Quantum Dot 1-day meeting
Programme

Friday 25 October 2024

9:00 AM - 9:30 AM	Arrival and Refreshments
9:30 AM - 10:30 AM	Session 1 9:30 AM - 10:00 AM Anthony Bennett (Invited Speaker) Temperature Quantum Light emission from Colour Centres in Aluminium Nitride 10:00 AM - 10:15 AM Alex Clark Continuous-Wave Characterisation of Photon Indistinguishability and Nanophotonic Coupling 10:15 AM - 10:30 AM Teymour Talha-dean Single electron tunneling in 2D vdW heterostructures via thermo-mechanical cleaning of interfaces
10:30 AM - 11:15 AM	Morning Break, Posters and Exhibition
11:15 AM - 12:30 PM	Session 2 11:15 AM - 11:45 AM Evgeny Chekhovich (Invited Speaker) Nuclear spins in GaAs/AlGaAs quantum dots: magnetic resonance perspective 11:45 AM - 12:00 PM Zhe Xian Koong Optical Control of an Electron Spin in an InGaAs Quantum Dot with Magnetic-field induced Cycling Transitions 12:00 PM - 12:15 PM Petros Laccotripes High-fidelity spin-photon entanglement using an InAs/InP quantum dot emitting in the telecom C-Band 12:15 PM - 12:30 PM Mark Hogg Fast optical control of a coherent hole spin in a microcavity
12:30 PM - 1:45 PM	Lunch and Photo
1:45 PM - 3:00 PM	Session 3 1:45 PM - 2:15 PM Kouichi Akahane (Invited Speaker) Ultra-low density InAs quantum dot grown on an InP(311)B substrate via interdiffusion epitaxy 2:15 PM - 2:30 PM Akshay Kumar Verma Wafer Scale Ultra-low Density InAs Quantum Dots on GaAs(100) 2:30 PM - 2:45 PM Guoliang Zhou Site-control of InAs quantum dots by droplet epitaxy in MOVPE 2:45 PM - 3:00 PM David Binks Singly Mn-doped colloidal quantum dots grown from molecular seed clusters
3:00 PM - 3:30 PM	Afternoon Break, Posters and Exhibition

3:30 PM - 4:45 PM	**Session 4** **3:30 PM - 4:00 PM Julian Wiercinski (Invited Speaker)** Theory of cooperative emission from quantum dots **4:00 PM - 4:15 PM Dominic Hallett** Controlling cooperative emission and superradiance in waveguide-coupled quantum dots **4:15 PM - 4:30 PM Sheena Shaji** Cooperative emission from multiple, remote indistinguishable quantum dots **4:30 PM - 4:45 PM Ella Mann-Andrews** An emerging security technology: using CuInS/ZnS quantum dots for optical physically unclonable functions
4:45 PM - 5:00 PM	**Closing**