

Project Presentation

Each student will be required to give a short project talk - (Each talk should be 10 mins duration leaving 5 mins for questions)

22nd November 2017

Chair: Prof Kevin O'Donnell, JA 3.27

Student	Project	Time	Supervisor	Independent Marker
Marie Clifford	UV Laser diodes: pushing the boundary	1:00 – 1:15pm	Rob Martin	Gunnar Kusch
Parashqevi Pandazi	Modelling X-ray fluorescence	1:15 – 1:30pm	Paul Edwards	Jochen Bruckbauer
Daniel Dyer	RE-doped III-nitrides for solid state lighting applications	1:30 – 1:45pm	Kevin O'Donnell	Paul Edwards
Douglas Cameron	Hysteretic Photochromic Switching (HPS) of europium-magnesium (Eu-Mg) defects in GaN	1:45 – 2:00pm	Kevin O'Donnell	Paul Edwards
Eilidh McGowan	Twisted Nanostructures	2:00 – 2:15pm	Ben Hourahine	Oliver Henrich
Ruairidh McArthur	Simulating topological materials	2:45 – 3:00pm	Ben Hourahine	Andrew Daley
Kevin McKechnie	Spectroscopic Studies of Dye Aggregation	3:00 – 3:15pm	Jens Sutter	David Birch
Rafael Iannetta	Noble Metal Quantum Dots	3:15 – 3:30pm	Yu Chen	Olaf Rolinski
Benjamin McGrogan	Self-phase Modulation of Relativistically intense laser pulses in near critical density plasmas	3:30 – 3:45pm	Ross Gray	Martin King
Aidan White	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator	3:45 – 4:00pm	Mark Wiggins	Dino Jaroszynski

22nd November 2017

Chair: Prof John Jeffers, JA 8.11

Student	Project	Time	Supervisors	Independent Markers
David Dunbar	Photonic Neurons: Spiking information processing with lasers	1:00 – 1:15pm	Antonio Hurtado	Thorsten Ackemann
Ruairidh Smith	Photonic Neurons: Spiking information processing with lasers	1:15 – 1:30pm	Antonio Hurtado	Thorsten Ackemann
Ian Millar	Characterisation of diamond for laser applications	1:30 – 1:45pm	Alan Kemp	Vasili Savitski, Sean Reilly
Robbie McDermott	Observing Beam Propagation by Fluorescence	1:45 – 2:00pm	Aidan Arnold	Gian-Luca Oppo
Katherine McLellan	Implementation and characterization of optical lattice potentials for ultracold atoms	2:00 – 2:15pm	Elmar Haller	Stefan Kuhr
Adam Ramsay	Entangled Optical Turbulence	2:30 – 2:45pm	Gian-Luca Oppo	Alison Yao
Shaun Malone	Non Resonant Optical Cavities	2:45 – 3:00pm	Nigel Langford	Alison Yao
Stacey Connan	Computational Modelling of X-ray Free Electron Lasers	3:00 – 3:15pm	Brian McNeil	Gordon Robb
Aidan McFadden	Quantifying the entanglement of global quantum evolutions and measurements	3:15 – 3:30pm	Marco Piani	Daniel Oi
Connor McKeown	Quantification of the entanglement of identical particles	3:30 – 3:45pm	Marco Piani	Andrew Daley
Bohdan Starosta	Matrix Product States	3:45 – 4:00pm	Luca Tagliacozzo	Daniel Oi