PH450 Project Allocation: 1st Round

Name			Course	Project Title	1st Supervisor
Dylan Bryan	McClue	201407904	BSc Hons M&Phys	Nonlinear waves in plasmas	Adam Noble
James	Jackson	201415493	MPhys	Characterisation of diamond for laser applications	Alan Kemp
Gary	Quinn	201427636	BSc Hons Phys	Understanding how to exploit diamond in solid-state lasers	Alan Kemp
Ross	Angus	201335423	BSc Hons PwT	Simulations of the Demonstration of Ionisation Cooling Experiment	Alan Young
Jamie Lee	Catto	201405003	MPhys	Helical waves in optical cavities for quantum communication	Alison Yao
Callum	Love	201417738	BSc Hons Phys	Nonlinear Propagation of Structured Light	Alison Yao
Alexandros	Kinanis	201430566	MPhys	Quantum interference and boson sampler verification	Andrew Daley
Ciaran Edward	O'Brien	201427767	BSc Hons Phys	Magnetic states with long-range interactions	Andrew Daley
Ewan Cameron	Wade	201418784	MPhys	Photonic Neurons: Spiking information processing with lasers	Antonio Hurtado
Rachel	Cannon	201411298	MPhys	Computing the inverse square law	Ben Hourahine
Andrew	Daffurn	201445422	BSc Hons Phys	Twisted Nanostructures	Ben Hourahine
Connor Mclean	Moir	201409979	BSc Hons Phys	Stochastic Particle Heating of Charged Particles by Plasma Waves	Bengt Eliasson
David James	Campbell	201411873	MPhys	Monte Carlo Modelling of Particle Beam-Matter Interaction	Bernhard Hidding
Ellis	Kelly	201427385	MPhys	Electron beam physics and transport modelling	Bernhard Hidding
Allan Peter	McWilliam	201449531	MPhys	Space Radiation Reproduction and Testing	Bernhard Hidding
Lorne Magnus James	Rutherford	201449450	BSc Hons Phys	Space Radiation Reproduction and Testing	Bernhard Hidding
Stewart	Anderson	201424905	BSc Hons Phys	The theory of X-ray Free electron Lasers	Brian McNeil
James Campbell	Brown	201425202	BSc Hons Phys	The scientific applications of X-ray Free Electron Lasers	Brian McNeil
Declan	McCourt	201449400	BSc Hons Phys	Computational Modelling of X-ray Free Electron Lasers	Brian McNeil
Elise	Burns	201547258	MPhys	Investigation of Polytypism in nitride semiconductors	Carol Trager-Cowan
Dale Mark	Waters	201413556	MPhys	Investigation of Polytypism in nitride semiconductors	Carol Trager-Cowan
Daniel Martin	Geddes	201449353	BSc Hons Phys	Acquisition, Pointing, and Tracking for CubeSat QKD	Daniel Oi
Grant Andrew	Reddie	201410439	BSc Hons Phys	Gravity Gradiometry with Satellite Constellations	Daniel Oi
Christopher John Gordon	McQueen	201516427	MPhys	Radiation Reaction	Dino Jaroszynski
Anujan	Thiagaraja	201617005	MPhys	Nonlinear Vacuum Electrodynamics	Dino Jaroszynski
Calum	Ballantyne	201425618	BSc Hons Phys	Implementation and characterization of optical lattice potentials for ultracold atoms	Elmar Haller
William Stuart	Twaddle	201441884	BSc Hons Phys	Design and Construction of a Fabry-Perot Scanning Interferometer	Elmar Haller
Robbie	McCormack	201306288	BSc Hons Phys	Using angular momentum of light to detect particles in fluids	Francesco Papoff
Stuart	Cuthbertson	201420553	MPhys	Moving a standing wave with an electronically controlled piezo-mirror device	Gail McConnell
Edward	Irwin	201404591	MPhys	Making light-sheets for microscopy and mesoscopy	Gail McConnell
John	Percival	201316788	BSc Hons Phys	Quantification and measurement of marine microbial populations using the Mesolens	Gail McConnell

Mark Anthony	Carroll	201238485	BSc Hons M&Phys	Opto-mechanics of Bose-Einstein Condensates in Optical Cavities	Gian-Luca Oppo
Alistair	Ferguson	201448886	BSc Hons M&Phys	Cold Atom-Light Interactions	Gordon Robb
Cameron	Smith	201313764	BSc Hons Phys	Interactive Physics Simulations	Gordon Robb
Victor	Vandeville	201747337	Erasmus	Four-wave Mixing in Atomic Gases	Gordon Robb
Steven	Anderson	201424913	BSc Hons Phys	Quantum applications of Semiconductor Disk Lasers	Jennifer Hastie
Ben	Salmond	201449468	MPhys	Colour stability of LEDs from the red to the UV	Jochen Bruckbauer
Michael	Reid	201404607	BSc Hons Phys	Creation and control of continuous-mode optical superposition qubits	John Jeffers
Philip Andrew	Scott	201449557	MPhys	Neurophotonic Systems for Interfacing with the Retina	Keith Mathieson
Stuart	Graham	201313756	BSc Hons Phys	Phosphorescence of glowstones™	Kevin O'Donnell
David	Webster	201426525	MPhys	RE-doped III-nitrides for solid state lighting applications	Kevin O'Donnell
Kieran James	Wilson	201516401	MPhys	Simulation of Langmuir probes and sheaths in plasma	Kevin Ronald
Josh	Brown	201411203	MPhys	Floquet theory for trapped atoms in optical lattices.	Luca Tagliacozzo
Tom	Bintener	201444442	BSc Hons M&Phys	Quantifying the resources of global quantum evolutions and measurements	Marco Piani
Declan	Lavan	201424492	BSc Hons M&Phys	Distinguishability of quantum states	Marco Piani
Emily Louise	Bruce	201422521	MPhys	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator	Mark Wiggins
Sean Patrick	Bommer	201415689	MPhys	Development of a highly accurate alignment process for multi-stage laser lithography	Michael Strain
Elliot	Doak	201426973	MPhys	A Physical Investigation of Protein-drug Binding	Neil Hunt
Dawn	O'Hare	201502488	MPhys	Uncovering the Early Stages of Protein Folding	Neil Hunt
Seoras	Brodie	201342315	MPhys	Atomic Processes for Astrophysical Plasmas	Nigel Badnell
Sam	McLafferty	201449426	MPhys	Nonlinear Optical Loop Mirrors Based on 3 X 3 fibre optic couplers	Nigel Langford
Jack Edward	Stevenson	201447628	MPhys	Investigation of multi-modal flex-tentional transducers	Nigel Langford
Julie Bryce	Hamilton	201410697	MPhys	Pathological modifications in proteins detected by their intrinsic fluorescence	Olaf Rolinski
Daniel Mark	Maclure	201412851	MPhys	Pathological modifications in proteins detected by their intrinsic fluorescence	Olaf Rolinski
Magdalena Joanna	Lesniewska	201509008	BSc Hons M&Phys	Large scale lattice-Boltzmann simulation of colloid-liquid crystal composite materials	Oliver Henrich
Jake Nicholas	McCallum	201409962	BSc Hons Phys	Signal processing for Atomic Magnetometry	Paul Griffin
Sean	McLaughlin	201427270	MPhys	Grating Magneto-Optical Trap experiments	Paul Griffin
Rachael	Steven	201418425	BSc Hons Phys	A Polarisation Analyser for Quantum Optics Experiments	Paul Griffin
Jilles	Valk	201438661	MPhys	Modelling relativistic electron motion in spatially varying intense laser fields	Paul McKenna
Murray	Williamson	201424484	BSc Hons Phys	High power laser-driven X-ray sources in dense plasma	Paul McKenna
Alasdair William Thomas	Earle	201449311	MPhys	Investigating non-ideal behaviour in current-voltage curves from GaN-based LEDs	Robert Martin
Jennifer Louise	Highton	201419625	MPhys	An ultrafast, time-resolving ion spectrometer as a diagnostic of intense laser-plasma dynamics	Ross Gray
Daniel Alasdair	Hunter	201425105	BSc Hons Phys	Intense Laser Pulse Filamentation in Near Critical Density Plasmas	Ross Gray
Brian	Jordan	201449565	MPhys	Three-Dimensional Single-Molecule Based Super-Resolution Imaging	Sebastian van de Linde
Mollie	McFarlane	201449573	BSc Hons Phys	mRNA nanoparticles for cancer detection	Yu Chen

Stuart Alexander	Archibald	201344480	BSc Hons Phys
Philippa	Benson	201411148	BSc Hons Phys
Michael	Boyle	201342307	BSc Hons Phys
Scott	Clarkson	201348337	BSc Hons Phys
Helena Mary	Glass	201449492	MPhys
Louise Michelle	MacDonald	201407961	BSc Hons Phys
Cameron	MacLean	201401402	BSc Hons Phys
Kieran	McCrory	201416431	BSc Hons Phys
Jack	Preston	201417568	BSc Hons Phys
Sean	Sloan	201342797	BSc Hons Phys
Ahna Marguerite	Taylor	201314451	BSc Hons Phys