

PH450 Viva Schedule V.1.0

Surname	First name	Project Title	Supervisor	Independent	Chair	Date	Time	Place
Ruddy	Aidan	Photon propagation through scattering and absorbing media	Jonathan McKendry	Stuart Ingleby	Thorsten Ackemann	2023-04-17	14:00	TBD
Bathgate	Euan	Quantum Lidar	John Jeffers	Thomas Brougham	Gian-Luca Oppo	2023-04-19	10:00	TBD
Brady	Matthew	Ion Channel Laser with Large Oscillation Amplitude	Bernhard Ersfeld	Philip MacInnes	Mark Wiggins	2023-04-19	10:00	TBD
Campbell	Jamie	Twisted nano structures	Ben Hourahine	Oliver Henrich	Nigel Badnell	2023-04-19	10:00	TBD
Gray	David	Laser technologies for cold atom physics.	Paul Griffin	James McGilligan	Antonio Hurtado	2023-04-19	10:00	TBD
Ji	Jialu	Optical properties of metal-dielectric nanocomposites	Yu Chen	Lucia Caspani	Gordon Robb	2023-04-19	10:00	TBD
Gerblich	Lasse	Quantum Computing with Quantum Versions of Random Walks	Viv Kendon	Peter Kirton	Andrew Daley	2023-04-19	11:00	TBD
Kolesnikovs	Vitalijs	Diode Laser Beam Conditioning for pumping Ti:sapphire lasers	Alan Kemp	Johannes Herrnsdorf	Erling Riis	2023-04-19	11:00	TBD
Mitchell	Allan	Electron beam em-wave periodic surface lattice interactions	Amy MacLachlan	Mark Wiggins	Bengt Eliasson	2023-04-19	11:00	TBD
Moles	Alasdair	Plasmon enhanced fluorescence	Yu Chen	Ben Hourahine	Brian Patton	2023-04-19	11:00	TBD
Tallett	Kern	Simulation of quantum photonic systems with Strawberry Fields	Lucia Caspani	Nicolas Laurand	Jennifer E. Hastie	2023-04-19	11:00	TBD
Reynolds	Euan	A Paul trap for macroscopic charged particles	Erling Riis	Jonathan Pritchard	Aidan Arnold	2023-04-19	12:00	TBD
Wallace	Ruairidh	Modelling impact of zooplankton on ocean colour remote sensing signals	David McKee	Brian Patton	Jennifer E. Hastie	2023-04-19	12:00	TBD
Hulme	Colin	Nanosecond pulsed light-emitting diodes	Johannes Herrnsdorf	Terry Dyer	Daniel Oi	2023-04-19	14:00	TBD
Drover	Murray	Electrical control of spin qubits in Silicon Carbide (SiC)	Prince Khatri	Konstantinos Lagoudakis	Jonathan Pritchard	2023-04-19	14:00	TBD
Terävä	Mandi	Quantum Computing with Quantum Versions of Random Walks	Viv Kendon	Peter Kirton	Andrew Daley	2023-04-19	14:00	TBD
Black	Dylan	Spiking neurons with resonant tunneling diodes for high speed and energy efficient neuromorphic nanophotonic communication	Antonio Hurtado	Alan Kemp	Michael Strain	2023-04-27	10:00	TBD
Ferguson	Niamh	Atomic Processes for Astrophysical Plasmas II	Nigel Badnell	Philip MacInnes	Colin Whyte	2023-04-27	10:00	TBD
Strachan	William	Parametric Scattering and Coupling of Microwaves in Plasma	Kevin Ronald	Bernhard Ersfeld	Brian McNeil	2023-04-27	10:00	TBD
Smith	Scott	Investigation of green-emitting quantum wells	Robert Martin	Elmar Haller	Jennifer E. Hastie	2023-04-27	10:00	TBD
Uras	Aurora	Spectral properties of reflected laser light from expanding plasma targets	Martin King	Bengt Eliasson	Dino Jaroszynski	2023-04-27	10:00	TBD
McVey	Michael	Quantum chaos with light-matter interactions	Peter Kirton	Alison Yao	Andrew Daley	2023-04-27	11:00	TBD
McKay	Lewis	Diode Laser Beam Conditioning for pumping Ti:sapphire lasers	Alan Kemp	Johannes Herrnsdorf	Erling Riis	2023-04-27	11:00	TBD
Naismith	Lewis	Spintronics in vertical-cavity gain structures	Thorsten Ackemann	Paul Griffin	Elmar Haller	2023-04-27	11:00	TBD
Johnstone	Amy	Cold Atom-Light Interactions	Gordon Robb	Kali Wilson	Andrew Daley	2023-04-27	14:00	TBD
Scott	Finlay	Structured light and BECs	Alison Yao	Francesco Papoff	John Jeffers	2023-04-27	14:00	TBD
MacDonald	Connor	Disruption of mature colony biofilms using magnetic fields	Gail McConnell	Liang Zhang	David McKee	2023-05-02	10:00	TBD

Cree Mitchell	Jamie Jack	Building a laser-pumped atomic magnetometer	Stuart Ingleby	Susan Spesyvtseva	Aidan Arnold	2023-05-02	10:00	TBD
Rayer	Clement	LED arrays for differential phase contrast microscopy	Brian Patton	Arthur La Rooij	Yu Chen	2023-05-02	10:00	TBD
Damezin	Kian	Arduino-based laser stabilisation	Kali Wilson	Robbie Wilson	Thorsten Ackemann	2023-05-02	10:00	TBD
Blacklock	Maximus	Harnessing non-adiabatic quantum dynamics	Callum Duncan	Robert Cameron	John Jeffers	2023-05-02	10:00	TBD
Campbell	Aidan	Unclonable physical encryption using photonic chips	Michael Strain	Nicolas Laurand	Gian-Luca Oppo	2023-05-02	10:00	TBD
Carey	Andrew	Fabrication of low-cost and tuneable UV detectors	Fabien Massabuau	Huimin Zhu	Konstantinos Lagoudakis	2023-05-02	10:00	TBD
Hay	Ethan	Simulation and measurement of X-ray microanalysis of semiconductors	Robert Martin	Jennifer E. Hastie	Carol Trager-Cowan	2023-05-02	10:00	TBD
Brown	Eve	Atomic Processes for Astrophysical Plasmas I	Nigel Badnell	Ross Gray	Colin Whyte	2023-05-02	10:00	TBD
Howie	Toby	A Rydberg Atom Radio	Jonathan Pritchard	Elmar Haller	Alan Kemp	2023-05-02	10:00	TBD
Hurrell	Louis	Web-based electron diffraction tool	Paul Edwards	Oliver Henrich	Viv Kendon	2023-05-02	10:00	TBD
Dyer	Courtney	Stochastic particle heating of charged particles by plasma waves	Bengt Eliasson	Craig Donaldson	Dino Jaroszynski	2023-05-02	10:00	TBD
Bolton	Louise	A quantum magnetometer to measure human bio-signals	Paul Griffin	James McGilligan	Antonio Hurtado	2023-05-02	10:00	TBD
Merrett	Lorna	A device for in situ imaging of voice prosthetic devices	Gail McConnell	Niall McAlinden	David McKee	2023-05-02	11:00	TBD
McAloon	Ethan	Innovation of a novel wearable phototherapy technology for healthcare	Susan Spesyvtseva	Brian Patton	Alan Kemp	2023-05-02	11:00	TBD
Hunter	Myles	Chip-scale atomic metrology	James McGilligan	Kali Wilson	Michael Strain	2023-05-02	11:00	TBD
Kirby	Emma	A laser system for Rb spectroscopy	Thorsten Ackemann	Carolyn O'Dwyer	Elmar Haller	2023-05-02	11:00	TBD
Wilson	James	Control of spatially rotating structures in diffractive Kerr cavities	Alison Yao	Gordon Robb	Gian-Luca Oppo	2023-05-02	11:00	TBD
Houch	Christian	Investigation of a Microwave undulator for a Free-Electron Laser	Craig Donaldson	David Speirs	Dino Jaroszynski	2023-05-02	11:00	TBD
Dennison	Bethany	Focusing electron beams from a laser-plasma wakefield accelerator	Mark Wiggins	Liang Zhang	Brian McNeil	2023-05-02	11:00	TBD
McKay	Kieran	Photonic neurons with lasers for ultrafast brain-inspired computing	Antonio Hurtado	Javier Porta Parera	Michael Strain	2023-05-02	14:00	TBD
Cundy	Oliver	Building a laser-pumped atomic magnetometer	Stuart Ingleby	Susan Spesyvtseva	Aidan Arnold	2023-05-02	14:00	TBD
Dolan	Aidan	Developing new optics experiments for undergraduate teaching labs	David McKee	Helen Vaughan	Carol Trager-Cowan	2023-05-02	14:00	TBD
Kumar	Yash Susir	Detection of photonic correlations with a single-photon detector	Lucia Caspani	Nicolas Laurand	Daniel Oi	2023-05-02	14:00	TBD
Vohníková	Veronika	Optical characterisation of 3D printed lenses	Gail McConnell	Peter Tinning	Gordon Robb	2023-05-02	14:00	TBD
Guo	Xiaoyu	Dynamical DMD potentials	Stefan Kuhr	Kali Wilson	Brian Patton	2023-05-02	14:00	TBD
Shen	Yujun	How to measure the bandgap energy of wide bandgap semiconductors?	Fabien Massabuau	Paul Griffin	Konstantinos Lagoudakis	2023-05-02	14:00	TBD
Wang	Xin	Building crystal models for backscatter electron diffraction studies	Jochen Bruckbauer	Douglas Cameron	Francesco Papoff	TBD	TBD	TBD
Philip Mathew	Calvin	Electron microscope analysis of semiconductor alloys	Paul Edwards	Alessandro Rossi	Carol Trager-Cowan	TBD	TBD	TBD
		Thermal measurement and modelling of neural microLED probes	Niall McAlinden	Alessandro Rossi	Thorsten Ackemann	TBD	TBD	TBD

Ghani	Zubair	Computational Modelling of X-ray Free Electron Lasers	Brian McNeil	Martin O'Mullane	Daniel Oi	TBD	TBD	TBD
O'Neill	Adam	Computational Modelling of X-ray Free Electron Lasers	Brian McNeil	Enrico Brunetti	Daniel Oi	TBD	TBD	TBD
Stevenson	Grant	Spectral analysis of experimentally measured back-reflected laser light from solid-density plasma targets	Timothy Frazer	Ross Gray	Daniel Oi	TBD	TBD	TBD
Rowan	Megan	TBA	Helen Vaughan	Alison Yao	Daniel Oi	TBD	TBD	TBD

	Added
	Changed
	Unsure