

1st Round PH450 Project Allocation

Name	Reg No Project	1st Sup	2nd Sup
AVIS WILLIAM	201502333 Nonlinear vacuum electrodynamics	Adam Noble	
BUCK ANGUS	201630514 Radiation Reaction	Adam Noble	Dino Jaroszynski, Samuel Yoffe
EASTON JACK	201426842 Design, simulation and experiments of a microwave undulator	Adrian Cross	Liang Zhang
BREGAZZI ALAN	201527224 Observing Beam Propagation by Fluorescence	Aidan Arnold	Paul Griffin
STEPHEN SAM CAMPBELL	201520701 Understanding how to exploit diamond in solid-state lasers	Alan Kemp	Vasili Savitski
PURVIS ANTHONY	201502422 Simulations of the Demonstration of Ionisation Cooling Experiment	Alan Young	Kevin Ronald
MCGURK COLLETTE	201449418 Using angular momentum of light to detect particles in fluids	Alison Yao	
GOVENLOCK GREIG STEPHEN	201516388 Helical waves in optical cavities for quantum communication	Alison Yao	Gian-Luca Oppo
WEBB JONATHAN	201502447 Quantum transport in superconducting wires and cold atoms	Andrew Daley	
WALLACE STEWART	201512902 Magnetic states with long-range interactions	Andrew Daley	
KOPP YASMINE	201841131 Photonic Neurons: Spiking information processing with lasers	Antonio Hurtado	Thorsten Ackemann
DRAKOPOULOS ALEXIS JOHANNES	201302555 Learning the Ising Model	Ben Hourahine	
KOTZAI ALBES	201547274 Computing the inverse square law	Ben Hourahine	
ELLIOT CAMERON	201449329 Stochastic Particle Heating of Charged Particles by Plasma Waves	Bengt Eliasson	Kevin Ronald
HEWITT ADAM	201528856 Space Radiation Reproduction and Testing	Bernhard Hidding	Mark Wiggins
DUNCAN CRAIG	201547232 Space Radiation Reproduction and Testing	Bernhard Hidding	Mark Wiggins
HANNAWAY THOMAS	201500329 Beam-driven Plasma Wakefield Acceleration (PWFA)	Bernhard Hidding	Dino Jaroszynski
DOWNS SOPHIE	201516859 Monte Carlo Modelling of Particle Beam-Matter Interaction	Bernhard Hidding	Mark Wiggins
LIDSTRÖM SEBASTIAN	201543678 The theory of X-ray Free electron Lasers	Brian McNeil	Gordon Robb
ANDERSON JOHN	201502317 Computational Modelling of X-ray Free Electron Lasers	Brian McNeil	Gordon Robb
CHRISTOPHER JAY	201513666 Can techniques from nanoscale imaging help millimetre scale mesoscopy?	Brian Patton	
RICHFORD KYLE HUGH	201500921 Development of a Phase Contrast Imaging system for use with an in-development low-cost, open-access detector for water quality	Brian Patton	Stephen Grant
WISTUBA JORDAN	201322250 Characterisation and implementation of computational super-resolution algorithms	Brian Patton	Sebastian van de Linde
STULGA DALIUS	201629539 Reference Frames, Superselection, and Entanglement	Daniel Oi	
KEAY AIDAN	201536752 Characterising Digital Camera Sensors	Daniel Oi	
SHAW KYLE	201513706 Characterising Digital Camera Sensors	Daniel Oi	
MITCHELL MATTHEW	201502406 Implementation and characterization of optical lattice potentials for ultracold atoms	Elmar Haller	Stefan Kuhr
FORREST STEVEN	201511495 Using angular momentum of light to detect particles in fluids	Francesco Papoff	Alison Yao, David McKee

CURRAN KEVIN	201418126	Scattering of light beams carrying angular momentum	Francesco Papoff	Alison Yao
CRAIG REBECCA	201502341	Optical clearing of mouse tissue for mesoscopic imaging	Gail McConnell	
CLAPPERTON MEGAN	201505866	Quantification of 3D Mesolens image datasets	Gail McConnell	
HENDERSON GRANT	201617127	Opto-mechanics of Bose-Einstein Condensates in Optical Cavities	Gian-Luca Oppo	Gordon Robb
DUFF GRAHAM	201348882	Soliton Glass	Gian-Luca Oppo	Francesco Papoff
WALKER JOSH	201608038	Bose Einstein Condensate (BEC) Simulations	Gordon Robb	Aidan Arnold
SINCLAIR CRAIG	201418718	Bose Einstein Condensate (BEC) Simulations	Gordon Robb	Aidan Arnold
PANTONY LEWIS	201415469	Interactive Physics Simulations	Gordon Robb	Nigel Langford
MCCORMICK EMMA	201514135	Exploring Standing Wave Microscopy for Imaging Microalgae	Jana Schniete	Gail McConnell
HALL BRENDAN	201511702	Quantum applications of Semiconductor Disk Lasers	Jennifer Hastie	Paulo Hisao Moriya
GAVIGAN EUAN	201515879	Quantum applications of Semiconductor Disk Lasers	Jennifer Hastie	Paulo Hisao Moriya
NIKOLATOS CHARALAMPOS	201547240	Creation and control of continuous-mode optical superposition qubits	John Jeffers	Luca Mazzarella
GREEN INNES	201517520	Two-Photon Young's Beamsplitters for Communication	John Jeffers	
DYER SEAN	201502382	Keeping time with a laser pointer	Jonathan Pritchard	Erling Riis
MILLAR CALUM	201511551	Generating Arbitrary Arrays for Quantum Information Processing	Jonathan Pritchard	Aidan Arnold
MACDONALD LOUISE	201511527	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator	Mark Wiggins	
BALLANTYNE FRASER ROBERT	201512148	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator	Mark Wiggins	
MCCAHERN STEVEN	201513722	A 6 degree-of-freedom platform for Micro-Transfer Printing on curved surfaces	Michael Strain	Benoit Guilhabert
STOYANOV SVETOSLAV	201525565	Photon velocity control on a silicon photonic chip	Michael Strain	Benoit Guilhabert
MCARTHUR MURRAY	201511543	Atomic Processes for Astrophysical Plasmas	Nigel Badnell	Junjie Mao
LEE ROSS	201511519	Atomic Processes for Astrophysical Plasmas	Nigel Badnell	Junjie Mao
THOMSON WAYNE	201348311	Astigmatic mirror multipass absorption cells for long path length spectroscopy	Nigel Langford	
ANWAR ZUHRAH	201528898	Pathological modifications in proteins detected by their intrinsic fluorescence	Olaf Rolinski	Yu Chen
WILLMS TIDO	201841547	Pathological modifications in proteins detected by their intrinsic fluorescence	Olaf Rolinski	Yu Chen
HUDEK MAGDALENA	201510814	Coarse-Grained DNA Simulation of Bacterial Plasmids	Oliver Henrich	
BENTLEY-ABBOT CALUM	201521210	Lattice Boltzmann Simulation of Flow Through Topological Defects	Oliver Henrich	
SMYTH STUART	201527054	Grating Magneto-Optical Trap experiments	Paul Griffin	
SHAW ROBERT	201529323	Propagation of orbital-angular momentum beams through a scattering medium	Paul Griffin	David McKee
DOLIER EWAN	201502471	Laser-driven ion acceleration from ultrathin foils undergoing relativistic self-induced trans	Paul McKenna	Robbie Wilson
CUTTING EUAN	201502358	Radiation reaction effects in ultra-intense laser-foil interactions	Paul McKenna	Remi Capdessus
GETCHELL CLAIRE	201515065	Scattering of twisted light by chiral molecules	Robert Cameron	Alison Yao

QUINN CALUM	201525832	Evaluating Spot-Finding Methods	Sebastian van de Linde	Daniel Oi
PHILLIPS ROSS	201520159	Three-Dimensional Single-Molecule Based Super-Resolution Imaging	Sebastian van de Linde	Brian Patton
LEASK VAILA ANN	201513607	Atomic Physics Game Design for Outreach Activities	Stuart Ingleby	Paul Griffin, Gordon Robb
CONN BHAYLIE	201540159	Beam Quality of Broad-area Diode Lasers	Thorsten Ackemann	Michael Strain
SAEED KAISER	201515723	Characterization of optically pumped quantum well and quantum dot vertical-cavity structures	Thorsten Ackemann	Antonio Hurtado
FARLEY EUAN	201317467	Spectroscopy of Dy-doped crystals for mid-IR laser applications	Vasili Savitski	Alan Kemp
STEWART CHRISTOPHER	201502439	Noble Metal Quantum Dots	Yu Chen	
LIU YINHONG	201721218	Attosecond radiation from laser interaction with a solid target	Zhengming Sheng	Weimin Wang
FAN CHENTAO	201732798	Plasma Optical Modulators for Intense Lasers	Zhengming Sheng	Weimin Wang
WANG ZHANGYU	201721200	Terahertz radiations driven by two-colour lasers in gas	Zhengming Sheng	Weimin Wang