

| Student First Name | Student Last Name | Registration Number | Course           | Title of Project                                                                       | Chair           | 1 <sup>st</sup> Supervisor | Independent Marker | Category    | Date       | Time  |
|--------------------|-------------------|---------------------|------------------|----------------------------------------------------------------------------------------|-----------------|----------------------------|--------------------|-------------|------------|-------|
| Colin              | McCran            | 201141167           | MPhys            | Observing beam propagation by fluorescence                                             | Stefan Kuhr     | Aidan Arnold               | Thorsten Ackemann  | Optics      | 01/05/2015 | 09:00 |
| Alan               | Brown             | 201122024           | MPhys            | Modelling laser-driven plasma expansion and ion acceleration dynamics                  | Adrian Cross    | Paul McKenna               | Zheng-Ming Sheng   | Plasmas     | 05/05/2015 | 09:00 |
| Mark               | Governo           | 201114673           | MPhys            | Predicting small molecule binding sites on protein surfaces                            | Alex Cunningham | Maxim Fedorov              | Neil Hunt          | Nanoscience | 05/05/2015 | 09:00 |
| Erin               | McAleese          | 201141272           | MPhys            | Cold atom-light interactions                                                           | Gian-Luca Oppo  | Gordon Robb                | Elmar Haller       | Theory      | 05/05/2015 | 09:00 |
| Adam               | Russell           | 201122032           | MPhys            | Modelling semiconductor nanostructures using a Schrödinger-Poisson-current             | Kevin O'Donnell | Paul Edwards               | Carol Trager-Cowan | Nanoscience | 05/05/2015 | 09:00 |
| Jonathan           | Jarrett           | 201140462           | MPhys            | Design study on plasma optics                                                          | Adrian Cross    | Paul McKenna               | Zheng-Ming Sheng   | Plasmas     | 05/05/2015 | 09:45 |
| Nathan             | Dalgleish         | 201140292           | BSc Hons Physics | Modelling of wettability of mineral surface by water and oil                           | Alex Cunningham | Maxim Fedorov              | Neil Hunt          | Nanoscience | 05/05/2015 | 09:45 |
| Steven             | Lennox            | 201140349           | MPhys            | BEC simulations                                                                        | Gian-Luca Oppo  | Gordon Robb                | Elmar Haller       | Theory      | 05/05/2015 | 09:45 |
| Anthony            | Howley            | 201141434           | BSc Hons Physics | Optical and conductivity mapping of InGaN LEDs                                         | Kevin O'Donnell | Jochen Bruckbauer          | Rob Martin         | Nanoscience | 05/05/2015 | 09:45 |
| Kieran             | MacRae            | 201110530           | BSc Hons Physics | Measurement of the quality of the laser focus in a scanning optical microscope         | Stefan Kuhr     | Gail McConnell             | Johanna Tragardh   | Optics      | 05/05/2015 | 09:45 |
| Weicheng           | He                | 201314655           | BSc Hons Physics | Numerical simulation of laser interaction with dense magnetized plasma                 | Adrian Cross    | Zheng-Ming Sheng           | Paul McKenna       | Plasmas     | 05/05/2015 | 10:30 |
| James              | Dunn              | 201142040           | BSc Hons Physics | Interactive Physics Simulations (PwT project)                                          | Gian-Luca Oppo  | Gordon Robb                | Nigel Langford     | Theory      | 05/05/2015 | 10:30 |
| Scott              | Deans             | 201111413           | BSc Hons Physics | Image processing of electron channelling contrast patterns and electron chan           | Kevin O'Donnell | Carol Trager-Cowan         | Paul Edwards       | Nanoscience | 05/05/2015 | 10:30 |
| Nick               | Bruce             | 201111463           | BSc Hons Physics | Magnetic Field Stabilization with an Arduino Microprocessor                            | Stefan Kuhr     | Elmar Haller               | Tom Han            | Optics      | 05/05/2015 | 10:30 |
| Madeleine          | Richards          | 200945893           | BSc Hons Physics | Autocorrelation using a GaAsP Photodiode for Beam-driven Plasma Wakefield              | Adrian Cross    | Bernhard Hidding           | Silvia Cipiccia    | Plasmas     | 05/05/2015 | 11:30 |
| Robert             | Smith             | 201017368           | BSc Hons Physics | Cold atom-light interactions                                                           | Gian-Luca Oppo  | Gordon Robb                | Elmar Haller       | Theory      | 05/05/2015 | 11:30 |
| Karen              | Wallace           | 201207028           | MPhys            | Dynamics of impurity atom coupled to a quantum gas                                     | John Jeffers    | Andrew Daley               | Alexandre Tacla    | Theory      | 05/05/2015 | 11:30 |
| Ross               | Johnston          | 201123525           | MPhys            | Statistical analysis of defect distributions in semiconductor thin films               | Kevin O'Donnell | Carol Trager-Cowan         | Rob Martin         | Nanoscience | 05/05/2015 | 11:30 |
| Andrew             | Beaton            | 201140276           | BSc Hons Physics | Beam-driven Plasma Wakefield Acceleration (PWFA)                                       | Adrian Cross    | Bernhard Hidding           | Silvia Cipiccia    | Plasmas     | 05/05/2015 | 12:15 |
| Gwen               | Morris            | 201140470           | MPhys            | Transport dynamics of quantum gases in optical potentials                              | John Jeffers    | Andrew Daley               | Suzanne McEndoo    | Theory      | 05/05/2015 | 12:15 |
| Jordan             | McSkeane          | 201114487           | BSc Hons Physics | Spectroscopic Studies of Rare-earth ions doped in LiNbO3                               | Kevin O'Donnell | Tom Han                    | Ben Hourahine      | Nanoscience | 05/05/2015 | 12:15 |
| Gemma              | King              | 201119403           | MPhys            | Medical Radio-isotope Production using a Laser-Plasma Wakefield Accelerator            | Adrian Cross    | Mark Wiggins               | Bernhard Hidding   | Plasmas     | 05/05/2015 | 14:00 |
| Philip             | Doyle             | 201237934           | MPhys            | Interaction of Spatial Optical Solitons                                                | Gordon Robb     | Gian-Luca Oppo             | Thorsten Ackemann  | Theory      | 05/05/2015 | 14:00 |
| Benjamin           | Ross              | 201204779           | MPhys            | Quantifying quantum steering via semidefinite programming                              | John Jeffers    | Marco Piani                | Daniel Oi          | Theory      | 05/05/2015 | 14:00 |
| Stacey             | Mitchell          | 201111285           | MPhys            | Laser Selective Excitation Studies of Nd3+ doped mixed garnets                         | Kevin O'Donnell | Tom Han                    | Ben Hourahine      | Nanoscience | 05/05/2015 | 14:00 |
| Calum              | Bregazzi          | 201120064           | BSc Hons Physics | Capillary Discharge Waveguides for Laser-Plasma Interactions                           | Adrian Cross    | Mark Wiggins               | Bernhard Hidding   | Plasmas     | 05/05/2015 | 14:45 |
| Craig              | Gordon            | 201014221           | BSc Hons Physics | Dynamics of Coupled Laser Systems                                                      | Gordon Robb     | Gian-Luca Oppo             | Thorsten Ackemann  | Theory      | 05/05/2015 | 14:45 |
| Josh               | Robertson         | 200840302           | BSc Hons Physics | Satellite free-space optics for quantum communication                                  | John Jeffers    | Daniel Oi                  | Marco Piani        | Theory      | 05/05/2015 | 14:45 |
| David              | Newton            | 201140501           | MPhys            | Spectroscopic Studies of Rare-earth ions doped in LiNbO3                               | Kevin O'Donnell | Tom Han                    | Ben Hourahine      | Nanoscience | 05/05/2015 | 14:45 |
| Adam               | Ross              | 201140519           | MPhys            | Laser Wakefield Acceleration and Betatron Gamma Ray Radiation                          | Adrian Cross    | Ranaul Islam               | Zheng-Ming Sheng   | Plasmas     | 05/05/2015 | 15:45 |
| Mathias            | Weisen            | 201111120           | MPhys            | Self-structuring and Optomechanics of Cold Atoms                                       | Gordon Robb     | Gian-Luca Oppo             | Thorsten Ackemann  | Theory      | 05/05/2015 | 15:45 |
| Jake               | Arnott            | 201140268           | BSc Hons Physics | Thermal modelling of a gravitational ribbon-sensor                                     | Kevin O'Donnell | Wayne McRae                | Nick Lockerbie     | Nanoscience | 05/05/2015 | 15:45 |
| Kyle               | Roulston          | 201119225           | MPhys            | Electron Beam Transport and Diagnostics                                                | Adrian Cross    | Enrico Brunetti            | Zheng-Ming Sheng   | Plasmas     | 05/05/2015 | 16:30 |
| Michael            | Wilson            | 201041032           | BSc Hons Physics | Simulations of Spin-Polarized Vertical-Cavity Surface-Emitting Lasers                  | Gordon Robb     | Gian-Luca Oppo             | Thorsten Ackemann  | Theory      | 05/05/2015 | 16:30 |
| Aneurin            | Harvey-Waugh      | 201141191           | BSc Hons Physics | Gravitational ribbon-sensor modelling.                                                 | Kevin O'Donnell | Wayne McRae                | Nick Lockerbie     | Nanoscience | 05/05/2015 | 16:30 |
| Nicole             | Hunter            | 201140323           | BSc Hons Physics | Remote sensing of subsea light fields                                                  | Kevin O'Donnell | Alex Cunningham            | Francesco Papoff   | Nanoscience | 06/05/2015 | 09:00 |
| James              | Denholm           | 201140551           | BSc Hons Physics | Non-resonant optical cavities                                                          | Stefan Kuhr     | Nigel Langford             | Alison Yao         | Optics      | 06/05/2015 | 09:00 |
| Christopher        | Hunter            | 201140569           | BSc Hons Physics | Differential polarisation imaging for environmental applications                       | Kevin O'Donnell | Alex Cunningham            | Francesco Papoff   | Nanoscience | 06/05/2015 | 09:45 |
| Gregor             | McDowall          | 201111764           | MPhys            | Chirp management of LEDs (experimental and computational)                              | Stefan Kuhr     | Nigel Langford             | Alison Yao         | Optics      | 06/05/2015 | 09:45 |
| Robert             | Liddell           | 201042892           | BSc Hons Physics | Characterisation of irregular particles by optical microscopy and digital imagin       | Kevin O'Donnell | Alex Cunningham            | Francesco Papoff   | Nanoscience | 06/05/2015 | 10:30 |
| Steven             | Russell           | 201111031           | MPhys            | Optical pumping of molecular gas lasers by QC Lasers (computational)                   | Stefan Kuhr     | Nigel Langford             | Alison Yao         | Optics      | 06/05/2015 | 10:30 |
| Craig              | Murdoch           | 201140496           | MPhys            | Phase-contrast X-ray imaging using an X-ray source based on a laser-plasma accelerator | Adrian Cross    | Silvia Cipiccia            | Bernhard Hidding   | Plasmas     | 06/05/2015 | 11:30 |
| Caitlin            | Firth             | 201116285           | BSc Hons Physics | Intrinsic Fluorophores in Sensing Applications                                         | Alex Cunningham | Olaf Rolinski              | Neil Hunt          | Nanoscience | 06/05/2015 | 11:30 |
| Heather            | Simmons           | 201140535           | MPhys            | Non-resonant optical cavities                                                          | Stefan Kuhr     | Nigel Langford             | Alison Yao         | Optics      | 06/05/2015 | 11:30 |
| Fraser             | Addies            | 201140242           | MPhys            | Radiotherapy using Beams from Laser-plasma Accelerators                                | Adrian Cross    | Xue Yang                   | Bernhard Hidding   | Plasmas     | 06/05/2015 | 12:15 |

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| Craig       | Murray     | 201113871 | BSc Hons Physics | Unusual fluorescence decays                                                  | Alex Cunningham | Olaf Rolinski     | Neil Hunt        | Nanoscience | 06/05/2015 | 12:15 |
| Jonathan    | Wilkins    | 201119445 | BSc Hons Physics | Thermal management of pulsed QC Lasers (computational)                       | Stefan Kuhr     | Nigel Langford    | Alison Yao       | Optics      | 06/05/2015 | 12:15 |
| Alexandra   | Reid       | 201110962 | MPhys            | High-Power Microwave Sources                                                 | Adrian Cross    | Phil MacInnes     | Bengt Eliasson   | Plasmas     | 06/05/2015 | 14:00 |
| Scott       | Brown      | 200731862 | BSc Hons Physics | Surface fluorescence                                                         | Alex Cunningham | David Birch       | Olaf Rolinski    | Nanoscience | 06/05/2015 | 14:00 |
| Wenbo       | Li         | 201435304 | MPhys            | Automated optimisation of optical fibre coupling using microprocessor contro | Stefan Kuhr     | Paul Griffin      | Tom Han          | Optics      | 06/05/2015 | 14:00 |
| Callum      | Runciman   | 201016281 | BSc Hons Physics | Noble Metal Quantum Dots                                                     | Alex Cunningham | Yu Chen           | David Birch      | Nanoscience | 06/05/2015 | 14:45 |
| Matteo      | Demelas    | 201140315 | MPhys            | Single-shot, 3D reconstruction of the spatial profile of a laser beam        | Stefan Kuhr     | Paul Griffin      | Nigel Langford   | Optics      | 06/05/2015 | 14:45 |
| Elaine      | Adair      | 201137451 | MPhys            | A Physical Investigation of Protein-drug Binding                             | Alex Cunningham | Neil Hunt         | Maxim Fedorov    | Nanoscience | 06/05/2015 | 15:45 |
| Mark        | Carmichael | 201121175 | MPhys            | Photonic materials and devices for Visible Light Communication (VLC)         | Stefan Kuhr     | Benoit Guilhabert | Nicolas Laurand  | Optics      | 06/05/2015 | 15:45 |
| Andrew      | Farrell    | 201015528 | MPhys            | Uncovering the early stages of protein folding                               | Alex Cunningham | Neil Hunt         | Maxim Fedorov    | Nanoscience | 06/05/2015 | 16:30 |
| Jan Philipp | Hausen     | 201441143 | ERASMUS          | Neurophotonic systems for interfacing with the retina                        | Stefan Kuhr     | Keith Mathieson   | Niall McAlinden  | Optics      | 06/05/2015 | 16:30 |
| Leon        | Chan       | 201140446 | MPhys            | Ghost imaging and the Klyshko approach                                       | Gordon Robb     | John Jeffers      | Marco Piani      | Theory      | 07/05/2015 | 10:30 |
| Samuel      | Anderson   | 201140250 | MPhys            | Spiral Bandwidth Control in Optical Parametric Oscillators                   | Gordon Robb     | Alison Yao        | Francesco Papoff | Theory      | 07/05/2015 | 11:30 |
| Lucy        | Luecke     | 201441151 | ERASMUS          | Parametric Oscillators                                                       | Gordon Robb     | Francesco Papoff  | Alison Yao       | Theory      | 07/05/2015 | 12:15 |
| Ian         | Shanks     | 201118041 | BSc Hons Physics | Surface Fields in Layered Nano Particles                                     | Gordon Robb     | Francesco Papoff  | Ben Hourahine    | Theory      | 07/05/2015 | 14:00 |
| Christopher | Campbell   | 201142024 | BSc Hons Physics | Resonances in clouds of cold atoms                                           | Gordon Robb     | Francesco Papoff  | Ben Hourahine    | Theory      | 07/05/2015 | 14:45 |
| Matthew     | Brown      | 201135116 | MPhys            | Computational modelling of X-ray Free electron Lasers                        | Paul McKenna    | Brian McNeil      | Kevin Ronald     | Theory      | 08/05/2015 | 09:00 |
| Martyn      | Hunter     | 201142032 | BSc Hons Physics | Resonant Electron Beam-light Interactions                                    | Paul McKenna    | Brian McNeil      | Bengt Eliasson   | Theory      | 08/05/2015 | 09:45 |
| Scott       | Thomas     | 201107286 | MPhys            | Computational modelling of X-ray Free electron Lasers                        | Paul McKenna    | Brian McNeil      | Kevin Ronald     | Theory      | 08/05/2015 | 10:30 |