

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)

23rd November 2016

Chair: Prof Rob Martin, JA 5.07

Student	Project	Time	Supervisor	Independent Marker
Ruaraidh Dumbreck	Noise and system response of CCD spectrographs for luminescence spectroscopy	1:00 – 1:15pm	Paul Edwards	Thomas Han
Laurence Nix	Twisted nanostructures	1:15 – 1:30pm	Ben Hourahine	Nigel Badnell
Crawford Wright	Gravity Gradiometry with Satellite Constellations	1:30 – 1:45pm	Nicholas Lockerbie	Paul Griffin
Liam Fleming	Spectroscopic Studies of Melanin Fibrils: Spectra, Kinetics, Modulators	1:45 – 2:00pm	Jens Sutter	Olaf Rolinski
Patrikas Prusinskas	Quantum dot dynamics by fluorescence lifetime	2:00 – 2:15pm	Olaf Rolinski	Ben Hourahine
Declan Wilkinson	Polymorphism of LiCl ions in water	2:30 – 2:45pm	Neil Hunt	Yu Chen
Owen Brady	A Physical Investigation of Protein-drug Binding	2:45 – 3:00pm	Neil Hunt	Jens Sutter
Lily Confield	Uncovering the early stages of protein folding	3:00 – 3:15pm	Neil Hunt	Jens Sutter
Peter Strain	Development of molecular-scale computer models for enhanced oil recovery	3:15 – 3:30pm	Neil Hunt	Olaf Rolinski
Ashley Garton	Noble Metal Quantum Dots	3:30 – 3:45pm	Yu Chen	Ben Hourahine
Peter Linton	Noble Metal Quantum Dots	3:45 – 4:00pm	Yu Chen	Ben Hourahine
Andrew Gough	Medical Radio-isotope Production using a Laser-Plasma Wakefield Accelerator	4:15 – 4:30pm	Mark Wiggins	Zheng-Ming Sheng
Fiona MacKay	Space Radiation Reproduction and Testing	4:30 – 4:45pm	Bernhard Hidding	Mark Wiggins
Fraser McCallum	Space Radiation Reproduction and Testing	4:45 – 5:00pm	Bernhard Hidding	Mark Wiggins
Ryan McDermott	Femtosecond chemistry with laser-plasma-accelerators	5:00 – 5:15pm	Bernhard Hidding	Phil MacInnes

23rd November 2016

Chairman: Prof Gian-Luca Oppo, JA 7.33

Student	Project	Time	Supervisors	Independent Markers
Grant Rushford	Interaction of light with Rubidium vapour	1:00 – 1:15pm	Thorsten Ackemann	Alison Yao
Simon Armstrong	Characterization of Optically pumped Quantum Well and Quantum Dot Vertical-cavity Structures	1:15 – 1:30pm	Thorsten Ackemann	Antonio Hurtado
Aimee Wright	Beam quality of broad-area lasers	1:30 – 1:45pm	Thorsten Ackemann	Antonio Hurtado
Joshua Robertson	Photonic Neurons: Spiking information processing with lasers	1:45 – 2:00pm	Antonio Hurtado	Thorsten Ackemann
Emma Le Francois	Nanowire and nanocrystal lasers	2:00 – 2:15pm	Nicolas Laurand	Francesco Papoff
John Filshie	Observing Beam Propagation by Fluorescence	2:30 – 2:45pm	Paul Griffin	Nigel Langford
Hao Yang	Bose-Einstein condensate experiments	2:45 – 3:00pm	Aidan Arnold	Elmar Haller
Paul Graham	BEC simulations	3:00 – 3:15pm	Gordon Robb	Aidan Arnold
Erin McAleese	Cold atom-light interactions	3:15 – 3:30pm	Gordon Robb	Marco Piani
Jenny Morgan	The theory of X-ray Free electron Lasers	3:30 – 3:45pm	Brian McNeil	Bengt Eliasson
Craig Roy	Four-wave Mixing in Atomic Gases	4:00 – 4:15pm	Gordon Robb	Paul Griffin
Malcolm Jardine	Transport dynamics of quantum gases in optical potentials	4:15 – 4:30pm	Andrew Daley	Stefan Kuhr
Sukhpal Singh	Hybrid Quantum Technologies	4:30 – 4:45pm	Jonathan Pritchard	Nicholas Lockerie
Ilian Despard	Rydberg excitations scheme for hybrid quantum technologies	4:45 – 5:00pm	Jonathan Pritchard	Nicholas Lockerie