



AIP Congress 2018

Poster Presenter Abstracts



First Name	Last Name	Organisation	Paper Title	Abstract
Snezhana I.	Abarzhi	University of Western Australia	Stability of an accelerated hydrodynamic discontinuity	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/cd09548c95bc4a40b643eb87d791f1fa
Snezhana I.	Abarzhi	University of Western Australia	Effect of noise on Rayleigh-Taylor mixing with space-dependent acceleration	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/69b1072748b6441484a6b5f2cd167cc0
Snezhana I.	Abarzhi	University of Western Australia	Effect of noise on Rayleigh-Taylor mixing with time-dependent acceleration	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/76641c7ae0ca4560bc1e8f64926cc791
Snezhana I.	Abarzhi	University of Western Australia	Late-time evolution of Rayleigh-Taylor instability in a domain of a finite size	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/e2196ab2f23442eb94e8f681ca00c0f9
Yaman	Afandi	University of Western Australia	Study of Porosity Gradient in Released Porous Silicon Microstructures	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/286827afa72344ae8fc7b9b2f39aff8d
Alireza	Aghajamali	Curtin University	Xenon Release upon Thermal Annealing of Nanodiamonds: A Molecular Dynamics Study	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a0e351edadd45d4831928f818382e4d
Paul	Altin	Australian National University	Controlling the squeezing ellipse angle at a 2 micrometer wavelength	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a66fe76e527142a98766d8a6a99bc108
Declan	Armstrong	University of Queensland	Three Dimensional Manipulation and Force Measurement of Microorganisms	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/6c1079652df24c93b782f69880759b9e
Estelle	Asmodelle	ARC Centre for Quantum Computation and Communication Technology	Relativistic Bohmian Trajectories	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/01365b751d974b42b64c644bec2dc1f5
Leonardo	Assis Morais	University of Queensland	Transition edge sensor: photon-number resolving detectors	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/abdb1bee20614ce3ad0f3d5e6a68bf71
Azin	Azadi	Murdoch University	3D printed mechanical meta-materials and bone scaffolds: non-linear elastic behaviour in a "severed" Diamond network.	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/24bb04740c1c44dca99d0dcac5fc73ed
Srivatsa	Badariprasad	University of Melbourne	Instability of Rotationally-Tuned Dipolar Bose-Einstein Condensates	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/8a049a8726b0415ea6a470d988bf67f3
Tomi	Baikie	Cambridge University	Singlet Fission Luminescent Solar Concentrators	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/56b4b84168b543beacdfa4bab47d2971
Travis	Baker	Griffith University	Beyond the Conventional Limit to the Coherence of a Laser	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/47716ecf5d8d4e01a13a84ca1960c362
Ben	Baragiola	ARC Centre for Quantum Computation and Communication Technology	Quantum trajectories for the joint state of a system and field	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/dac02a3aef9045609ac61551762457eb
Michael	Barson	Australian National University	Quantum sensing of Neuronal signals	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/b3fc6efedf30491bb531936ac5dc7acc
Francis	Bayocboc	University of Queensland	Dynamics of thermalisation of two tunnel-coupled quasicondensates	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/d60e732259684c709a2ef4af47fab26
James	Beattie	Queensland University of Technology	Fractal Geometry through the Sonic Scale of the World's Largest Turbulence Simulations	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/b1226c595b294999bd9bf8550209f796
Deeksha	Beniwal	University of Adelaide	Mid-IR fibre lasers for wavefront correction in advanced gravitational wave detectors.	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/d33ac998f00f4ff7b741f335f8d5de00
Julian	Berengut	University of New South Wales	AMBIT: A program for high-precision relativistic atomic structure calculations	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9256833e5e74567a0aeb0b88e1c43eb
Gurashish Singh	Bhatia	International Centre for Radio Astronomy Research	The Central Redundant Array Mega-Tile at the Murchison Radio Astronomy Observatory	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/f7a2798fc5ce47b7ab82f787867e1320
Philip	Blocher	Aarhus University	Temporally non-local effects in optical detection	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a642687adf994ac2a049f13d2d7ae526
Kok-Wei	Bong	Griffith University	Strong unitary and overlap uncertainty relations: theory and experiment	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/c147ba0cddc04e2f8a253e6081dc5659
Larnii	Booth	University of Queensland	Quantum limited plasmonic sensing of motor molecule dynamics	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/2fdfe289e640432f93d6bbb2ecce70e4



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Georgina	Carson	University of New South Wales	An atomically precise 4-qubit processor using donor spins in silicon	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/a96008ee42d84b29bd918cac11e979ce
Brett	Carter	RMIT University	The Effect of Plasma Density Variations on the Generalised Rayleigh Taylor Instability in the Equatorial Ionosphere	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/09a5b9a45dad45e3946363f2605d8e13
Dashavir	Chetty	Griffith University	Strong field excitation of Argon with few-cycle laser pulses	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/3ca56c2a18bd4713bea7f403d81502df
Rahul Kumar	Choudhary	University of Western Australia	An analysis of high school students' attitudes and understanding of Einsteinian physics using short and long interventions	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/8595b7e9ea0d4231aff798285e3670c6
Nicholas	Collins	University of Melbourne	Towards deterministic implantation of colour centres in diamond	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/27f00bb66519419fa53432a51e5370de
Daniel	Creedon	University of Melbourne	Irradiation induced modification of superconductivity in boron doped diamond	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/40fd150b3a9a45e78e207b4e0778ab90
Benjamin	Cumming	RMIT University	Impact of cubic symmetry on the optical properties of gyroid networks	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/763a6016325b48ab9b94d606ee15d93a
Martin	Cyster	RMIT University	Simulation of low pressure oxidation in Josephson junction fabrication	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/0a524b655500499f9123639939e68486
Shakib	Daryanoosh	Macquarie University	Quantum master equations for entangled qubit environments	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/fc98c37bb0164c74b6c82733d53ee958
Jonathan	Dean	University of Melbourne	Absolute energy of the K alpha emission spectrum of Scandium	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/6c4b98ca072740158d056c89730290f0
Zhi-Tao	Deng	University of Queensland	Properties of Superfluid Flow Between Reservoirs	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/b0ac0f0be625c4b899262863784664e35
Guochu	Deng	Australian Nuclear Science and Technology Organisation	The Cold-Neutron Triple-Axis Spectrometer SIKA at OPAL	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/978b9d6b18d44c62a384217b75b89d79
Marcus	Doherty	Australian National University	Optimisation of diamond quantum processors	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/ce0e16824a1435abfd5a154000c11f
Masaaki	Doi	Tohoku Gaukin University	Magneto-optical Keer Effect of D022-Mn3Ga/Cr/L10-MnGa Trilayered Circler Dots	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/7b3220d29ff84ea19491be583fe0d544
David	Dossett	University of Melbourne	Automating calibration at the Belle II experiment	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/9282800e5a66473c9cd209b92e28d2a18
Tim	Evans	University of Sydney	Methods in Matrix Product Operator Tomography	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/300028024394acf9732d03b73588d3c
Weijun	Fan	Nanyang Technological University	Tensile Strain Effect on Band Structure of Ge and Ge Quantum Well	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/18fa38d2c93d4a758f391bc37d727995
Ruhao	Fang	University of Sydney	Strain-engineered Ultrahigh Mobility in Phosphorene for Terahertz Frequency Transistors	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/a2b25b32e8a14ec7b7888fb2d38a3d93
Itia	Favre-Bulle	University of Queensland	High speed multiple particle tracking for biological applications	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/a25748c63b5d42db8960644abdf63c
Bernard	Field	Monash University	Variational approach for modelling Bose polarons at finite temperature	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/ad64a548309740c2bf18024e4275c195
Daniel	Flynn	University of Melbourne	Muonic hydrogen and the proton radius problem	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/59e595f6f19b450aa2a82350e41816e4
Florian	Frank	University of Ulm	Closed-loop optimization of single spin control in room-temperature solids	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/7f2ec86a87424bd4b5dac574456bbbf
Dmitry	Fursa	Curtin University	Electron-impact dissociation of molecular hydrogen	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/3be763b01c43ca9bdca085ee5d8802b
Le	Gao	RMIT University	Development of optically active solid medium for high-capacity optical data storage	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/001dde6adf704b5b8bffc37286bbe1e3
Guillaume	Gauthier	University of Queensland	Transport Dynamics of an Atomtronic LRC Circuit	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/36a05412dd514363a8a0cd4ac952db7a
Amy	Geddes	University of New South Wales	Saturated configuration interaction calculations for five-valent Ta and Db	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/66d825dff6f144283ba05afb6280a7966
Jemy	Geordy	ARC Centre of Excellence for Engineered Quantum Systems	Bayesian estimation of blinking in nano-diamond color centres	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/840f3980795f4d6588b4e54352ac93f2



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Gurpreet Singh	Gill	University of Western Australia	Modelling and Fabrication of Anti-Stiction Features for Electrostatically Actuated Microsystems	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/be558c3b3ec347de94103f08adf38f4b
Jeremy	Gillbanks	University of Western Australia	Reference Electrode-Free pH Sensing at Temperatures above 300 K Using AlGaN/GaN Transistor-Based Chemical Sensors	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/d8a9a07c1e74deba37fb8daf02057d9
Rohan	Glover	Griffith University	Frustrated tunneling ionization dynamics with CEP locked pulses	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/26c57655de5c4051bbee1ed7ecdaebe7
Jan	Gluschke	University of New South Wales	Monolithic complementary nafion-gated nanowire circuits with kHz response for bioelectronics applications	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9c29c123f4f64a9db056928a026af9a2
Kwan	Goddard Lee	University of Queensland	Non-Symmetric Vortex equilibria in a Boes-Einstein condensate	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/6e861b214ae247c5a6afd43fa58a24df
Kaumudibikash	Goswami	University of Queensland	Extracting information from depolarising channels using indefinite causal order	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/003794cf4bfe4b7d9d2f2a5b19cd7e9a
Charles	Gravestock	University of Western Australia	The Phase Synchronisation System for the Mid-Frequency Square Kilometre Array Radio Telescope	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/d8e3f8fd3afe4d3c967e011e1dc4177d
Anthony	Greaves	Swinburne University of Technology	An electromagnetic and circuit theory concept inventory of undergraduate engineering students	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/5a2e85ae43ed412cb0f52bb2c820efb3
Joshua	Guanzon	University of Queensland	Simulation of the Jarzynski equality in a finite temperature Bose gas	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/f7db293017534a3888a283ed67df63fa
Paul	Hancock	Curtin University	Space Situational Awareness with the Murchison Widefield Array	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9748107e6f89411e919395b6d902b8e0
Glen	Harris	University of Queensland	Stable Levitation of Superfluid Helium; Optomechanics with Droplets	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/93b593def4d54b6298fa21df759cc198
Raymond	Harrison	RMIT University	Multi-photon evolution using waveguide adiabatic passage	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/8e78ab12b5634cfbbd72d0120a3c95c8
Kavya	Hemantha Rao	Griffith University	Angle resolved X-ray emission spectroscopy of laser produced metal plasmas and alloys	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a6e74c7843bb4aea9ffbec8f44a07281
Desmond	Hill	University of Western Australia	Dimensional crossover in Richtmyer-Meshkov unstable flows in the presence of pressure fluctuations	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/54527a0c21dc4c0abc2e73681937f54f
Desmond	Hill	University of Western Australia	Effect of pressure fluctuations on Richtmyer-Meshkov coherent structures	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/fed4bbf231304d9480878482620e0efd
Steven	Hinckley	Edith Cowan University	Determining the Displacement of Flexible Membranes using Fibre Bragg Gratings	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/09c6c2c324314323afe6f5a7f9e7f9c7
Steven	Hinckley	Edith Cowan University	Optical coherence tomography modelling incorporating absorption and scattering	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a8fb335b4f4344d19155d7043d475b65
Sean	Hodgman	Australian National University	Bogoliubov-Cherenkov Radiation, Machine Learning and Quantum Depletion Experiments with Helium Bose-Einstein Condensates	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/c52a6f8b4de94b529fc8658fa3f0edbc
Lewis	Howard	University of Queensland	Optimal Spatial Metrology	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/5c2d4258c53d4cd5ad75e3767f4986f8
Fabio	Isa	CSIRO	Nano-diamonds on group-IV semiconductor substrates for quantum optics	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/3d38f9c8549f4a8e6939eac2987e378b7
Lorna	Jarrett	University of Wollongong	Public understanding of key scientific concepts underlying climate change, and suggested learning and teaching strategies to overcome misconceptions	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/17f9ee97700948b3af05fb14a68a62ae
Mark	Johnson	University of New South Wales	Electrical control of a single spin-7/2 123Sb donor in 28Si	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a5018f0697bc4766b08397f9259a0f58
Akib	Karim	RMIT University	Ab-initio photoluminescence spectrum of NV-centres in small nanodiamonds	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/6f4855a798524bdc8033c69af39fa969
Magdalena	Kersting	University of Western Australia	How History and Philosophy of Science Can Inform Teaching and Learning of General Relativity in Upper Secondary School	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/0c64a820aa424eb1ae29d65ac99181df
Michael	Kewming	University of Queensland	Ignorance of the whole does not imply ignorance of the parts: Qudit Random Access Codes in spatial modes of light	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/76bc15c0b2654ac999b377810a558b03
Shahbaz	Khan	University of Western Australia	Response enhancement of a magnetic-film based hydrogen gas sensor using size reduction to microchip dimensions	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/e0d3823e1981403d84258051e34db920
Ryan	Kidd	University of Queensland	Phase space methods for nonlinear quantum dynamics in atomic BECs	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9cb8ab31a2e749048f7403c6437b6e8f
Mykhailo	Klymenko	RMIT University	Multi-electron states of phosphorus dopants in silicon nano-structures	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/bbe90eb4b0ef4046937a56b281ae0b28



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Mikhail	Kostylev	University of Western Australia	Effects of hydrogen on the ferromagnetic resonance of Ni80Fe20/Y/Pd multilayer films	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/405d6daf364342739062de3cac73c4f4
Pawan	Kumar	University of Jena	Mid-infrared sensing by induced coherence in a single nonlinear waveguide	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/d7898a9b8c8a474dbf6491a497fe7057
Jaehwan	Kwon	Kyungbook National University	Micro vibration measurement and surface vibration projection of latex samples using optical Doppler tomography system	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/c858ba025a19424ab8e459c6e270290
Oeon	Kwon	Kyungpook National University	Real-time index regulating technique for direct wavenumber-linearization in spectral domain optical coherence tomography	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/ea81f126b2f64b1499493d88837f8dc4
Greg	Lane	Australian National University	E6 transition in the decay of Fe-53m	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/dde8f97a85a24f27b5067ed23b19b1be
Cyril	Laplane	Macquarie University	A new tool for optical manipulation of nano-object based on atomic forces	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9e8cd4efbdf94c179dec77b7119f4a29
W. Y. Sarah	Lau	University of Queensland	Hectometer Revivals of Quantum Interference	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/c2bd03cc8eaf42f39e1cb241222cc41
Ruvi	Lecamwasam	Australian National University	Analysis and feedback-control of a levitating mirror	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/5381cd9122754ee3b07ca0ed46439055
Isaac	Lenton	University of Queensland	OTSLM: A toolbox for production of flexible structured light	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/b8c51fe231ea47bfbdfad40319f7e13d
Ross	Leon	University of New South Wales	Electrically driven spin qubits with micromagnet in Silicon-MOS quantum dots	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/93183074cae84b77a61ad10f3a7b48a5
Anthony	Leung	Australian National University	Storing single photons using gradient echo memory	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/2ba3c2da2a174f0bb4f5f6bfd8e970bc
Ziyuan	Li	Australian National University	Single axial n-i-p junction InP nanowires for high performance solar cells	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a3c37d33265049738ce6aa86085fd693
Douglas	Little	Macquarie University	Quantum-Random Bit Generation using Raman-Laser Pulses in Diamond with Randomly-Oriented Linear Polarizations	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/5d3c2205ce6b498286c0deebaa160bb
Vishnu	Mangalath	University of Western Australia	Coordinate-free Grad-Shafranov equation on a Riemannian manifold with Killing field	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/22622a808acd42c2b9f86d6e30515a90
David	McAfee	University of Adelaide	An electronically controlled mode-locked thulium all-fibre laser at 1.990 μ m	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/19e00877494e4d34899c15c78e2a6385
Daniel	McCloskey	University of Melbourne	Enhancement of Fluorescence from Dense Ensembles of Near-Surface Nitrogen-Vacancy Centres for Biological Sensing	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/064d9164515e4c788d2ce4f50be3fdb2
Brendan	McCormick	Australian National University	Relative measurements of g(2+) in the stable even-even Ge and Se isotopes	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/7a758f1876854daba68cf267498af74d
John	McFerran	University of Western Australia	Comparison of frequency-to-voltage converters for laser frequency stabilisation and cooling of atoms	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/13a38eb9227e46c1b0868664e401e067
Lucas	Mensen	RMIT University	Predicting successful error correction in a measurement-based quantum computation with continuous-variable cluster states	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/7078a630d80045ecbb5f51827d37909d
Peter	Metaxas	University of Western Australia	Spin torque nano-oscillators for electronic, frequency-based, magnetic biosensing	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/66d7dc453ff44bae8d8010c39db82b07
Jillian	Moffatt	University of Adelaide	Energy transfer upconversion parameter for 4113/2 measured in erbium doped ZBLAN fibre	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/ebba5b949fa742539777edf1c5fb8e42
Gary	Mooney	University of Melbourne	Gate synthesis using higher orders of the Clifford hierarchy	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/b75639fe04ed47bf92a01d92086f35da
Kerry	Mudge	Defence Science and Technology Group	Analysis of Atmospheric Turbulence Effects for Laser Satellite Communications	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/1c66f5a087c142aab1b75584b0d7cf8c
Kerry	Mudge	Defence Science and Technology Group	Scintillation Mitigation Strategies for Asymmetric Free Space Laser Communications	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/3f027b7073a04050bade1b8bce072c91
Guillermo	Munoz Matutano	Macquarie University	Educational Toolbox for Photon Correlation Principles and Fundamentals in Quantum Optics	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/47e0173069d849cbaa0319f40be6e4e1
Sebastian	Murk	Macquarie University	Properties of stress-energy tensor and metric close to the Schwarzschild radius	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/5631c0f4873d49d8b11f0994b282a833



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Benjamin	Neil	University of Western Australia	High reflectivity silicon nitride photonic crystals	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/d50a6202b2d545629eebdca4430e7089
Minh	Nguyen	University of Technology Sydney	Nanoassembly of hexagonal boron nitride and gold nanospheres	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/23a29c31916c4ce491e17e5959f5090f
Hironari	Okada	Tohoku Gakuin University	Martensitic phase transition under high pressure in Heusler alloy Pd ₂ Mn _{1+x} Sn _{1-x}	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/b02eacde55b403cadb359aee1199f4f
Michael	Page	University of Western Australia	Enhanced detection of high frequency gravitational waves using unstable optomechanical filters with low loss microresonators	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/d1d15ec9476d4f5ab6240d1fc86dc4b7
William	Pappas	ARC Centre of Excellence in Exciton Science	Spatial variation and correlation of spin and magnetoluminescence in organic light-emitting diodes	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/422f0fbe32094b129624b8b3408e59bc
Lu	Peng	University of Adelaide	Micron-scaled resolution distributed sensing using exposed core fibre	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/b529dcd0e7a54c0d8e143aac85e270eb
Chris	Perrella	University of Adelaide	Rapid optical measurement of ¹³ CO ₂ and ¹² CO ₂ number density	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/05c4b59865d04410a88e1df6e6ab6e23
David	Pfefferlé	University of Western Australia	Non-planar elasticae as optimal curves for the magnetic axis of stellarators	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/e114cd3bb3a3475c892e9e4293092ce7
David	Pfefferlé	University of Western Australia	What may the experimental and numerical data tell us on properties of Rayleigh-Taylor interfacial mixing?	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/998e3c711662475e979f45fca9dcdca49
Felix	Pollock	Monash University	Long-time dynamics from short-time tomography data for driven open quantum processes	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/1465941a92c84a47a007ebe27ab10853
Nicholas	Pritchard	University of Western Australia	Cluster-Based Simulation of the Quantum Approximate Optimisation Algorithm	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/ed3a0f2b56c140d5a395878d93ce5914
Farah	Qazi	University of Melbourne	Non-invasive optical imaging of nematode eggs	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/d3acfbd909848ac9554997b350de106
Sarath	Raman Nair	ARC Centre of Excellence for Engineered Quantum Systems	On the theory of diamond Raman lasers with colour centres in the crystal	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/a78b4843def64a3f8fe823b84c1a80d5
Sarath	Raman Nair	ARC Centre of Excellence for Engineered Quantum Systems	Towards room-temperature lasing with NV centres in open fibre cavities	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/7f9a3f25811547c08f97fe4c14270400
Jules	Rankin	University of Sydney	The Life of a Syllabus: Almost 20 years of HSC Physics.	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/f82ca9d3ec2e447f9e349da4a2023f91
Ludovic	Rapp	Australian National University	Evaluation of surface processing efficiency with powerful ultrashort pulse lasers for large-scale industrial applications	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/7124a5f103a44524879b4be8f0b68aa1
Matt	Reeves	University of Queensland	Bistability and non-equilibrium condensation in a driven-damped atomic superfluid	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/7894927f8006403590203ce2a94bac72
Praveen Kumar	Revuri	University of Western Australia	Si and SiO ₂ thin films deposited by ICPCVD at low temperature and high deposition rate for MEMS applications	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/fcd48b1939874e1e8f0e00ae280e05e5
Alexandr	Sadovnikov	Saratov State University	Brillouin light scattering study of strain-controlled Yttrium Iron Garnet stripes	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/a70c634250e54fee860d3f8f61b842fb
Sergey	Samarin	University of Western Australia	Spin-orbit interaction on surfaces by spin-polarized (e,2e) spectroscopy	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/f6989be0660a4397852f169c5c5ed675
Oliver	Sandberg	University of Queensland	Exact Floquet analysis of time-averaged trapping potentials	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/bd98d55f661e43d28feb4fd5527622b7
Tarun	Sanders	University of Western Australia	Investigation of a novel method for the fabrication of larger area imaging fibre bundles with greater number of pixels and reduced dead space	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/e467f2b82a9e4e71b8b38eee2dfd8b89
Rostyslav	Savytskyy	ARC Centre for Quantum Computation and Communication Technology	Tuning the flip-flop qubit of a 31P donor in silicon	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/c588254080a94dd9b3f753908b7b8c79



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Grace	Sawyer	Curtin University	Electron collisions with negative ions	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/bb89e6b9a8334b8c9df17be25f5f25dd
Jordan	Scarabel	Griffith University	Towards a Quantum Network with Trapped Ions and Waveguides	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/57c213d35843462cbb3e648d90cf9641
Sascha	Schediwy	University of Western Australia	Development of an Optical Phased Array to Power Interstellar Travel	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9717c875615646df955a2dc0046aa9bb
Thomas	Schefer	University of Western Australia	Effect of Hydrogen on the FMR linewidth of thick Co/Pd bilayer systems	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/c9ea0162829d441b9b9dff120976ca21
Chandrima	Sengupta	Australian National University	Elastic Scattering and Reaction cross section of 8Li on heavy and medium mass targets	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a76be0b2e2be4508bb10bf4a2d502866
Yasmine	Sfendla	University of Queensland	Proposal for optomechanical single-vortex detection in 2D superfluids	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/f992be3acdd24f3c83a5c935d534e111
Pritam	Sharma	University of Western Australia	Engineering porous silicon thin films to obtain high TCR and low 1/f noise for application in thermal detectors.	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/ed967c30e1fd4b11835755bba6d43e9c
Toshiyuki	Shima	Tohoku Gakuin University	Effect of pseudo-diffusion layers on the magnetic properties for artificial Nd-Fe-B grid patterns	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/00c9d31f97944dd7ac2d3caa7b3ded67
Paul	Sibley	Australian National University	Exploring the performance of Digitally Enhanced Interferometry for Optical Phased Arrays	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/5bd645c9b20d444893e52f013b88c35c
Jorge	Silva Castillo	University of Western Australia	Method for optical modelling of non-uniform and non-parallel multi-thin film MEMS optical filters and mirrors	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/6cf4b2830a9f4b8ca1e57fb492525901
David	Simpson	University of Melbourne	Nanoscale intracellular thermometry using diamond quantum probes	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/f1da868e9c7a4d658cf017ff088d9e43
Mandip	Singh	Indian Institute of Science Education and Research Mohali	Three-dimensional imaging of a pattern localized in a phase space	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/ec6321fbcfc64ed2be68db426526367f
Nonthanan	Sitpathom	Macquarie University	Shaping of microsphere arrays by plasma treatment for optical sensing	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/601d7e4ba7ee4ac9ad7cf39590be57ae
Jingchao	Song	University of Melbourne	Large area plasmonic colour pixels via Nanoimprint Lithography	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/38ef93616e5d4273a57fa7c511851225
Ben	Sparkes	University of Adelaide	High-transmission fibre ring resonator for spectral filtering of master oscillator power amplifiers	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/b88bb2fcd8c41559652075bc2b44229
Oliver	Stockdale	University of Queensland	Modelling expanding vortex clusters in thin film superfluid helium	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/c8195ad0ba364a06862184232404acf9
Ming	Su	University of Queensland	Asymmetric Quantum Interference Observed Using Photon-number-resolving Detectors	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/13ff665793fa4d4693f2ce94bfa7e8dd
Irene	Suarez-Martinez	Curtin University	Graphitization studies using an Atomic Absorption Spectrometer as an ultra-high temperature oven	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/552e9ff6bcf5400aabce5848a113b0e2
Geoff	Swan	Edith Cowan University	Short courses for teachers	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/ae2e9c70ba714cb5abad2b585c1140aa
Ben	Swinton-Bland	Australian National University	Systematic Study of Quasifission in 48Ca-Induced Reactions	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/8e953cbdc7b54b7e887ba6c2640cca4
Hoe	Tan	Australian National University	Wafer-scale growth of hexagonal boron nitride on sapphire substrates using metal organic vapour phase epitaxy	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/e012bd5ece8f451b81ed27b69e1df0cb
Run Yan	Teh	Swinburne University of Technology	Creation, storage and retrieval of an optomechanical cat	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/9ea2df7f9544423ebb3851a9cb23bc4c
Sam	Tonetto	University of Melbourne	Sampling Boltzmann Distributions with Quantum Annealing	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/4da78537389941a7b101e5f8c87b962c
Gilberto	Umana-Membreno	University of Western Australia	Modelling of damping characteristics in silicon-gold bilayer cantilevers	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/fcab8caf38f8411782c98085a312b71a
Matthew	van Breugel	Macquarie University	Affordable Nano-scale Thermometry with Diamond	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/93cee2a9ed6a4ba6bbac82c4cd07ca8
Matthew	van Eck	Curtin University	Cross Sections and Spin Asymmetries for Electron Collisions with Lead Atoms	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/dcc1f1f8bed84bc29741e5bba4490c25
Anton	Wallner	Australian National University	Limits in Accelerator Mass Spectrometry for Astrophysical and Nuclear Applications	https://az659834.vo.msecnd.net/eventsairseasiaprod/production-conlog-public/a3ab8255b0c849749ba17b999de9cc0e



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Blayney	Walshe	RMIT University	Fault-tolerant measurement-based quantum computing with impure continuous-variable cluster states	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/fe75341dd32d4c1ca010abc24fd011d8
Jianan	Wang	University of Western Australia	A Raman spectroscopy study on the surface structural properties of gallium nitride-based materials	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/0031398405f743489c04506ae3dc6e2
Michelle	Wang	University of Sydney	Short-range surface plasmons for stimulated Brillouin scattering	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/d810144168e6473e91529b91c102cab3
Prahlad	Warszawski	University of Sydney	Optomechanical quantum control of superfluid Helium vortices	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/a7f20c47feb473bacb265d1e16c7fb5
Raymon	Watson	ARC Centre of Excellence for Engineered Quantum Systems	Optical dipole trapping of ytterbium for an optical lattice clock	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/0dca1c6951c8452aaa3d51d01a938e35
Stuart	Watt	University of Western Australia	Impact of hydrogen gas on the inverse Spin Hall effect in Pd-Co bi-layer films	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/ef63181faf0c4209b7312054fb2a1619
Daniel	Wells	University of Melbourne	A phase space perspective on high harmonic generation using Wigner quasiprobability distributions	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/1c747d5087aa4e7d9026308689bf9736
Matt	Westlake	University of Wollongong	Characterization and investigations in to phonon dynamics of Silver doped Lanthanum Manganite nano particles for hypothermia treatment of cancer cells.	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/5cae0a0054a6452a812fab471695f290
Graham	Wild	RMIT University	A Matlab based multiple choice marking system graded students' work, email them a copy of their quiz with computer generated feedback, and provided question analytics to inform intervention and revision.	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/624c618ff808436eb4d874de2c35a6e7
Scott	Williams	University of Melbourne	Networked cosmic muon detectors for outreach and cosmic muon background measurement	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/98cd50117ad54aa798767cbf4d88b152
René	Wittmann	University of Düsseldorf	Density functional theory for two-dimensional hard rods	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/4d5d43eaf42744ffa95aa7a58a6d0e32
Keyu	Xia	Nanjing University	Quantum memory and gates using a Lambda-type quantum emitter coupled to a chiral waveguide	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/b0f8ed8ee7ad4110b580de256a767013
Lei	Xu	University of New South Wales	Highly-efficient normal second-harmonic generation from doubly-resonant AlGaAs nanoantennas	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/6745b45d5bea14859b943680430953d9a
Lei	Xu	University of New South Wales	Hybrid Metasurface Based Polarization Independent Tunable Perfect Absorber and Plasmonic Sensor	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/b862e743d0654e8498b08fff582f64a0
Dehong	Yu	Australian Nuclear Science and Technology Organisation	PELICAN – a Multi-Purpose Time-of-Flight Cold Neutron Spectrometer	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/7cff734bd6cb480e90e78502a2659829
Michal	Zawiarta	University of Western Australia	AFM integration with on-chip optical interferometric read-out	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/370fa2e0727a46f891e045fbc6e8eced
Wei-wei	Zhang	University of Sydney	Identification quantum topological phases with neural networks deep learning	https://az659834.vo.msecnd.net/eventsairseasiaproduct/production-conlog-public/3dd87b85f05e4075b3e353ad0a9cf94e