



FLEET

ARC CENTRE OF EXCELLENCE IN
FUTURE LOW-ENERGY
ELECTRONICS TECHNOLOGIES

#FLEETCentre

FLEET
SATELLITE
SYMPOSIUM
2022

FRIDAY 1 JULY 2022

08:45 <i>Chair: Alex Hamilton</i>	15	Michael Fuhrer – Welcome, introduction to FLEET
09:00	30	Elena Ostrovskaya – Room-temperature exciton polaritons in monolayer WS ₂
09:30	30	Shaffique Adam – Some theoretical results for twisted bilayer graphene near magic angle
10:00	45	coffee break
10:45 <i>Chair: Michael Fuhrer</i>	30	Alex Hamilton – Towards the artificial band structure in GaAs two dimensional electron gases
11:15	30	Sankar Das Sarma – Physics of mTMD bilayers
11:45	30	Francois Peeters – Superfluidity and supersolid of spatially indirect excitons in monolayer heterostructures
12:15	90	lunch
13:45 <i>Chair: Xiaolin Wang</i>	30	Laurens Molenkamp – Making sense of the quantum anomalous Hall effect
14:15	30	Jelena Klinovaija – Spontaneous symmetry breaking in monolayers of transition metal dichalcogenides
14:45	30	Michael Fuhrer – The topological transistor as a low-voltage switch
15:15	45	coffee break
16:00 <i>Chair: Michael Fuhrer</i>	30	Lan Wang – Gate-tunable magnetism & spin transport in 2D materials
16:30	30	Marcos Guimaraes – Chiral magnetism and ultrafast magnetization dynamics in van der Waals magnets
17:00	30	Elaine Li – Long-lived topological magnons in antiferromagnets
17:30	15	Q & A and final words