (BEC2023)	Spain	12/9/2023	Poster	
Dynamics of driven impurities in a quantum gas	Meera Parish	Bose Einstein Condensation (BEC2023)	Spain	13/9/2023	Conference presentation	*
Topological materials for low-energy electronics	Michael Fuhrer	Physics colloquium	Netherlands	13/9/2023	Research seminar	*
Topology and disordered materials	Julie Karel	Institute Neel Seminar	France	14/9/2023	Research seminar	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Topological materials for low-energy electronics	Michael Fuhrer	Van der Waals Physics colloquium, Leiden University	Netherlands	15/9/2023	Research seminar	*
Dynamics of driven impurities in a quantum gas	Meera Parish	Oxford ImpurityConference	USA	19/9/2023	Conference presentation	*
Careers in STEM, Collaboration at FLEET	Tich-Lam Nguyen	ATSE Visionary Leadership	Australia	19/9/2023	Presentation to NGOs / professional organisations	*
Enabling high-efficiency spintronics in disordered Co_2MnGa	Weiyao Zhao	2023 Around-the-Clock Around-the-Globe Magnetics Conference	Online - domestic audience	27/9/2023	Conference presentation	*
FLEET-UNSW seminar: Electronic properties of monolayer transition metal ditellurides	Iolanda Di Bernardo	FLEET-UNSW seminar	Australia	12/10/2023	Research seminar	
Magnetic nanoparticles	Karen Livesey	Technical seminar: QUT	Australia	13/10/2023	Research seminar	*
Topological solitons in multiferroic materials	Jan Seidel	APCTP Workshop on Multiferroics, Tokyo, Japan	Japan	19/10/2023	Conference presentation	*
FLEET capabilities	Alex Hamilton	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
The Australian synchrotron: A materials analysis toolkit	Anton Tadich	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Beyond imaging: neutron reflectometry of semiconductors and quantum materials	David Cortie, Julie Karel	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Topological thermoelectric films with controlled porosity	David Cortie, Julie Karel	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
High-performing n-type thermoelectrics based on bulk porous topological insulators	David Cortie, Julie Karel	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Wearable EEG sensor with epitaxial graphene	Francesca Iacopi	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Terahertz frequency switching in graphene	Gary Beane	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Scanbot: An STM automation bot	Julian Ceddia	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Solving for the effective properties of electromagnetic composites	Karen Livesey	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Supercapacitors - the future of energy storage	Maedehsadat Mousavi	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
High-bandwidth vector magnetometry for communication and navigation	Michael Barson	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Next generation low-energy transistors	Michael Fuhrer, Mark Edmonds	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Towards high-temperature lossless electronics	Michael Fuhrer, Mark Edmonds	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Manufacturing advanced quantum materials: Monolayer semiconducting TMDCs	Mitchell Conway, Abigail Goff, Jack Muir	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Safe, affordable and durable zinc-ion batteries	Priyank Kumar	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Two-dimensional natural hyperbolic materials	Reza Asgari	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Biosensors for point of care testing	Sudha Mokkapati	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Automated sensors for stand-off detection of toxic gases	Sudha Mokkapati	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Visible switching coatings for smart windows	Sumeet Walia, Cheng Tan	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Aluminium oxides-based LED encapsulant	Torben Daeneke, Patjaree Aukarasereenont	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Ultra-low-noise transistors and quantum devices	Yonatan Ashlea-Alava	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
High-temperature superconducting electronics	Zhi Li	Meet FLEET	Australia	20/10/2023	Technical briefing - to government / industry	
Engineering ferroelectric heterostructures for low-energy electronic device applications	Peggy Qi Zhang	CSIRO quantum conference	Australia	23/10/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Making artificial electronic crystals	Oleh Klochan	Research seminar at University of Queensland	Australia	24/10/2023	Research seminar	*
Dzyaloshinskii-Moriya interaction	Karen Livesey	Technical seminar: UNSW	Australia	2/11/2023	Research seminar	*
Mechanical properties of topological defects studied by scanning probe microscopy	Jan Seidel	13th Asian Meeting on Ferroelectrics	China	12/11/2023	Conference presentation	*
Topological solitons in multiferroic materials	Jan Seidel	13th Asian Meeting on Ferroelectrics	China	13/11/2023	Conference presentation	*
Superfluid exciton condensation in biased bilayer graphene	Oleg Sushkov	Ringberg Symposium: Exotic States of Quantum Condensed Matter	Germany	15/11/2023	Research workshop / symposium	*
Topological materials for low-energy electronics	Michael Fuhrer	Van der Waals colloquium, IIT Bombay	India	17/11/2023	Research seminar	*
Two-dimensional topological materials for low-voltage transistors	Michael Fuhrer	RPGR 2023	India	20/11/2023	Conference presentation	*
Engineering non-ergodic manybody excited states from Quantum Monte Carlo simulations	Shaffique Adam	2023 Gordon Godfrey Workshop	Australia	20/11/2023	Conference presentation	*
Artificial electrostatic crystals: A new platform for electronic quantum matter	Daisy Qingwen Wang	2023 Gordon Godfrey Workshop	Australia	21/11/2023	Conference presentation	*
Quantum dynamics of a mobile spin-½ impurity strongly interacting with a Fermi gas	Jesper Levinsen	2023 Gordon Godfrey Workshop	Australia	21/11/2023	Conference presentation	*
Spin dynamics in the low dimensional, frustrated, quantum magnets, linarite and atacamite: combining inelastic neutron scattering with linear spin wave theory models to reveal complex magnetic interactions	Kirrily Rule	2023 Gordon Godfrey Workshop	Australia	21/11/2023	Conference presentation	*

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Charge transport with spinorbit coupling: using bruteforce numerics to hold analytic approximations to account	Jared Cole	2023 Gordon Godfrey Workshop	Australia	22/11/2023	Conference presentation	*
Understanding the electronic properties of ultra-thin $MnBi_2Te_4$	Mark Edmonds	2023 Gordon Godfrey Workshop	Australia	22/11/2023	Conference presentation	*
Controlled correlated-electron phases in 2D metal-organic materials	Agustin Schiffrin	2023 Gordon Godfrey Workshop	Australia	23/11/2023	Conference presentation	*
Design of new class of quantum matter and phenomena	Xiaolin Wang	2023 Gordon Godfrey Workshop	Australia	23/11/2023	Conference presentation	*
Mechanical properties of topological defects studied by scanning probe microscopy	Jan Seidel	Materials Research Society (MRS) Fall Meeting	USA	28/11/2023	Conference presentation	*
Ultrafast coherent dynamics and interactions in 2D semiconductors and their heterostructures	Jeff Davis	APC 2023 12th Asian Photochemistry Conference	Australia	28/11/2023	Conference presentation	*
STM study of a 2D topological insulator on a room-temperature ferroelectric	Amelia Dominguez	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Controlling spin-substrate coupling via manipulation	Benjamin Lowe	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Reservoir-induced linewidth broadening of exciton-polariton laser	Bianca Fabricante	FLEET Legacy Workshop	Australia	29/11/2023	Conference presentation	
Making artificial electronic crystals	Daisy Qingwen Wang	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Edge state transport in WTe_2	Daniel McEwen	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
2D Metal-organic frameworks on metals and decoupling layers	Daniel Moreno Cerrada	FLEET Legacy Workshop	Australia	29/11/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Etch-less micropatterned epitaxial graphene via 2D and 3D site-selective growth	Francesca Iacopi	FLEET Legacy Workshop	Australia	29/11/2023	Conference presentation	
Implementation of $BiFeO_3$ in a ferroelectric resonant tunnel diode	Gordon Luo	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Excitons in 2D TMD in strong magnetic fields	Jack Engdahl	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Electronic properties of 1T-$TiSe_2$, numerical models of the formulation and melting of the charge density wave state	Joshua Gray	FLEET Legacy workshop	Australia	29/11/2023	Poster	
Controlling electron-electron correlations in gateable 2D metal-organic nanostructures	Julian Ceddia	FLEET Legacy workshop	Australia	29/11/2023	Poster	
Josephson effects in Al/AlO_x/Al junctions	Karen Bayros	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Polaron-polariton in a dark excitonic medium	Kenneth Choo	FLEET Legacy Workshop	Australia	29/11/2023	Conference presentation	
Finding an exciton condensate in a topological insulator	Liam Watson	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Strong light-matter coupling in open microcavities	Mateusz Krol	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Measuring polariton-polariton interactions via ultrafast spectroscopy	Matthew Berkman	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Modelling topological excitations in atomic spinor Bose-Einstein condensates	Matthew Edmonds	FLEET Legacy Workshop	Australia	29/11/2023	Conference presentation	
Quantifying exciton interactions strength and charge transfer rates in TMDC heterostructures	Mitchell Conway	FLEET Legacy Workshop	Australia	29/11/2023	Conference presentation	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
The superconducting diode effects	Muhammad Nadeem	FLEET Legacy Workshop	Australia	29/11/2023	Conference presentation	
Correlated electronic structure of the Kagome metalMnSn	Sajid Ali	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Electron magneto-hydrodynamics in GaAs systems	Yonatan Ashlea-Alava	FLEET Legacy Workshop	Australia	29/11/2023	Poster	
Rabi oscillations and magnetization of a mobile spin-1/2 impurity in a Fermi sea	Brendan Mulkerin	FLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	
Room temperature gate-tuned magnetic phase transition in a van der Wals magnet	Cheng Tan	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Electron phonon interactions in $MnBi_2Te_4$	Enamul Haque	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Intra-zero-energy Landau level crossings in bilayer graphene at high electric fields	Feixiang Xiang	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Overview of THz-TDS results	Gary Beane	FLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	
Optical pump terahertz probe	Gary Beane	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Observation of anisotropic superfluid density in an artificial crystal	Ian Spielman	FLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	*
Adventures in characterising magnetic high entropy oxide thin films	Kayla Lord	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Probing proximity in topological insulator / magnetic insulator heterostructures	Matthew Gebert	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Multidimensional coherent spectroscopy of Moiré intralayer excitons in twisted WSe_2/WSe_2 homobilayers	Mitchell Conway	FLEET Legacy Workshop	Australia	30/11/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Polar topological textures in oxide superlattices	Moein Seyfouri	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Trion resonance in polariton-electron scattering	Sangeet Kumar	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Progress on the Australian quantum gas microscope	Sascha Hoinka	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Nanophotonic metasurfaces for enhancing photochemistry and energy conversion	Stefan Maier	12th Asian Photochemistry Conference (APC 2023)	Australia	30/11/2023	Conference presentation	*
Resonant exciton-exciton annihilation of interlayer dark excitons in atomically-thin TMDs	Yi-Hsun Chen	FLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	
Resonant exciton-exciton annihilation of intervalley dark excitons in atomically-thin transition metal dichalcogenides	Yi-Hsun Chen	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Modelling transport properties using the non-equilibrium Greens function formalism: Transverse magnetic focusing in a two-dimensional hole gas	Yik Kheng Lee	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Non-Hermitian quantum geometric tensors in an exciton-polariton system	Yow-Ming (Robin) Hu	FLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	
Electronic and spintronic properties of Heusler alloy Co_2MnGa	Yuefeng Yin	FLEET Legacy Workshop	Australia	30/11/2023	Poster	
Non-Onsager quantum magnetic oscillations	Zeb Krix	FLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	
Towards high Chern number quantum anomalous Hall effect via inverted p-d orbitals	Zhao Liu	FLEET Legacy Workshop	Australia	30/11/2023	Poster	

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PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Flat band induced by non-collinear antiferromagnetism in two-dimensional $CoBi_2Te_4$	Ziyuan Zhao	FFLEET Legacy Workshop	Australia	30/11/2023	Conference presentation	
Towards quantum electronics and optoelectronics with individual point defects in 2D semiconductors	Bent Weber	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	*
Dynamic equilibria for the solid metal, liquid metal interface	Caiden Parker	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	
The Australian tech innovation and quantum landscape	Chris Vale	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	*
Robust, low-threshold polariton condensates in spin-coated perovskite microcavities	Mitko Oldfield	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	
Liquid metals: an ideal platform for the synthesis of two-dimensional materials	Patjaree Aukarasereenont	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	
The case for semiconductor manufacturing in Australia	Steven Duvall	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	*
Electric field-induced motion of polar topological defect in epitaxially strained $BiFeO_3$ thin film	Sukriti Mantri	FLEET Legacy Workshop	Australia	1/12/2023	Conference presentation	
Two-dimensional topological materials for low-voltage transistors	Michael Fuhrer	Workshop on Innovative Nanoscale Devices and Systems (WINDS 2023)	USA	4/12/2023	Conference presentation	*
Engineering majorana zero modes in lithographically-defined nanowires	Susan Coppersmith	ANZCOP-AIP Summer Meeting	Australia	4/12/2023	Conference presentation	*
Storying energy in spins using topological insulators, a cautionary tale	Jared Cole	International Conference on Quantum Energy	Australia	5/12/2023	Conference presentation	*

PRESENTATIONS

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Crafting novel low-symmetry and topological structures in ferroelectric oxide thin films and superlattices	Nagarajan Valanoor	MRS Fall Conference	USA	5/12/2023	Conference presentation	*
Quantum nuclear beam science: how australian neutron science can benefit the national revolution in quantum technology and vice versa	David Cortie	Invited Seminar and CSIRO site visit	Australia	6/12/2023	Research seminar	*
Ultrafast coherent dynamics and interactions in 2D semiconductors and their heterostructures	Jeff Davis	International Conference on Quantum Energy	Australia	6/12/2023	Conference presentation	*

FLEET-ORGANISED EVENTS

FLEET ORGANISED WORKSHOP / SEMINAR TITLE	EVENT TYPE	DATES	LOCATION
FLEET seminar: Yuerui Lu - Enhanced interactions of interlayer exciton in free-standing hetero-bilayers	FLEET seminar	15/2/2023	Online domestic
FLEET-SoPA seminar. Avinash Mahajan: Unusual spin dynamics in the low-temperature magnetically ordered state of $Ag_3LiIr_2O_6$	FLEET seminar	14/3/2023	Monash University, Clayton, Online
FLEET seminar. Andrew Cleland: Quantum acoustics: Quantum mechanics with sound	FLEET seminar	16/3/2023	Monash University, Clayton, Online
Future Electronic Materials Research in Australia: FEMRA2023	National conference	22/3/2023	Monash University, Clayton
US-Aus Colloqium. Andrew Chubukov: Twists and turns of superconductivity from a repulsive interaction	FLEET seminar	26/4/2023	Online
FLEET seminar. Abdulhakim Bake: Engineering order-disorder transition at the surface of topological insulators to manipulate electronic properties	FLEET seminar	2/5/2023	Online
FLEET-UNSW seminar. Thomas Schmidt: Topology and transport in interacting electron systems	FLEET seminar	5/5/2023	Online
How to influence government	Professional development	9/5/2023	Online
EU-Aust Colloquium. Jacqueline Bloch: Exploring out of equilibrium physics in an open system with polariton lattices	FLEET seminar	24/5/2023	Online
FLEET-SoPA seminar. Bob Camley: Nonreciprocal reflection and transmission in the 100 GHz to 2 THz range: experiments and theory	FLEET seminar	31/5/2023	Monash University, Clayton, online
FLEET seminar. Kevin Daniels: The carbon scaffold: Building next-generation materials and devices on quasi-freestanding epitaxial graphene	FLEET seminar	7/6/2023	Online
EU-Aust Colloquium. Paivi Torma: Quantum geometry in flat-band superconductivity, BEC, light-matter interactions adn nanophotonics	FLEET seminar	28/6/2023	Online
FLEET Annual Workshop	FLEET research workshop, National conference	3/7/2023	Mantra Lorne, Victoria
Publishing trends and peer review process	Professional development, Research development	4/7/2023	Mantra Lorne, Victoria

FLEET-ORGANISED EVENTS

FLEET ORGANISED WORKSHOP / SEMINAR TITLE	EVENT TYPE	DATES	LOCATION
APR.Intern information session	Professional development, Research development	4/7/2023	Mantra Lorne, Victoria
What can I do to create an inclusive culture?	Equity & Diversity, Professional development	5/7/2023	Mantra Lorne, Victoria
Responsible innovation & future of FLEET workshop	Professional development, Research development	7/7/2023	Mantra Lorne, Victoria
FLEET-AiP seminar. Karen Livesey: Analytic theories for magnetic skyrmions	FLEET seminar	21/7/2023	Monash University, Clayton, Online
FLEET seminar. Patjaree Aukarasereenont: Liquid metals: an ideal platform for the synthesis of two-dimensional materials	FLEET seminar	2/8/2023	Online
FLEET seminar. Geetha Balakrishnan: Magnetic skyrmion materials	FLEET seminar	16/8/2023	Monash University, Clayton, Online
EU-Aust Colloquium. Flore Kunst: Exceptional non-Hermitian topology	FLEET seminar	23/8/2023	Online
CSIRO seminar. Zhi Li: High-quality atomically thin superconductors	Industry engagement, Other research seminar	31/8/2023	CSIRO, Lindfield
Pathways to research commercialisation	Industry engagement, Professional development, Research development	5/9/2023	Online
FLEET-EU 2023. Transport in exciton condensates and exciton insulators	International conference	10/9/2023	University of Camerino, San Benedetto del Tronto, Italy
FLEET seminar. Ying Liu: Domains, Interfaces and Nanoscale Phenomena in Ferro- and Antiferroelectric Materials	FLEET seminar	13/9/2023	Online
inSTEM Conference 2023	Equity & Diversity, Professional development	19/9/2023	RMIT, Melbourne
FLEET seminar. Jukka Vayrynenv: Extrinsic and intrinsic superconducting diode effects	FLEET seminar	22/9/2023	Monash University, Clayton, Online
US-Aust colloquium. Hui Deng: Different phases of polariton Lasers	FLEET seminar	27/9/2023	Online

FLEET-ORGANISED EVENTS

FLEET ORGANISED WORKSHOP / SEMINAR TITLE	EVENT TYPE	DATES	LOCATION
FLEET-UNSW seminar. Iolanda Di Bernado: Electronic properties of monolayer transition metal ditellurides	FLEET seminar	12/10/2023	UNSW Sydney, Kensington, online
FLEET ECRs and students workshop	Professional development	18/10/2023	UNSW Sydney, Kensington, online
Meet FLEET	Industry engagement, Research development	20/10/2023	UNSW Sydney, Kensington
FLEET-UNSW seminar: Roy Li - Solid state qubits with industrial CMOS technology	FLEET seminar	24/10/2023	UNSW Sydney, Kensington, online
US-Aust colloquium. Peter Abbamonte - Observation of Pines' Demon in Sr_2RuO_4 with Momentum-Resolved EELS	FLEET seminar	25/10/2023	Online
Better Futures Innovation Challenge - Reverse pitch	Industry engagement, Professional development	1/11/2023	Online
US-Aust colloquium. Miguel Ugeda - Collective electronic states in a two-dimensional heavy fermion system	FLEET seminar	15/11/2023	Online
FLEET-CoE SynBio seminar. Wendy Rogers: Understanding researcher values to build better scientific outcomes	FLEET seminar	15/11/2023	Online
Gordon Godfrey Workshop 2023	International conference	20/11/2023	UNSW Sydney, Kensington
FLEET Legacy Workshop	FLEET research workshop, National conference	29/11/2023	Novotel Surfers Paradise, Gold Coast
CSIRO seminar. David Cortie: Quantum nuclear beam science - how Australian neutron science can benefit the national revolution in quantum technology and vice versa	Industry engagement, Other research seminar	6/12/2023	CSIRO, Melbourne

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
SciX Lab Tours at UNSW	17/1/2023	Lab tour, Outreach activity preparation, Presentation to students	UNSW Sydney, Kensington	School students 15, School students 10
SciX Lab Tours at UNSW	18/1/2023	Home science activities, Lab tour	UNSW Sydney, Kensington	School students 20
SciX Lab Tours at UNSW	19/1/2023	Lab tour, Presentation to students, Lab-based activities	UNSW Sydney, Kensington	School students 30
SciX Lab Tours at UNSW	19/1/2023	Lab tour, Presentation to students	UNSW Sydney, Kensington	School students 16
Editing exciton-polariton online material	24/1/2022	Online communications		
Lab tour and presentation	1/2/2023	Lab tour, Presentation to students	ACNS, ANSTO, Lucas Heights	Public 2
UN international day of women and girls in science	11/2/2023	Presentation to the public, Online communications, Engagement with STEM network		Public 1000
Quantum Australia 2023	21/2/2023	Industry engagement, Engagement with research networks	Sheraton Hotel, Sydney	Public 400
Talk to medical professionals	24/2/2023	Briefing to industry	Mater Hospital	Public 15
Jacob and Samuel home school workshop	27/2/2023	Presentation to students, School-based activities	Online	School students 2, School teachers 1
Chemical engineering for scientists	28/2/2023	Presentation to students	UNSW Sydney, Kensington	School students 6
JMSS Prof Tilman Pfau lunch seminar	28/2/2023	Presentation to students	John Monash Science School, Clayton	School students 120, School teachers 4
International women's day	8/3/2023	Industry engagement, Engagement with STEM network	Phillips Ormonde Fitzpatrick, Melbourne	Public 80
BrainSTEM innovation challenge	15/3/2023	School-based activities	Online, Camberwell Grammar, St Leonards College	School teachers 2, School students 8
Brain STEM innovation challenge - FLEET lab tour	17/3/2023	Lab tour, Outreach activity preparation, Presentation to students	Monash University, Clayton	School students 45, School teachers 8

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Science birthday	18/3/2023	Home science activities, Presentation to students		School students 10
ANU open day	18/3/2023	Open day	ANU, Canberra	Public 80, School students 40
Women in STEMM leadership summit	21/3/2023	Industry engagement, Engagement with STEM network	Sheraton Melbourne Hotel, Melbourne	Public 300
Geoff Pincott, British consulate	24/3/2023	Industry engagement, Government outreach	Monash University, Clayton	Public 1
Jacob and Samuel home school work-shop: Energy	3/4/2023	Presentation to students, School-based activities	Online	School students 2, School teachers 1
Outreach editing energy resource	4/4/2023	School-based activities		
JMSS-MySci- Faculty science outreach	12/4/2023	Presentation to students, School-based activities	Monash University, Clayton	School students 125
CoE for Synthetic Biology staff workshop	18/4/2023	Engagement with research networks	Sydney	Public 11
LabRats workshops	22/4/2023	Presentation to students	Monash University, Clayton	School students 70, School teachers 2
Mater Christi College STEM cup	5/5/2023	Outreach activity preparation, Presentation to students, School-based activities	Mater Christi College, Belgrave	School students 260, School teachers 11
Pint of Science	22/5/2023	Presentation to the public	The Happy Wombat, Newcastle	Public 80
3 Minute Thesis - School of Physics & Astronomy round	30/5/2023	Presentation to students	Monash University, Clayton	School students 50
Ashburton Primary School - Quantum electricity workshop	30/5/2023	Presentation to students, School-based activities	Ashburton Primary School, Ashburton	School students 140, School teachers 4
3 Minute Thesis - Faculty of Science round	7/6/2023	Presentation to students		School students 150
Quantum society industry event	8/6/2023	Presentation to students	UNSW Sydney, Kensington	Public 30

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
CSIRO STEM careers expo	15/6/2023	Presentation to students, School-based activities	Giants Stadium, Sydney	School students 250, School teachers 10
JMSS immersion day	16/6/2023	School-based activities, Workshop	Monash University, Clayton	School students 115, School teachers 6
JMSS work experience	19/6/2023	School-based activities		School students 2
3 Minute Thesis - preparation/rehearsal	21/6/2023	Outreach activity preparation		
AIP Women in Physics tour	28/6/2023	Presentation to the public	University of Western Australia, Perth	Public 100
AIP Women in Physics tour	29/6/2023	Presentation to students	Applecross Senior High School, Perth	School students 90, School teachers 3
AIP Women in Physics tour	29/6/2023	Presentation to students	Willetton Senior High School, Perth	School students 120, School teachers 4
AIP Women in Physics tour	30/6/2023	Presentation to students	Byford Secondary College, Perth	School students 38, School teachers 1
Writing scientific article	1/7/2023	Writing		
CONASTA	9/7/2023	Teachers' workshop, School-based activities	University of Adelaide, Adelaide	School teachers 120
JMSS - FLEET unit Intro talk	14/7/2023	Presentation to students	John Monash Science School, Clayton	School students 35
AIP Women in Physics tour	20/7/2023	Presentation to the public	University of Western Australia, Perth	Public 40
Interview with Australian Department of Industry Science and Resources	20/7/2023	Online communications, Government outreach	Online, Melbourne	
AIP pizza night	20/7/2023	Presentation to the public, Public event	Royal Society of Victoria, Melbourne	Public 20
Monash Tech School career launchpad	20/7/2023	School-based activities	Monash University, Clayton	School students 43

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
VIC Physics Girls in Physics breakfast	21/7/2023	Presentation to students, School-based activities	Monash University, Clayton	School students 90, School teachers 6
Monash Clayton open day	2/8/2023	Open day		Public
JMSS regional exchange program	2/8/2023	Presentation to students, School-based activities	Monash University, Clayton	School students 13, School teachers 2
Monash Clayton open day	6/8/2023	Open day	Monash University, Clayton	Public
UQ open day	6/8/2023	Open day	University of Queensland, Brisbane	Public
Monash Clayton open day FLEET lab tour	6/8/2023	Lab tour, Open day	Monash University, Clayton	Public 18, School students 18
Monash Clayton open day PACE display	6/8/2023	Open day	Monash University, Clayton	School students 200, Public 160
JMSS-FLEET unit presentation	7/8/2023	Presentation to students, School-based activities	John Monash Science School, Clayton	School students 35, School teachers 2
National science week	12/8/2023	Presentation to the public	Sugar Valley Library Museum, Cameron Park	Public 25
RMIT open day	13/8/2023	Open day	RMIT, Melbourne	Public 200
Science in the Scrub	13/8/2023	Public event	Western Sydney Parklands, Sydney,	Public 200
Life of a Physicist	14/8/2023	Presentation to students	Kotara High School, Adamstown	School students 120, School teachers 4
Earth Conservation X Space Exploration	15/8/2023	Public event	UNSW Sydney, Kensington	Public 100
Sydney Science Trail	16/8/2023	Presentation to the public, Presentation to students, Public event	Australian Museum, Sydney	Public 1200, School students 530, School teachers 27
Science in the Swamp	20/8/2023	Public event	Centennial Park, Sydney	Public 300

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Swinburne open day	26/8/2023	Lab tour, Open day	Swinburne, Melbourne	Public 70, School students 60
National Science Quiz	27/8/2023	Presentation to the public, Public event	The Capitol, Melbourne	School students 410, Public 820
JMSS-FLEET unit presentation	1/9/2023	Presentation to students, School-based activities	John Monash Science School, Clayton, Clayton	School students 35, School teachers 1
St. Brigids College student workshops	1/9/2023	Presentation to students, School-based activities	St Brigids College, Horsham	School students 100, School teachers 4
UNSW open day	2/9/2023	Lab tour, Open day	UNSW, Sydney	School students 35, Public 40
AIP Women in Physics tour	6/9/2023	Presentation to the public	University of Adelaide, Adelaide	Public 40
AIP Women in Physics tour	8/9/2023	Presentation to students	Salisbury High School	School students 25, School teachers 1
AIP Women in Physics tour	11/9/2023	Presentation to the public	Australian National University, Canberra	Public 30
AIP Women in Physics tour	12/9/2023	Presentation to students	Melba Copland College, Melba	School students 35, School teachers 1
AIP Women in Physics tour	12/9/2023	Presentation to students	Erindale College, Erindale	School students 20, School teachers 1
AIP Women in Physics tour	13/9/2023	Presentation to the public	Science Space, Wollongong	Public 40
AIP Women in Physics tour	13/9/2023	Presentation to students	St Mary's Star of the Sea, Melbourne	School students 30, School teachers 1
AIP Women in Physics tour	14/9/2023	Presentation to students	Wenona College, Sydney	School students 160, School teachers 6
AIP Women in Physics tour	14/9/2023	Presentation to the public	UNSW, Sydney	Public 25
University of Wollongong lab tours	15/9/2023	Lab tour, Open day	University of Wollongong, Wollongong	Public 30

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
ATSE Visionary Leadership	19/9/2023	Industry engagement, Engagement with STEM network	University of Melbourne, Parkville	Public 80
AIP Women in Physics tour	20/9/2023	Presentation to students	Don College, Devonport	School students 10, School teachers 1
AIP Women in Physics tour	20/9/2023	Presentation to students	Devonport High School, Devonport	School students 19, School teachers 1
AIP Women in Physics tour	21/9/2023	Presentation to students	Launceston College, Launceston	School students 15, School teachers 1
AIP Women in Physics tour	22/9/2023	Presentation to the public	University of Tasmania, Hobart	Public 12
AIP Women in Physics tour	22/9/2023	Presentation to students	Rosny College, Hobart	School students 45, School teachers 2
AIP Women in Physics tour	22/9/2023	Presentation to students	Taroona High School, Taroona	School students 30, School teachers 1
ECN symposium	27/9/2023	Engagement with STEM network	Monash University, Clayton	Early Career Researchers
Monash City Library holiday program workshops	27/9/2023	Presentation to the public, Presentation to students, School-based activities	Oakleigh Library, Oakleigh	School students 40, Public 8
World of Work mentoring program	12/10/2023	School-based activities	Kenmore State High School, Brisbane	School students 20
AIP Women in Physics tour	12/10/2023	Presentation to the public	University of Queensland, Brisbane	Public 34
AIP Women in Physics tour	12/10/2023	Presentation to students	Queensland Academy for Science Mathematics and Technology, Brisbane	School students 58, School teachers 2
Writing article	16/10/2023	Writing		
Editing school resources	17/10/2023	Online communications		
Camberwell Grammar School energy transition conference	18/10/2023	School-based activities	Camberwell Grammar School, Melbourne	School students 22, School teachers 6

OUTREACH ACTIVITIES

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Why researchers need to engage with the public	23/10/2023	Outreach activity preparation	University of Queensland, Brisbane	Public 100
Corpus Christi Primary School St Ives	23/10/2023	Presentation to students, School-based activities	Corpus Christi Primary School, St Ives	School students 80, School teachers 4
Shore Prep School workshops	24/10/2023	Presentation to students, School-based activities	Shore Prep School, North Sydney	School students 65, School teachers 3
AIP Women in Physics tour	25/10/2023	Presentation to the public	University of Newcastle, Newcastle	Public 90
JMSS FLEET lab tour	31/10/2023	Lab tour,Presentation to students	Monash University, Clayton	School students 38, School teachers 2
AIP Physics in Industry Day	2/11/2023	Briefing to industry, Briefing to government		
AIP public lecture on 2023 Nobel prize in Physics	10/11/2023	Presentation to the public, Public event	Swinburne University and Online	Public 100
Life of a Physicist	13/11/2023	Presentation to students	St Bede's Catholic College	School students 45, School teachers 2
It Takes a Spark student teacher conference	17/11/2023	Presentation to students, Teachers' workshop, School-based activities	John Paul College, Frankston	School students 45, School teachers 5
High school student visiting CSIRO	22/11/2023	Presentation to students	CSIRO, Lindfield, Sydney	
2023 Around-the-clock around-the-globe magnetics conference	8/12/2023	Research exhibition, Online communications, Public event		Public 594
VIC Physics network talk and dinner	13/12/2023	Teachers' workshop	Auburn Hotel, Melbourne	School teachers 20

OUTREACH ACTIVITIES

NON-PEER REVIEWED

DATE	TITLE	AUTHOR/S	PUBLISHER	LINKS
12/1/2023	Turning up the heat on topological thermoelectrics: FLEET Translation funding towards new chemical synthesis	Xiaolin Wang, David Cortie, Julie Karel	FLEET Research blog	https://www.fleet.org.au/blog/turning-up-the-heat-on-topological-thermoelectrics-fleet-translation-funding-towards-new-chemical-synthesis/
24/2/2023	Forging outreach relationships and taking nano/quantum to Rotorua schools	Golrokh Akhgar, Errol Hunt, Yik Kheng Lee, Karen Bayros, Joshua Gray, Jason Major	FLEET research blog	https://www.fleet.org.au/blog/forging-outreach-relationships-and-taking-nano-and-quantum-to-rotorua-schools/
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	FLEET Research Blog	https://www.fleet.org.au/blog/destroying-the-superconductivity-in-a-kagome-metal/
12/4/2023	Combining irradiation and lithography to engineer advanced conducting materials	David Cortie, Abdulhakim Bake, Peggy Qi Zhang	FLEET Research blog	https://www.fleet.org.au/blog/combining-irradiation-and-lithography-to-engineer-advanced-conducting-materials/
22/5/2023	Inspiring outreach, with bombs and light circuits	Grace Causer, Jason Major, Michael Barson	FLEET Research blog	https://www.fleet.org.au/blog/bombs-away-or-let-there-be-light-fleet-outreach/
12/6/2023	Getting wavy: New FLEET Schools Forces and Energy resource goes from Newton to Einstein	Jason Major	FLEET Research blog	https://www.fleet.org.au/blog/getting-wavy-new-fleet-schools-forces-and-energy-resource-goes-from-newton-to-einstein/
13/7/2023	A planet in the palm of your hand	Torben Daeneke, Caiden Parker	FLEET research blog	https://www.fleet.org.au/blog/space-has-got-ten-small-with-metallic-planet-like-nanodroplets/
21/8/2023	Hopes fade for 'room temperature superconductor' LK-99, but quantum zero-resistance research continues	Michael Fuhrer	The Conversation	https://theconversation.com/hopes-fade-for-room-temperature-superconductor-lk-99-but-quantum-zero-resistance-research-continues-211733
22/8/2023	Listening to nanoscale earthquakes	Jan Seidel, Cam Phu Nguyen	FLEET research blog	https://www.fleet.org.au/blog/topological-gardening-to-achieve-unexpected-spin-transport/
22/8/2023	'Topological gardening' to achieve unexpected spin transport	Nikhil Medhekar, Yuefeng Yin	FLEET research blog	https://www.fleet.org.au/blog/listening-to-nanoscale-earthquakes/
2/10/2023	Examining the superconducting diode effect	Michael Fuhrer, Xiaolin Wang, Muhammad Nadeem	FLEET Research Blog	https://www.fleet.org.au/blog/examining-the-superconducting-diode-effect/

NON-PEER REVIEWED

DATE	TITLE	AUTHOR/S	PUBLISHER	LINKS
4/10/2023	What has the Nobel Prize in Physics ever done for me?	Karen Livesey	ABC Science	https://www.abc.net.au/news/2023-10-04/what-has-the-nobel-prize-in-physics-ever-done-for-me/102935002
5/10/2023	Gallium research	Torben Daeneke, Caiden Parker	Australian Manufacturing Technology magazine	https://issuu.com/amtil/docs/1761_amt_octnov23_lr/40
16/10/2023	Solving quantum mysteries: New insights into 2D semiconductor physics	Meera Parish, Jesper Levinsen, Brendan Mulkerin	FLEET research blog	https://www.fleet.org.au/blog/solving-quantum-mysteries-new-insights-into-2d-semiconductor-physics/
1/12/2023	FLEET ECR workshop developing transferrable skills (and bowling)	Tich-Lam Nguyen, Yik Kheng Lee, Maedehsadat Mousavi, Mitko Oldfield, Abhay Gupta, Yow-Ming (Robin) Hu, Julian Ceddia, Bianca Fabricante, Yasufumi Nakano, Katherine Tajer	FLEET Research blog	https://www.fleet.org.au/blog/ecr-workshop-2023/

PRESS RELEASES

DATE	TITLE	AUTHOR/S	PUBLISHER	LINKS
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	EurekAlert SciMex	https://www.scimex.org/newsfeed/destroying-the-superconductivity-in-a-kagome-metal
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	EurekAlert SciMex	https://www.scimex.org/newsfeed/can-a-solid-be-a-superfluid-engineering-a-novel-supersolid-state-from-layered-2d-materials
15/6/2023	Tiny device mimics human vision and memory abilities	Sumeet Walia	EurekAlert SciMex	https://www.eurekalert.org/news-releases/992342
13/7/2023	A planet in the palm of your hand	Torben Daeneke, Caiden Parker	EurekAlert SciMex	https://www.scimex.org/newsfeed/space-has-gotten-small-with-metallic-planet-like-nanodroplets
22/8/2023	Listening to nanoscale earthquakes	Jan Seidel, Cam Phu Nguyen	EurekAlert SciMex	https://www.scimex.org/newsfeed/topological-gardening-to-achieve-unexpected-spin-transport
22/8/2023	'Topological gardening' to achieve unexpected spin transport	Nikhil Medhekar, Yuefeng Yin	EurekAlert SciMex	https://www.scimex.org/newsfeed/listening-to-nanoscale-earthquakes
2/10/2023	Examining the superconducting diode effect	Michael Fuhrer, Xiaolin Wang, Muhammad Nadeem	EurekAlert SciMex	https://www.scimex.org/newsfeed/examining-the-superconducting-diode-effect
16/10/2023	Solving quantum mysteries: New insights into 2D semiconductor physics	Meera Parish, Jesper Levinsen, Brendan Mulkerin	EurekAlert SciMex	https://www.scimex.org/newsfeed/solving-quantum-mysteries-new-insights-into-2d-semiconductor-physics

TRADITIONAL MEDIA

DATE	Type	TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
24/3/2023	Radio	New tech for decarbonisation	Torben Daeneke	Powerhouse Museum	https://100climateconversations.com/torben-daeneke/
15/6/2023	Newspaper	Tiny chip mimics human eye, brain in tech breakthrough	Sumeet Walia	Glen Innes Examiner	https://www.gleninnesexaminer.com.au/story/8234518/tiny-chip-mimics-human-eye-brain-in-tech-breakthrough/?src=rss
15/6/2023	Newspaper	Tiny chip mimics human eye, brain in tech breakthrough	Sumeet Walia	Namoi Valley Independent	https://www.nvi.com.au/story/8234518/tiny-chip-mimics-human-eye-brain-in-tech-breakthrough/
15/6/2023	Newspaper	Tiny chip mimics human eye, brain in tech breakthrough	Sumeet Walia	Eden Magnet	https://www.edenmagnet.com.au/story/5791664/tiny-brain-stimulator-could-treat-epilepsy/
15/6/2023	Newspaper	Tiny chip mimics human eye, brain in tech breakthrough	Sumeet Walia	Goulburn Post	https://www.goulburnpost.com.au/story/8234518/tiny-chip-mimics-human-eye-brain-in-tech-breakthrough/
15/6/2023	Newspaper	Tiny chip mimics human eye, brain in tech breakthrough	Sumeet Walia	The Examiner	https://www.examiner.com.au/story/8234518/tiny-chip-mimics-human-eye-brain-in-tech-breakthrough/
15/6/2023	Newspaper	Tiny chip mimics human eye, brain in tech breakthrough	Sumeet Walia	Canberra Times	https://www.canberratimes.com.au/story/8234518/tiny-chip-mimics-human-eye-brain-in-tech-breakthrough/
15/6/2023	Magazine	Tiny, ultra-fast breakthrough device mimicking human vision could be used for next gen bionic eye	Sumeet Walia	Cosmos Magazine	https://cosmosmagazine.com/technology/materials/mimic-human-vision-neuromorphic-chip/
28/6/2023	Radio	AIP Women in Physics tour: nano-magnets	Karen Livesey	ABC radio Perth	https://www.abc.net.au/listen/programs/scienceshow/attacking-cancer-with-tiny-magnets/103262092
14/9/2023	Radio	AIP Women in Physics tour	Karen Livesey	ABC Sydney	https://www.mediaweek.com.au/sydney-radio-ratings-2023-survey-5/

TRADITIONAL MEDIA

DATE	Type	TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
25/9/2023	Radio	AIP Women in Physics tour: Careers in Physics	Karen Livesey	ABC Hobart	
1/10/2023	Magazine	Listening to nanoscale earthquakes	Jan Seidel, Cam Phu Nguyen	Materials Australia magazine	https://issuu.com/materialsaustralia/docs/ma_september_2023_final_11october
1/10/2023	Magazine	'Topological gardening' to achieve unexpected spin transport	Nikhil Medhekar, Yuefeng Yin	Materials Australia magazine	https://issuu.com/materialsaustralia/docs/ma_september_2023_final_11october
3/10/2023	Radio	AIP Women in Physics tour	Karen Livesey	ABC Newcastle	
5/10/2023	Radio	AIP Women in Physics tour: Nobel Prize	Karen Livesey	ABC Victoria	https://www.abc.net.au/news/2023-10-04/what-has-the-nobel-prize-in-physics-ever-done-for-me/102935002
5/10/2023	Magazine	Gallium research	Torben Daeneke, Caiden Parker	Australian Manufacturing Technology magazine	https://issuu.com/amtil/docs/1761_amt_octnov23_lr/40
11/10/2023	Radio	AIP Women in Physics tour: Nobel Prize	Karen Livesey	ABC Adelaide	
11/10/2023	Radio	AIP Women in Physics tour: Nobel Prize	Karen Livesey	3RRR Party Show	https://www.rrr.org.au/explore/programs/the-party-show/episodes/26820-the-party-show-22-october-2023
	Radio	AIP Women in Physics tour	Karen Livesey	ABC Newcastle	
1/12/2023	Magazine	Novel approach to advanced electronics, data storage with ferroelectricity	Jan Seidel, Pankaj Sharma, Dawei Zhang	Materials Australia magazine	https://issuu.com/materialsaustralia/docs/ma_december_2023_20december
1/12/2023	Magazine	Solving quantum mysteries: New insights into 2D semiconductor physics	Meera Parish, Jesper Levinsen, Brendan Mulkerin	Materials Australia magazine	https://issuu.com/materialsaustralia/docs/ma_december_2023_20december
1/12/2023	Magazine	Solving quantum mysteries: New insights into 2D semiconductor physics	Meera Parish, Jesper Levinsen, Brendan Mulkerin	Nanotechnology World Association	https://www.nanotechnologyworld.org/mag-2dmaterials
1/12/2023	Radio	What is it like to be the COO of FLEET?	Tich-Lam Nguyen	Avid Research	https://avidresearch.com.au/?episodeId=128

TRADITIONAL MEDIA

ELECTRONIC NEWSLETTERS

DATE	ARTICLE TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
25/5/2023	Australian Academy of Science announces 2023 Fellows	Michael Fuhrer	Campus Morning Mail	https://campusmorningmail.com.au/news/australian-academy-of-science-announces-2023-fellow/
30/5/2023	Internationally renowned physicist Professor Michael Fuhrer elected Fellow of the Australian Academy of Science	Michael Fuhrer	Monash Science	https://www.monash.edu/science/news-events/news/2023/internationally-renowned-physicist-professor-michael-fuhrer-elected-fellow-of-the-australian-academy-of-science
1/6/2023	Australian Academy of Science Fellow Michael Fuhrer	Michael Fuhrer	Monash School of Physics & Astronomy	
1/6/2023	News and opportunities	Michael Fuhrer	Australian Institute of Physics	

ONLINE MEDIA

DATE	ARTICLE TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
23/1/2023	A Shield for 2D materials that adds vibrations to reduce vibration problems	Michael Fuhrer, Semonti Bhattacharyya, Matthew Gebert	Mobility Engineering	https://www.mobilityengineeringtech.com/component/content/article/tb/stories/blog/47435?m=2211
23/1/2023	Adding Vibrations to Electronics to Reduce Vibrations	Michael Fuhrer, Semonti Bhattacharyya, Matthew Gebert	Tech Briefs	https://www.techbriefs.com/component/content/article/tb/stories/blog/47435
24/2/2023	Taking nano and quantum science education into Rotorua schools	Golrokh Akhgar, Errol Hunt, Yik Kheng Lee, Karen Bayros, Jason Major	MacDiarmid Institute	https://www.macdiarmid.ac.nz/news-and-events/news/news-articles/taking-nano-and-quantum-science-education-into-rotorua-schools/
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Lifeboat	https://lifeboat.com/blog/2023/03/destroying-the-superconductivity-in-a-kagome-metal
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Stardrive	http://www.stardrive.org/index.php/menu-stardrive-news/sd-science-news/65236-destroying-the-superconductivity-in-a-kagome-metal
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Nanotechnology Now	http://www.nanotech-now.com/news.cgi?story_id=57311
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Science Daily	https://www.sciencedaily.com/releases/2023/03/230303105219.htm
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Knowledia	https://news.knowledia.com/US/en/articles/destroying-the-superconductivity-in-a-kagome-metal-ef6b551e4e05f0d1f2036e0acc9bead7bf8a125b
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Techy Corporation	https://write.nursingacers.blog/destroying-the-superconductivity-in-a-kagome-metal/
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Nanotechnology World	https://www.nanotechnologyworld.org/post/destroying-the-superconductivity-in-a-kagome-metal
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	ScienMag	https://scienmag.com/destroying-the-superconductivity-in-a-kagome-metal/
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Nanowerk	https://www.nanowerk.com/nanotechnology-news2/newsid=62494.php

ONLINE MEDIA

DATE	ARTICLE TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Chinese Academy of Sciences	https://english.cas.cn/newsroom/research_news/phys/202302/t20230223_327561.shtml
3/3/2023	Destroying the superconductivity in a kagome metal	Lan Wang, Guolin Zheng, Cheng Tan	Phys.org	https://phys.org/news/2023-03-destroying-superconductivity-kagome-metal.html
9/3/2023	Melbourne scientists find enzyme that can make electricity out of tiny amounts of hydrogen	Michael Fuhrer	ABC News	https://www.abc.net.au/news/2023-03-09/monash-university-air-electricity-enzyme-soil/102071786
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	AZO Quantum	https://www.azoquantum.com/Article.aspx?ArticleID=419
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	Science Daily	https://www.sciencedaily.com/releases/2023/03/230330102101.htm
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	Nanowerk	https://www.nanowerk.com/nanotechnology-news2/newsid=62703.php
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	Phys.org	https://phys.org/news/2023-03-solid-superfluid-supersolid-state-layered.html
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	ScienMag	https://scienmag.com/can-a-solid-be-a-superfluid-engineering-a-novel-supersolid-state-from-layered-2d-materials/
30/3/2023	Can a solid be a superfluid? Engineering a novel supersolid state from layered 2D materials	Alex Hamilton, David Neilson	Bioengineer.org	https://bioengineer.org/can-a-solid-be-a-superfluid-engineering-a-novel-supersolid-state-from-layered-2d-materials/
5/4/2023	Combing irradiation and lithography to engineer advanced conducting materials	Peggy Qi Zhang, David Cortie, Abdulhakim Bake	Nanowerk	https://www.nanowerk.com/nanotechnology-news2/newsid=62790.php?utm_source=dlvr.it&utm_medium=twitter

ONLINE MEDIA

DATE	ARTICLE TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
5/4/2023	Combing irradiation and lithography to engineer advanced conducting materials	Peggy Qi Zhang, David Cortie, Abdulhakim Bake	Nanotechnology World Association	https://www.nanotechnologyworld.org/post/combining-irradiation-and-lithography-to-engineer-advanced-conducting-materials
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13/7/2023	Space has gotten small with metallic, planet-like nanodroplets	Torben Daeneke, Caiden Parker	Ultra Glass Coatings	http://www.ultraglasscoatings.co.uk/space-has-gotten-small-with-metallic-planet-like-nanodroplets/
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16/10/2023	Solving quantum mysteries: New insights into 2D semiconductor physics	Meera Parish, Jesper Levinsen, Brendan Mulkerin	AZO Nano	https://www.lifetechnology.com/blogs/life-technology-science-news/novel-approach-to-advanced-electronics-data-storage-with-ferroelectricity
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31/10/2023	Science researchers awarded more than $7 million in Australian Research Council (ARC) Discovery Projects (DP) funding	Agustin Schiffrin, Jesper Levinsen	Monash University News	https://www.monash.edu/science/news-events/news/current/science-researchers-awarded-more-than-$7-million-in-australian-research-council-arc-discovery-projects-dp-funding
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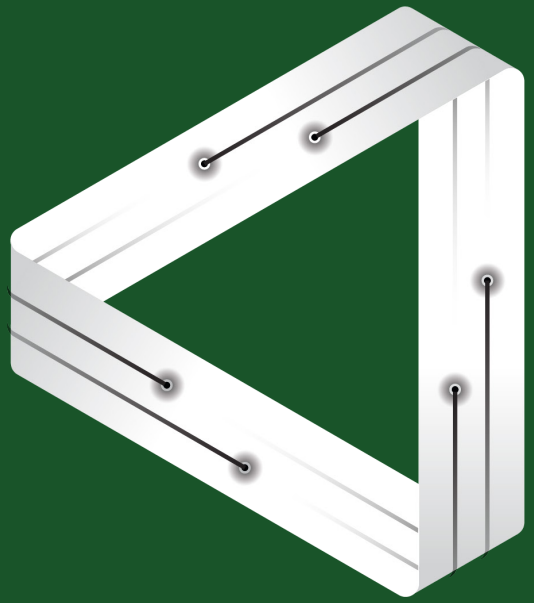

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