

Room JA 502

Chair Dr C Trager-Cowan

Time	Name	Title
13:00-13:15	BURNS ELISE	Investigation of Polytypism in nitride semiconductors
13:15-13:30	DOAK ELLIOT	Noble Metal Quantum Dots
13:30-13:45	EARLE ALASDAIR	Investigating non-ideal behaviour in current-voltage curves from GaN-based LEDs
13:45-14:00	JACKSON JAMES	Quantum Dots TBC
14:00-14:15	SALMOND BEN	Colour stability of LEDs from the red to the UV
14:15-14:30	WEBSTER DAVID	RE-doped III-nitrides for solid state lighting applications
14:30-14:45	Break	

Room JA 502

Chair Prof G McConnell

Time	Name	Title
14:45-15:00	O'HARE DAWN	Noble Metal Quantum Dots
15:15-15:30	WATERS DALE	Investigation of Polytypism in nitride semiconductors
15:30-15:45	MACLURE DANIEL MARK	Pathological modifications in proteins detected by their intrinsic fluorescence
15:45-16:00	MCCOLL DANIEL DAVID	Quantification and measurement of marine microbial populations using the Mesolens
16:00-16:15	CUTHBERTSON STUART	Moving a standing wave with an electronically controlled piezo-mirror device
16:15-16:30	PERCIVAL JOHN	Quantification and measurement of marine microbial populations using the Mesolens

Room JA 504

Chair Dr M Strain

Time	Name	Title
13:00-13:15	ANDERSON STEVEN	Quantum applications of Semiconductor Disk Lasers
13:15-13:30	ANDERSON STEWART	Astigmatic mirror multipass absorption cells for long path length spectroscopy
13:30-13:45	BOMMER SEAN PATRICK	Development of a highly accurate alignment process for multi-stage laser lithography
13:45-14:00	GEDDES DANIEL	Acquisition, Pointing, and Tracking for CubeSat QKD
14:00-14:15	MCLAFFERTY SAM	Nonlinear Optical Loop Mirrors Based on 3 X 3 fibre optic couplers
14:15-14:30	SCOTT PHILIP	Neurophotonic Systems for Interfacing with the Retina
14:30-14:45	Break	

Room JA 504

Chair Prof S Kuhr

Time	Name	Title
14:45-15:00	KINANIS ALEXANDROS	Quantum interference and boson sampler verification
15:15-15:30	STEVEN RACHAEL	A Polarisation Analyser for Quantum Optics Experiments
15:30-15:45	WADE EWAN	Photonic Neurons: Spiking information processing with lasers
15:45-16:00	MCCALLUM JAKE	Signal processing for Atomic Magnetometry
16:00-16:15	GLASS HELENA	Grating magneto-optical trap modelling
16:15-16:30	BALLANTYNE CALUM	Implementation and characterization of optical lattice potentials for ultracold atoms

Room JA 506

Chair Dr B Eliasson

Time	Name	Title
13:00-13:15	BROWN JAMES	The scientific applications of X-ray Free Electron Lasers
13:15-13:30	BRUCE EMILY	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator
13:30-13:45	MOIR CONNOR	Stochastic Particle Heating of Charged Particles by Plasma Waves
13:45-14:00	MCQUEEN CHRISTOPHER	Radiation Reaction
14:00-14:15	VALK JILLES	Modelling relativistic electron motion in spatially varying intense laser fields
14:15-14:30	HUNTER DANIEL	Intense Laser Pulse Filamentation in Near Critical Density Plasmas
14:30-14:45	Break	

Room JA 506

Chair Prof A W Cross

Time	Name	Title
14:45-15:00	RUTHERFORD LORNE	Space Radiation Reproduction and Testing
15:15-15:30	CAMPBELL DAVID	Monte Carlo Modelling of Particle Beam-Matter Interaction
15:30-15:45	KELLY ELLIS	Electron beam physics and transport modelling
15:45-16:00	MCCRORY KIERAN	Ion Channel Laser with Large Oscillation Amplitude