# Monday 23/5/2016

| Time | | | | Primary Marker | Independent Marker | Chair | Room |
|---|---|---|---|---|---|---|---|
| 945 | John Filshie | 201248082 | Observing Beam Propagation by Fluorescence | Aidan Arnold | Nigel Langford | Erling Riis | JA8.03 |
| 1030 | Hao Yang | 201209622 | Bose-Einstein condensate experiments | Aidan Arnold | Elmar Haller | Erling Riis | JA8.03 |
| 1030 | Patrick Bevington | 201113724 | Generation and propagation of spatially structured light | Alison Yao | Alison McDonald | Erling Riis | JA8.03 |
| 1115 | Michael Wright | 201237887 | Generation and propagation of spatially structured light | Alison Yao | Elmar Haller | Erling Riis | JA8.03 |
| 1115 | Lee McCann | 201216679 | Super-wide field of view two dimensional cell imaging | Gail McConnell | Johanna | Keith Mathieson | TIC |
| 1200 | Zoe Davidson | 201216506 | Investigation into the effect of motion artefact on PPG sensor signal acquisition | Keith Mathieson | Gail McConnell | Daniel Oi | TIC |
| 945 | Ashley Garton | 201210194 | Noble Metal Quantum Dots | Yu Chen | Ben Hourahine | David McKee | JA6.25 |
| 1030 | Lee Jardine | 201237528 | Transient Fluorescence Spectra of Proteins | Olaf Rolinski | Yu Chen | David McKee | JA6.25 |
| 1115 | Ali Sinan Amjad | 201218998 | Revisiting Fluorescence Quantum Yield: New Light on an Old Approach | Olaf Rolinski | Yu Chen | David McKee | JA6.25 |
| 1200 | | | | | | | |
| 1230 | Ryan Healy | 201219384 | Interactive Physics Simulations | Gordon Robb | Nigel Langford | David McKee | JA6.25 |
| 1200 | Ziyan Huang | 201534166 | Design of a Brewster Window for a W-band Gyro-TWA | Wenlong He | Bengt Eliasson | Adrian Cross | JA6.19 |
| 1245 | Nathan Dalgleish | 201140292 | Design and Measurement of a Mode Converter for a Microwave Amplifier | Wenlong He | Craig Donaldson | Adrian Cross | JA6.19 |
| 1330 | Emma Jane Henderson | 201306181 | Monte Carlo Simulation and Cooling Performance of the MICE Step V Laboratory Experiment | Kevin Ronald | Phil MacInnes | Adrian Cross | JA6.19 |
| 1415 | Jonathan Lui | 201140577 | High-Power Microwave Sources | Phil MacInnes | Martin King | Adrian Cross | JA6.19 |
| 1500 | Maira Vasilevska | 201248008 | High-Power Microwave Sources | Phil MacInnes | Martin King | Adrian Cross | JA6.19 |
| 1545 | Aimee Wright | 201238223 | Coherent and incoherent combination of laser pulses | Bernhard Hidding | Martin King | Adrian Cross | JA6.19 |
| 1630 | Fiona Alison MacKay | 201246886 | Space Radiation Reproduction and Testing | Bernhard Hidding | Mark Wiggins | Adrian Cross | JA6.19 |
| 1200 | Ryan Mcdermott | 201238100 | Femtosecond chemistry with laser-plasma-accelerators | Bernhard Hidding | Phil MacInnes | Kevin Ronald | JA8.24 |

Notes: For vivas in the TIC, report to front reception and request to see Dr Mathieson

# Tuesday 24/5/2016

| Time | | | | Primary Marker | Independent Marker | Chair | Room |
|---|---|---|---|---|---|---|---|
| 945 | Ruaraidh Dumbreck | 201342349 | Noise and system response of CCD spectrographs for luminescence spectroscopy | Paul Edwards | Thomas Han | KPOD | JA8.24 |
| 1030 | Ryan Brebner | 201212112 | Metal foils for electron energy filtering | Paul Edwards | Yu Chen | KPOD | JA8.24 |
| 1115 | Hayley Carroll | 201211873 | Efficiency of green LEDs: How serious is the “green gap”? | Rob Martin | Yu Chen | KPOD | JA8.24 |
| 1200 | Samuel Robert Beattie | 201121581 | LED lighting for stimulating plant growth | Rob Martin | Jochen Bruckbauer | KPOD | JA8.24 |
| 1315 | Ryan Speirs | 201237829 | Phosphorescence of glowstones | KPOD | Paul Edwards | Rob Martin | JA8.07 |
| 1400 | Connor Wasson | 201244834 | RE-doped III-nitrides for solid state lighting applications | KPOD | Paul Edwards | Rob Martin | JA8.07 |
| 1445 | Patrikas Prusinskas | 201208244 | Hysteretic Photochromic Switching (HPS) of europium-magnesium (Eu-Mg) defects in GaN | KPOD | Paul Edwards | Rob Martin | JA8.07 |
| 1530 | Peter Meadows | 201214261 | Phosphorescence of glowstones | KPOD | Paul Edwards | Rob Martin | JA8.07 |
| 945 | Rhys Ferguson | 201209656 | Resonance in Clouds of Atoms | Francesco Papoff | Luca Tagliacozzo | David McKee | JA6.25 |
| 1030 | Andrew Smith | 201238215 | Parametric difference resonance in lasers | Francesco Papoff | Luca Tagliacozzo | David McKee | JA6.25 |
| 1115 | Sean Deighan | 201216491 | Resonances in clouds of cold atoms | Francesco Papoff | Luca Tagliacozzo | David McKee | JA6.25 |
| 1200 | Nicholas Quinn | 201239431 | Modelling scanning near-field microscopy | Francesco Papoff | Brian McNeil | David McKee | JA6.25 |
| 1300 | Bohdan Starosta | 201041804 | Matrix product state representation of quantum states | Luca Tagliacozzo | Nigel Badnell | Daniel Oi | JA7.12 |
| 1345 | Heather Simmons | 201140535 | Non-resonant optical cavities | Nigel Langford | Alison Yao | Daniel Oi | JA7.12 |
| 1430 | Fiona Chrystall | 201110069 | Orbital Angular Momentum in Vectorial Kerr Cavities | Alison Yao | Gian-Luca Oppo | Nigel Langford | JA7.08 |

# Thursday 26/5/2016

| Time | | | | Primary Marker | Independent Marker | Chair | Room |
|---|---|---|---|---|---|---|---|
| 945 | Allan Laird | 201239821 | Energy upconversion in nano-crystallites for application in UHD display technology | Thomas Han | Carol Trager-Cowan | KPOD | JA8.24 |
| 1030 | Ryan Mitchell | 201246771 | An optical study of lanthanide ion doped BaY2F8 single crystals | Thomas Han | Carol Trager-Cowan | KPOD | JA8.24 |
| 1115 | Carolyn O'Dwyer | 201246569 | Energy upconversion in nano-crystallites for application in UHD display technology | Thomas Han | Carol Trager-Cowan | KPOD | JA8.24 |
| 1200 | Jan Schniete | 201204965 | Optical spectroscopy of distant sources | Carol Trager-Cowan | Jochen Bruckbauer | KPOD | JA8.24 |
| 1315 | Lily Confield | 201246161 | Uncovering the early stages of protein folding | Neil Hunt | Jens Sutter | Carol Trager-Cowan | JA8.24 |
| 1400 | Owen Brady | 201237188 | A Physical Investigation of Protein-drug Binding | Neil Hunt | Jens Sutter | Carol Trager-Cowan | JA8.24 |
| 1500 | Liam Fleming | 201210209 | Spectroscopic Studies of Melanin Fibrils: Spectra, Kinetics, Modulators | Jens Sutter | Olaf Rolinski | Neil Hunt | JA6.09 |
| 945 | Grant Rushford | 201208359 | Interaction of light with Rubidum vapour | Thorsten Ackemann | Alison Yao | Francesco Papoff | JA7.11 |
| 1030 | Paul Graham | 201237968 | BEC simulations | Gordon Robb | Aidan Arnold | Francesco Papoff | JA7.11 |
| 1445 | Stacey Leanne McDevitt | 201213697 | The scientific applications of X-ray Free Electron Lasers | Brian McNeil | Bengt Eliasson | Gordon Robb | JA8.24 |
| 1530 | Michael Gates | 201200898 | Computational Modelling of FELs | Brian McNeil | Bengt Eliasson | Gordon Robb | JA8.24 |
| 1615 | Jenny Morgan | 201217332 | The theory of X-ray Free electron Lasers | Brian McNeil | Bengt Eliasson | Gordon Robb | JA8.24 |
| 1445 | Jamie Mackle | 201210047 | Optical modes and multiple scattering | Ben Hourahine | Alison Yao | Daniel Oi | JA7.12 |
| 1530 | Laurence Nix | 201210233 | Twisted nanostructures | Ben Hourahine | Nigel Badnell | Daniel Oi | JA7.12 |
| 1615 | Dimitrios Bakas | 201229884 | Targeting chosen eigenvectors and singular vectors | Ben Hourahine | Nigel Badnell | Daniel Oi | JA7.12 |

## Friday 27/5/2016

| Time | | | | Primary Marker | Independent Marker | Chair | Room |
|---|---|---|---|---|---|---|---|
| 945 | Craig Doris | 201045719 | Stochastic Particle Heating of Charged Particles by Plasma Waves | Bengt Eliasson | Zheng-Ming Sheng | Dino Jaroszynski | JA7.19 |
| 1030 | Thomas Healy | 201208870 | Stochastic Particle Heating of Charged Particles by Plasma Waves | Bengt Eliasson | Zheng-Ming Sheng | Dino Jaroszynski | JA7.19 |
| 1115 | Callum Reynolds | 201242549 | Modelling of plasma instabilities relevant to laser-driven ion acceleration | Ross Gray | Mark Wiggins | Dino Jaroszynski | JA7.19 |
| 1200 | Amy McKelvie | 201210720 | Ion Acceleration in Relativistically Intense Laser- Solid Interactions | Ross Gray | Zheng-Ming Sheng | Dino Jaroszynski | JA7.19 |
| 945 | Andrew Samuel Phillips | 201237675 | Design and simulation of a mm-wave source based on a pseudospark produced electron beam | Huabi Yin | Wenlong He | Kevin Ronald | JA8.24 |
| 945 | Anna Whyte | 201140420 | Atomic Processes for Astrophysical Plasmas | Simon Preval | Nigel Badnell | Paul McKenna | JA8.08 |
| 1030 | Scott Whiteside | 201237861 | Atomic Processes for Astrophysical Plasmas | Nigel Badnell | Simon Preval | Paul McKenna | JA8.08 |
| 1115 | Peter Linton | 201248202 | Excitation of Heavy Atomic Species for ITER | Nigel Badnell | Simon Preval | Paul McKenna | JA8.08 |
| 945 | Gavin Macdonald | 201237552 | Quantum enhanced imaging | John Jeffers | Antonio Hurtado | Francesco Papoff | JA7.11 |

# Tuesday 31/5/2016

| Time | | | | Primary Marker | Independent Marker | Chair | Room |
|---|---|---|---|---|---|---|---|
| 945 | Malcolm Jardine | 201322802 | Transport dynamics of quantum gases in optical potentials | Andrew Daley | Gian-Luca Oppo | John Jeffers | JA7.03 |
| 1030 | Samantha Hume | 201203040 | Dynamics of impurity atom coupled to a quantum gas | Andrew Daley | Gian-Luca Oppo | John Jeffers | JA7.03 |
| 1115 | Ella Wyllie | 201237895 | Transport dynamics of quantum gases in optical potentials | Andrew Daley | Gian-Luca Oppo | John Jeffers | JA7.03 |
| 945 | Kieran Mitchell | 201137744 | Predicting molecular transport properties of pollutants in marine environments | Maxim/Kirill | Olaf Rolinski | Ben Hourahine | JA6.22 |
| 1030 | Peter Strain | 201246828 | Development of molecular-scale computer models for enhanced oil recovery | Maxim/Kirill | Olaf Rolinski | Ben Hourahine | JA6.22 |
| 1115 | James Gill | 201237463 | Modelling of wettability of mineral surface by water and oil | Maxim/Kirill | Yu Chen | Neil Hunt | JA6.09 |
| 1200 | Declan Wilkinson | 201246797 | Ionic liquids at charged interfaces: applications for electrochemical energy storage | Maxim/Kirill | Yu Chen | Neil Hunt | JA6.09 |
| 1245 | Max Holl | 201510182 | Molecular Mechanisms of Biological Adaptation to Extreme Ionic Environments | Maxim/Kirill | David Palmer | Neil Hunt | JA6.09 |
| 945 | Andrew Gough | 201237950 | Medical Radio-isotope Production using a Laser-Plasma Wakefield Accelerator | Mark Wiggins | Zheng-Ming Sheng | Adrian Cross | JA6.19 |
| 1030 | Raymond Stirling | 201142333 | Beam-driven Plasma Wakefield Acceleration (PWFA) | Bernhard Hidding | Zheng-Ming Sheng | Adrian Cross | JA6.19 |
| 1115 | Andrew Sutherland | 201209583 | Mid-Infrared Laser Wakefield Acceleration | Bernhard Hidding | Zheng-Ming Sheng | Adrian Cross | JA6.19 |
| 945 | Craig Roy | 201237730 | Four-wave Mixing in Atomic Gases | Gordon Robb | Griff | Francesco Papoff | JA7.11 |
| 1030 | Jack Martin | 201206577 | Cold atom-light interactions | Gordon Robb | Griff | Francesco Papoff | JA7.11 |
| 1115 | Erin McAleese | 201141272 | Cold atom-light interactions | Gordon Robb | Marco Piani | Francesco Papoff | JA7.11 |
| 1115 | Jennifer Evans | 201121599 | Characterising micro-mirror devices | Griff | Nick Lockerbie | David McKee | JA6.25 |
| 1200 | Andrew Paterson | 201210827 | 3D-Printing of optics equipment in a laser laboratory | Elmar Haller | Griff | David McKee | JA6.25 |
| 1230 | Luke Kavanagh | 201237536 | Quantifying the entanglement of global quantum evolutions and measurements | Marco Piani | Andrew Daley | Gordon Robb | JA8.24 |
| 1315 | Ben Charles | 201246917 | Quantum Measurement in the Jaynes-Cummings Model | Daniel Oi | Marco Piani | Gordon Robb | JA8.24 |
| 1400 | Crawford Wright | 201216881 | Gravity Gradiometry with Satellite Constellations | Nick Lockerbie | Griff | KPOD | JA8.24 |
| 1445 | Gioan Tatsi | 201227400 | Quantum State Comparison Amplification Protocol | John Jeffers | Marco Piani | Daniel Oi | JA7.12 |
| 1530 | Sukhpal Singh | 201438815 | Hybrid Quantum Systems | Jonathan Pritchard | Nick Lockerbie | Daniel Oi | JA7.12 |
| 1615 | Ilian Despard | 201237316 | Rydberg excitations scheme for hybrid quantum technologies | Jonathan Pritchard | Nick Lockerbie | Daniel Oi | JA7.12 |
| 945 | Joshua Robertson | 201213582 | Photonic Neurons: Spiking information processing with lasers | Antonio Hurtado | Thorsten Ackemann | Keith Mathieson | TIC |
| 1030 | Simon Armstrong | 201312954 | Characterization of Optically pumped Quantum Well and Quantum Dot Vertical-cavity Structures | Thorsten Ackemann | Antonio Hurtado | Keith Mathieson | TIC |
| 1115 | David Matheson | 201219449 | Modelling Non-linear Processes in Micro-waveguides | Michael Strain | Antonio Hurtado | Keith Mathieson | TIC |
| 1200 | Mitchell Hodge | 201313552 | Beam quality of broad-area lasers | Thorsten Ackemann | Michael Strain | Keith Mathieson | TIC |

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