

## Sunday 3 December

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| 16.00 - 19.00 | Conference Registration (Level 5 foyer) |
| 17.00 - 19.00 | <b>Welcome Reception</b>                |

## Monday 4 December

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| 8:00  | Conference Registration  |   |
| 9:00  | <b>Welcome and Opening</b>   |   |
| 9:20  | <b>Keynote 1 - Albert Polmann (Frew Fellow)   Room: Coronet &amp; Remarkables</b>  |   |
| 10:00 | <b>Morning Tea</b>   |   |
|       | <b>Stream 1: Nano Photonics</b><br>Room: Coronet   Session Chair: Ann Roberts  | <b>Stream 2: Nonlinear &amp; Quantum optics</b><br>Room: Remarkables   Session Chair: Howard Carmichael                         |
| 10:30 | <b>New regimes with nanophotonics: exotic solitons and topological edge states (Andrea Blanco-Redondo - winner of the Geoff Opat ECR prize 2016)</b> | <b>Transition-metal doped ZnS thin films for nonlinear optics in the near infrared (Ursula Gibson)</b>                          |
| 11:00 | 41. Optics of interacting nanoparticles and molecules in the coupled-dipole approximation (Baptiste Auguié)  | 119. Free space laser communications with adaptive optics and quantum key distribution (Lyle Roberts)                           |
| 11:15 | 3. Imaging plasmon vortices, phase singularities and topological charge (Tim Davis)  | 33. Heralded quantum steering with detection loophole closed over high-loss quantum channel (Morgan Weston)                     |
| 11:30 | 37. Extreme sub-diffraction focusing of THz radiation with magnifying metamaterial hyperlenses (Juliano Grigoletto Hayashi)                          | 157. Large-scale brightness enhancement of continuous-wave beams in diamond (Zhenxu Bai)  |
| 11:45 | 50. Far-field refraction from prism hyperlenses (Alessio Stefani)  | 83. Multiplexed Quantum Random Number Generation (Mirko Lobino)   |
| 12:00 | <b>Lunch   Location: Bazaar Restaurant, Level 6</b>  |   |
|       | <b>Stream 1: Precision Metrology</b><br>Room: Coronet   Session Chair: John McFerran   | <b>Stream 2: Silicon optics and New material</b><br>Room: Remarkables   Session Chair: Andrea Blanco-Redondo                    |
| 13:30 | <b>LIGO Interferometry: Going beyond the Standard Quantum Limit (Rana Adhikari)</b>  | <b>In-Fiber Silicon Photonics (Anna Peacock)</b>  |
| 14:00 | 52. A Single Atom sub Atto-Newton Force Sensor in Three-Dimensions (Erik Streed)   | 9. Reversible Thermal Tuning of Hybrid Metasurfaces (Mohsen Rahmani)  |
| 14:15 | 63. A New Quantum Noise Limited Cavity Enhanced Polarisation Spectroscopy for Molecular Gas (Yajie Guan)   | 134. Ultrathin, broad bandwidth, polarization-independent, complete absorber based on graphene metamaterial (Martijn de Sterke) |

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| 14:30 | 74. Long-distance telecom-fibre transfer of a radio-frequency reference to enable VLBI radio astronomy (Ken Baldwin)                  | 70. Nonlinear AlGaAs nanodisks as sources of sum-frequency light and heralded photons (Alexander Solntsev)      |
| 14:45 | 67. Hyperfine Structure and Coherent Properties of Erbium-167-doped Yttrium Orthosilicate (Jelena Rakonjac)                           |   |
| 15:00 | <b>Afternoon Tea</b>  |   |
|       | <b>Stream 1: Precision Measurement/Spectroscopy</b><br>Room: Coronet   Session Chair: Rana Adhikari                                   | <b>Stream 2: Atom Optics/Cold Atoms</b><br>Room: Remarkables   Session Chair: Scott Parkins                     |
| 15:30 | <b>Large Ring Laser Gyroscopes (Jon-Paul Wells)</b>   | <b>Nanofiber resonator for a cavity QED network (Takao Aoki)</b>  |
| 16:00 | 79. Real-time and Precise Concentration Measurements of CO <sub>2</sub> (Andre Luiten)  | 42. Collectively enhanced atom–light interactions in a nanofibre-segment ring resonator (Samuel Ruddell)        |
| 16:15 | 44. Performance of Digital Interferometry with multiple channels (Paul Sibley)  | 35. Displacement sensing of atoms using the Gouy phase of light (Amita Deb)                                     |
| 16:30 | 86. Adsorption of dye molecules on metallic nanoparticles: unraveling the origins of the modified spectral absorption (Brendan Darby) | 58. Observation of Bogoliubov-Cherenkov Radiation in an Atom Laser (Sean Hodgman)                               |
| 16:45 | 29. Towards Quantum Spectroscopy on a LiNbO <sub>3</sub> Chip (Alexander Solntsev)  | 151. Dynamics of polar-core spin vortices in a ferromagnetic spin-1 Bose-Einstein condensate (Lewis Williamson) |
| 17:00 | <b>Poster Session   Room: Clancy's</b>  |   |
|       | 149. Do Nanodiamond Random Lasers Shine Brighter? (Judith Dawes)  |   |
|       | 7. $\gamma$ -Radiation-Induced Photodarkening in Er/Yb Co-Doped Optical Fibre and Its Thermal Recovery (Desheng Fan)                  |   |
|       | 16. Fibre Lasers Beyond 3 $\mu$ m using PrYb:ZBLAN (Robert Woodward)  |   |
|       | 122. Ultrashort Optical Pulse Shaping Through Temporal Modulation of Frequency Components (Logan Baber)                               |   |
|       | 93. 3D-printed polymer rib waveguides (Kevin Cook)  |   |
|       | 132. A Fibre Optic Temperature and Moisture Sensor for Concrete Infrastructure Monitoring (Martin Ams)                                |   |
|       | 81. Initial Development of Frequency Stabilization of a 2.56 m <sup>2</sup> Ring Laser Gyroscope (Caroline Anyi)                      |   |
|       | 147. Velocity measurement in optical tweezers for biology (Catxere Casacio)   |   |
|       | 104. Rare-Earth Doped Crystals as an Optical Filter for Acousto-Optic Imaging (Madeleine Cormack)                                     |   |
|       | 19. Polarimetric backscatter detection of super-cooled liquid in clouds (Murray Hamilton)   |   |
|       | 108. Quantum Sensing using Nitrogen-Vacancy Centres in Optically Trapped Nanodiamond (Lachlan Russell)                                |   |
|       | 142. Fabrication and Structure of Hi-Bi Micro-structured Optical Fibres (Wenyu Wang)  |   |

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|       | 53. OAM modes at THz frequencies by fibre twisting (Alessio Stefani)   |
|       | 141. Optimal Pressure for Tuning the Lattice Structure of Photonic Crystal Fibre (Wenyu Wang)  |
|       | 128. Glowing green – a comparison of SYTO 9, thiazole orange and acridine orange staining of bacteria (Cushla McGoverin)   |
|       | 96. Fabrication of Ge <sub>28</sub> Sb <sub>12</sub> Se <sub>60</sub> chalcogenide glass microstructured optical fiber with stack-and-draw method (Shengling Wu) |
|       | 49. Quantum superposition of future trajectories in stochastic processes (Farzad Ghafari Jouneghani)   |
|       | 143. Indefinite Causal Order (Kaumudibikash Goswami)   |
|       | 89. Study of Coupled Cavities with Time-Delayed Coherent Feedback (Nikolett Nemet)   |
|       | 111. Interaction induced synthetic gauge fields with ultracold atoms (Dylan Brown)   |
|       | 38. Thermalisation and Occasional Bilobe Formation in Bragg-Diffracted Bose-Einstein Condensates (Alexander McPhail)   |
|       | 112. Scalable performance in solid-state single-photon sources (Nor Azwa Zakaria)  |
|       | 62. Composable Security Analysis for Measurement-Device-Independent Quantum Cryptography with Continuous Variables (Yichen Zhang)                                |
|       | 68. Direct Characterization of a nonlinear photonic circuit's wave function with laser light (Mirko Lobino)  |
|       | 100. A multi-spectroscopic approach for the detection of coeliac disease: an ex vivo proof of principle study (Sara Miller)                                      |
|       | 91. Australian atom trap trace analysis facility: status update (Rohan Glover)   |
|       | 71. Cold Rubidium Loading of Kagome Fibre for Ultra High Optical depths (Andre Luiten)   |
|       | 84. Cavity QED engineered spinor physics (Stuart Masson)   |
|       | 150. Domain percolation in a quenched ferromagnetic spinor condensate (Nanako Shitara)   |
| 18:30 | <b>Poster Session concludes</b>  |
| 18:30 | <b>Post Deadline Session</b>   |
| 18:30 | 154. Latest developments in Femtosecond Laser Written Optical Components for Space-Division Multiplexing (Michael Withford)                                      |
| 18:42 | 153. High-performance integrable graphene energy storages using ultrafast lasers (Letty Thekkekara)  |
| 18:54 | 158. Multi-site functional Calcium(Ca <sup>2+</sup> ) imaging of oblique dendrites (Michael Lawrence Castanares)   |
| 19:06 | 161. Exploring the Limits of Ultra-Strong Light Atom Interaction in a Waveguide-trapped Cold Atoms (Ashby Hilton)  |
| 19:18 | 162. Optimal Matter-wave Gravimetry (Simon Haine)  |
| 19:30 | <b>Post Deadline Session concludes</b>   |

## Tuesday 5 December

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| 8:00  | Conference Registration  |  |
| 9:00  | <b>Keynote 2 - Ewa Goldys   Room: Coronet &amp; Remarkables</b>  |  |
| 10:00 | <b>Morning Tea</b>   |  |
|       | <b>Stream 1: Sensing</b><br>Room: Coronet   Session Chair: Ursula Gibson   | <b>Stream 2: Quantum Optics I</b><br>Room: Remarkables   Session Chair: Sile Nic Chormaic              |
| 10:30 | <b>Advanced micro-nano-structured optical surfaces for display and sensing (Daniel Rodrigo)</b>  | <b>Towards a quantum electro-optic converter through micromechanical motion (Cindy Regal)</b>          |
| 11:00 | 131. Metastable argon production via frustrated tunnel ionization with few cycle near infrared pulses (Dashavir Chetty)  | 54. Cavity enhanced microwave to optical frequency conversion in erbium doped crystal (Yu-Hui Chen)    |
| 11:15 | 59. Photon-Avalanche-Enhanced Population Inversion in Lanthanide Upconversion Nanocrystals (Yiqing Lu)   | 139. Generation of Mechanical Interference Fringes by Multi-Photon Quantum Measurement (Till Weinhold) |
| 11:30 | 28. Monitoring the lasing threshold of whispering gallery mode resonators as an alternative to mode tracking for refractive index sensing (Alexandre Francois) | 103. Quantum Survival Resonances in a Dissipative Driven System (Shijie Chai)                          |
| 11:45 |  | 137. A single-shot quantum heat engine (Thomas Guff)   |
| 12:00 | <b>Lunch   Location: Bazaar Restaurant, Level 6</b>  |  |
| 12:30 | <b>AOS AGM   Room: Coronet Room</b>  |  |
|       | <b>Stream 1: Optical Communication</b><br>Room: Coronet   Session Chair: Stuart Murdoch  | <b>Stream 2: Quantum Memory</b><br>Room: Remarkables   Session Chair: Mike Reid                        |
| 13:30 | <b>Progress in nanophotonic approaches to optical information processing (Ann Roberts)</b>   | <b>Extending bandwidth and capacity of a Brillouin-based memory for light (Birgit Stiller)</b>         |
| 14:00 | 23. Dynamics of cavity solitons with amplitude modulated driving fields (Ian Hendry)   | 12. Genuine Quantum Memory for Broadband Light (Patrick Ledingham)                                     |
| 14:15 | 118. Kilometer Scale Free Space Optical Communication Using Dither Locking and Frequency Modulation (James Spollard)   | 94. Sub-Megahertz Single Photon Source Suitable for Quantum Memories (W. Y. Sarah Lau)                 |
| 14:30 | 90. Characterisation of an all-fibre laser with saturable absorber (Robert Otupiri)  | 30. The Quest for Nonclassicality using Number-Resolving Single-Photon Detectors (Raphael Abrahao)     |
| 14:45 | 14. Nanocrystalline Alkaline Earth Halides for Ultra-high Density Optical Data Storage (Nicolas Riesen)  | 61. Modelling the Electronic Structure of Lanthanide Ions in Y2SiO5 (Michael Reid)                     |

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| 15:00 | <b>Afternoon Tea</b>   |   |
|       | <b>Stream 1: Frequency combs</b><br>Room: Coronet   Session Chair: Noriaki Ohmae   | <b>Stream 2: Metasurfaces</b><br>Room: Remarkables   Session Chair: Albert Polman   |
| 15:30 | <b>Optical synthesis with photonic-chip Kerr frequency combs (Scott Papp)</b>  | <b>Metasurfaces for the next-generation optics (Sergey Kruk - winner of the Geoff Opat ECR prize 2017)</b>  |
| 16:00 | 77. Picosecond pulse source with tunable repetition rate based on temporal cavity solitons (Alexander Nielsen)   | 10. Observation of Fano resonances in a high Q terahertz whispering gallery mode spherical resonator coupled to a multi-mode waveguide (Dominik Vogt) |
| 16:15 | 60. Symmetry breaking and polarization domain walls in a normally dispersive passive resonator (Bruno Garbin)  | 21. Optimising cavity alignment using a spatial light modulator and a single diode supported by digitally enhanced interferometry (Tarquin Ralph)     |
| 16:30 | High-Resolution Dual-Comb Spectroscopy with Ultra-Low-Noise Frequency Combs (Benjamin Sprenger)  | 80. Film-Coupled Nanoparticle Plasmonic Cavities and their Applications in Cavity Quantum Electrodynamics and Optical Gas Sensing (Boyang Ding)       |
| 16:45 | 51. Dual-comb spectroscopy based on mode-locked chip lasers (David Lancaster)  | 160. Mode-Splitting for Refractive Index Sensing in Whispering Gallery Mode Resonators with Broken Symmetry (Qiongyue Kang)                           |
| 17:00 | <b>Industry Session</b>  |   |
|       | A series of presentations from industry participants, designed to showcase the world of photonics outside academia. Speakers and the titles of their talks will be provided at registration. |   |
| 18:30 | <b>Industry Session concludes</b>  |   |
| 19:30 | <b>Conference Dinner</b>   |   |
| 23:00 |  |   |

## Wednesday 6 December

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| 8:00  | Conference Registration   |   |
| 9:00  | <b>Keynote 3 - Alain Aspect   Room: Coronet &amp; Remarkables</b>   |   |
| 10:00 | <b>Morning Tea</b>  |   |
|       | <b>Stream 1: Near field Optics</b><br>Room: Coronet   Session Chair: Frederique Vanholsbeeck  | <b>Stream 2: Nonlinear Optics</b><br>Room: Remarkables   Session Chair: Birgit Stiller                                  |
| 10:30 | <b>Particle Trapping and Manipulation using Near-Field Optics (Sile Nic Chormaic)</b>   | <b>Noise-Inhibited Cavityless Parametric Mixers (Stojan Radic)</b>  |
| 11:00 | 95. Optical Trapping of Resonant Dielectric Nanoparticles (Peter Reece)   | 4. Low-power Light Nonlinear Photonics: Transduction of Acoustic Nonlinearities into the Optical Domain (Ivan Maksymov) |
| 11:15 | 148. Laser control and readout of superfluid flow (Stefan Forstner)   | 126. Single framework for waveguide design for nano-lasing and four-wave mixing (Guangyuan Li)                          |
| 11:30 | 97. Magnetic Pseudo-fields in a Rotating Electron-Nuclear Spin System (Alexander Wood)  | 66. Wideband wavelength tunability of parametric oscillation in silica microsphere resonators (Noel Lito Sayson)        |
| 11:45 | 6. Quantum-enhanced multiparameter estimation for low measurement counts (Jacob Dunningham)   | 36. Nonlinear up-conversion for room-temperature high-sensitivity microwave radiometers (Gabriel Santamaria-Botello)    |
| 12:00 | <b>Lunch   Location: Bazaar Restaurant, Level 6</b>   |   |
|       | <b>Stream 1: Biophotonics &amp; Sensing</b><br>Room: Coronet   Session Chair: Luc Thévenaz  | <b>Stream 2: Frequency Metrology</b><br>Room: Remarkables   Session Chair: Alain Aspect                                 |
| 13:30 | <b>Upconversion nanoparticles based sub-diffraction imaging (Denitza Denkova)</b>   | <b>Frequency comparison of optical lattices clocks (Noriaki Ohmae)</b>  |
| 14:00 | 48. Extraction of Group Velocity Dispersion value from standard Fourier Domain OCT data (Sylwia Kolenderska)  | 17. Photoassociation spectroscopy of Cs*Yb in an optical dipole trap (John McFerran)                                    |
| 14:15 | 73. Extracting Morphometric Information from Rat Sciatic Nerve Using optical coherence tomography (OCT) – Review and Comparison of Methods (James Hope) | 92. Attoclock: Tunnelling time in strong field ionization of atomic hydrogen (Satya Sainadh Undurti)                    |
| 14:30 | 64. A Multipoint, Inline, Continuous Wave Interferometric Acoustic Sensing Array (Chathura Bandutunga)  | 31. Unconditional shot noise limit violation in photonic quantum metrology (Sergei Slussarenko)                         |
| 14:45 | 78. Non-contact estimation of the elastic Green's function using a dual beam laser Doppler vibrometer (Sam Hitchman)                                    | 152. Optimal and Robust Quantum Metrology Using Interaction-Based Readouts (Stuart Szigeti)                             |

| 15:00 Afternoon Tea |   |  |
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|                     | Stream 1: Fibre sensors<br>Room: Coronet   Session Chair: Sara Miller   | Stream 2: Laser<br>Room: Remarkables   Session Chair: Stojan Radic   |
| 15:30               | <b>Distributed fibre sensors using Brillouin scattering: the way to go farther, sharper and faster (Luc Thevenaz)</b>   | <b>Large-frequency shift optical parametric oscillation in a crystalline microresonator (Karen Webb)</b>               |
| 16:00               | 43. Optimizing the sensitivity of palladium based fiber optic hydrogen sensors (Maximilian Fisser)  | 115. Mid-Infrared Few-Cycle Pulse Generation with a Ho:ZBLAN Fibre Laser (Robert Woodward)                             |
| 16:15               | 99. Novel microelectromechanical fiber sensors (Calida Tang)  | 20. 2-12 $\mu\text{m}$ supercontinuum using a mid-IR ultrafast fiber laser and a chalcogenide taper (Darren Hudson)    |
| 16:30               | 22. Waveguides Inscribed in Lanthanum Dense Flint Glass with Femtosecond Laser (Yvonne Qiongyue Kang)   | 8. Widely Tunable Mid-Infrared All-Fibre Lasers Based on Mechanically Robust Fibre Bragg Gratings (Gayathri Bharathan) |
| 16:45               | 72. Methods for Temperature Sensing in Natural Waters Based on Raman Spectroscopy and Blue Excitation (Andréa de Lima Ribeiro)  | 117. A Tunable Laser from 1610 - 1760 nm Using a Narrowband Acousto-Optic Tunable Filter (Adam Gambell)                |
| 17:00               | <b>Poster Session   Room: Clancy's</b>  |  |
|                     | 15. Self-Tuning Short-Pulse Fibre Lasers with Automated Algorithmic Optimisation (Robert Woodward)  |  |
|                     | 45. Bright solitons interactions in harmonically trapped Bose-Einstein condensates (Antonio Muñoz Mateo)  |  |
|                     | 146. Metallic and Dielectric Plasmonic Second Harmonic Conversion (Judith Dawes)  |  |
|                     | 82. Apparent Chaos in Erbium Yttrium Orthosilicate Absorption (Gavin King)  |  |
|                     | 109. Elastic Purcell effect (Michael Steel)   |  |
|                     | 26. Ultrafast Spectral Bandwidth Compression using Sum Frequency Generation of Chirped Laser Pulses (Karen Thorn)   |  |
|                     | 105. Enhancing second harmonic efficiency through selective coupling to whispering gallery modes (Luke Trainor)   |  |
|                     | 18. Using Polarisation-Sensitive Optical Coherence Tomography and mechanical indentation for assessing cartilage degeneration in the bovine model of early osteoarthritis (Frederique Vanholsbeeck) |  |
|                     | 106. Refractive index measurements of normoxic and anoxic multicellular spheroids with optical coherence tomography (Frederique Vanholsbeeck)   |  |
|                     | 110. There is a spike, but is there a point? (Claire Honney)  |  |
|                     | 13. Towards high-resolution Spectral Optical Coherence Tomography with a long imaging range (Sylwia Kolenderska)  |  |
|                     | 120. Three-dimensional brain tumour models: a tool to advance fluorescence-guided surgery (Annemarie Nadort)  |  |
|                     | 5. Near real time evaluation of bacterial viability using the optrode (Fang Ou)   |  |
|                     | 25. Light-shaping techniques in multimode fibres (Martin Ploschner)   |  |
|                     | 102. Centrifugal Microfluidics for a Near Real-Time Bacteria Counting Device (Joni White)   |  |



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|       | 98. Adaptive optics for free-space optical communications (Jordan Smith)   |
|       | 24. Using fibre Bragg gratings for structural health monitoring of structures during earthquakes (Stefaan Janssens)                      |
|       | 69. Near Infrared Emission in Bismuth/Erbium Co-Doped Optical Fiber at Liquid Nitrogen Temperature Pumped by 830 nm Light (Mingjie Ding) |
|       | 85. Form Birefringence Reflector Enabled by Subwavelength Metallic Gratings (Fan Hong)   |
|       | 136. Tunable fs Laser Characterisation of Active Centres of Bismuth/Erbium Co-Doped Fibre (Gui Xiao)                                     |
|       | 2. Light Emitting Diode Arrays for Large Area Solar Simulation (Alaa Al-Ahmad)   |
|       | 65. Digitally Enhanced Optical Delay Line Architecture for Laser Frequency Metrology (Chathura Bandutunga)                               |
|       | 27. Towards an optical-tweezers based platform for superresolution scanning imaging (Thomas Dixon)                                       |
|       | 55. Spin-orbit coupled interferometry with ring-trapped Bose-Einstein condensates (John Helm)  |
|       | 135. Quantum metrology with high efficiency temporal multi-photon detection (Alex Pepper)  |
|       | 107. Air-Clad Optical Fibres for The Photocatalytic Degradation of Emerging Contaminants (Kevin Cook)                                    |
|       | 159. Enhancing metastable production efficiency using few-cycle infra-red laser pulses (Adam Palmer)                                     |
|       | 156. Assessment of Apple Juice by Aquaphotomics in a Temperature Dependent Environment (Harpreet Kaur)                                   |
| 18:30 | Poster Session concludes   |
| 19:00 | Public Lecture   Venue: Queenstown Memorial Hall   |
| 20:00 | Public Lecture concludes   |

## Thursday 7 December

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| 8:00  | Conference Registration  |  |
| 9:00  | <b>Keynote 4 - Gerd Leuchs   Room: Coronet &amp; Remarkables</b>   |  |
| 10:00 | <b>Morning Tea</b>   |  |
|       | <b>Stream 1: Quantum Optics II</b><br>Room: Coronet   Session Chair: Gerd Leuchs   | <b>Stream 2: Precision Measurements</b><br>Room: Remarkables   Session Chair: Cushla McGoverin                   |
| 10:30 | <b>Catching a Quantum Jump Mid-Flight in a Superconducting Circuit: A Quantum Trajectory Simulation (Howard Carmichael - Winner of the Dan Walls Medal 2017 of the NZIP)</b> | <b>Wavefront sensors and adaptive optics for gravitational wave detectors (Peter Veitch)</b>                     |
| 11:00 | 123. Towards a Bell Test with Momentum-Spin Entangled Pairs of Massive Particles (Sean Hodgman)  | 101. Adaptive Optics for Mode-Matching in Advanced Gravitational Wave Detectors (Huy Tuong Cao)                  |
| 11:15 | 46. Experimental realisation of a quantum controlled-shift gate (Joseph Ho)  | 145. Making light work of ultrasound: new applications with a fully optical acquisition system (Kasper Van Wijk) |
| 11:30 | 88. Quantum state tomography with all-dielectric highly-transparent metasurfaces (Alexander S. Solntsev)   | 40. Continuous optical magnetometry using a dynamically decoupled quantum gas (Michael Kewming)                  |
| 11:45 | 155. Investigating the dynamics of Majorana zero modes with a photonic simulator (Yongjian Han)  | 87. Space debris tracking with a continuous wave laser (Samuel Francis)  |
| 12:00 | Conference Close   |  |