PH450 Viva Schedule Ver.2.0

Family Name	First Name	Project Title	Viva Date	Time	Supervisor	Indep Marker	Chair
Cannon	Rachel	Computing the inverse square law	20/04/2018	10:00	Ben Hourahine	David McKee	Carol Trager-Cowan
Daffurn	Andrew	Twisted Nanostructures		10:45	Ben Hourahine	Brian Patton	Carol Trager-Cowan
MacLean	Cameron	Plasma optical modulators for intense lasers		10:00	Zhengming Sheng	Brian McNeil	Dino Jaroszynski
Carroll	Mark	Opto-mechanics of Bose-Einstein Condensates in Optical Cavities	23/04/2018	10:00	Gian-Luca Oppo	Marco Piani	Ben Hourahine
Ferguson	Alistair	Cold Atom-Light Interactions		10:45	Gordon Robb	Antonio Hurtado	Ben Hourahine
Salmond	Ben	Colour stability of LEDs from the red to the UV	26/04/2018	10:00	Jochen Bruckbauer	Paul Edwards	Ben Hourahine
Scott	Philip	Neurophotonic Systems for Interfacing with the Retina	30/04/2018	10:00	Keith Mathieson	Jonathan Pritchard	Alan Kemp
Bintener	Tom	Quantifying the resources of global quantum evolutions and measurements	30/04/2018	10:00	Marco Piani	Luca Tagliacozzo	Andrew Daley
Lavan	Declan	Distinguishability of quantum states		10:45	Marco Piani	Luca Tagliacozzo	Andrew Daley
Pettigrew	Graham	Compact X-ray sources from nonlinear Thomson scattering with intense lasers		14:00	Zhengming Sheng	Marco Piani	Francesco Papoff
Love	Callum	Nonlinear Propagation of Structured Light		14:00	Alison Yao	Michael Strain	Gian-Luca Oppo
Reid	Michael	Creation and control of continuous-mode optical superposition qubits		14:45	John Jeffers	Marco Piani	Gian-Luca Oppo
Kinanis	Alexandros	Quantum interference and boson sampler verification		14:00	Andrew Daley	Jonathan Pritchard	John Jeffers
Thiagaraja	Anujan	Nonlinear Vacuum Electrodynamics		14:00	Adam Noble	Bernhard Ersfeld	Nigel Badnell
McClue	Dylan	Nonlinear waves in plasmas		10:00	Adam Noble	Mark Wiggins	Zhengming Sheng
Brodie	Seoras	Atomic Processes for Astrophysical Plasmas		10:45	Nigel Badnell	Bernhard Ersfeld	Zhengming Sheng
McCourt	Declan	Computational Modelling of X-ray Free Electron Lasers		11:30	Brian McNeil	Luca Tagliacozzo	Zhengming Sheng
Ballantyne	Calum	Implementation and characterization of optical lattice potentials for ultracold atoms	03/05/2018	14:00	Elmar Haller	Sebastian van de Linde	Alison Yao
Vandeville	Victor	Four-wave Mixing in Atomic Gases		14:45	Gordon Robb	Antonio Hurtado	Alison Yao
Irwin	Edward	Making light-sheets for microscopy and mesoscopy		10:00	Gail McConnell	Jennifer Hastie	Carol Trager-Cowan
Preston	Jack	Long range entanglement in a hybrid atom-superconductor quantum processor		14:00	Jonathan Pritchard	Jennifer Hastie	Daniel Oi
McWilliam	Allan	Space Radiation Reproduction and Testing		10:00	Bernhard Hidding	Wenlong He	Dino Jaroszynski
Wilson	Kieran	Simulation of Langmuir probes and sheaths in plasma		14:00	Kevin Ronald	Bernhard Ersfeld	Dino Jaroszynski
Hamilton	Julie	Pathological modifications in proteins detected by their intrinsic fluorescence		14:00	Olaf Rolinski	Paul Edwards	Neil Hunt
Jackson	James	Quantum Dots TBC		14:45	Olaf Rolinski	Paul Edwards	Neil Hunt
Maclure	Daniel	Pathological modifications in proteins detected by their intrinsic fluorescence		15:30	Olaf Rolinski	Paul Edwards	Neil Hunt
McQueen	Christopher	Radiation Reaction		10:00	Adam Noble	Bernhard Ersfeld	Nigel Badnell
McLafferty	Sam	Nonlinear Optical Loop Mirrors Based on 3 X 3 fibre optic couplers		10:00	Nigel Langford	Sebastian van de Linde	Stefan Kuhr
McCallum	Jake	Signal processing for Atomic Magnetometry		10:45	Paul Griffin	Elmar Haller	Stefan Kuhr
McLaughlin	Sean	Grating Magneto-Optical Trap experiments		11:30	Paul Griffin	Elmar Haller	Stefan Kuhr
Steven	Rachael	A Polarisation Analyser for Quantum Optics Experiments		12:15	Paul Griffin	Elmar Haller	Stefan Kuhr
Burns	Elise	Investigation of Polytypism in nitride semiconductors	04/05/2018	10:00	Carol Trager-Cowan	Yu Chen	Robert Martin
Waters	Dale	Investigation of Polytypism in nitride semiconductors		10:45	Carol Trager-Cowan	Yu Chen	Robert Martin
Kelly	Ellis	Electron beam physics and transport modelling	08/05/2018	10:00	Bernhard Hidding	Martin King	Adrian Cross
Bruce	Emily	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator		10:45	Mark Wiggins	Wenlong He	Adrian Cross
Clarkson	Scott	Design and Measurement of a Mode Converter for a Microwave Amplifier		11:30	Wenlong He	Alan Young	Adrian Cross
MacDonald	Louise	Design of a Brewster Window for a W-band Gyro-TWA		12:15	Wenlong He	Alan Young	Adrian Cross
Archibald	Stuart	Parametric difference resonance in lasers		10:00	Francesco Papoff	Jennifer Hastie	Aidan Arnold
McCormack	Robbie	Using angular momentum of light to detect particles in fluids		10:45	Francesco Papoff	Antonio Hurtado	Aidan Arnold
Earle	Alasdair	Investigating non-ideal behaviour in current-voltage curves from GaN-based LEDs		12:15	Robert Martin	Antonio Hurtado	Aidan Arnold
Anderson	Steven	Quantum applications of Semiconductor Disk Lasers		14:00	Jennifer Hastie	Jonathan Pritchard	Alan Kemp
Brown	Josh	Floquet theory for trapped atoms in optical lattices.		14:45	Luca Tagliacozzo	Jonathan Pritchard	Alison Yao
Galbraith	Connor	Numerical simulation of cyclotron maser amplifiers		14:00	Kevin Ronald	Martin King	Bernhard Hidding
Taylor	Ahna	Hysteretic Photochromic Switching (HPS) of europium-magnesium (Eu-Mg) defects in GaN		14:00	Kevin O'Donnell	David McKee	Brian Patton
Percival	John	Quantification and measurement of marine microbial populations using the Mesolens		14:45	Gail McConnell	Brian Patton	Francesco Papoff
Jordan	Brian	Three-Dimensional Single-Molecule Based Super-Resolution Imaging		10:45	Sebastian van de Linde	Yu Chen	Gail McConnell

Stevenson	Jack	Investigation of multi-modal flex-tentional transducers		11:30	Francesco Papoff	Alan Kemp	Gail McConnell
Brown	James	The scientific applications of X-ray Free Electron Lasers		15:30	Brian McNeil	Luca Tagliacozzo	Gian-Luca Oppo
Quinn	Gary	Understanding how to exploit diamond in solid-state lasers		14:45	Alan Kemp	Paul Griffin	Keith Mathieson
Wade	Ewan	Photonic Neurons: Spiking information processing with lasers		15:30	Antonio Hurtado	Gordon Robb	Keith Mathieson
Doak	Elliot	A Physical Investigation of Protein-drug Binding		10:45	Neil Hunt	Olaf Rolinski	Kevin O'Donnell
O'Hare	Dawn	Uncovering the Early Stages of Protein Folding		11:30	Neil Hunt	Olaf Rolinski	Kevin O'Donnell
Cuthbertson	Stuart	Moving a standing wave with an electronically controlled piezo-mirror device		10:00	Gail McConnell	Brian Patton	Robert Martin
Twaddle	William	Design and Construction of a Fabry-Perot Scanning Interferometer	09/05/2018	10:45	Elmar Haller	Sebastian van de Linde	Andrew Daley
Sloan	Sean	Design and simulation of a millimetre wave source based on a pseudospark produced electron beam		10:00	Adrian Cross	Wenlong He	Kevin Ronald
McCrory	Kieran	Ion Channel Laser with Large Oscillation Amplitude		10:45	Bernhard Ersfeld	Brian McNeil	Kevin Ronald
Rutherford	Lorne	Space Radiation Reproduction and Testing		11:30	Bernhard Hidding	Daniel Oi	Kevin Ronald
Campbell	David	Monte Carlo Modelling of Particle Beam-Matter Interaction		10:00	Bernhard Hidding	Brian McNeil	Nigel Badnell
Boyle	Michael	Simulations of the Demonstration of Ionisation Cooling Experiment		10:45	Alan Young	Mark Wiggins	Nigel Badnell
Graham	Stuart	Phosphorescence of glowstones™		10:45	Kevin O'Donnell	David McKee	Robert Martin
Anderson	Stewart	Astigmatic mirror multipass absorption cells for long path length spectroscopy		10:00	Nigel Langford	Sebastian van de Linde	Stefan Kuhr
Webster	David	RE-doped III-nitrides for solid state lighting applications		11:30	Kevin O'Donnell	David McKee	Yu Chen
Smith	Cameron	Interactive Physics Simulations	14/05/2018	10:00	Gordon Robb	Oliver Henrich	Aidan Arnold
Geddes	Daniel	Acquisition, Pointing, and Tracking for CubeSat QKD		14:00	Daniel Oi	Oliver Henrich	Alison Yao
Valk	Jilles	Modelling relativistic electron motion in spatially varying intense laser fields		09:30	Paul McKenna	Alan Young	Bengt Eliasson
Highton	Jennifer	An ultrafast, time-resolving ion spectrometer as a diagnostic of intense laser-plasma dynamics		10:15	Paul McKenna	Mark Wiggins	Bengt Eliasson
Hunter	Daniel	Intense Laser Pulse Filamentation in Near Critical Density Plasmas		11:00	Paul McKenna	Mark Wiggins	Bengt Eliasson
McFarlane	Mollie	mRNA nanoparticles for cancer detection		12:15	Yu Chen	Oliver Henrich	David McKee
Reddie	Grant	Gravity Gradiometry with Satellite Constellations		14:45	Daniel Oi	Oliver Henrich	John Jeffers
Lesniewska	Magdalena	Large scale lattice-Boltzmann simulation of colloid-liquid crystal composite materials		15:30	Oliver Henrich	Brian Patton	John Jeffers
Moir	Connor	Stochastic Particle Heating of Charged Particles by Plasma Waves		11:45	Bengt Eliasson		Paul McKenna
Glass	Helena	Grating magneto-optical trap modelling	15/05/2018	14:00	Aidan Arnold	Michael Strain	Daniel Oi
Catto	Jamie	Bose Einstein Condensate (BEC) Simulations		15:30	Gordon Robb	Michael Strain	Gian-Luca Oppo
O'Brien	Ciaran	Magnetic states with long-range interactions		14:45	Andrew Daley	Michael Strain	John Jeffers
Bommer	Sean	Development of a highly accurate alignment process for multi-stage laser lithography		12:15	Michael Strain	Paul Griffin	Keith Mathieson
Benson	Philippa	Simulations of magnetic turbulence in plasma	18/05/2018	10:00	Bengt Eliasson		Dino Jaroszynski
Williamson	Murray	High power laser-driven X-ray sources in dense plasma		10:45	Paul McKenna		Dino Jaroszynski

Notes: a) If there any serious issues with the scheduling of your viva, discuss this with your supervisor as soon as possible.
b) Details may be subject to change, e.g. marker allocations, due to scheduling conflicts.
c) Rooms TBA